



**Department of
Environmental
Conservation**

MEEKER AVENUE PLUME TRACKDOWN SITE

SOIL VAPOR INTRUSION DATA SUMMARY REPORT 2021/2022 HEATING SEASON

WORK ASSIGNMENT No. D009803-02.3

**MEEKER AVENUE PLUME TRACKDOWN
GREENPOINT/EAST WILLIAMSBURG
INDUSTRIAL AREA, BROOKLYN**

**SITE NO. 224121
KINGS COUNTY, NY**

Prepared for:
NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
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DIVISION OF ENVIRONMENTAL REMEDIATION
Remedial Bureau B

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December 2022

**SOIL VAPOR INTRUSION DATA SUMMARY REPORT
2021/2022 HEATING SEASON
FOR THE
MEEKER AVENUE PLUME TRACKDOWN SITE
SITE ID NO. 224121
BOROUGH OF BROOKLYN, KINGS COUNTY, NEW YORK**

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LIST OF ACRONYMS AND ABBREVIATIONS

2,2,4-TMP	2,2,4-trimethylpentane
1,1,1-TCA	1,1,1-trichloroethane
1,2,4-TMB	1,2,4-trimethylbenzene
1,1-DCE	1,1-dichloroethene, aka 1,1-dichloroethylene
ACRIS	Automated City Register Information System
AECOM	AECOM USA, Inc.
aka	also known as
ASP	Analytical Services Protocol
cis-1,2-DCE	cis-1,2-dichloroethene, aka cis-1,2-dichloroethylene
COC	chain-of-custody
DUSR	Data Usability Summary Report
ELAP	Environmental Laboratory Approval Program
in. Hg	inches of mercury
L/min	liters per minute
MeCl	methylene chloride, aka dichloromethane
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCE	perchloroethene, aka tetrachloroethene or tetrachloroethylene or perchloroethylene
PID	photoionization detector
ppb	part per billion
SSDS	subslab depressurization system
SVI	soil vapor intrusion
TCE	trichloroethene, aka trichloroethylene
µg/m ³	micrograms per cubic meter
USEPA	United States Environmental Protection Agency
VC	vinyl chloride
VOCs	volatile organic compounds

1.0 INTRODUCTION

This Data Summary Report has been prepared to summarize the field activities and analytical results associated with the 2021/2022 heating season soil vapor intrusion (SVI) sampling performed by AECOM USA, Inc. (AECOM) at the Meeker Avenue Plume Trackdown Site (Site ID No. 224121) in Brooklyn, Kings County, New York (Figure 1). This report presents data and information from the 2021/2022 heating season SVI sampling conducted from January 19, 2022 to April 1, 2022.

1.1 Site Description and History

The original Meeker Avenue Plume Trackdown Site investigation area was bounded by the former ExxonMobil Brooklyn Terminal/ BP Terminal to the north (Norman Avenue/Bridgewater Street), Newtown Creek to the east, Lombardy Street to the south, and Kingsland Avenue to the west. During the first phase of Site Characterization (SC) fieldwork (May 7 through July 10, 2007), the southern boundary of the Site investigation area along Lombardy Street between Porter and Morgan Avenues was extended three blocks south to Richardson Street. During the second phase of SC fieldwork (November 5 through December 27, 2007), the southern boundary of the Site investigation area along Richardson Street between Vandervoort and Morgan Avenues was extended one block south to Frost Street. During the third phase of SC fieldwork (May 5 through July 24, 2008), the southern boundary was additionally extended one block south to Withers Street between Vandervoort and Morgan Avenues. In addition, the boundary in the northwestern corner of the Site investigation area was extended west from Kingsland Avenue between Norman and Nassau Avenues to Monitor Street.

A review of historical data during the fourth phase of SC fieldwork (November 3 through December 8, 2008) indicated that several additional potential sources of chlorinated solvent contamination may exist north of Norman Avenue, between Kingsland Avenue and Monitor Street. Therefore, the boundary in the northwestern corner of the Site investigation area was extended approximately one block north of Norman Avenue, between Kingsland Avenue and Monitor Street.

The Site boundary was once again expanded for the Phase VI SC field activities due to data obtained during the Groundwater Split Sampling Event, which was performed in November 2009 (URS, February 2010a). The data indicated the presence of a potential source of chlorinated solvents, including PCE and TCE, in groundwater originating to the west-southwest of the investigation area. The southwest corner of the Site investigation area was extended west to Kingsland Avenue between Driggs Avenue and Frost Street. The current Site investigation area is shown in Figure 2.

Land use within the Meeker Avenue Plume Trackdown Site investigation area is a mixture of residential and manufacturing, including both commercial and industrial facilities. The areas located north

of Nassau Avenue, east of Van Dam Street, and south of Meeker Avenue are primarily used for manufacturing purposes. Residential areas are located in both the northwestern portion of the Site (extending from Van Dam Street between Nassau and Meeker Avenues to the western site boundary) and within the southern portion of the Site (along Beadel Street from Morgan to Porter Avenues, along Vandervoort Avenue from Lombardy Street to Division Place, and along Kingsland Avenue from Meeker Avenue to Frost Street). The targeted area for the 2021/2022 heating season SVI sampling encompassed the entire Meeker Avenue Plume Trackdown Site Investigation Area as shown on Figure 2.

2.0 FIELD INVESTIGATION ACTIVITIES

The 2021/2022 heating season SVI sampling was conducted from January 19 through April 1, 2022. The activities conducted during the SVI sampling event consisted of community outreach, fieldwork, and report. The outreach and fieldwork for this task included the following activities:

- The NYSDEC and New York State Department of Health (NYSDOH) notified building owners and/ or residents of the SVI investigation by mail. AECOM prepared a mailing list based on property information from the New York City Automated City Register Information System (ACRIS) and mailed out the NYSDEC and NYSDOH letters to each address in the target area.
- Owners that contacted the NYSDEC in response to the letters were subsequently contacted by AECOM representatives.
- AECOM representatives canvassed the outreach area by going door-to-door to identify potential participants for the SVI sampling program. Tenants were requested to provide AECOM with the owner contact information. Sampling was only performed with the owner's approval.
- AECOM scheduled appointments for indoor air sampling with the participating owner or tenants.
- AECOM conducted interviews with owners/tenants and completed NYSDOH's *Structure Sampling Questionnaire and Building Inventory* forms.
- Sampling was conducted following the procedures described in *Guidance for Evaluating Soil Vapor Intrusion in the State of New York, Final*, [NYSDOH, October 2006 (updated May 2017)]. Each unit consisted of a minimum of an indoor air sample from the lowest level and a subslab soil vapor sample.
- Subslab soil vapor samples were not collected at locations where a subslab depressurization system (SSD) was installed or a soil vapor extraction (SVE) system was in place.
- A minimum of one outdoor air sample was collected per sampling day.
- All indoor air, outdoor air, and subslab soil vapor samples were analyzed for VOCs following United States Environmental Protection Agency (USEPA) *Compendium Method TO-15, Determination of VOCs in Air Collected in Specially Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)* (USEPA, January 1999). All VOCs were reported in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). Trichloroethene, cis-1,2-dichloroethene, 1,1-dichloroethene, carbon tetrachloride and vinyl chloride in all indoor and outdoor air samples were analyzed to a minimum detection limit of $0.20 \mu\text{g}/\text{m}^3$.

- AECOM conducted an inventory of chemicals present in each building and evaluated their potential to affect air sample results using a RAE Systems ppbRAE 3000 part-per-billion (ppb) range photoionization detector (PID).
- Field duplicates of indoor air and sub-slab soil vapor samples were collected at a rate of 5 percent.

2.1 Structure Sampling Questionnaire and Building Inventory

AECOM interviewed an owner, resident or manager of each building and completed a *Structure Sampling Questionnaire and Building Inventory* form. As part of the interview process AECOM personnel also conducted and completed an inventory of chemicals found in each unit. A ppb PID was used to screen the indoor air and identify potential sources of VOCs from chemicals prior to collecting the air samples. PID readings were obtained for each individual container by placing the PID as close to the cap or nozzle as possible without touching or opening the container. The PID was also used to survey potential entry points such as cracks in the concrete slab.

2.1.1 Indoor Air and Outdoor Air Sampling

AECOM selected the indoor air sampling locations in consultation with the owner/tenant. Where possible, the indoor air locations were placed in a central area of the room in the breathing zone (approximately three feet above the floor). An outdoor air sample (a minimum of one per day) was set up upwind of the sampling location(s), when possible. Outdoor air associations are provided in Table 1.

The indoor air and outdoor air samples were collected using batch certified clean laboratory evacuated 6-liter Summa® or 1.4-liter Silonite™ ceramic coated canisters. Twenty-four-hour laboratory-calibrated flow regulators were used for residential locations. Eight-hour laboratory-calibrated flow regulators were used for commercial/manufacturing locations. The regulators for 6-liter cannisters were calibrated at the flow rate of approximately 0.004 liters per minute (L/min) for residential locations and 0.01 L/min for commercial locations. Regulators for 1.4-liter canisters were calibrated at the flow rate of approximately 9.7×10^{-5} liters per minute (L/min) for 24-hour samples and 0.0029 L/min for 8-hour samples. Upon opening the canister valve, the initial vacuum pressure was read from the built-in gauge on the flow controller and recorded onto a summa canister field log. After the eight or 24-hour sampling period, the canister vacuum was recorded on the Summa Canister Sampling Log and the valve was then closed.

2.1.2 Subslab Soil Vapor Sampling

AECOM selected the subslab soil vapor sampling locations in consultation with the owner/tenant. The locations were selected in areas without subsurface utilities, based on the owner/tenant knowledge and visual observations. At the subslab sample locations, an electric hammer drill was used to advance a 3/8-inch diameter hole through the concrete slab. The concrete slab was determined to be penetrated when no resistance was encountered. The drill bit was then advanced several more inches into the underlying material. Upon removing the drill bit, the hole was immediately blocked, and the spoils were examined for wetness. All debris was removed using a hand brush to prevent it from re-entering the hole after unblocking. The subslab samples were collected using approximately 3 feet of a 1/8-inch inside diameter by 1/4-inch outside diameter Teflon tubing which was inserted through the hole in the slab. The tubing was sealed to the floor with modeling clay.

A helium tracer gas was utilized during the sampling of each subslab soil vapor location. The tracer gas was used to evaluate whether indoor (ambient) air was short circuiting into the sample collection tubing. To perform the test, a one-quart plastic enclosure was placed over the sealed subslab sample location. The sample tubing was run through a hole in the enclosure and a silicone gasket was used to seal the interface between the tubing and the enclosure. The enclosure was then sealed at the ground surface with a foam gasket. A tank containing ultra-high purity helium [99.999 percent (%)] was connected to the side port of the enclosure and enough helium was released to displace any ambient air and to maintain a positive pressure within the enclosure. Following the application of the tracer gas, one liter of soil vapor was purged using a Gillian GilAir-3 air sample pump at a rate of approximately 0.02 L/min and collected into a 1-liter Tedlar bag.

The contents of the Tedlar bag were measured for helium using a Radio detection/Dielectric MGD-2002 Multi-gas Detector and for VOCs with a PID. If the helium concentration was less than 10%, the enclosure was removed, and the tubing was connected to the Summa[®] canister via the flow controller and sampling commenced. If the concentration of helium exceeded 10%, the clay seal between the sample tubing and the concrete slab was redone and the seal was retested. After the subslab sample locations passed the helium test, the sample collection was initiated. The purged soil vapor remaining in the Tedlar bag was subsequently discharged outdoors.

The subslab samples were collected over the same duration as the indoor air samples (i.e., 24-hour for residential locations, 8-hour for commercial and manufacturing locations) using batch certified canisters equipped with flow controller valves pre-calibrated at the laboratory. Upon opening the canister valve, the initial vacuum pressure was read from the built-in gauge on the flow controller and recorded onto the

Summa Canister Sampling Log. After the eight or 24-hour sampling period, the canister vacuum was recorded, and the valve was then closed. The tubing was removed and the subslab sample point was then filled to grade with hydraulic cement.

2.2 Sample Analysis

The air samples were shipped via Federal Express by AECOM under chain-of-custody (COC) to the NYSDEC call-out laboratory Con-Test (Pace Analytical), located in East Longmeadow, MA or the AECOM subcontracted NYSDEC contract standby laboratory, Merit Laboratories, Inc., located in East Lansing, MI. All the samples were analyzed for the VOCs as listed in Table 2. Pace Analytical and Merit Laboratories are NYSDOH Environmental Laboratory Approval Program (ELAP) certified laboratories for the analysis of VOCs by USEPA Method TO-15.

3.0 RESULTS OF THE INVESTIGATION

3.1 Data Validation and Data Usability Summary Report

The data package submitted by the laboratory was equivalent to the NYSDEC's Analytical Services Protocol (ASP) Category B Deliverable requirements. A Data Usability Summary Report (DUSR) was prepared by Validata Chemical Services, Inc. (Duluth, GA) following the guidelines provided in Department of Environmental Remediation *DER-10 Technical Guidance for Site Investigation and Remediation, Appendix 2B, Guidance for Data Deliverables and the Development of Data Usability Summary Reports* (May 2010). The complete validated analytical results and Form 1s are provided in the DUSRs (Appendix A).

3.2 Soil Vapor Intrusion Investigation Sampling Results

A summary of detected VOCs in the 2021/2022 Heating Season SVI samples, collected from 64 locations is presented in Table 3. Typically one subslab soil vapor sample and one indoor air sample was collected from each location. At commercial or manufacturing locations greater than approximately 7,500 square feet, one indoor air and one subslab soil vapor sample was collected per 5,000 square feet of interior space.

Not all of the compounds summarized below are addressed by the current NYSDOH guidance action matrices or indoor air guidelines (NYSDOH, 2006, updated in 2017). A copy of the NYSDOH Soil Vapor/Indoor Air Decision Matrices is provided in Appendix B. NYSDOH Air Guidelines are provided in Appendix C.

Per the NYSDOH, the decision matrix is used to evaluate the following compounds:

- Matrix A – trichloroethene (TCE), carbon tetrachloride, 1,1-dichloroethene (1,1-DCE) and cis-1,2-dichloroethene (cis-1,2-DCE);
- Matrix B – 1,1,1-trichloroethane (1,1,1-TCA), tetrachloroethene (PCE) and methylene chloride (MeCl);
- Matrix C – vinyl chloride (VC).

The NYSDOH Air Guidelines for VOCs in indoor air include only TCE, PCE and MeCl.

TCE was detected in indoor air at 26 of the 64 buildings sampled. Concentrations ranged from an estimated 0.079 $\mu\text{g}/\text{m}^3$ (H-114-22-IA) to 1.6 $\mu\text{g}/\text{m}^3$ (H-149-22-IAA). TCE was detected in 27 of the 61 buildings where subslab soil vapor samples were collected, at concentrations ranging from 0.13 $\mu\text{g}/\text{m}^3$ (H-123-22-SS) to 66,600 $\mu\text{g}/\text{m}^3$ (H-147-22-SSB). TCE was detected in seven of 38 outdoor air samples

ranging from 0.11 µg/m³ (H-120-22-OA) to 0.94 µg/m³ (H-123-22-OA). None of the indoor air sample locations exceeded the NYSDOH Ambient Air Guidelines of 2 µg/m³.

Carbon tetrachloride was detected in indoor air at 62 of the 64 buildings sampled, at concentrations ranging from 0.18 µg/m³ (H-27-09-22-IA) to 1.1 µg/m³ (H-128-22-IAB), and in 46 of the 61 subslab soil vapor sample locations, at concentrations ranging from 0.24 µg/m³ (H-118-22-SS) to 3.1 µg/m³ (H-149-22-SSA). Carbon tetrachloride was detected all 38 outdoor air sample locations, at concentrations of 0.17 µg/m³ (H-11-22-OA) to 0.61 µg/m³ (H-104-22-OA).

Cis-1,2-DCE was detected in indoor air at two of the 64 buildings, at concentrations of 0.16 µg/m³ (H-147-22-IAA) and 0.20 µg/m³ (H-149-22-IAB), and in 6 of the 61 subslab soil vapor sample locations, at concentrations ranging from 0.20 µg/m³ (H-148-22-SS) to 27,000 µg/m³ (H-147-22-SSA). Cis-1,2-DCE was detected one outdoor air sample location at a concentration of 0.28 µg/m³ (H-147-22-OA).

1,1-DCE was detected in indoor air at two of the 64 buildings sampled, both with concentrations of 0.12 µg/m³ (H-146-22-IA and H-153-22-BA), and in two of the 61 buildings where subslab soil vapor sample were collected, at concentrations ranging from 0.22 µg/m³ (H-10-22-SS) to 1.2 µg/m³ (H-147-22-SSB). 1,1-DCE was detected in one outdoor air sample location at a concentrations of 0.12 µg/m³ (H-130-22-OA).

1,1,1-TCA was detected in indoor air at eight of the 64 buildings, at concentrations ranging from 0.11 µg/m³ (H-42-09-22-IA, H-44-09-22-IA and H-155-22-IA) to 1.1 µg/m³ (H-139-22-IA), and in 24 of the 61 subslab soil vapor sample locations, at concentrations ranging from 0.11 µg/m³ (H-30-09-22-SS) to 1,100 µg/m³ (H-149-22-SSA). 1,1,1-TCA was detected in one outdoor air sample location at a concentrations of 0.11 µg/m³ (H-118-22-OA).

PCE was detected in indoor air at 61 of 64 building locations sampled, at concentrations ranging from 0.12 µg/m³ (H-57-22-IA) to 543 µg/m³ (H-140-22-IAC). PCE was detected in subslab soil vapor at 60 of 61 building sampled, at concentrations ranging from 0.27 µg/m³ (H-138-22-SS) to 204,000 µg/m³ (H-147-22-SSB). PCE was detected in 35 of 38 outdoor air sample locations, at concentrations of 0.10 µg/m³ (H-40-09-22-OA) to 6.1 µg/m³ (H-147-22-OA). Indoor air PCE detections above the NYSDOH Ambient Air Guideline of 30 µg/m³ were at H-140-22-IAC (543 µg/m³), H-149-22-IAA (129 µg/m³) and H-149-22-IAB (43 µg/m³). H-140-22-IAC also exceed the Immediate Action Level of 300 µg/m³.

MeCl was detected in indoor air at 63 of 64 building locations sampled, at concentrations ranging from 0.66 µg/m³ (H-134-22-IA, H-140-22-IAC, and H-153-22-BA) to 27 µg/m³ (H-42-09-22-IA). MeCl

was detected in subslab soil vapor at 40 of 61 building locations sampled ranging from 0.52 $\mu\text{g}/\text{m}^3$ (H-151-22-SSC) to 2.3 $\mu\text{g}/\text{m}^3$ (H-44-09-22-SS). MeCl was detected in 37 of 38 outdoor air sample locations, at concentrations ranging from 0.59 $\mu\text{g}/\text{m}^3$ (H-132-22-OA) to 3.6 $\mu\text{g}/\text{m}^3$ (H-118-22-OA). The MeCl concentrations did not exceed the NYSDOH Ambient Air Guideline of 60 $\mu\text{g}/\text{m}^3$.

VC was not detected in indoor air or outdoor air at the 64 building locations and the 38 outdoor locations sampled. VC was detected in subslab soil vapor at 46 of 61 building locations sampled, ranging from 0.486 $\mu\text{g}/\text{m}^3$ (H-147-22-SSA) to 263 $\mu\text{g}/\text{m}^3$ (H-149-22-SSB).

Other compounds detected in subslab soil vapor and indoor air at elevated concentrations (e.g., subslab greater than 100 $\mu\text{g}/\text{m}^3$ and indoor air greater than 10 $\mu\text{g}/\text{m}^3$) include 2,2,4-trimethylpentane, acetone, benzene, cyclohexane, ethanol, isopropyl alcohol, 2-butanone, n-heptane, n-hexane, styrene, tetrahydrofuran, toluene, and xylenes.

The analytical results were compared against the product inventories. Products most commonly encountered were household cleaning agents, paints, and insecticides. No products were removed prior to sampling with the exception of a product containing PCE that had an elevated PID screening level at location H-140, as documented on the building inventory form.

Using NYSDOH decision Matrix A, B, and C, and the compounds listed by the NYSDOH, the recommended actions for the locations sampled are as follows:

3.2.1 Matrix A Evaluation

- The soil vapor TCE concentrations of 196 $\mu\text{g}/\text{m}^3$ (H-135-22-IA), 66,600 $\mu\text{g}/\text{m}^3$ and 57,500 $\mu\text{g}/\text{m}^3$ (H-147-22-SSB and H-147-22-SSA, respectively); 8,010 $\mu\text{g}/\text{m}^3$ and 61.3 $\mu\text{g}/\text{m}^3$ (H-149-22-SSA and H-149-22-SSB, respectively); cis-1,2-DCE concentrations of 27,000 $\mu\text{g}/\text{m}^3$ and 14,900 (H-147-22-SSA and H-147-22-SSB, respectively) and 182 $\mu\text{g}/\text{m}^3$ (H-149-22-SSB), resulted in “Mitigate” recommendations at H-135-22, H-147-22 and H-149-22. This is regardless of the TCE and cis-1,2-DCE indoor air concentrations at these locations.
- The indoor TCE concentration of 0.32 $\mu\text{g}/\text{m}^3$ (H-44-09-22-IA) and 0.699 $\mu\text{g}/\text{m}^3$ (H-155-22-SS) in conjunction with a subslab TCE concentration of 22 $\mu\text{g}/\text{m}^3$ (H-44-09-22-SS) and 37 $\mu\text{g}/\text{m}^3$ (H-155-22-SS) resulted in “Monitor” recommendations at H-44-09 and H-152-22.
- The indoor TCE concentration of 1 $\mu\text{g}/\text{m}^3$ (H-123-22-IA) in conjunction with a subslab TCE concentration of 0.13 $\mu\text{g}/\text{m}^3$ (H-123-22-SS) resulted in a “Identify Source(s) and Resample or Mitigate” recommendation at H-123-22. Given that the associated outdoor air concentration

of TCE was $0.94 \mu\text{g}/\text{m}^3$, the indoor air result may be representative of ambient air and a no further action recommendation was provided to this property.

- The indoor carbon tetrachloride concentration of $1.1 \mu\text{g}/\text{m}^3$ (H-128-22-IAB) in conjunction with a subslab carbon tetrachloride concentration of $0.78 \mu\text{g}/\text{m}^3$ (H-128-22-SSB) resulted in a “Identify Source(s) and Resample or Mitigate” recommendation at H-128-22.
- None of the remaining locations sampled had detected concentrations for the following Matrix A compounds (i.e., TCE, cis-1,2-DCE, 1,1-DCE, and carbon tetrachloride) that would result in a “Mitigate”, “Identify Source(s) and Resample or Mitigate”, or “Monitor” recommendation.

3.2.2 Matrix B Evaluation

- The soil vapor PCE concentrations of $645 \mu\text{g}/\text{m}^3$ (H-140-22-SSC) and indoor air concentration of $543 \mu\text{g}/\text{m}^3$ (H-140-22-IAC) resulted in a “Mitigate” recommendation in the North Building at H-140-22. At the South Building, the MeCl concentrations in the soil vapor ($1.7 \mu\text{g}/\text{m}^3$, H-140-22-SAA) and indoor air ($14 \mu\text{g}/\text{m}^3$, H-140-22-IAA) warrant an “Identify Source(s) and Resample or Mitigate” recommendation. Based on review of the results and building inventory form which indicates the use and storage of chlorinated solvents at this property, and in consultation with NYSDEC, recommendations were provided to the owner that actions should be taken to reduce indoor air exposure through adequate ventilation and that NYSDEC be notified if there is a future change in use of the property.
- The soil vapor PCE concentrations of $136,000 \mu\text{g}/\text{m}^3$ and $204,000 \mu\text{g}/\text{m}^3$ (H-147-22-SSA and H-147-22-SSB, respectively), and $6,600 \mu\text{g}/\text{m}^3$ (H-149-22-SSA) and the 1,1,1-TCA concentration of $1,100 \mu\text{g}/\text{m}^3$ (H-149-22-SSA) resulted in a “Mitigate” recommendation at H-147-22 and H-149-22. This is regardless of the PCE and/or 1,1,1-TCA indoor air concentrations at these locations. The indoor air PCE concentrations of $43 \mu\text{g}/\text{m}^3$ (H-149-22-IAB) and soil vapor concentration of $32 \mu\text{g}/\text{m}^3$ (H-149-22-SSB) resulted in a “Identify Source(s) and Resample or Mitigate” recommendation at the IAB/SSB section of H-149-22.
- Although the 1,1,1-TCA soil vapor concentration for H-128-22-SSA ($990 \mu\text{g}/\text{m}^3$) was below the $1,000 \mu\text{g}/\text{m}^3$ threshold and 1,1,1-TCA was not detected (less than $0.15 \mu\text{g}/\text{m}^3$) in the indoor air, the NYSDEC and NYSDOH recommend a “Monitoring” designation instead of a “No Further Action” designation for H-128-22.
- The indoor air MeCl concentrations of $27 \mu\text{g}/\text{m}^3$ (H-42-09-22-IA) and soil vapor concentration of $0.8 \mu\text{g}/\text{m}^3$ (H-42-09-22-SS) resulted in a “Identify Source(s) and Resample or Mitigate”

recommendation at H-42-09-22. Based on review of the results and building inventory form, the indoor air detection may be attributable to indoor sources and a no further action recommendation was provided to this property.

- None of the remaining locations sampled had detected concentrations for the following Matrix B compounds (i.e., PCE, 1,1,1-TCA and MeCl) that resulted in a “Mitigate”, “Identify Source(s) and Resample or Mitigate”, or “Monitor” recommendation.

3.2.3 Matrix C Evaluation

- The soil vapor VC concentration of 263 $\mu\text{g}/\text{m}^3$ (H-149-22-SSB) resulted in a “Mitigate” recommendation at H-149-22. This is regardless of the VC indoor air concentration at this location.
- The soil vapor VC concentrations of 7.4 $\mu\text{g}/\text{m}^3$ (H-136-22-SS), 10 $\mu\text{g}/\text{m}^3$ (H-138-22-SS) 15 $\mu\text{g}/\text{m}^3$ (H-148-22-SS), 7.7 $\mu\text{g}/\text{m}^3$ (H-150-22-SS) and 23 $\mu\text{g}/\text{m}^3$ (H-153-22-SS) and non-detect result (i.e., less than 0.2 $\mu\text{g}/\text{m}^3$) in the indoor air resulted in a “Monitor” recommendation at H-136-22, H-138-22, H-148-22, H-150-22, and H-153-22.
- None of the remaining locations sampled had detected concentrations for the Matrix C compound (VC) detected at concentrations that resulted in a “Mitigate”, “Identify Source(s) and Resample or Mitigate”, or “Monitor” recommendation.

In summary, the following recommended actions were determined following the NYSDOH decision matrices:

- “Mitigate” recommendation at the North Building of H-135-22, H-140-22, H-147-22, and H-149-22. It should be noted that H-149-22 has been identified as a potential source of chlorinated VOC contamination. H-147-22 is adjacent to a source of chlorinated VOCs. Chlorinated solvents are used and stored at H-140-22 therefore recommendations were provided to the owner that actions should be taken to reduce indoor air exposure through adequate ventilation.
- “Monitor” at H-44-09-22, H-128-22, H-136-22, H-138-22, H-148-22, H-150-22, H-153-22, and H-155-22.
- “Identify Source(s) and Resample or Mitigate” at H-123-22, H-42-09-22, and the South Building of H-140-22. The indoor air result at H-123-22 may be representative of ambient air and a no further action recommendation was provided to this property. The indoor air at H-42-09-22 may be attributable to indoor sources and a no further action recommendation was

provided to this property. Chlorinated solvents are used and stored at H-140-22 therefore recommendations were provided to the owner that actions should be taken to reduce indoor air exposure through adequate ventilation.

- “No further action” at the remaining locations.

Sub-slab soil vapor samples were not collected at H-129-22 because a SVE system is in operation; an evaluation using the NYSDOH decision matrix is not applicable. Detected concentrations of PCE and methylene chloride in indoor air were below the NYSDOH Air Guidelines at H-129-22. TCE was not detected in the indoor air.

A SSDS has been installed and is in operation at H-104-22 and H-107-22. Therefore, sub-slab soil vapor samples were not collected at these locations. An evaluation using the NYSDOH decision matrix is not applicable. Detected concentrations of TCE, PCE and methylene chloride in indoor air were below the NYSDOH Air Guidelines at H-104-22 and H-107-22.

4.0 FUTURE ACTIVITIES

The NYSDEC and NYSDOH have evaluated the results and provided recommendations to property owners as of September 22, 2022.

5.0 REFERENCES

- New York State Department of Health (NYSDOH). 2006. *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*. Final. October. Revised May 2017.
- NYSDOH. 2013. New Ambient Air Guideline and Revised Fact Sheet for Tetrachloroethene. Interoffice Memorandum. September 13.
- NYSDOH. 2015. New Ambient Air Guideline and Revised Fact Sheet for Trichloroethene. Interoffice Memorandum. August.
- New York State Department of Environmental Conservation. 2010. *Guidance for Data Deliverables and the Development of Data Usability Summary Reports*. DER-10 Technical Guidance for Site Investigation and Remediation, Appendix 2B. Division of Environmental Remediation. May.
- United States Environmental Protection Agency (USEPA). 1999. *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air*. January.

TABLES

TABLE 1
OUTDOOR AIR ASSOCIATIONS
MEEKER AVENUE PLUME TRACKDOWN

Sample Location ID	Associated Outdoor Air Sample	Sample date	Sample duration	Property Type
H-35-09	H-115-22-OA	1/19-20/2022	24-hour	Residential
H-114				
H-115				
H-116				
H-117	H-117-22-OA	1/19-20/2022	24-hour	Residential
H-10	H-11-22-OA	1/25-26/2022	24 hour	Residential
H-11				
H-40-09	H-40-09-22-OA	1/25-26/2022	24 hour	Residential
H-57				
H-118	H-118-22-OA	1/26-27/2022	24-hour	Residential
H-119	H-120-22-OA	1/27/2022	8-hour	Manufacturing
H-120				
H-104	H-104-22-OA	2/1/2022	8-hour	Commercial/Warehouse
H-121	H-121-22-OA	2/1-2/2022	24-hour	Residential
H-122				
H-123	H-123-22-OA	2/1-2/2022	24-hour	Residential
H-04-09	H-04-09-22-OA	2/3-4/2022	24-hour	Residential
H-124	H-124-22-OA	2/3-4/2022	24-hour	Residential
H-125				
H-126	H-126-22-OA	2/5-6/2022	24-hour	Residential
H-21-09	H-127-22-OA	2/5-6/2022	24-hour	Residential
H-07				
H-127				
H-128	H-128-22-OA	2/7/2022	8-hour	Commercial
H-02-09	H-27-09-22-OA	2/7-8/2022	24-hour	Residential
H-16-09				
H-27-09				
H-44-09	H-44-09-22-OA	2/16-17/2022	24-hour	Residential
H-129	H-129-22-OA	2/17/2022	8-hour	Warehouse
H-130	H-130-22-OA	2/22/2022	8-hour	Warehouse/ Manufacturing
H-131	H-132-22-OA	2/22-23/2022	24-hour	Residential
H-132				
H-133				
H-134				

TABLE 1
OUTDOOR AIR ASSOCIATIONS
MEEKER AVENUE PLUME TRACKDOWN

Sample Location ID	Associated Outdoor Air Sample	Sample date	Sample duration	Property Type
H-75	H-75-22-OA	2/24-25/2022	24-hour	Residential
H-135				
H-136				
H-137				
H-138				
H-139				
H-140	H-140-22-OA	2/26/2022	8-hour	Commercial
H-141	H-141-22-OA*	2/26-27/2022	24-hour	Residential
H-142	H-142-22-OA*	2/26-27/2022	24-hour	Residential
H-143				
H-73	H-73-22-OA	2/28-3/1/2022	24-hour	Residential
H-144	H-144-22-OA	2/28-3/1/2022	24-hour	Residential
H-56	H-145-22-OA	2/28-3/1/2022	24-hour	Residential
H-145				
H-146				
H-42-09	H-42-09-22-OA	3/2-3/2022	24-hour	Residential
H-147	H-147-22-OA	3/8/2022	8-hour	Commercial
H-30-09	H-30-09-22-OA	3/8-9/2022	24-hour	Residential
H-148	H-148-22-OA	3/8-9/2022	24-hour	Residential
H-149	H-149-22-OA	3/9/2022	8-hour	Commercial/ Industrial
H-78	H-78-22-OA	3/10-11/2022	24-hour	Residential
H-150	H-150-22-OA	3/10-11/2022	24-hour	Residential
H-152				
H-151	H-151-22-OA	3/10/2022	8-hour	Warehouse
H-107	H-107-22-OA	3/11/2022	8-hour	Commercial
H-153	H-153-22-OA	3/11/2022	8-hour	Warehouse
H-154	H-154-22-OA	3/23-24/2022	24-hour	Residential
H-155	H-155-22-OA	3/31/2022	8-hour	Commercial
H-156	H-156-22-OA	3/31-4/1/2022	24-hour	Residential
H-157	H-157-22-OA	3/31-4/1/2022	24-hour	Residential

* Outdoor air sample not analyzed due to equipment failure, insufficient volume.

TABLE 2
SUMMARY OF PARAMETERS ANALYZED IN SUB-SLAB SOIL VAPOR, INDOOR AIR,
AND OUTDOOR AIR BY USEPA METHOD TO-15
MEEKER AVENUE PLUME TRACKDOWN

Compound	Detection Limit			Compound	Detection Limit		
	(1)	(2)	(3)		(1)	(2)	(3)
1,1,1-Trichloroethane	0.088	0.15	0.093	Bromoform	0.13	0.25	0.24
1,1,2,2-Tetrachloroethane	0.073	0.13	0.096	Bromomethane	0.11	0.11	0.13
1,1,2-Trichloro-1,2,2-trifluoroethane	0.095	0.3	0.18	Carbon Disulfide	0.28	0.1	0.12
1,1,2-Trichloroethane	0.076	0.13	0.082	Carbon tetrachloride	0.066	0.17	0.13
1,1-Dichloroethane*	0.047	0.12	0.1	Chlorobenzene	0.048	0.11	0.078
1,1-Dichloroethene*	0.054	0.11	0.095	Chloroethane*	0.067	0.067	0.12
1,2,4-Trichlorobenzene	0.18	0.18	0.45	Chloroform	0.041	0.16	0.098
1,2,4-Trimethylbenzene	0.051	0.076	0.14	Chloromethane	0.03	0.057	0.083
1,2-Dibromoethane (Ethylene dibromide)	0.075	0.16	0.077	Cyclohexane	0.079	0.079	0.083
1,2-Dichlorobenzene	0.078	0.12	0.14	Dibromochloromethane	0.1	0.2	0.14
1,2-Dichloroethane*	0.052	0.13	0.11	Dichlorodifluoromethane	0.053	0.17	0.13
1,2-Dichloroethene (cis)*	0.047	0.1	0.091	Ethanol	0.8	1.2	0.13
1,2-Dichloroethene (trans)*	0.048	0.11	0.083	Ethyl Acetate	0.75	0.64	0.18
1,2-Dichloropropane	0.058	0.087	0.092	Ethylbenzene	0.039	0.088	0.087
1,2-Dichlorotetrafluoroethane	0.084	0.24	0.2	Hexachlorobutadiene	0.21	0.31	0.31
1,3,5-Trimethylbenzene (Mesitylene)	0.047	0.091	0.12	Isopropyl alcohol	0.79	0.59	0.19
1,3-Butadiene	0.054	0.065	0.064	Methyl ethyl ketone (2-Butanone)	0.34	1.1	0.14
1,3-Dichlorobenzene	0.051	0.12	0.12	Methyl methacrylate	--	--	0.07
1,3-Dichloropropene (cis)	0.073	0.082	0.091	Methyl tert-butyl ether	0.05	0.097	0.036
1,3-Dichloropropene (trans)	0.049	0.081	0.059	Methylene chloride	0.28	0.56	0.49
1,4-Dichlorobenzene	0.085	0.14	0.18	Naphthalene	0.12	0.12	0.26
1,4-Dioxane	0.085	0.1	0.14	n-Heptane	0.059	0.91	0.061
1-Propene	0.2	0.53	0.065	n-Hexane	0.4	0.64	0.067
2,2,4-Trimethylpentane	--	--	0.065	Styrene	0.047	0.078	0.064
2-Chlorotoluene	--	--	0.12	t-Butyl alcohol	--	--	0.12
2-Hexanone	0.072	0.072	0.086	Tetrachloroethene*	0.07	0.18	0.16
4-Ethyltoluene	0.053	0.11	0.16	Tetrahydrofuran	0.25	0.17	0.086
4-Methyl-2-pentanone	0.073	0.073	0.07	Toluene	0.055	0.075	0.049
Acetone	2	2	0.14	Trichloroethene*	0.069	0.13	0.12
Allyl chloride	--	--	0.075	Trichlorofluoromethane	0.078	0.23	0.096
Benzene	0.027	0.084	0.061	Vinyl Acetate	0.23	0.66	0.053
Benzyl chloride	0.081	0.16	0.15	Vinyl chloride*	0.035	0.08	0.074
Bromodichloromethane	0.085	0.16	0.15	m&p-Xylene	0.084	0.17	0.16
Bromoethene (Vinyl Bromide)	--	--	0.15	o-Xylene	0.041	0.078	0.087

All units in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)

USEPA Method TO-15, VOCs in Air Collected in SUMMA[®] Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS): USEPA Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, January 1999.

* -Tetrachloroethene, trichloroethene and their breakdown products.

(1) Pace Analytical sample designation groups (SDGs) 22A1209, 22A1521, and 22A1637

(2) Pace Analytical SDGs 22B0272, 22B0438, 22B0443, 22B0445, 22B0504, and 22B1135

(3) Merit Laboratories SDGs S33024, S33208, S33323, S33322, S33371, S33533, S33701, S33822, S34308, and S34513.

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-02-09-22-IA	H-02-09-22-SS	H-04-09-22-IA	H-04-09-22-OA	H-04-09-22-SS
Sample ID		224121-IA-02-09	224121-SS-02-09	224121-IA-04-09	224121-OA-04-09	224121-SS-04-09
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/07/22	02/07/22	02/03/22	02/03/22	02/03/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.15 U	0.86 U	0.17 U	0.15 U	0.43 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.45 J	1.7 U	0.53 J	0.56 J	0.85 U
1,1-Dichloroethane	UG/M3	0.12 U	5.9	0.14 U	0.12 U	0.82
1,1-Dichloroethene	UG/M3	0.11 U	0.6 U	0.12 U	0.11 U	0.3 U
1,2,4-Trichlorobenzene	UG/M3	0.18 UJ	1 UJ	0.21 UJ	0.18 UJ	0.52 UJ
1,2,4-Trimethylbenzene	UG/M3	1.3	13	0.82	0.57	0.22 U
1,2-Dichlorobenzene	UG/M3	0.12 U	0.69 U	0.14 U	0.12 U	0.35 U
1,2-Dichloroethane	UG/M3	0.13 U	4.7	0.15 U	0.13 U	0.97
1,2-Dichloroethene (cis)	UG/M3	0.1 U	0.58 U	0.12 U	0.1 U	0.29 U
1,2-Dichloroethene (trans)	UG/M3	0.11 U	0.62 U	0.12 U	0.11 U	0.31 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.24 U	1.4 U	0.28 U	0.24 U	0.69 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.41	6.2	0.24	0.18	0.26 U
1,3-Butadiene	UG/M3	0.065 U	0.37 U	0.074 U	0.065 U	0.19 U
1,4-Dichlorobenzene	UG/M3	0.14 U	0.79 U	4.5	0.41	0.39 U
1,4-Dioxane	UG/M3	0.1 U	0.6 U	0.12 U	0.1 U	0.3 U
1-Propene	UG/M3	0.53 U	3 U	0.61 U	0.53 U	1.5 U
2,2,4-Trimethylpentane	UG/M3	NA	NA	NA	NA	NA
2-Hexanone	UG/M3	0.072 U	0.41 U	0.082 UJ	0.072 UJ	0.21 UJ
4-Ethyltoluene	UG/M3	0.35	0.69 J	0.23	0.17 J	0.3 U
4-Methyl-2-pentanone	UG/M3	0.40	0.42 U	0.084 U	0.073 U	0.21 U
Acetone	UG/M3	17	78	19	16	11
Benzene	UG/M3	1.4	0.48 U	1.9	1.8	0.47
Bromoethene (Vinyl Bromide)	UG/M3	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-02-09-22-IA	H-02-09-22-SS	H-04-09-22-IA	H-04-09-22-OA	H-04-09-22-SS
Sample ID		224121-IA-02-09	224121-SS-02-09	224121-IA-04-09	224121-OA-04-09	224121-SS-04-09
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/07/22	02/07/22	02/03/22	02/03/22	02/03/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.16 U	0.94 U	0.19 U	0.16 U	0.47 U
Bromoform	UG/M3	0.25 U	1.4 U	0.28 U	0.25 U	0.7 U
Bromomethane	UG/M3	0.11 U	0.63 U	0.13 U	0.11 U	0.32 U
Carbon disulfide	UG/M3	0.1 U	0.58 U	0.12 U	0.1 U	0.29 U
Carbon tetrachloride	UG/M3	0.39	1 U	0.53	0.54	0.5 U
Chlorobenzene	UG/M3	0.11 U	0.61 U	0.12 U	0.11 U	0.31 U
Chloroethane	UG/M3	0.067 U	84	0.077 U	0.067 U	3.2
Chloroform	UG/M3	0.26	2.6	0.28	0.16 U	0.57
Chloromethane	UG/M3	1.0	1.1	1.2	1.2	0.16 U
Cyclohexane	UG/M3	0.51	0.46 U	0.091 U	0.079 U	0.23 U
Dichlorodifluoromethane	UG/M3	2.1	1.9	2.3	2.4	2.5
Ethanol	UG/M3	29	70	61	29	20
Ethyl acetate	UG/M3	0.79 J	14 J	1.0 J	0.83 J	1.8 UJ
Ethylbenzene	UG/M3	0.81	0.51 U	3.0	0.50	0.25 U
Isopropyl alcohol	UG/M3	3.9 J	18 J	4.7	3.5	1.7 U
Methyl ethyl ketone (2-Butanone)	UG/M3	1.8 J	28	1.7 J	1.6 J	3.1 U
Methyl methacrylate	UG/M3	NA	NA	NA	NA	NA
Methyl tert-butyl ether	UG/M3	0.097 U	0.56 U	0.11 U	0.097 U	0.28 U
Methylene chloride	UG/M3	1.2 J	3.2 U	1.3 J	1.3	1.6 U
Naphthalene	UG/M3	0.15 J	0.66 U	0.37	0.18 J	0.33 U
n-Heptane	UG/M3	0.81	4.1	1.7	0.76	0.48
n-Hexane	UG/M3	1.4 J	4.2 J	4.1 J	0.97 J	1.8 U
Styrene	UG/M3	0.52	0.45 U	0.25	0.18	0.22 U

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-02-09-22-IA	H-02-09-22-SS	H-04-09-22-IA	H-04-09-22-OA	H-04-09-22-SS
Sample ID		224121-IA-02-09	224121-SS-02-09	224121-IA-04-09	224121-OA-04-09	224121-SS-04-09
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/07/22	02/07/22	02/03/22	02/03/22	02/03/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	NA	NA	NA	NA	NA
Tetrachloroethene	UG/M3	1.0	1.1 J	0.68	0.70	1.0
Tetrahydrofuran	UG/M3	0.86 J	2.8 J	0.19 U	0.17 U	0.48 U
Toluene	UG/M3	3.5	2.3	5.9	4.2	0.99
Trichloroethene	UG/M3	0.13 U	0.72 U	0.14 U	0.13 U	0.36 U
Trichlorofluoromethane	UG/M3	1.1	1.3 U	1.2	1.2	1.2 J
Vinyl acetate	UG/M3	0.66 UJ	3.8 UJ	0.76 UJ	0.66 UJ	7.4 J
Vinyl chloride	UG/M3	0.08 U	5.4	0.092 U	0.08 U	0.23 U
m&p-Xylene	UG/M3	2.9	0.97 U	11	1.7	0.64 J
o-Xylene	UG/M3	0.97	0.44 U	1.8	0.63	0.22 U
Xylene (total)	UG/M3	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-07-22-IA	H-07-22-SS	H-10-22-IA	H-10-22-SS	H-104-22-IAA
Sample ID		224121-IA-07	224121-SS-07	224121-IA-10	224121-SS-10	224121-IAA-104
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/05/22	02/05/22	01/25/22	01/25/22	02/01/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.15 U	5.4	0.088 U	8.0	0.15 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.47 J	0.85 U	0.41 J	2.1 J	0.52 J
1,1-Dichloroethane	UG/M3	0.12 U	7.0	0.048 U	2.1	0.12 U
1,1-Dichloroethene	UG/M3	0.11 U	0.3 U	0.055 U	0.22 J	0.11 U
1,2,4-Trichlorobenzene	UG/M3	0.18 U	0.52 U	0.18 U	0.52 U	0.18 UJ
1,2,4-Trimethylbenzene	UG/M3	0.81	0.81	0.43	0.15 U	1.4
1,2-Dichlorobenzene	UG/M3	0.12 U	0.35 U	0.078 U	0.22 U	0.12 U
1,2-Dichloroethane	UG/M3	0.18	13	0.052 U	1.6	0.13 U
1,2-Dichloroethene (cis)	UG/M3	0.1 U	0.29 U	0.047 U	0.13 U	0.1 U
1,2-Dichloroethene (trans)	UG/M3	0.11 U	0.31 U	0.049 U	0.14 U	0.11 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.24 U	0.69 U	0.085 U	0.24 U	0.24 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.23	0.26 U	0.11 J	0.13 U	0.51
1,3-Butadiene	UG/M3	0.065 U	0.19 U	0.054 U	0.15 U	0.065 U
1,4-Dichlorobenzene	UG/M3	0.14 U	0.39 U	0.086 U	0.24 U	0.14 U
1,4-Dioxane	UG/M3	0.1 U	0.3 U	0.086 U	0.24 U	0.1 U
1-Propene	UG/M3	0.53 U	1.5 U	0.2 U	0.58 U	0.53 U
2,2,4-Trimethylpentane	UG/M3	NA	NA	NA	NA	NA
2-Hexanone	UG/M3	0.072 U	0.21 U	0.072 U	0.21 U	0.072 UJ
4-Ethyltoluene	UG/M3	0.23	0.3 U	0.13 J	0.15 U	0.33
4-Methyl-2-pentanone	UG/M3	0.074 U	1.2	0.20	0.21 U	0.073 UJ
Acetone	UG/M3	25	230	23	87	2 U
Benzene	UG/M3	0.95	2.0	0.70	0.23 J	1.9 J
Bromoethene (Vinyl Bromide)	UG/M3	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-07-22-IA	H-07-22-SS	H-10-22-IA	H-10-22-SS	H-104-22-IAA
Sample ID		224121-IA-07	224121-SS-07	224121-IA-10	224121-SS-10	224121-IAA-104
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/05/22	02/05/22	01/25/22	01/25/22	02/01/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.16 U	0.47 U	0.086 U	0.24 U	0.16 U
Bromoform	UG/M3	0.25 U	0.7 U	0.13 U	0.37 U	0.25 U
Bromomethane	UG/M3	0.11 U	0.32 U	0.11 U	0.32 U	0.11 U
Carbon disulfide	UG/M3	0.1 U	1.4 J	0.28 U	0.79 U	0.1 U
Carbon tetrachloride	UG/M3	0.45	0.5 U	0.34	0.79	0.49
Chlorobenzene	UG/M3	0.11 U	0.31 U	0.048 U	0.14 U	0.11 U
Chloroethane	UG/M3	0.068 U	26	0.068 U	22	0.067 U
Chloroform	UG/M3	0.19	3.5	0.25	3.4	0.22
Chloromethane	UG/M3	1.0	1.0	0.97	0.28 J	1.2
Cyclohexane	UG/M3	1.3	0.23 U	0.08 U	0.23 U	0.34
Dichlorodifluoromethane	UG/M3	1.0	1.7	0.95	1.8	2.3
Ethanol	UG/M3	300 D	65	480 D	42	430 D
Ethyl acetate	UG/M3	2.1 J	13 J	2.5 J	3.7 J	8.6 J
Ethylbenzene	UG/M3	0.85	0.25 U	0.53	0.11 U	4.5
Isopropyl alcohol	UG/M3	17	44	2.9 J	2.6 J	29
Methyl ethyl ketone (2-Butanone)	UG/M3	1.7 J	42	1.5 J	10 J	1.1 J
Methyl methacrylate	UG/M3	NA	NA	NA	NA	NA
Methyl tert-butyl ether	UG/M3	0.098 U	0.28 U	0.051 U	0.14 U	0.097 U
Methylene chloride	UG/M3	2.6	1.6 U	4.8	1.0 J	1.8
Naphthalene	UG/M3	0.40	0.47 J	0.25 J	0.33 UJ	0.48
n-Heptane	UG/M3	1.1	4.3	1.2	0.99	0.77
n-Hexane	UG/M3	3.5 J	12 J	2.2 J	2.7 J	1.1 J
Styrene	UG/M3	0.29	0.31 J	0.18	0.13 U	6.2

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-07-22-IA	H-07-22-SS	H-10-22-IA	H-10-22-SS	H-104-22-IAA
Sample ID		224121-IA-07	224121-SS-07	224121-IA-10	224121-SS-10	224121-IAA-104
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/05/22	02/05/22	01/25/22	01/25/22	02/01/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	NA	NA	NA	NA	NA
Tetrachloroethene	UG/M3	1.1	12	0.34	590	14
Tetrahydrofuran	UG/M3	0.17 U	0.48 U	0.26 U	0.73 U	0.17 U
Toluene	UG/M3	3.0	3.3	2.6	3.0	4.9
Trichloroethene	UG/M3	0.13 U	0.68	0.07 U	26	0.17 J
Trichlorofluoromethane	UG/M3	1.3	3.1	1.1	1.8 J	1.2
Vinyl acetate	UG/M3	0.66 UJ	240 J	0.23 UJ	0.66 UJ	0.66 UJ
Vinyl chloride	UG/M3	0.081 U	1.2	0.036 U	2.0	0.08 U
m&p-Xylene	UG/M3	2.6	1.3	1.8	0.24 U	9.4
o-Xylene	UG/M3	0.85	0.44	0.58	0.12 U	3.5
Xylene (total)	UG/M3	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-104-22-IAB	H-104-22-OA	H-107-22-IAA	H-107-22-IAB	H-107-22-OA
Sample ID		224121-IAB-104	224121-OA-104	224121-IAA-107	224121-IAB-107	224121-OA-107
Matrix		Indoor Air	Outdoor Air	Indoor Air	Indoor Air	Outdoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/01/22	02/01/22	03/11/22	03/11/22	03/11/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.15 U	0.15 U	0.093 U	0.093 U	0.093 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.52 J	0.47 J	0.38 J	0.38 J	0.38 J
1,1-Dichloroethane	UG/M3	0.12 U	0.12 U	0.10 U	0.10 U	0.10 U
1,1-Dichloroethene	UG/M3	0.11 U	0.11 U	0.095 U	0.095 U	0.095 U
1,2,4-Trichlorobenzene	UG/M3	0.18 UJ	0.18 UJ	0.11 U	0.11 U	0.11 U
1,2,4-Trimethylbenzene	UG/M3	0.97	0.76	0.737 J	0.639 J	0.639 J
1,2-Dichlorobenzene	UG/M3	0.12 U	0.12 U	0.14 U	0.14 U	0.14 U
1,2-Dichloroethane	UG/M3	0.13 U	0.13 U	0.11 U	0.11 U	0.11 U
1,2-Dichloroethene (cis)	UG/M3	0.1 U	0.1 U	0.091 U	0.091 U	0.091 U
1,2-Dichloroethene (trans)	UG/M3	0.11 U	0.11 U	0.083 U	0.083 U	0.083 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.24 U	0.24 U	0.20 U	0.20 U	0.20 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.31	0.25	0.20 J	0.20 J	0.20 J
1,3-Butadiene	UG/M3	0.065 U	0.065 U	0.064 U	0.064 U	0.064 U
1,4-Dichlorobenzene	UG/M3	0.14 U	0.14 U	0.18 J	0.12 J	0.11 U
1,4-Dioxane	UG/M3	0.1 U	0.1 U	0.14 U	0.14 U	0.14 U
1-Propene	UG/M3	0.53 U	0.53 U	0.065 U	0.065 U	0.065 U
2,2,4-Trimethylpentane	UG/M3	NA	NA	4.2	1.4	1.9
2-Hexanone	UG/M3	0.072 UJ	0.072 UJ	0.25 J	0.086 U	0.086 U
4-Ethyltoluene	UG/M3	0.29	0.20	0.44 J	0.25 J	0.16 U
4-Methyl-2-pentanone	UG/M3	0.073 UJ	0.29 J	1.6 J	0.29 J	0.86 J
Acetone	UG/M3	27	8.5	0.14 U	0.14 U	0.14 U
Benzene	UG/M3	2.0 J	1.4 J	0.96	0.96	0.543 J
Bromoethene (Vinyl Bromide)	UG/M3	NA	NA	0.15 U	0.15 U	0.15 U

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-104-22-IAB	H-104-22-OA	H-107-22-IAA	H-107-22-IAB	H-107-22-OA
Sample ID		224121-IAB-104	224121-OA-104	224121-IAA-107	224121-IAB-107	224121-OA-107
Matrix		Indoor Air	Outdoor Air	Indoor Air	Indoor Air	Outdoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/01/22	02/01/22	03/11/22	03/11/22	03/11/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.16 U	0.16 U	0.15 U	0.15 U	0.15 U
Bromoform	UG/M3	0.25 U	0.25 U	0.24 U	0.24 U	0.24 U
Bromomethane	UG/M3	0.11 U	0.11 U	0.13 U	0.13 U	0.13 U
Carbon disulfide	UG/M3	0.1 U	0.1 U	0.059 U	0.059 U	0.059 U
Carbon tetrachloride	UG/M3	0.57	0.61	0.38 J	0.38 J	0.38 J
Chlorobenzene	UG/M3	0.11 U	0.11 U	0.078 U	0.078 U	0.078 U
Chloroethane	UG/M3	0.067 U	0.067 U	0.12 U	0.12 U	0.12 U
Chloroform	UG/M3	0.22	0.16 U	0.15 J	0.15 J	0.098 J
Chloromethane	UG/M3	1.1	1.1	0.083 U	4.7	0.95 J
Cyclohexane	UG/M3	0.079 U	0.28	0.654 J	0.516 J	0.21 J
Dichlorodifluoromethane	UG/M3	2.3	2.3	2.0	2.0	2.0
Ethanol	UG/M3	620 D	23	115	84.2	11
Ethyl acetate	UG/M3	8.1 J	7.1 J	2.41 J	2.23 J	0.577 J
Ethylbenzene	UG/M3	1.5	0.48	0.782 J	0.695 J	0.35 J
Isopropyl alcohol	UG/M3	5.8	2.4 J	0.19 U	0.19 U	0.19 U
Methyl ethyl ketone (2-Butanone)	UG/M3	2.1 J	1.4 J	2.57 J	2.54 J	1.56 J
Methyl methacrylate	UG/M3	NA	NA	0.655 J	0.532 J	0.070 U
Methyl tert-butyl ether	UG/M3	0.097 U	0.097 U	0.036 U	0.036 U	0.036 U
Methylene chloride	UG/M3	1.9	1.9	1.6 J	1.7 J	1.2 J
Naphthalene	UG/M3	0.88	0.17 J	0.26 U	0.21 U	0.21 U
n-Heptane	UG/M3	0.70	0.59	1.6	1.6	0.492 J
n-Hexane	UG/M3	1.0 J	0.70 J	1.4	1.4	0.634 J
Styrene	UG/M3	1.5	0.11 J	0.596 J	0.554 J	0.085 J

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 UG/M3 - Microgram per cubic meter.

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-104-22-IAB	H-104-22-OA	H-107-22-IAA	H-107-22-IAB	H-107-22-OA
Sample ID		224121-IAB-104	224121-OA-104	224121-IAA-107	224121-IAB-107	224121-OA-107
Matrix		Indoor Air	Outdoor Air	Indoor Air	Indoor Air	Outdoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/01/22	02/01/22	03/11/22	03/11/22	03/11/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	NA	NA	0.788 J	0.697 J	0.576 J
Tetrachloroethene	UG/M3	16	5.8	0.814 J	0.814 J	0.47 J
Tetrahydrofuran	UG/M3	0.17 U	0.17 U	0.472 J	0.413 J	0.21 J
Toluene	UG/M3	5.1	3.8	14	12	2.3
Trichloroethene	UG/M3	0.15 J	0.13 U	0.27 J	0.32 J	0.12 U
Trichlorofluoromethane	UG/M3	1.2	1.2	1.07 J	1.07 J	1.07 J
Vinyl acetate	UG/M3	0.66 UJ	0.89 J	0.387 J	0.053 U	0.053 U
Vinyl chloride	UG/M3	0.08 U	0.08 U	0.074 U	0.074 U	0.074 U
m&p-Xylene	UG/M3	3.5	1.4	2.6	2.2	1.09 J
o-Xylene	UG/M3	1.4	0.58	0.87	0.87	0.434 J
Xylene (total)	UG/M3	NA	NA	3.5	3.0	1.52 J

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-11-22-IA	H-11-22-OA	H-11-22-SS	H-114-22-IA	H-114-22-SS
Sample ID		224121-IA-11	224121-OA-11	224121-SS-11	224121-IA-114	224121-SS-114
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		01/25/22	01/25/22	01/25/22	01/19/22	01/19/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.088 U	0.088 U	12	0.088 U	0.5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.65 J	0.58 J	0.61 J	0.52 J	0.54 U
1,1-Dichloroethane	UG/M3	0.048 U	0.048 U	1.9	0.047 U	0.27 U
1,1-Dichloroethene	UG/M3	0.055 U	0.055 U	0.16 U	0.054 U	0.31 U
1,2,4-Trichlorobenzene	UG/M3	0.18 UJ	0.18 UJ	0.52 UJ	0.18 UJ	1 UJ
1,2,4-Trimethylbenzene	UG/M3	0.49	0.20	0.15 U	0.83	1.6
1,2-Dichlorobenzene	UG/M3	0.078 U	0.078 U	0.22 U	0.078 U	0.44 U
1,2-Dichloroethane	UG/M3	0.59	0.052 U	1.8	0.093 J	0.96
1,2-Dichloroethene (cis)	UG/M3	0.047 U	0.047 U	0.13 U	0.047 U	0.27 U
1,2-Dichloroethene (trans)	UG/M3	0.049 U	0.049 U	0.14 U	0.048 U	0.28 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.10 J	0.11 J	0.24 U	0.13 J	0.48 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.19	0.093 J	0.13 U	0.35	0.92 J
1,3-Butadiene	UG/M3	0.054 U	0.054 U	0.15 U	0.054 U	0.31 U
1,4-Dichlorobenzene	UG/M3	0.085 U	0.085 U	0.24 U	0.096 J	0.49 U
1,4-Dioxane	UG/M3	0.086 U	0.086 U	0.24 U	0.085 U	0.49 U
1-Propene	UG/M3	0.2 U	0.2 U	0.58 U	0.2 U	1.2 U
2,2,4-Trimethylpentane	UG/M3	NA	NA	NA	NA	NA
2-Hexanone	UG/M3	0.072 UJ	0.072 UJ	0.21 UJ	0.072 UJ	0.41 UJ
4-Ethyltoluene	UG/M3	0.15 J	0.089 J	0.15 U	0.25	0.3 U
4-Methyl-2-pentanone	UG/M3	0.074 U	0.074 U	2.6	0.73 J	1.2 J
Acetone	UG/M3	11	2 U	35	13	20
Benzene	UG/M3	1.1	0.89	0.37	1.0	6.7
Bromoethene (Vinyl Bromide)	UG/M3	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-11-22-IA	H-11-22-OA	H-11-22-SS	H-114-22-IA	H-114-22-SS
Sample ID		224121-IA-11	224121-OA-11	224121-SS-11	224121-IA-114	224121-SS-114
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		01/25/22	01/25/22	01/25/22	01/19/22	01/19/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.085 U	0.085 U	0.24 U	0.085 U	0.49 U
Bromoform	UG/M3	0.13 U	0.13 U	0.37 U	0.13 U	0.74 U
Bromomethane	UG/M3	0.11 U	0.11 U	0.32 U	0.11 U	0.63 U
Carbon disulfide	UG/M3	0.28 U	0.28 U	0.79 U	0.28 U	1.6 J
Carbon tetrachloride	UG/M3	0.50	0.17 J	0.78	0.51	0.58 J
Chlorobenzene	UG/M3	0.048 U	0.048 U	0.14 U	0.048 U	0.27 U
Chloroethane	UG/M3	0.067 U	0.067 U	16	0.067 U	0.39 U
Chloroform	UG/M3	0.26	0.079 J	28	1.3	1.3
Chloromethane	UG/M3	1.1	1.0	0.085 U	1.2	1.1
Cyclohexane	UG/M3	0.08 U	0.08 U	0.23 U	0.53	0.46 U
Dichlorodifluoromethane	UG/M3	2.2	2.0	2.1	2.3	2.8
Ethanol	UG/M3	440 D	15	34	230 D	41
Ethyl acetate	UG/M3	2.3 J	0.75 UJ	4.3 J	2.6 J	62 J
Ethylbenzene	UG/M3	0.59	0.44	0.11 U	0.55	1.5
Isopropyl alcohol	UG/M3	4.4	0.79 U	3.7 J	3.3 J	4.5 U
Methyl ethyl ketone (2-Butanone)	UG/M3	1.1 J	0.34 U	13	1.5 J	7.5 J
Methyl methacrylate	UG/M3	NA	NA	NA	NA	NA
Methyl tert-butyl ether	UG/M3	0.05 U	0.05 U	0.14 U	0.05 U	0.29 U
Methylene chloride	UG/M3	2.7	0.73 J	0.8 U	0.68 J	1.6 U
Naphthalene	UG/M3	0.12 U	0.12 U	0.33 U	0.28	0.66 U
n-Heptane	UG/M3	1.2	0.48	1.6	1.0	1.1
n-Hexane	UG/M3	1.2 J	0.41 U	1.9 J	1.3 J	2.3 U
Styrene	UG/M3	0.27	0.069 J	0.13 U	0.49	0.82 J

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-11-22-IA	H-11-22-OA	H-11-22-SS	H-114-22-IA	H-114-22-SS
Sample ID		224121-IA-11	224121-OA-11	224121-SS-11	224121-IA-114	224121-SS-114
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		01/25/22	01/25/22	01/25/22	01/19/22	01/19/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	NA	NA	NA	NA	NA
Tetrachloroethene	UG/M3	0.32	0.28	81	0.36	2.5
Tetrahydrofuran	UG/M3	0.25 U	0.25 U	0.73 U	0.25 U	1.5 U
Toluene	UG/M3	4.7	3.0	0.80	2.5	17
Trichloroethene	UG/M3	0.07 U	0.07 U	11	0.079 J	0.4 U
Trichlorofluoromethane	UG/M3	1.2	1.2	1.4 J	1.2	1.4 J
Vinyl acetate	UG/M3	0.23 UJ	0.23 UJ	0.66 UJ	0.23 UJ	1.3 UJ
Vinyl chloride	UG/M3	0.035 U	0.035 U	1.6	0.035 U	0.2 U
m&p-Xylene	UG/M3	1.6	1.3	0.24 U	1.9	4.4
o-Xylene	UG/M3	0.57	0.45	0.12 U	0.72	1.7
Xylene (total)	UG/M3	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-115-22-IA	H-115-22-OA	H-115-22-SS	H-116-22-IA	H-116-22-SS
Sample ID		224121-IA-115	224121-OA-115	224121-SS-115	224121-IA-116	224121-SS-116
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		01/19/22	01/19/22	01/19/22	01/19/22	01/19/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.088 U	0.088 U	0.5 U	0.088 U	0.5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.76 J	0.55 J	0.67 J	0.58 J	0.71 J
1,1-Dichloroethane	UG/M3	0.047 U	0.047 U	0.27 U	0.047 U	0.27 U
1,1-Dichloroethene	UG/M3	0.054 U	0.054 U	0.31 U	0.054 U	0.31 U
1,2,4-Trichlorobenzene	UG/M3	0.18 UJ	0.18 UJ	1 UJ	0.18 UJ	1 UJ
1,2,4-Trimethylbenzene	UG/M3	1.7	0.37	1.6	0.67	0.57 J
1,2-Dichlorobenzene	UG/M3	0.078 U	0.078 U	0.44 U	0.078 U	0.44 U
1,2-Dichloroethane	UG/M3	0.11 J	0.052 U	2.0	0.28	0.92
1,2-Dichloroethene (cis)	UG/M3	0.047 U	0.047 U	0.27 U	0.047 U	0.27 U
1,2-Dichloroethene (trans)	UG/M3	0.048 U	0.048 U	0.28 U	0.048 U	0.28 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.12 J	0.10 J	0.48 U	0.12 J	0.48 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.66	0.12 J	0.57 J	0.23	0.27 U
1,3-Butadiene	UG/M3	0.054 U	0.054 U	0.31 U	0.054 U	0.31 U
1,4-Dichlorobenzene	UG/M3	0.31	0.085 U	0.49 U	0.085 U	0.49 U
1,4-Dioxane	UG/M3	0.085 U	0.085 U	0.49 U	0.085 U	0.49 U
1-Propene	UG/M3	0.2 U	0.2 U	1.2 U	0.2 U	1.2 U
2,2,4-Trimethylpentane	UG/M3	NA	NA	NA	NA	NA
2-Hexanone	UG/M3	0.072 UJ	0.072 UJ	0.41 UJ	0.072 UJ	0.41 UJ
4-Ethyltoluene	UG/M3	0.34	0.11 J	0.41 J	0.19	0.3 U
4-Methyl-2-pentanone	UG/M3	0.42 J	0.28 J	1.9 J	0.25 J	0.42 UJ
Acetone	UG/M3	25	9.8	42	25	68
Benzene	UG/M3	1.2	0.94	8.4	1.0	0.15 U
Bromoethene (Vinyl Bromide)	UG/M3	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-115-22-IA	H-115-22-OA	H-115-22-SS	H-116-22-IA	H-116-22-SS
Sample ID		224121-IA-115	224121-OA-115	224121-SS-115	224121-IA-116	224121-SS-116
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		01/19/22	01/19/22	01/19/22	01/19/22	01/19/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.50	0.085 U	0.49 U	0.085 U	0.49 U
Bromoform	UG/M3	0.13 U	0.13 U	0.74 U	0.13 U	0.74 U
Bromomethane	UG/M3	0.11 U	0.11 U	0.63 U	0.11 U	0.63 U
Carbon disulfide	UG/M3	0.28 U	0.28 U	1.8 J	0.28 U	1.6 U
Carbon tetrachloride	UG/M3	0.46	0.47	0.48 J	0.53	0.63 J
Chlorobenzene	UG/M3	0.048 U	0.048 U	7.9	0.048 U	0.27 U
Chloroethane	UG/M3	0.067 U	0.067 U	0.39 U	0.067 U	0.39 U
Chloroform	UG/M3	5.1	0.13 J	6.4	0.92	0.78 J
Chloromethane	UG/M3	1.1	1.0	1.3	1.1	0.17 U
Cyclohexane	UG/M3	0.49	0.39	0.46 U	0.55	0.46 U
Dichlorodifluoromethane	UG/M3	2.2	2.2	2.4	2.2	2.5
Ethanol	UG/M3	360 D	24	47	260 D	65
Ethyl acetate	UG/M3	3.2 J	1.7 J	100 J	2.6 J	4.3 UJ
Ethylbenzene	UG/M3	0.57	0.30	2.1	0.45	0.63 J
Isopropyl alcohol	UG/M3	47	2.9 J	4.5 U	12	4.5 U
Methyl ethyl ketone (2-Butanone)	UG/M3	2.0 J	1.6 J	15 J	1.5 J	7.9 J
Methyl methacrylate	UG/M3	NA	NA	NA	NA	NA
Methyl tert-butyl ether	UG/M3	0.05 U	0.05 U	0.29 U	0.05 U	0.29 U
Methylene chloride	UG/M3	1.1 J	1.5	1.6 U	1.5	1.6 U
Naphthalene	UG/M3	0.12 U	0.12 U	0.66 U	0.20	0.66 U
n-Heptane	UG/M3	1.3	0.70	1.3	1.0	0.34 U
n-Hexane	UG/M3	1.2 J	1.0 J	2.5 J	1.1 J	2.3 U
Styrene	UG/M3	0.35	0.068 J	1.4	0.42	0.44 J

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-115-22-IA	H-115-22-OA	H-115-22-SS	H-116-22-IA	H-116-22-SS
Sample ID		224121-IA-115	224121-OA-115	224121-SS-115	224121-IA-116	224121-SS-116
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		01/19/22	01/19/22	01/19/22	01/19/22	01/19/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	NA	NA	NA	NA	NA
Tetrachloroethene	UG/M3	0.67	0.22 J	8.8	0.38	0.76 J
Tetrahydrofuran	UG/M3	1.2	0.25 U	1.5 U	0.25 U	1.5 U
Toluene	UG/M3	2.9	1.7	22	6.0	7.2
Trichloroethene	UG/M3	0.16 J	0.069 U	0.4 U	0.094 J	0.4 U
Trichlorofluoromethane	UG/M3	1.4	1.3	1.1 J	1.3	1.4 J
Vinyl acetate	UG/M3	0.23 UJ	0.23 UJ	1.3 UJ	0.23 UJ	1.3 UJ
Vinyl chloride	UG/M3	0.035 U	0.035 U	0.2 U	0.035 U	0.2 U
m&p-Xylene	UG/M3	2.0	0.96	5.9	1.4	1.6 J
o-Xylene	UG/M3	0.87	0.36	2.2	0.56	0.80 J
Xylene (total)	UG/M3	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-117-22-IA	H-117-22-OA	H-117-22-SS	H-118-22-IA	H-118-22-IA
Sample ID		224121-IA-117	224121-OA-117	224121-SS-117	224121-IA-118	FD-012622
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		01/19/22	01/19/22	01/19/22	01/26/22	01/26/22
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.088 U	0.088 U	0.5 U	0.70	0.67
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.85 J	0.56 J	0.58 J	0.42 J	0.89 J
1,1-Dichloroethane	UG/M3	0.047 U	0.047 U	0.27 U	0.048 U	0.048 U
1,1-Dichloroethene	UG/M3	0.054 U	0.054 U	0.31 U	0.055 U	0.055 U
1,2,4-Trichlorobenzene	UG/M3	0.18 UJ	0.18 UJ	1 UJ	0.18 U	0.18 U
1,2,4-Trimethylbenzene	UG/M3	0.77	0.36	0.29 U	0.61	0.57
1,2-Dichlorobenzene	UG/M3	0.078 U	0.078 U	0.44 U	0.078 U	0.078 U
1,2-Dichloroethane	UG/M3	0.21	0.073 J	0.3 U	0.052 U	0.057 J
1,2-Dichloroethene (cis)	UG/M3	0.047 U	0.047 U	0.27 U	0.047 U	0.047 U
1,2-Dichloroethene (trans)	UG/M3	0.048 U	0.048 U	0.28 U	0.049 U	0.049 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.12 J	0.10 J	0.48 U	0.085 U	0.085 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.24	0.13 J	0.27 U	0.20	0.19
1,3-Butadiene	UG/M3	0.60	0.054 U	0.31 U	0.054 U	0.054 U
1,4-Dichlorobenzene	UG/M3	0.21	0.085 U	0.49 U	0.13 J	0.12 J
1,4-Dioxane	UG/M3	0.085 U	0.085 U	0.49 U	0.086 U	0.086 U
1-Propene	UG/M3	0.2 U	0.2 U	1.2 U	0.2 U	0.2 U
2,2,4-Trimethylpentane	UG/M3	NA	NA	NA	NA	NA
2-Hexanone	UG/M3	0.072 UJ	0.072 UJ	0.41 UJ	0.072 U	0.072 U
4-Ethyltoluene	UG/M3	0.20	0.13 J	0.3 U	0.20	0.19
4-Methyl-2-pentanone	UG/M3	0.29 J	0.33 J	0.42 UJ	0.18 J	0.35 J
Acetone	UG/M3	14	8.4	11 U	280 D	270 D
Benzene	UG/M3	1.7	0.92	0.73	1.2	1.1
Bromoethene (Vinyl Bromide)	UG/M3	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-117-22-IA	H-117-22-OA	H-117-22-SS	H-118-22-IA	H-118-22-IA
Sample ID		224121-IA-117	224121-OA-117	224121-SS-117	224121-IA-118	FD-012622
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		01/19/22	01/19/22	01/19/22	01/26/22	01/26/22
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.085 U	0.085 U	0.49 U	0.086 U	0.086 U
Bromoform	UG/M3	0.13 U	0.13 U	0.74 U	0.13 U	0.13 U
Bromomethane	UG/M3	0.11 U	0.11 U	0.63 U	0.11 U	0.11 U
Carbon disulfide	UG/M3	0.28 U	0.28 U	1.6 U	0.28 U	0.28 U
Carbon tetrachloride	UG/M3	0.52	0.47	0.38 U	0.36	0.34
Chlorobenzene	UG/M3	0.048 U	0.048 U	0.27 U	0.048 U	0.048 U
Chloroethane	UG/M3	0.067 U	0.067 U	0.39 U	0.068 U	0.068 U
Chloroform	UG/M3	0.33	0.14 J	59	0.12 J	0.12 J
Chloromethane	UG/M3	1.8	1.1	0.17 U	0.87	1.0
Cyclohexane	UG/M3	0.40	0.39	0.46 U	0.42	0.08 U
Dichlorodifluoromethane	UG/M3	2.2	2.2	2.5	1.0	1.1
Ethanol	UG/M3	120 D	28	12 J	24	27
Ethyl acetate	UG/M3	1.7 J	1.4 J	4.3 UJ	0.75 UJ	0.75 UJ
Ethylbenzene	UG/M3	0.66	0.56	0.22 U	22	21
Isopropyl alcohol	UG/M3	3.7	3.0 J	4.5 U	2.5 J	2.8 J
Methyl ethyl ketone (2-Butanone)	UG/M3	1.6 J	1.2 J	2 U	0.69 J	2.6 J
Methyl methacrylate	UG/M3	NA	NA	NA	NA	NA
Methyl tert-butyl ether	UG/M3	0.05 U	0.05 U	0.29 U	0.051 U	0.051 U
Methylene chloride	UG/M3	1.9	2.6	1.6 U	7.1	7.2
Naphthalene	UG/M3	0.23	0.12 U	0.66 U	0.18 J	0.16 J
n-Heptane	UG/M3	1.8	0.67	0.34 U	0.83	1.1
n-Hexane	UG/M3	1.0 J	1.2 J	2.3 U	1.5 J	2.0 J
Styrene	UG/M3	0.34	0.068 J	0.27 U	0.090 J	0.087 J

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-117-22-IA	H-117-22-OA	H-117-22-SS	H-118-22-IA	H-118-22-IA
Sample ID		224121-IA-117	224121-OA-117	224121-SS-117	224121-IA-118	FD-012622
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		01/19/22	01/19/22	01/19/22	01/26/22	01/26/22
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	NA	NA	NA	NA	NA
Tetrachloroethene	UG/M3	0.49	0.17 J	3.1	0.18 J	0.17 J
Tetrahydrofuran	UG/M3	0.36 J	0.25 U	1.5 U	0.26 U	0.26 U
Toluene	UG/M3	5.0	3.1	1.3	28	27
Trichloroethene	UG/M3	0.21	0.069 U	0.41 J	0.07 U	0.07 U
Trichlorofluoromethane	UG/M3	1.3	1.4	1.4 J	1.3	1.4
Vinyl acetate	UG/M3	0.23 UJ	0.23 UJ	1.3 UJ	0.23 UJ	0.23 UJ
Vinyl chloride	UG/M3	0.035 U	0.035 U	0.2 U	0.036 U	0.036 U
m&p-Xylene	UG/M3	1.9	1.9	0.48 U	120	110
o-Xylene	UG/M3	0.63	0.55	0.23 U	36	33
Xylene (total)	UG/M3	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-118-22-OA	H-118-22-SS	H-119-22-IA	H-119-22-IA	H-119-22-SS
Sample ID		224121-OA-118	224121-SS-118	224121-IA-119	FD-012722	224121-SS-119
Matrix		Outdoor Air	Subslab Vapor	Indoor Air	Indoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		01/26/22	01/26/22	01/27/22	01/27/22	01/27/22
Parameter	Units				Field Duplicate (1-1)	
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.11 J	0.59	0.088 U	0.088 U	0.47 J
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.37 J	0.48 J	0.42 J	0.40 J	0.44 J
1,1-Dichloroethane	UG/M3	0.048 U	0.53	0.048 U	0.048 U	0.64
1,1-Dichloroethene	UG/M3	0.055 U	0.16 U	0.055 U	0.055 U	0.16 U
1,2,4-Trichlorobenzene	UG/M3	0.18 U	0.52 U	0.18 U	0.18 U	0.52 U
1,2,4-Trimethylbenzene	UG/M3	0.42	0.15 U	1.5 J	8.0 J	0.53
1,2-Dichlorobenzene	UG/M3	0.078 U	0.22 U	0.078 U	0.078 U	0.22 U
1,2-Dichloroethane	UG/M3	0.052 U	0.43	0.052 U	0.052 U	0.51
1,2-Dichloroethene (cis)	UG/M3	0.047 U	0.13 U	0.047 U	0.047 U	0.13 U
1,2-Dichloroethene (trans)	UG/M3	0.049 U	0.14 U	0.049 U	0.050 J	0.14 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.085 U	0.24 U	0.085 U	0.085 U	0.24 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.10 J	0.13 U	0.42 J	2.2 J	0.26 J
1,3-Butadiene	UG/M3	0.054 U	0.15 U	0.23	0.24	0.15 U
1,4-Dichlorobenzene	UG/M3	0.14 J	0.24 U	0.086 U	0.086 U	0.24 U
1,4-Dioxane	UG/M3	0.086 U	0.24 U	0.086 U	0.086 U	2.6 J
1-Propene	UG/M3	2.6	0.58 U	0.2 U	0.2 U	1.2 J
2,2,4-Trimethylpentane	UG/M3	NA	NA	NA	NA	NA
2-Hexanone	UG/M3	0.072 U	0.21 U	0.072 U	0.072 U	0.21 U
4-Ethyltoluene	UG/M3	0.12 J	0.15 U	0.42 J	1.3 J	0.15 U
4-Methyl-2-pentanone	UG/M3	0.91	0.40 J	52	51	5.3
Acetone	UG/M3	18	34	180 D	180 D	680 D
Benzene	UG/M3	0.85	0.24 J	1.0	1.0	1.1
Bromoethene (Vinyl Bromide)	UG/M3	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-118-22-OA	H-118-22-SS	H-119-22-IA	H-119-22-IA	H-119-22-SS
Sample ID		224121-OA-118	224121-SS-118	224121-IA-119	FD-012722	224121-SS-119
Matrix		Outdoor Air	Subslab Vapor	Indoor Air	Indoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		01/26/22	01/26/22	01/27/22	01/27/22	01/27/22
Parameter	Units				Field Duplicate (1-1)	
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.086 U	0.24 U	0.086 U	0.086 U	0.24 U
Bromoform	UG/M3	0.13 U	0.37 U	0.13 U	0.13 U	0.37 U
Bromomethane	UG/M3	0.11 U	0.32 U	0.11 U	0.11 U	0.58
Carbon disulfide	UG/M3	0.28 U	0.79 U	0.28 U	0.28 U	1.9 J
Carbon tetrachloride	UG/M3	0.31	0.24 J	0.30	0.067 U	0.26 J
Chlorobenzene	UG/M3	0.048 U	0.14 U	0.048 U	0.048 U	0.14 U
Chloroethane	UG/M3	0.068 U	5.8	0.068 U	0.068 U	8.8
Chloroform	UG/M3	0.10 J	0.39 J	0.041 U	0.096 J	1.2
Chloromethane	UG/M3	0.91	0.93	1.1	1.1	0.085 U
Cyclohexane	UG/M3	0.08 U	0.23 U	2.2	2.2	0.23 U
Dichlorodifluoromethane	UG/M3	1.1	1.6	1.1	0.99	1.5
Ethanol	UG/M3	590 D	16	230 D	230 D	240 D
Ethyl acetate	UG/M3	8.8 J	2.1 UJ	0.75 UJ	0.75 UJ	2.1 UJ
Ethylbenzene	UG/M3	2.9	1.9	3.1	3.1	0.61
Isopropyl alcohol	UG/M3	2.4 J	2.3 U	46	44	30
Methyl ethyl ketone (2-Butanone)	UG/M3	1.5 J	3.9 J	4.1 J	4.3	17
Methyl methacrylate	UG/M3	NA	NA	NA	NA	NA
Methyl tert-butyl ether	UG/M3	0.051 U	0.14 U	0.051 U	0.051 U	0.14 U
Methylene chloride	UG/M3	3.6	1.2 J	1.9	1.9	1.1 J
Naphthalene	UG/M3	0.12 UJ	0.33 UJ	0.34 J	0.39 J	0.33 UJ
n-Heptane	UG/M3	0.57	0.48	1.0	1.0	0.70
n-Hexane	UG/M3	1.2 J	1.2 U	100	98	4.5 J
Styrene	UG/M3	0.066 J	0.13 U	2.1	2.2	0.20 J

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-118-22-OA	H-118-22-SS	H-119-22-IA	H-119-22-IA	H-119-22-SS
Sample ID		224121-OA-118	224121-SS-118	224121-IA-119	FD-012722	224121-SS-119
Matrix		Outdoor Air	Subslab Vapor	Indoor Air	Indoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		01/26/22	01/26/22	01/27/22	01/27/22	01/27/22
Parameter	Units				Field Duplicate (1-1)	
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	NA	NA	NA	NA	NA
Tetrachloroethene	UG/M3	0.15 J	10	0.90 J	2.0 J	14
Tetrahydrofuran	UG/M3	0.26 U	0.73 U	1.6	1.6	0.73 U
Toluene	UG/M3	7.6	20	490 D	480 D	29
Trichloroethene	UG/M3	0.07 U	0.31 J	0.07 U	0.12 J	0.70
Trichlorofluoromethane	UG/M3	1.1	1.6 J	3.6	3.5	62
Vinyl acetate	UG/M3	0.23 UJ	0.66 UJ	0.23 UJ	0.23 UJ	0.66 UJ
Vinyl chloride	UG/M3	0.036 U	0.54	0.036 U	0.036 U	0.73
m&p-Xylene	UG/M3	14	8.1	12	12	2.1
o-Xylene	UG/M3	4.1	2.3	3.4	3.3	0.72
Xylene (total)	UG/M3	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-120-22-IA	H-120-22-OA	H-120-22-SS	H-121-22-IA	H-121-22-OA
Sample ID		224121-IA-120	224121-OA-120	224121-SS-120	224121-IA-121	224121-OA-121
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air	Outdoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		01/27/22	01/27/22	01/27/22	02/01/22	02/01/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.088 U	0.088 U	1.4	0.15 U	0.15 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.42 J	0.44 J	0.41 J	0.50 J	0.58 J
1,1-Dichloroethane	UG/M3	0.048 U	0.048 U	0.91	0.12 U	0.12 U
1,1-Dichloroethene	UG/M3	0.055 U	0.055 U	0.16 U	0.11 U	0.11 U
1,2,4-Trichlorobenzene	UG/M3	0.18 U	0.18 U	0.52 U	0.18 UJ	0.18 UJ
1,2,4-Trimethylbenzene	UG/M3	1.3	0.46	0.15 U	21	0.56
1,2-Dichlorobenzene	UG/M3	0.078 U	0.078 U	0.22 U	0.12 U	0.12 U
1,2-Dichloroethane	UG/M3	0.052 U	0.052 U	0.63	0.13 U	0.13 U
1,2-Dichloroethene (cis)	UG/M3	0.047 U	0.047 U	0.13 U	0.1 U	0.1 U
1,2-Dichloroethene (trans)	UG/M3	0.049 U	0.049 U	0.14 U	0.11 U	0.11 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.085 U	0.085 U	0.24 U	0.24 U	0.24 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.39	0.13 J	0.13 U	6.3	0.17
1,3-Butadiene	UG/M3	0.24	0.14	0.15 U	0.065 U	0.065 U
1,4-Dichlorobenzene	UG/M3	0.086 U	0.086 U	0.24 U	0.14 U	0.14 U
1,4-Dioxane	UG/M3	0.086 U	0.086 U	0.24 U	0.1 U	0.1 U
1-Propene	UG/M3	0.2 U	0.2 U	0.58 U	0.53 U	0.53 U
2,2,4-Trimethylpentane	UG/M3	NA	NA	NA	NA	NA
2-Hexanone	UG/M3	0.072 U	0.072 U	0.21 U	0.072 UJ	0.072 UJ
4-Ethyltoluene	UG/M3	0.40	0.13 J	0.15 U	5.2	0.15 J
4-Methyl-2-pentanone	UG/M3	77	0.31	5.9	0.073 UJ	0.073 UJ
Acetone	UG/M3	300 D	11	90	10	10
Benzene	UG/M3	1.3	0.86	0.36	4.1 J	1.5 J
Bromoethene (Vinyl Bromide)	UG/M3	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-120-22-IA	H-120-22-OA	H-120-22-SS	H-121-22-IA	H-121-22-OA
Sample ID		224121-IA-120	224121-OA-120	224121-SS-120	224121-IA-121	224121-OA-121
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air	Outdoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		01/27/22	01/27/22	01/27/22	02/01/22	02/01/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.086 U	0.086 U	0.24 U	0.16 U	0.16 U
Bromoform	UG/M3	0.13 U	0.13 U	0.37 U	0.25 U	0.25 U
Bromomethane	UG/M3	0.11 U	0.11 U	0.32 U	0.11 U	0.11 U
Carbon disulfide	UG/M3	0.28 U	0.28 U	5.4	0.18 J	0.1 U
Carbon tetrachloride	UG/M3	0.37	0.37	0.19 U	0.48	0.53
Chlorobenzene	UG/M3	0.048 U	0.048 U	0.14 U	0.11 U	0.11 U
Chloroethane	UG/M3	0.28	0.068 U	17	0.067 U	0.067 U
Chloroform	UG/M3	0.093 J	0.086 J	1.2	1.3	0.16 U
Chloromethane	UG/M3	1.1	0.93	0.34 J	1.1	1.1
Cyclohexane	UG/M3	4.0	0.37	0.23 U	6.9	0.38
Dichlorodifluoromethane	UG/M3	1.1	1.3	1.3	2.2	2.3
Ethanol	UG/M3	160 D	28	77	120 D	37
Ethyl acetate	UG/M3	0.75 UJ	0.75 UJ	2.1 UJ	2.4 J	1.1 J
Ethylbenzene	UG/M3	3.1	0.43	0.60	9.3	0.59
Isopropyl alcohol	UG/M3	40	1.7 J	9.4 J	4.1	4.0
Methyl ethyl ketone (2-Butanone)	UG/M3	3.3 J	1.4 J	9.5 J	2.4 J	1.2 J
Methyl methacrylate	UG/M3	NA	NA	NA	NA	NA
Methyl tert-butyl ether	UG/M3	0.051 U	0.051 U	0.14 U	0.097 U	0.097 U
Methylene chloride	UG/M3	2.2	0.86 J	0.83 J	1.4	1.7
Naphthalene	UG/M3	0.36 J	0.13 J	0.44 J	0.48	0.12 U
n-Heptane	UG/M3	1.7	0.34	0.52	11	0.67
n-Hexane	UG/M3	200 D	0.98 J	2.5 J	6.6	0.95 J
Styrene	UG/M3	1.5	0.22	0.54	0.20	0.13 J

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-120-22-IA	H-120-22-OA	H-120-22-SS	H-121-22-IA	H-121-22-OA
Sample ID		224121-IA-120	224121-OA-120	224121-SS-120	224121-IA-121	224121-OA-121
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air	Outdoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		01/27/22	01/27/22	01/27/22	02/01/22	02/01/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	NA	NA	NA	NA	NA
Tetrachloroethene	UG/M3	2.9	1.9	53	0.53	0.52
Tetrahydrofuran	UG/M3	1.0 J	0.26 U	0.73 U	0.17 U	0.17 U
Toluene	UG/M3	710 D	11	26	21	4.3
Trichloroethene	UG/M3	0.15 J	0.11 J	0.58	0.17 J	0.13 U
Trichlorofluoromethane	UG/M3	4.1	1.3	51	1.2	1.2
Vinyl acetate	UG/M3	0.23 UJ	0.23 UJ	0.66 UJ	0.66 UJ	0.66 UJ
Vinyl chloride	UG/M3	0.036 U	0.036 U	1.7	0.08 U	0.08 U
m&p-Xylene	UG/M3	12	1.5	2.4	31	1.8
o-Xylene	UG/M3	3.4	0.49	0.65	13	0.68
Xylene (total)	UG/M3	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-121-22-SS	H-122-22-IA	H-122-22-SS	H-123-22-IA	H-123-22-OA
Sample ID		224121-SS-121	224121-IA-122	224121-SS-122	224121-IA-123	224121-OA-123
Matrix		Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Outdoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/01/22	02/01/22	02/01/22	02/01/22	02/01/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.43 U	0.15 U	0.43 U	0.15 U	0.15 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.85 U	0.57 J	0.85 U	0.50 J	0.45 J
1,1-Dichloroethane	UG/M3	3.4	0.12 U	2.4	0.12 U	0.12 U
1,1-Dichloroethene	UG/M3	0.3 U	0.11 U	0.3 U	0.11 U	0.11 U
1,2,4-Trichlorobenzene	UG/M3	0.52 UJ	0.18 UJ	0.52 UJ	0.18 UJ	0.18 UJ
1,2,4-Trimethylbenzene	UG/M3	0.53	1.2	0.22 U	1.4	0.71
1,2-Dichlorobenzene	UG/M3	0.35 U	0.12 U	0.35 U	0.12 U	0.12 U
1,2-Dichloroethane	UG/M3	3.4	0.13 U	2.6	0.13 U	0.13 U
1,2-Dichloroethene (cis)	UG/M3	0.29 U	0.1 U	0.29 U	0.1 U	0.1 U
1,2-Dichloroethene (trans)	UG/M3	0.31 U	0.11 U	0.31 U	0.11 U	0.11 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.69 U	0.24 U	0.69 U	0.24 U	0.24 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.26 U	0.43	0.26 U	0.38	0.21
1,3-Butadiene	UG/M3	0.19 U	0.065 U	0.19 U	0.065 U	0.065 U
1,4-Dichlorobenzene	UG/M3	0.39 U	0.14 U	0.39 U	0.14 U	0.14 U
1,4-Dioxane	UG/M3	0.3 U	0.1 U	0.3 U	0.1 U	0.1 U
1-Propene	UG/M3	1.5 U	0.53 U	2.5 J	0.53 U	0.53 U
2,2,4-Trimethylpentane	UG/M3	NA	NA	NA	NA	NA
2-Hexanone	UG/M3	0.21 UJ	0.072 UJ	0.21 UJ	0.072 UJ	0.072 UJ
4-Ethyltoluene	UG/M3	0.3 U	0.43	0.3 U	0.32	0.17
4-Methyl-2-pentanone	UG/M3	0.21 U	0.073 UJ	0.21 U	0.073 UJ	0.073 UJ
Acetone	UG/M3	46	11	45	200 D	26
Benzene	UG/M3	2.7	1.7 J	0.24 U	2.2 J	2.3 J
Bromoethene (Vinyl Bromide)	UG/M3	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-121-22-SS	H-122-22-IA	H-122-22-SS	H-123-22-IA	H-123-22-OA
Sample ID		224121-SS-121	224121-IA-122	224121-SS-122	224121-IA-123	224121-OA-123
Matrix		Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Outdoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/01/22	02/01/22	02/01/22	02/01/22	02/01/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.47 U	0.16 U	0.47 U	0.16 U	0.16 U
Bromoform	UG/M3	0.7 U	0.25 U	0.7 U	0.25 U	0.25 U
Bromomethane	UG/M3	0.32 U	0.11 U	0.32 U	0.11 U	0.11 U
Carbon disulfide	UG/M3	0.87 J	0.1 U	0.29 U	0.20 J	0.1 U
Carbon tetrachloride	UG/M3	0.5 U	0.50	0.5 U	0.55	0.56
Chlorobenzene	UG/M3	0.31 U	0.11 U	0.31 U	0.11 U	0.11 U
Chloroethane	UG/M3	45	0.067 U	29	0.067 U	0.067 U
Chloroform	UG/M3	2.2	0.33	2.5	1.7	0.16 U
Chloromethane	UG/M3	1.2	1.1	0.88	1.2	1.1
Cyclohexane	UG/M3	6.6	0.40	0.23 U	0.49	0.56
Dichlorodifluoromethane	UG/M3	2.3	2.2	2.1	2.4	2.2
Ethanol	UG/M3	60	37	65	440 D	37
Ethyl acetate	UG/M3	11 J	1.0 J	6.0 J	3.2 J	1.5 J
Ethylbenzene	UG/M3	2.3	0.72	0.25 U	0.85	0.69
Isopropyl alcohol	UG/M3	5.6 J	4.3	8.7 J	7.1	4.0
Methyl ethyl ketone (2-Butanone)	UG/M3	21	1.2 J	18	2.2 J	1.1 U
Methyl methacrylate	UG/M3	NA	NA	NA	NA	NA
Methyl tert-butyl ether	UG/M3	0.28 U	0.097 U	0.28 U	0.097 U	0.097 U
Methylene chloride	UG/M3	1.6 U	2.2	1.6 U	2.3	1.8
Naphthalene	UG/M3	0.33 U	0.14 J	0.33 U	0.21	0.12 U
n-Heptane	UG/M3	9.0	0.83	1.9	1.0	0.95
n-Hexane	UG/M3	8.6 J	1.2 J	2.6 J	1.4 J	0.94 J
Styrene	UG/M3	0.22 U	0.15	0.22 U	0.89	0.64

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-121-22-SS	H-122-22-IA	H-122-22-SS	H-123-22-IA	H-123-22-OA
Sample ID		224121-SS-121	224121-IA-122	224121-SS-122	224121-IA-123	224121-OA-123
Matrix		Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Outdoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/01/22	02/01/22	02/01/22	02/01/22	02/01/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	NA	NA	NA	NA	NA
Tetrachloroethene	UG/M3	1.4	0.50	38	0.78	0.77
Tetrahydrofuran	UG/M3	0.48 U	0.17 U	0.48 U	0.17 U	0.17 U
Toluene	UG/M3	9.4	4.7	2.9	6.7	8.1
Trichloroethene	UG/M3	0.36 U	0.13 U	1.9	1.0	0.94
Trichlorofluoromethane	UG/M3	1.3 J	1.2	1.1 J	1.4	1.1
Vinyl acetate	UG/M3	1.9 UJ	0.66 UJ	1.9 UJ	0.66 UJ	0.66 UJ
Vinyl chloride	UG/M3	4.5	0.08 U	3.0	0.08 U	0.08 U
m&p-Xylene	UG/M3	5.2	2.4	0.49 U	2.7	2.2
o-Xylene	UG/M3	2.3	0.95	0.22 U	1.0	0.84
Xylene (total)	UG/M3	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-123-22-SS	H-123-22-SS	H-124-22-IA	H-124-22-OA	H-124-22-SS
Sample ID		224121-SS-123	FD-020122	224121-IA-124	224121-OA-124	224121-SS-124
Matrix		Subslab Vapor	Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/01/22	02/01/22	02/03/22	02/03/22	02/03/22
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.43 U	0.41	0.15 U	0.15 U	0.43 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.85 U	0.49 J	0.56 J	0.56 J	0.85 U
1,1-Dichloroethane	UG/M3	3.4	4.0	0.12 U	0.12 U	0.35 U
1,1-Dichloroethene	UG/M3	0.3 U	0.11 U	0.11 U	0.11 U	0.3 U
1,2,4-Trichlorobenzene	UG/M3	0.52 UJ	0.18 UJ	0.18 UJ	0.18 UJ	0.52 UJ
1,2,4-Trimethylbenzene	UG/M3	0.22 U	0.076 U	1.6	0.69	0.22 U
1,2-Dichlorobenzene	UG/M3	0.35 U	0.12 U	0.12 U	0.12 U	0.35 U
1,2-Dichloroethane	UG/M3	5.4	6.3	0.22	0.13 U	0.37 U
1,2-Dichloroethene (cis)	UG/M3	0.29 U	0.1 U	0.1 U	0.1 U	0.29 U
1,2-Dichloroethene (trans)	UG/M3	0.31 U	0.11 U	0.40	0.11 U	0.31 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.69 U	0.24 U	0.24 U	0.24 U	0.69 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.26 U	0.091 U	0.47	0.23	0.26 U
1,3-Butadiene	UG/M3	0.19 U	0.065 U	0.065 U	0.065 U	0.19 U
1,4-Dichlorobenzene	UG/M3	0.39 U	0.14 U	0.40	0.36	0.39 U
1,4-Dioxane	UG/M3	0.3 U	0.1 U	0.1 U	0.1 U	0.3 U
1-Propene	UG/M3	1.5 U	0.53 U	0.53 U	0.53 U	1.5 U
2,2,4-Trimethylpentane	UG/M3	NA	NA	NA	NA	NA
2-Hexanone	UG/M3	0.21 UJ	0.072 UJ	0.072 UJ	0.072 UJ	0.21 UJ
4-Ethyltoluene	UG/M3	0.3 U	0.11 U	0.42	0.15 J	0.3 U
4-Methyl-2-pentanone	UG/M3	0.21 U	0.073 UJ	0.91	0.073 U	0.21 U
Acetone	UG/M3	39	44	41	19	17
Benzene	UG/M3	0.98	0.96 J	2.0	1.3	0.24 U
Bromoethene (Vinyl Bromide)	UG/M3	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-123-22-SS	H-123-22-SS	H-124-22-IA	H-124-22-OA	H-124-22-SS
Sample ID		224121-SS-123	FD-020122	224121-IA-124	224121-OA-124	224121-SS-124
Matrix		Subslab Vapor	Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/01/22	02/01/22	02/03/22	02/03/22	02/03/22
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.47 U	0.16 U	0.16 U	0.16 U	0.47 U
Bromoform	UG/M3	0.7 U	0.25 U	0.25 U	0.25 U	0.7 U
Bromomethane	UG/M3	0.32 U	0.11 U	0.11 U	0.11 U	0.32 U
Carbon disulfide	UG/M3	0.93 J	1.3	0.12 J	0.71 J	0.29 U
Carbon tetrachloride	UG/M3	0.5 U	0.32	0.56	0.54	0.5 U
Chlorobenzene	UG/M3	0.31 U	0.11 U	0.11 U	0.11 U	0.31 U
Chloroethane	UG/M3	18	17	0.067 U	0.067 U	1.9
Chloroform	UG/M3	2.1	2.4	0.76	0.16 U	0.46 U
Chloromethane	UG/M3	0.16 U	1.0	1.5	1.3	0.16 U
Cyclohexane	UG/M3	0.23 U	0.079 U	1.1	0.079 U	0.23 U
Dichlorodifluoromethane	UG/M3	12	11	2.3	2.4	2.4
Ethanol	UG/M3	50	53	320 D	41	24
Ethyl acetate	UG/M3	7.0 J	8.6 J	4.7 J	0.93 J	1.8 UJ
Ethylbenzene	UG/M3	0.25 U	0.088 U	1.2	0.60	0.25 U
Isopropyl alcohol	UG/M3	5.0 J	5.2	5.9	6.7	3.3 J
Methyl ethyl ketone (2-Butanone)	UG/M3	15	16	2.0 J	1.9 J	4.1 J
Methyl methacrylate	UG/M3	NA	NA	NA	NA	NA
Methyl tert-butyl ether	UG/M3	0.28 U	0.097 U	0.097 U	0.097 U	0.28 U
Methylene chloride	UG/M3	1.6 U	0.65 J	1.5	1.3	1.6 U
Naphthalene	UG/M3	0.33 U	0.12 U	0.36	0.17 J	0.33 U
n-Heptane	UG/M3	1.1	1.4	1.5	0.75	0.26 U
n-Hexane	UG/M3	1.8 U	1.7 J	3.4 J	1.1 J	1.8 U
Styrene	UG/M3	0.22 U	0.078 U	0.58	0.25	0.22 U

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-123-22-SS	H-123-22-SS	H-124-22-IA	H-124-22-OA	H-124-22-SS
Sample ID		224121-SS-123	FD-020122	224121-IA-124	224121-OA-124	224121-SS-124
Matrix		Subslab Vapor	Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/01/22	02/01/22	02/03/22	02/03/22	02/03/22
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	NA	NA	NA	NA	NA
Tetrachloroethene	UG/M3	6.8	6.8	1.1	0.90	1.8
Tetrahydrofuran	UG/M3	0.48 U	0.17 U	0.17 U	0.17 U	0.48 U
Toluene	UG/M3	1.2	1.1	12	4.8	0.49
Trichloroethene	UG/M3	0.36 U	0.13 J	0.81	0.28	0.36 U
Trichlorofluoromethane	UG/M3	1.1 J	1.2	1.2	1.2	1.2 J
Vinyl acetate	UG/M3	160 J	0.66 UJ	0.66 UJ	0.66 UJ	1.9 UJ
Vinyl chloride	UG/M3	1.2	1.2	0.08 U	0.08 U	0.23 U
m&p-Xylene	UG/M3	0.49 U	0.17 U	4.1	2.1	0.49 U
o-Xylene	UG/M3	0.22 U	0.078 U	1.6	0.72	0.22 U
Xylene (total)	UG/M3	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-125-22-IA	H-125-22-SS	H-126-22-IA	H-126-22-OA	H-126-22-SS
Sample ID		224121-IA-125	224121-SS-125	224121-IA-126	224121-OA-126	224121-SS-126
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/03/22	02/03/22	02/05/22	02/05/22	02/05/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.15 U	0.43 U	0.15 U	0.15 U	0.43 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.51 J	0.85 U	0.47 J	0.52 J	0.85 U
1,1-Dichloroethane	UG/M3	0.12 U	5.9	0.12 U	0.12 U	7.4
1,1-Dichloroethene	UG/M3	0.11 U	0.3 U	0.11 U	0.11 U	0.3 U
1,2,4-Trichlorobenzene	UG/M3	0.18 UJ	0.52 UJ	0.18 U	0.18 U	0.52 U
1,2,4-Trimethylbenzene	UG/M3	2.4	0.22 U	0.53	0.10 J	0.58
1,2-Dichlorobenzene	UG/M3	0.12 U	0.35 U	0.12 U	0.12 U	0.35 U
1,2-Dichloroethane	UG/M3	0.13 U	7.4	0.13 U	0.13 U	7.4
1,2-Dichloroethene (cis)	UG/M3	0.1 U	0.29 U	0.1 U	0.1 U	0.29 U
1,2-Dichloroethene (trans)	UG/M3	0.11 U	0.31 U	0.11 U	0.11 U	0.31 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.24 U	0.69 U	0.24 U	0.24 U	0.69 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.82	0.26 U	0.22	0.091 U	0.26 U
1,3-Butadiene	UG/M3	0.065 U	0.19 U	0.065 U	0.065 U	0.19 U
1,4-Dichlorobenzene	UG/M3	0.33	0.39 U	0.14 U	0.14 U	0.39 U
1,4-Dioxane	UG/M3	0.1 U	0.3 U	0.1 U	0.1 U	0.3 U
1-Propene	UG/M3	0.53 U	1.5 U	0.53 U	0.53 U	3.2 J
2,2,4-Trimethylpentane	UG/M3	NA	NA	NA	NA	NA
2-Hexanone	UG/M3	0.072 UJ	0.21 UJ	0.35	0.14 J	0.21 U
4-Ethyltoluene	UG/M3	0.72	0.3 U	0.23	0.11 U	0.3 U
4-Methyl-2-pentanone	UG/M3	0.27	0.21 U	0.29	0.078 J	0.45
Acetone	UG/M3	13	38	15	9.0	55
Benzene	UG/M3	1.4	0.24 U	0.49	0.48	1.2
Bromoethene (Vinyl Bromide)	UG/M3	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-125-22-IA	H-125-22-SS	H-126-22-IA	H-126-22-OA	H-126-22-SS
Sample ID		224121-IA-125	224121-SS-125	224121-IA-126	224121-OA-126	224121-SS-126
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/03/22	02/03/22	02/05/22	02/05/22	02/05/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.16 U	0.47 U	0.16 U	0.16 U	0.47 U
Bromoform	UG/M3	0.25 U	0.7 U	0.25 U	0.25 U	0.7 U
Bromomethane	UG/M3	0.11 U	0.32 U	0.11 U	0.11 U	0.32 U
Carbon disulfide	UG/M3	0.1 U	0.64 J	0.1 U	0.1 U	87
Carbon tetrachloride	UG/M3	0.52	0.5 U	0.29	0.49	0.5 U
Chlorobenzene	UG/M3	0.11 U	0.31 U	0.11 U	0.11 U	0.31 U
Chloroethane	UG/M3	0.067 U	20	0.068 U	0.068 U	35
Chloroform	UG/M3	0.16 U	2.9	0.16 U	0.16 U	3.2
Chloromethane	UG/M3	1.1	0.16 U	1.0	1.0	0.80
Cyclohexane	UG/M3	0.35	0.23 U	0.08 U	0.08 U	0.23 U
Dichlorodifluoromethane	UG/M3	2.4	2.7	1.1	1.2	1.6
Ethanol	UG/M3	27	59	46	15	16
Ethyl acetate	UG/M3	0.94 J	7.3 J	0.64 UJ	0.64 UJ	1.8 UJ
Ethylbenzene	UG/M3	0.75	0.25 U	0.21	0.15 J	0.25 U
Isopropyl alcohol	UG/M3	2.9 J	8.1 J	6.9	0.99 J	34
Methyl ethyl ketone (2-Butanone)	UG/M3	1.2 J	25	1.7 J	1.1 U	13
Methyl methacrylate	UG/M3	NA	NA	NA	NA	NA
Methyl tert-butyl ether	UG/M3	0.097 U	0.28 U	0.098 U	0.098 U	0.28 U
Methylene chloride	UG/M3	1.4	1.6 U	0.89 J	0.87 J	1.6 U
Naphthalene	UG/M3	0.19	0.33 U	0.25	0.12 U	0.33 U
n-Heptane	UG/M3	0.78	1.6	0.59	0.20	1.4
n-Hexane	UG/M3	1.4 J	1.9 J	0.76 J	0.65 J	3.7 J
Styrene	UG/M3	0.24	0.22 U	0.087 J	0.079 U	0.22 U

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 UG/M3 - Microgram per cubic meter.

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Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-125-22-IA	H-125-22-SS	H-126-22-IA	H-126-22-OA	H-126-22-SS
Sample ID		224121-IA-125	224121-SS-125	224121-IA-126	224121-OA-126	224121-SS-126
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/03/22	02/03/22	02/05/22	02/05/22	02/05/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	NA	NA	NA	NA	NA
Tetrachloroethene	UG/M3	0.77	0.85	0.18 U	0.18 U	11
Tetrahydrofuran	UG/M3	0.17 U	0.48 U	0.17 U	0.17 U	0.48 U
Toluene	UG/M3	4.4	2.0	1.9	0.73	1.6
Trichloroethene	UG/M3	0.15 J	0.36 U	0.13 U	0.13 U	0.36 U
Trichlorofluoromethane	UG/M3	1.3	1.2 J	1.3	1.3	2.5
Vinyl acetate	UG/M3	0.66 UJ	1.9 UJ	0.66 UJ	0.66 UJ	1.9 UJ
Vinyl chloride	UG/M3	0.08 U	1.0	0.081 U	0.081 U	1.5
m&p-Xylene	UG/M3	2.5	0.87	0.68	0.42	0.49 U
o-Xylene	UG/M3	1.1	0.43	0.23	0.15 J	0.22 U
Xylene (total)	UG/M3	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-127-22-IA	H-127-22-OA	H-127-22-SS	H-128-22-IAA	H-128-22-IAB
Sample ID		224121-IA-127	224121-OA-127	224121-SS-127	224121-IAA-128	224121-IAB-128
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/05/22	02/05/22	02/05/22	02/07/22	02/07/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.15 U	0.15 U	6.7	0.15 U	0.15 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.47 J	0.47 J	0.85 U	0.55 J	0.58 J
1,1-Dichloroethane	UG/M3	0.12 U	0.12 U	2.6	0.12 U	0.12 U
1,1-Dichloroethene	UG/M3	0.11 U	0.11 U	0.3 U	0.11 U	0.11 U
1,2,4-Trichlorobenzene	UG/M3	0.18 U	0.18 U	0.52 U	0.18 UJ	0.18 UJ
1,2,4-Trimethylbenzene	UG/M3	0.50	0.21	0.50	24	9.4
1,2-Dichlorobenzene	UG/M3	0.12 U	0.12 U	0.35 U	0.12 U	0.12 U
1,2-Dichloroethane	UG/M3	0.13 U	0.13 U	3.5	0.13 U	0.13 U
1,2-Dichloroethene (cis)	UG/M3	0.1 U	0.1 U	0.29 U	0.1 U	0.1 U
1,2-Dichloroethene (trans)	UG/M3	0.11 U	0.11 U	0.31 U	0.11 U	0.11 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.24 U	0.24 U	0.69 U	0.24 U	0.24 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.14 J	0.091 U	0.26 U	6.8	2.7
1,3-Butadiene	UG/M3	0.065 U	0.065 U	0.19 U	7.9	4.3
1,4-Dichlorobenzene	UG/M3	0.14 U	0.14 U	0.39 U	0.14 U	0.21
1,4-Dioxane	UG/M3	0.1 U	0.1 U	0.3 U	0.1 U	0.1 U
1-Propene	UG/M3	0.53 U	0.53 U	1.5 U	100 D	0.53 U
2,2,4-Trimethylpentane	UG/M3	NA	NA	NA	NA	NA
2-Hexanone	UG/M3	0.072 U	0.072 U	0.21 U	0.072 UJ	0.072 UJ
4-Ethyltoluene	UG/M3	0.16 J	0.11 U	0.3 U	7.0	2.9
4-Methyl-2-pentanone	UG/M3	0.074 U	0.074 U	0.26 J	0.073 U	0.073 U
Acetone	UG/M3	22	8.5	35	2 U	13 J
Benzene	UG/M3	0.65	0.50	0.51	39	20
Bromoethene (Vinyl Bromide)	UG/M3	NA	NA	NA	NA	NA

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Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-127-22-IA	H-127-22-OA	H-127-22-SS	H-128-22-IAA	H-128-22-IAB
Sample ID		224121-IA-127	224121-OA-127	224121-SS-127	224121-IAA-128	224121-IAB-128
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/05/22	02/05/22	02/05/22	02/07/22	02/07/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.16 U	0.16 U	0.47 U	0.16 U	0.16 U
Bromoform	UG/M3	1.6	0.25 U	0.7 U	0.25 U	0.25 U
Bromomethane	UG/M3	1.6	0.11 U	0.32 U	0.11 U	0.11 U
Carbon disulfide	UG/M3	0.1 U	0.1 U	0.50 J	0.1 U	0.1 U
Carbon tetrachloride	UG/M3	0.49	0.43	0.5 U	0.99	0.98
Chlorobenzene	UG/M3	0.11 U	0.11 U	0.31 U	0.11 U	0.11 U
Chloroethane	UG/M3	0.068 U	0.068 U	14	0.067 U	0.067 U
Chloroform	UG/M3	0.25	0.16 U	1.3	5.5	6.3
Chloromethane	UG/M3	1.1	1.0	0.52	1.2	1.2
Cyclohexane	UG/M3	0.08 U	0.08 U	0.23 U	10	7.3
Dichlorodifluoromethane	UG/M3	1.2	1.3	1.8	2.3	2.3
Ethanol	UG/M3	220 D	13	30	120 D	220 D
Ethyl acetate	UG/M3	1.1 J	0.64 UJ	3.0 J	5.7 J	5.8 J
Ethylbenzene	UG/M3	0.77	0.11 J	0.25 U	22	12
Isopropyl alcohol	UG/M3	14	9.7	34	19	31
Methyl ethyl ketone (2-Butanone)	UG/M3	1.6 J	1.1 J	11 J	5.0	3.8 J
Methyl methacrylate	UG/M3	NA	NA	NA	NA	NA
Methyl tert-butyl ether	UG/M3	0.098 U	0.098 U	0.28 U	0.097 U	0.097 U
Methylene chloride	UG/M3	0.57 U	0.57 U	1.6 U	2.3	0.91 J
Naphthalene	UG/M3	0.14 J	0.12 U	0.33 U	3.9	1.4
n-Heptane	UG/M3	0.57	0.13 J	0.70	16	8.0
n-Hexane	UG/M3	1.0 J	0.64 U	2.0 J	24	12
Styrene	UG/M3	0.19	0.079 U	0.22 U	10	8.5

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-127-22-IA	H-127-22-OA	H-127-22-SS	H-128-22-IAA	H-128-22-IAB
Sample ID		224121-IA-127	224121-OA-127	224121-SS-127	224121-IAA-128	224121-IAB-128
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/05/22	02/05/22	02/05/22	02/07/22	02/07/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	NA	NA	NA	NA	NA
Tetrachloroethene	UG/M3	0.27	0.23 J	13	0.65	0.59
Tetrahydrofuran	UG/M3	0.17 U	0.17 U	0.48 U	0.17 U	0.17 U
Toluene	UG/M3	3.2	0.77	0.78	81	45
Trichloroethene	UG/M3	0.13 U	0.13 U	0.36 U	0.13 U	0.13 U
Trichlorofluoromethane	UG/M3	1.3	1.3	1.7 J	1.7	1.6
Vinyl acetate	UG/M3	0.66 UJ	0.66 UJ	61 J	0.66 UJ	0.66 UJ
Vinyl chloride	UG/M3	0.081 U	0.081 U	0.79	0.08 U	0.08 U
m&p-Xylene	UG/M3	3.4	0.32	0.50 J	72	39
o-Xylene	UG/M3	1.0	0.12 J	0.23 J	26	14
Xylene (total)	UG/M3	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-128-22-IAB	H-128-22-OA	H-128-22-SSA	H-128-22-SSB	H-128-22-SSB
Sample ID		FD-020722-2	224121-OA-128	224121-SSA-128	224121-SSB-128	FD-020722-1
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Subslab Vapor	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/07/22	02/07/22	02/07/22	02/07/22	02/07/22
Parameter	Units	Field Duplicate (1-1)				Field Duplicate (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.15 U	0.15 U	990 D	27	26
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.52 J	0.51 J	1.6 J	0.85 U	0.57 J
1,1-Dichloroethane	UG/M3	0.12 U	0.12 U	48	1.0	0.96
1,1-Dichloroethene	UG/M3	0.11 U	0.11 U	0.3 U	0.3 U	0.11 U
1,2,4-Trichlorobenzene	UG/M3	0.18 UJ	0.18 UJ	0.52 UJ	0.52 UJ	0.18 UJ
1,2,4-Trimethylbenzene	UG/M3	9.5	0.69	0.22 U	0.22 U	0.076 U
1,2-Dichlorobenzene	UG/M3	0.12 U	0.12 U	0.35 U	0.35 U	0.12 U
1,2-Dichloroethane	UG/M3	0.13 U	0.13 U	1.2	0.79	0.95
1,2-Dichloroethene (cis)	UG/M3	0.1 U	0.1 U	0.29 U	0.29 U	0.1 U
1,2-Dichloroethene (trans)	UG/M3	0.11 U	0.11 U	0.31 U	0.31 U	0.11 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.24 U	0.24 U	0.69 U	0.69 U	0.24 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	2.8	0.20	0.26 U	0.26 U	0.091 U
1,3-Butadiene	UG/M3	4.0	0.38	1.5	3.4	3.6
1,4-Dichlorobenzene	UG/M3	0.14 U	0.14 U	0.39 U	0.39 U	0.14 U
1,4-Dioxane	UG/M3	0.1 U	0.1 U	0.3 U	0.3 U	0.1 U
1-Propene	UG/M3	0.53 U	0.53 U	1.5 U	1.5 U	0.53 U
2,2,4-Trimethylpentane	UG/M3	NA	NA	NA	NA	NA
2-Hexanone	UG/M3	0.072 UJ	0.072 UJ	0.21 UJ	0.21 UJ	0.072 UJ
4-Ethyltoluene	UG/M3	3.0	0.18	0.3 U	0.3 U	0.11 U
4-Methyl-2-pentanone	UG/M3	0.073 U	0.85	0.21 U	0.21 U	0.073 U
Acetone	UG/M3	23 J	14	87	68	47
Benzene	UG/M3	20	2.0	2.5	13	13
Bromoethene (Vinyl Bromide)	UG/M3	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-128-22-IAB	H-128-22-OA	H-128-22-SSA	H-128-22-SSB	H-128-22-SSB
Sample ID		FD-020722-2	224121-OA-128	224121-SSA-128	224121-SSB-128	FD-020722-1
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Subslab Vapor	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/07/22	02/07/22	02/07/22	02/07/22	02/07/22
Parameter	Units	Field Duplicate (1-1)				Field Duplicate (1-1)
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.16 U	0.16 U	4.2	0.47 U	0.16 U
Bromoform	UG/M3	0.25 U	0.25 U	0.7 U	0.7 U	0.25 U
Bromomethane	UG/M3	0.11 U	0.11 U	0.32 U	0.32 U	0.30
Carbon disulfide	UG/M3	0.1 U	0.1 U	3.9	6.5	6.4
Carbon tetrachloride	UG/M3	1.1	0.47	0.5 U	0.78	0.66
Chlorobenzene	UG/M3	0.11 U	0.11 U	0.31 U	0.31 U	0.11 U
Chloroethane	UG/M3	0.067 U	0.067 U	10	18	17
Chloroform	UG/M3	6.4	0.16 U	180	4.9	4.9
Chloromethane	UG/M3	1.1	1.2	0.16 U	1.0 J	1.9 J
Cyclohexane	UG/M3	7.3	0.38	1.6	6.1	6.0
Dichlorodifluoromethane	UG/M3	2.3	2.3	21	3.7	3.6
Ethanol	UG/M3	220 D	34	22	45	47
Ethyl acetate	UG/M3	6.0 J	6.1 J	1.8 UJ	1.8 UJ	0.64 UJ
Ethylbenzene	UG/M3	12	7.7	0.30 J	0.47	0.49
Isopropyl alcohol	UG/M3	29	3.5	2.7 J	5.0 J	5.1
Methyl ethyl ketone (2-Butanone)	UG/M3	3.7 J	6.5	5.7 J	4.1 J	4.6
Methyl methacrylate	UG/M3	NA	NA	NA	NA	NA
Methyl tert-butyl ether	UG/M3	0.097 U	0.097 U	0.28 U	0.28 U	0.097 U
Methylene chloride	UG/M3	0.98 J	0.90 J	1.6 U	1.6 U	0.92 J
Naphthalene	UG/M3	1.3	0.20	0.33 U	0.33 U	0.12 U
n-Heptane	UG/M3	7.9	0.86	1.7	4.7	4.6
n-Hexane	UG/M3	12	1.0 J	1.8 U	11 J	10
Styrene	UG/M3	8.4	0.59	0.22 U	0.22 U	0.078 U

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-128-22-IAB	H-128-22-OA	H-128-22-SSA	H-128-22-SSB	H-128-22-SSB
Sample ID		FD-020722-2	224121-OA-128	224121-SSA-128	224121-SSB-128	FD-020722-1
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Subslab Vapor	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/07/22	02/07/22	02/07/22	02/07/22	02/07/22
Parameter	Units	Field Duplicate (1-1)				Field Duplicate (1-1)
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	NA	NA	NA	NA	NA
Tetrachloroethene	UG/M3	0.74	0.58	9.7	0.60 J	0.60
Tetrahydrofuran	UG/M3	0.17 U	0.17 U	0.48 U	0.48 U	0.17 U
Toluene	UG/M3	44	13	2.7	7.0	6.7
Trichloroethene	UG/M3	0.13 U	0.13 U	4.3	0.48 J	0.42
Trichlorofluoromethane	UG/M3	1.5	1.3	29	2.9	2.8
Vinyl acetate	UG/M3	0.66 UJ	0.66 UJ	1.9 UJ	1.9 UJ	0.66 UJ
Vinyl chloride	UG/M3	0.08 U	0.08 U	0.63	1.5	1.4
m&p-Xylene	UG/M3	39	30	0.70 J	0.63 J	0.64
o-Xylene	UG/M3	14	6.7	0.32 J	0.32 J	0.38
Xylene (total)	UG/M3	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-129-22-IAA	H-129-22-IAB	H-129-22-IAC	H-129-22-IAD	H-129-22-OA
Sample ID		224121-IAA-129	224121-IAB-129	224121-IAC-129	224121-IAD-129	224121-OA-129
Matrix		Indoor Air	Indoor Air	Indoor Air	Indoor Air	Outdoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/17/22	02/17/22	02/17/22	02/17/22	02/17/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.46 J	0.46 J	0.46 J	0.46 J	0.46 J
1,1-Dichloroethane	UG/M3	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,1-Dichloroethene	UG/M3	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
1,2,4-Trichlorobenzene	UG/M3	0.45 U	0.30 U	0.22 U	0.22 U	0.11 U
1,2,4-Trimethylbenzene	UG/M3	0.98	2.0	2.0	2.9	0.44 J
1,2-Dichlorobenzene	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2-Dichloroethane	UG/M3	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
1,2-Dichloroethene (cis)	UG/M3	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U
1,2-Dichloroethene (trans)	UG/M3	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.29 J	0.639 J	0.639 J	0.98	0.12 U
1,3-Butadiene	UG/M3	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
1,4-Dichlorobenzene	UG/M3	0.18 U	0.18 U	0.24 U	0.24 U	0.12 U
1,4-Dioxane	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1-Propene	UG/M3	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U
2,2,4-Trimethylpentane	UG/M3	0.065 U	8.9	0.065 U	0.065 U	1.4
2-Hexanone	UG/M3	0.37 J	0.33 J	0.086 U	0.41 J	0.12 J
4-Ethyltoluene	UG/M3	0.541 J	0.737 J	0.639 J	0.98	0.25 J
4-Methyl-2-pentanone	UG/M3	0.070 U	0.37 J	0.070 U	0.070 U	0.16 J
Acetone	UG/M3	521.4 J	2,990 DJ	4,580 DJ	12,500 DJ	25.7
Benzene	UG/M3	1.3	0.061 U	0.061 U	0.061 U	0.607 J
Bromoethene (Vinyl Bromide)	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-129-22-IAA	H-129-22-IAB	H-129-22-IAC	H-129-22-IAD	H-129-22-OA
Sample ID		224121-IAA-129	224121-IAB-129	224121-IAC-129	224121-IAD-129	224121-OA-129
Matrix		Indoor Air	Indoor Air	Indoor Air	Indoor Air	Outdoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/17/22	02/17/22	02/17/22	02/17/22	02/17/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Bromoform	UG/M3	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Bromomethane	UG/M3	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon disulfide	UG/M3	0.12 U	0.093 U	0.19 U	0.22 U	0.093 U
Carbon tetrachloride	UG/M3	0.38 J	0.44 J	0.13 U	0.38 J	0.44 J
Chlorobenzene	UG/M3	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U
Chloroethane	UG/M3	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Chloroform	UG/M3	0.15 J	0.20 J	0.488 J	0.15 J	0.098 J
Chloromethane	UG/M3	1.22 J	1.14 J	1.38 J	1.01 J	1.07 J
Cyclohexane	UG/M3	12	21	12	29	0.482 J
Dichlorodifluoromethane	UG/M3	2.0	2.0	2.0	2.0	2.0
Ethanol	UG/M3	47.1	222 DJ	1,240 D	70.5	14
Ethyl acetate	UG/M3	28	47.6	3.21 J	0.649 J	0.18 U
Ethylbenzene	UG/M3	14	14	1.3	6.9	0.478 J
Isopropyl alcohol	UG/M3	5.9	18	92.4	22	3.023 J
Methyl ethyl ketone (2-Butanone)	UG/M3	5.81 J	0.14 U	0.14 U	0.14 U	1.06 J
Methyl methacrylate	UG/M3	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U
Methyl tert-butyl ether	UG/M3	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U
Methylene chloride	UG/M3	2.1	9.7	1.3 J	1.5 J	0.73 J
Naphthalene	UG/M3	0.26 U	0.37 U	0.31 U	0.37 U	0.10 U
n-Heptane	UG/M3	69.3	668 DJ	992 D	2,580 D	4.5
n-Hexane	UG/M3	33	525 DJ	754 D	1,840 D	4.9
Styrene	UG/M3	0.426 J	0.85	0.511 J	2.1	0.064 U

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-129-22-IAA	H-129-22-IAB	H-129-22-IAC	H-129-22-IAD	H-129-22-OA
Sample ID		224121-IAA-129	224121-IAB-129	224121-IAC-129	224121-IAD-129	224121-OA-129
Matrix		Indoor Air	Indoor Air	Indoor Air	Indoor Air	Outdoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/17/22	02/17/22	02/17/22	02/17/22	02/17/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	0.303 J	0.97 J	1.33 J	0.97 J	0.15 J
Tetrachloroethene	UG/M3	5.4	6.1	0.882 J	0.746 J	0.61 J
Tetrahydrofuran	UG/M3	0.295 J	66.1	0.086 U	0.086 U	0.12 J
Toluene	UG/M3	103	161	55.8	305	2.6
Trichloroethene	UG/M3	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Trichlorofluoromethane	UG/M3	1.01 J	1.01 J	1.01 J	1.01 J	1.01 J
Vinyl acetate	UG/M3	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Vinyl chloride	UG/M3	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U
m&p-Xylene	UG/M3	9.1	12	4.8	25	1.48 J
o-Xylene	UG/M3	2.6	3.9	1.3	6.1	0.478 J
Xylene (total)	UG/M3	11	16	6.1	31	1.95 J

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-130-22-IAA	H-130-22-IAB	H-130-22-OA	H-130-22-SSA	H-130-22-SSB
Sample ID		224121-IAA-130	224121-IAB-130	224121-OA-130	224121-SSA-130	224121-SSB-130
Matrix		Indoor Air	Indoor Air	Outdoor Air	Subslab Vapor	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/22/22	02/22/22	02/22/22	02/22/22	02/22/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.093 U	0.093 U	0.093 U	19	1.6
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.46 J	0.38 J	0.38 J	0.38 J	0.46 J
1,1-Dichloroethane	UG/M3	0.10 U	0.10 U	0.10 U	2.4	0.16 J
1,1-Dichloroethene	UG/M3	0.095 U	0.095 U	0.12 J	0.095 U	0.095 U
1,2,4-Trichlorobenzene	UG/M3	0.15 U	0.15 U	0.11 U	0.15 U	0.11 U
1,2,4-Trimethylbenzene	UG/M3	1.5	0.98	0.492 J	2.5	1.5
1,2-Dichlorobenzene	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2-Dichloroethane	UG/M3	0.11 U	0.24 J	0.11 U	1.6	0.11 U
1,2-Dichloroethene (cis)	UG/M3	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U
1,2-Dichloroethene (trans)	UG/M3	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.492 J	0.39 J	0.12 U	0.688 J	0.44 J
1,3-Butadiene	UG/M3	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
1,4-Dichlorobenzene	UG/M3	0.18 U	0.24 U	0.48 U	0.12 U	0.12 U
1,4-Dioxane	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1-Propene	UG/M3	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U
2,2,4-Trimethylpentane	UG/M3	1.4	1.4	0.93	4.2	0.065 U
2-Hexanone	UG/M3	0.16 J	0.16 J	0.086 U	0.086 U	0.086 U
4-Ethyltoluene	UG/M3	0.44 J	0.541 J	0.29 J	0.59 J	0.639 J
4-Methyl-2-pentanone	UG/M3	1.07 J	2.9	0.86 J	1.43 J	0.070 U
Acetone	UG/M3	35.9	43.9	21	201	0.14 U
Benzene	UG/M3	2.9	1.9	1.3	1.3	2.9
Bromoethene (Vinyl Bromide)	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-130-22-IAA	H-130-22-IAB	H-130-22-OA	H-130-22-SSA	H-130-22-SSB
Sample ID		224121-IAA-130	224121-IAB-130	224121-OA-130	224121-SSA-130	224121-SSB-130
Matrix		Indoor Air	Indoor Air	Outdoor Air	Subslab Vapor	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/22/22	02/22/22	02/22/22	02/22/22	02/22/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Bromoform	UG/M3	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Bromomethane	UG/M3	0.13 U	0.27 J	0.13 U	0.427 J	0.19 J
Carbon disulfide	UG/M3	0.25 U	0.872 U	0.841 U	2.5	1.09 U
Carbon tetrachloride	UG/M3	0.38 J	0.38 J	0.38 J	0.31 J	0.38 J
Chlorobenzene	UG/M3	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U
Chloroethane	UG/M3	0.12 U	0.12 U	0.12 U	27.7	3.826 J
Chloroform	UG/M3	0.24 J	0.15 J	0.15 J	2.0	0.098 U
Chloromethane	UG/M3	1.2 J	1.2 J	0.888 J	0.991 J	1.3 J
Cyclohexane	UG/M3	0.482 J	0.551 J	0.447 J	1.7	0.083 U
Dichlorodifluoromethane	UG/M3	2.0	2.0	2.0	2.0	2.0
Ethanol	UG/M3	509.7 J	339 J	38.8	71.2	109
Ethyl acetate	UG/M3	30	6.27 J	1.41 J	3.32 J	7.099 J
Ethylbenzene	UG/M3	0.87	0.825 J	0.564 J	1.3	2.2
Isopropyl alcohol	UG/M3	6.6	9.3	11	7.6	0.19 U
Methyl ethyl ketone (2-Butanone)	UG/M3	1.83 J	1.83 J	1.62 J	12	0.14 U
Methyl methacrylate	UG/M3	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U
Methyl tert-butyl ether	UG/M3	0.036 U	0.036 U	0.036 U	0.505 J	0.036 U
Methylene chloride	UG/M3	0.90 J	1.2 J	0.87 J	2.1	0.80 J
Naphthalene	UG/M3	0.26 U	0.37 U	0.16 U	0.944 U	0.21 U
n-Heptane	UG/M3	1.2	1.2	0.82	7.4	107
n-Hexane	UG/M3	1.4	1.4	1.1	7.4	158
Styrene	UG/M3	0.724 J	0.724 J	0.13 J	0.064 U	0.34 J

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-130-22-IAA	H-130-22-IAB	H-130-22-OA	H-130-22-SSA	H-130-22-SSB
Sample ID		224121-IAA-130	224121-IAB-130	224121-OA-130	224121-SSA-130	224121-SSB-130
Matrix		Indoor Air	Indoor Air	Outdoor Air	Subslab Vapor	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/22/22	02/22/22	02/22/22	02/22/22	02/22/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	0.27 J	0.697 J	0.364 J	1.36 J	0.455 J
Tetrachloroethene	UG/M3	2.0	2.0	2.0	2.0	2.0
Tetrahydrofuran	UG/M3	0.086 U	0.24 J	0.18 J	0.442 J	2.7
Toluene	UG/M3	15	15	10	7.2	14
Trichloroethene	UG/M3	0.12 U	0.32 J	0.12 U	0.12 U	0.12 U
Trichlorofluoromethane	UG/M3	1.1	1.1	1.1	1.1	1.1
Vinyl acetate	UG/M3	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Vinyl chloride	UG/M3	0.074 U	0.074 U	0.074 U	1.8	0.074 U
m&p-Xylene	UG/M3	3.0	2.6	1.61 J	4.3	3.5
o-Xylene	UG/M3	0.87	0.87	0.651 J	2.2	1.3
Xylene (total)	UG/M3	3.9	3.5	2.26 J	6.5	4.8

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-131-22-IA	H-131-22-SS	H-132-22-IA	H-132-22-OA	H-132-22-SS
Sample ID		224121-IA-131	224121-SS-131	224121-IA-132	224121-OA-132	224121-SS-132
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/22/22	02/22/22	02/22/22	02/22/22	02/22/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.38 J	0.46 J	0.38 J	0.38 J	0.46 J
1,1-Dichloroethane	UG/M3	0.10 U	3.6	0.10 U	0.10 U	3.2
1,1-Dichloroethene	UG/M3	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
1,2,4-Trichlorobenzene	UG/M3	0.11 U	0.52 U	0.11 U	0.11 U	0.15 U
1,2,4-Trimethylbenzene	UG/M3	11	1.5	0.492 J	0.25 J	0.639 J
1,2-Dichlorobenzene	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2-Dichloroethane	UG/M3	0.16 J	2.8	0.11 U	0.11 U	2.8
1,2-Dichloroethene (cis)	UG/M3	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U
1,2-Dichloroethene (trans)	UG/M3	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	2.9	0.39 J	0.12 U	0.12 U	0.20 J
1,3-Butadiene	UG/M3	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
1,4-Dichlorobenzene	UG/M3	0.18 U	0.12 U	0.18 U	0.18 U	0.12 U
1,4-Dioxane	UG/M3	0.14 U	0.32 J	0.14 U	0.14 U	0.14 U
1-Propene	UG/M3	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U
2,2,4-Trimethylpentane	UG/M3	0.654 J	4.7	0.514 J	0.42 J	6.1
2-Hexanone	UG/M3	0.086 U	1.02 J	0.086 U	0.086 U	0.942 J
4-Ethyltoluene	UG/M3	3.4	0.639 J	0.34 J	0.25 J	0.44 J
4-Methyl-2-pentanone	UG/M3	0.20 J	3.3	0.25 J	0.070 U	0.070 U
Acetone	UG/M3	10	119	16	11	52.3
Benzene	UG/M3	0.64	1.3	0.64	1.3	1.3
Bromoethene (Vinyl Bromide)	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-131-22-IA	H-131-22-SS	H-132-22-IA	H-132-22-OA	H-132-22-SS
Sample ID		224121-IA-131	224121-SS-131	224121-IA-132	224121-OA-132	224121-SS-132
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/22/22	02/22/22	02/22/22	02/22/22	02/22/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Bromoform	UG/M3	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Bromomethane	UG/M3	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon disulfide	UG/M3	0.405 J	2.8	0.311 J	0.467 J	1.28 J
Carbon tetrachloride	UG/M3	0.44 J	0.38 J	0.50 J	0.38 J	0.38 J
Chlorobenzene	UG/M3	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U
Chloroethane	UG/M3	0.12 U	43.8	0.12 U	0.12 U	49.3
Chloroform	UG/M3	0.20 J	2.0	0.34 J	0.098 J	3.4
Chloromethane	UG/M3	0.971 J	0.909 J	1.01 J	0.929 J	0.764 J
Cyclohexane	UG/M3	0.31 J	0.083 U	0.083 U	0.083 U	0.083 U
Dichlorodifluoromethane	UG/M3	2.0	2.0	2.0	2.0	2.0
Ethanol	UG/M3	13	26.6	72.7	10	32.8
Ethyl acetate	UG/M3	0.396 J	2.99 J	0.36 J	0.22 J	0.505 J
Ethylbenzene	UG/M3	0.782 J	0.695 J	0.478 J	0.30 J	0.521 J
Isopropyl alcohol	UG/M3	3.859 J	7.1	3.81 J	2.728 J	0.19 U
Methyl ethyl ketone (2-Butanone)	UG/M3	1.24 J	15	1.18 J	1.36 J	9.7
Methyl methacrylate	UG/M3	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U
Methyl tert-butyl ether	UG/M3	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U
Methylene chloride	UG/M3	0.87 J	1.1 J	0.80 J	0.59 J	0.87 J
Naphthalene	UG/M3	0.21 U	0.26 U	0.31 U	0.16 U	0.21 U
n-Heptane	UG/M3	1.6	4.1	0.82	0.656 J	3.7
n-Hexane	UG/M3	0.70	6.3	0.67 J	0.388 J	4.6
Styrene	UG/M3	0.13 J	0.064 U	0.17 J	0.064 U	0.17 J

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-131-22-IA	H-131-22-SS	H-132-22-IA	H-132-22-OA	H-132-22-SS
Sample ID		224121-IA-131	224121-SS-131	224121-IA-132	224121-OA-132	224121-SS-132
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/22/22	02/22/22	02/22/22	02/22/22	02/22/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	0.12 U	2.97 J	0.12 U	0.12 U	0.12 U
Tetrachloroethene	UG/M3	0.41 J	2.0	0.34 J	0.20 J	0.54 J
Tetrahydrofuran	UG/M3	0.59	2.4	0.12 J	0.086 U	0.413 J
Toluene	UG/M3	3.4	5.7	3.0	2.6	3.4
Trichloroethene	UG/M3	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Trichlorofluoromethane	UG/M3	1.07 J	1.07 J	0.955 J	0.899 J	0.899 J
Vinyl acetate	UG/M3	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Vinyl chloride	UG/M3	0.074 U	2.6	0.074 U	0.074 U	3.8
m&p-Xylene	UG/M3	3.0	2.2	1.56 J	0.868 J	1.7
o-Xylene	UG/M3	1.3	0.825 J	0.521 J	0.30 J	0.564 J
Xylene (total)	UG/M3	4.3	3.0	2.08 J	1.17 J	2.34 J

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-133-22-IA	H-133-22-SS	H-134-22-IA	H-134-22-SS	H-135-22-IA
Sample ID		224121-IA-133	224121-SS-133	224121-IA-134	224121-SS-134	224121-IA-135
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/22/22	02/22/22	02/22/22	02/22/22	02/24/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.38 J	0.46 J	0.46 J	0.46 J	0.38 J
1,1-Dichloroethane	UG/M3	0.10 U	4.0	0.10 U	0.81	0.10 U
1,1-Dichloroethene	UG/M3	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
1,2,4-Trichlorobenzene	UG/M3	0.22 U	0.11 U	0.11 U	0.15 U	0.11 U
1,2,4-Trimethylbenzene	UG/M3	2.5	0.737 J	5.4	0.492 J	2.0
1,2-Dichlorobenzene	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2-Dichloroethane	UG/M3	0.11 U	3.2	0.11 U	0.769 J	0.11 U
1,2-Dichloroethene (cis)	UG/M3	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U
1,2-Dichloroethene (trans)	UG/M3	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.59 J	0.25 J	2.0	0.12 U	0.59 J
1,3-Butadiene	UG/M3	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
1,4-Dichlorobenzene	UG/M3	0.18 U	0.11 U	0.18 U	0.11 U	0.11 U
1,4-Dioxane	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1-Propene	UG/M3	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U
2,2,4-Trimethylpentane	UG/M3	0.607 J	7.0	4.2	1.9	0.93
2-Hexanone	UG/M3	0.086 U	0.983 J	0.533 J	0.655 J	0.086 U
4-Ethyltoluene	UG/M3	0.98	0.44 J	2.0	0.25 J	1.5
4-Methyl-2-pentanone	UG/M3	0.070 U	0.070 U	7.4	0.070 U	0.29 J
Acetone	UG/M3	219	23.8	29.2	47.7	17
Benzene	UG/M3	0.607 J	0.96	0.96	0.319 J	0.64
Bromoethene (Vinyl Bromide)	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-133-22-IA	H-133-22-SS	H-134-22-IA	H-134-22-SS	H-135-22-IA
Sample ID		224121-IA-133	224121-SS-133	224121-IA-134	224121-SS-134	224121-IA-135
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/22/22	02/22/22	02/22/22	02/22/22	02/24/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Bromoform	UG/M3	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Bromomethane	UG/M3	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon disulfide	UG/M3	0.311 J	0.685 J	0.19 J	4.7	0.561 J
Carbon tetrachloride	UG/M3	0.38 J	0.31 J	0.38 J	0.38 J	0.38 J
Chlorobenzene	UG/M3	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U
Chloroethane	UG/M3	0.12 U	56.7	0.12 U	16	0.12 U
Chloroform	UG/M3	1.5	2.9	0.537 J	0.98	0.39 J
Chloromethane	UG/M3	0.929 J	0.083 U	0.909 J	0.083 U	1.01 J
Cyclohexane	UG/M3	0.083 U	0.083 U	0.69	0.083 U	0.083 U
Dichlorodifluoromethane	UG/M3	2.0	2.0	2.0	2.0	2.0
Ethanol	UG/M3	30	21.1	79.3	24.3	63.9
Ethyl acetate	UG/M3	0.396 J	6.054 J	1.98 J	1.87 J	0.973 J
Ethylbenzene	UG/M3	1.7	1.3	1.3	0.22 J	0.782 J
Isopropyl alcohol	UG/M3	0.19 U	0.19 U	5.2	0.19 U	3.933 J
Methyl ethyl ketone (2-Butanone)	UG/M3	8.8	7.7	2.8 J	6.2	3.362 J
Methyl methacrylate	UG/M3	0.573 J	0.070 U	0.070 U	0.070 U	0.82
Methyl tert-butyl ether	UG/M3	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U
Methylene chloride	UG/M3	2.8	0.90 J	0.66 J	0.63 J	1.0 J
Naphthalene	UG/M3	0.21 U	0.21 U	3.7	0.21 U	0.16 U
n-Heptane	UG/M3	1.2	2.9	4.1	1.2	1.2
n-Hexane	UG/M3	0.067 U	3.9	2.5	1.8	1.4
Styrene	UG/M3	0.596 J	0.85	0.13 J	0.064 U	0.767 J

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-133-22-IA	H-133-22-SS	H-134-22-IA	H-134-22-SS	H-135-22-IA
Sample ID		224121-IA-133	224121-SS-133	224121-IA-134	224121-SS-134	224121-IA-135
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/22/22	02/22/22	02/22/22	02/22/22	02/24/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	1.64 J	2.24 J	1.82 J	0.12 U	0.728 J
Tetrachloroethene	UG/M3	0.27 J	2.7	0.20 J	6.8	0.746 J
Tetrahydrofuran	UG/M3	16	1.5	4.4	0.59	1.2
Toluene	UG/M3	3.4	4.5	6.8	1.1	5.7
Trichloroethene	UG/M3	0.16 J	0.537 J	0.12 U	0.21 J	0.12 U
Trichlorofluoromethane	UG/M3	0.899 J	1.01 J	0.955 J	1.01 J	0.899 J
Vinyl acetate	UG/M3	0.053 U	3.627 J	0.053 U	0.053 U	0.053 U
Vinyl chloride	UG/M3	0.074 U	4.1	0.074 U	1.3	0.074 U
m&p-Xylene	UG/M3	3.0	5.6	3.9	0.868 J	2.6
o-Xylene	UG/M3	1.3	2.2	1.3	0.39 J	1.3
Xylene (total)	UG/M3	4.3	7.8	5.2	1.26 J	3.9

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-135-22-SS	H-136-22-IA	H-136-22-SS	H-137-22-IA	H-137-22-SS
Sample ID		224121-SS-135	224121-IA-136	224121-SS-136	224121-IA-137	224121-SS-137
Matrix		Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/24/22	02/24/22	02/24/22	02/24/22	02/24/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	11	0.093 U	0.093 U	0.093 U	0.093 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.54 J	0.38 J	0.38 J	0.38 J	0.46 J
1,1-Dichloroethane	UG/M3	1.2	0.10 U	4.9	0.10 U	0.405 J
1,1-Dichloroethene	UG/M3	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
1,2,4-Trichlorobenzene	UG/M3	0.11 U	0.11 U	0.22 U	0.11 U	0.11 U
1,2,4-Trimethylbenzene	UG/M3	0.59 J	0.34 J	0.39 J	0.34 J	0.25 J
1,2-Dichlorobenzene	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2-Dichloroethane	UG/M3	1.6	0.12 J	4.9	0.11 U	0.36 J
1,2-Dichloroethene (cis)	UG/M3	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U
1,2-Dichloroethene (trans)	UG/M3	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.15 J	0.12 U	0.12 U	0.12 U	0.12 U
1,3-Butadiene	UG/M3	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
1,4-Dichlorobenzene	UG/M3	0.11 U	0.11 U	0.11 U	0.12 U	0.11 U
1,4-Dioxane	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1-Propene	UG/M3	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U
2,2,4-Trimethylpentane	UG/M3	1.4	0.654 J	9.3	0.654 J	0.93
2-Hexanone	UG/M3	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U
4-Ethyltoluene	UG/M3	0.16 U	0.20 J	0.16 U	0.16 U	0.20 J
4-Methyl-2-pentanone	UG/M3	0.070 U	0.655 J	0.070 U	0.86 J	0.070 U
Acetone	UG/M3	61	16	241.1 J	11	32.3
Benzene	UG/M3	1.3	0.64	1.6	0.64	0.383 J
Bromoethene (Vinyl Bromide)	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

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Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-135-22-SS	H-136-22-IA	H-136-22-SS	H-137-22-IA	H-137-22-SS
Sample ID		224121-SS-135	224121-IA-136	224121-SS-136	224121-IA-137	224121-SS-137
Matrix		Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/24/22	02/24/22	02/24/22	02/24/22	02/24/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Bromoform	UG/M3	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Bromomethane	UG/M3	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon disulfide	UG/M3	2.8	0.28 J	12	0.25 J	0.81 J
Carbon tetrachloride	UG/M3	0.38 J	0.44 J	0.44 J	0.38 J	0.31 J
Chlorobenzene	UG/M3	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U
Chloroethane	UG/M3	14	0.12 U	87.3	0.12 U	9.2
Chloroform	UG/M3	95.7	0.488 J	3.4	0.15 J	0.44 J
Chloromethane	UG/M3	0.083 U	0.083 U	0.083 U	0.867 J	0.083 U
Cyclohexane	UG/M3	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Dichlorodifluoromethane	UG/M3	2.0	2.0	2.0	2.0	2.0
Ethanol	UG/M3	34.1	72.5	92.5	31.7	25.2
Ethyl acetate	UG/M3	6.018 J	3.5 J	0.721 J	0.937 J	1.48 J
Ethylbenzene	UG/M3	0.39 J	0.608 J	0.35 J	0.521 J	0.17 J
Isopropyl alcohol	UG/M3	0.19 U	0.19 U	0.19 U	2.925 J	0.19 U
Methyl ethyl ketone (2-Butanone)	UG/M3	9.1	1.65 J	17	1.0 J	2.68 J
Methyl methacrylate	UG/M3	0.070 U	0.82	0.070 U	0.696 J	0.070 U
Methyl tert-butyl ether	UG/M3	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U
Methylene chloride	UG/M3	0.49 U	0.80 J	0.73 J	0.80 J	0.56 J
Naphthalene	UG/M3	0.681 U	0.16 U	0.10 U	0.10 U	0.10 U
n-Heptane	UG/M3	1.6	1.2	3.7	2.5	2.5
n-Hexane	UG/M3	0.067 U	1.1	9.2	0.70	1.1
Styrene	UG/M3	0.064 U	0.21 J	0.13 J	0.17 J	0.064 U

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

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Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-135-22-SS	H-136-22-IA	H-136-22-SS	H-137-22-IA	H-137-22-SS
Sample ID		224121-SS-135	224121-IA-136	224121-SS-136	224121-IA-137	224121-SS-137
Matrix		Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/24/22	02/24/22	02/24/22	02/24/22	02/24/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	0.12 U	1.52 J	2.49 J	0.12 U	2.64 J
Tetrachloroethene	UG/M3	142	2.7	1.4	0.41 J	0.54 J
Tetrahydrofuran	UG/M3	0.88	0.59	2.4	0.59	0.59
Toluene	UG/M3	3.0	5.7	8.3	4.5	1.1
Trichloroethene	UG/M3	196	0.12 U	0.12 U	0.12 U	0.12 U
Trichlorofluoromethane	UG/M3	1.07 J	1.1	1.1	1.1	1.1
Vinyl acetate	UG/M3	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Vinyl chloride	UG/M3	1.0	0.074 U	7.4	0.074 U	0.77
m&p-Xylene	UG/M3	1.7	2.2	1.3 J	1.65 J	0.564 J
o-Xylene	UG/M3	0.608 J	0.738 J	0.695 J	0.564 J	0.22 J
Xylene (total)	UG/M3	2.34 J	2.6	2.0 J	2.21 J	0.782 J

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-138-22-IA	H-138-22-SS	H-139-22-IA	H-139-22-SS	H-140-22-IAA
Sample ID		224121-IA-138	224121-SS-138	224121-IA-139	224121-SS-139	224121-IAA-140
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/24/22	02/24/22	02/24/22	02/24/22	02/26/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.093 U	0.093 U	1.1	0.093 U	0.093 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.46 J	0.38 J	1.5	0.69 J	0.46 J
1,1-Dichloroethane	UG/M3	0.10 U	5.7	0.10 U	4.5	0.10 U
1,1-Dichloroethene	UG/M3	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
1,2,4-Trichlorobenzene	UG/M3	0.11 U	0.11 U	0.11 U	0.22 U	0.11 U
1,2,4-Trimethylbenzene	UG/M3	0.29 J	0.25 J	2.0	0.29 J	0.885 J
1,2-Dichlorobenzene	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2-Dichloroethane	UG/M3	0.11 U	4.9	0.769 J	4.5	0.20 J
1,2-Dichloroethene (cis)	UG/M3	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U
1,2-Dichloroethene (trans)	UG/M3	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.12 U	0.12 U	0.688 J	0.15 J	0.29 J
1,3-Butadiene	UG/M3	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
1,4-Dichlorobenzene	UG/M3	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
1,4-Dioxane	UG/M3	0.14 U	0.14 U	0.14 U	1.59 J	0.14 U
1-Propene	UG/M3	0.065 U	7.246 J	0.065 U	0.065 U	0.065 U
2,2,4-Trimethylpentane	UG/M3	0.701 J	14	0.654 J	4.7	0.93
2-Hexanone	UG/M3	0.086 U	0.086 U	0.086 U	0.901 J	0.086 U
4-Ethyltoluene	UG/M3	0.20 J	0.16 U	0.688 J	0.16 U	0.34 J
4-Methyl-2-pentanone	UG/M3	0.983 J	0.070 U	0.451 J	0.983 J	0.070 U
Acetone	UG/M3	10	194	24.7	52.5	89.6
Benzene	UG/M3	0.64	1.6	1.3	1.6	0.96
Bromoethene (Vinyl Bromide)	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-138-22-IA	H-138-22-SS	H-139-22-IA	H-139-22-SS	H-140-22-IAA
Sample ID		224121-IA-138	224121-SS-138	224121-IA-139	224121-SS-139	224121-IAA-140
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/24/22	02/24/22	02/24/22	02/24/22	02/26/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Bromoform	UG/M3	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Bromomethane	UG/M3	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon disulfide	UG/M3	0.25 J	19	0.19 J	2.5 J	0.22 U
Carbon tetrachloride	UG/M3	0.44 J	0.31 J	0.38 J	0.25 J	0.38 J
Chlorobenzene	UG/M3	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U
Chloroethane	UG/M3	0.12 U	116	0.12 U	73.1	0.12 U
Chloroform	UG/M3	0.15 J	3.4	0.635 J	2.9	0.20 J
Chloromethane	UG/M3	0.909 J	1.03 J	1.03 J	0.083 U	0.991 J
Cyclohexane	UG/M3	0.083 U	0.083 U	0.083 U	0.083 U	0.654 J
Dichlorodifluoromethane	UG/M3	2.0	2.0	2.5	2.0	2.0
Ethanol	UG/M3	23.2	50.7	103	29.6	22.8
Ethyl acetate	UG/M3	1.01 J	1.62 J	2.77 J	0.973 J	0.18 U
Ethylbenzene	UG/M3	0.651 J	0.39 J	6.5	0.478 J	0.782 J
Isopropyl alcohol	UG/M3	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Methyl ethyl ketone (2-Butanone)	UG/M3	1.0 J	26	26	13	1.65 J
Methyl methacrylate	UG/M3	0.655 J	0.070 U	0.573 J	0.070 U	0.29 J
Methyl tert-butyl ether	UG/M3	0.036 U	0.036 U	0.036 U	0.036 J	0.036 U
Methylene chloride	UG/M3	0.87 J	1.0 J	2.1	0.76 J	14
Naphthalene	UG/M3	0.10 U	0.10 U	0.21 U	0.31 U	0.10 U
n-Heptane	UG/M3	1.6	4.9	1.2	4.9	2.5
n-Hexane	UG/M3	1.1	11	0.067 U	6.0	1.4
Styrene	UG/M3	0.13 J	0.13 J	0.38 J	0.085 J	29

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-138-22-IA	H-138-22-SS	H-139-22-IA	H-139-22-SS	H-140-22-IAA
Sample ID		224121-IA-138	224121-SS-138	224121-IA-139	224121-SS-139	224121-IAA-140
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/24/22	02/24/22	02/24/22	02/24/22	02/26/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	0.12 U	3.3	0.303 J	1.33 J	0.12 U
Tetrachloroethene	UG/M3	0.47 J	0.27 J	0.47 J	25	6.1
Tetrahydrofuran	UG/M3	0.295 J	8.6	1.8	0.59	0.56 J
Toluene	UG/M3	4.1	2.6	16	3.4	3.8
Trichloroethene	UG/M3	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Trichlorofluoromethane	UG/M3	1.1	1.01 J	1.1	1.01 J	2.8
Vinyl acetate	UG/M3	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Vinyl chloride	UG/M3	0.074 U	10	0.074 U	5.4	0.074 U
m&p-Xylene	UG/M3	2.2	1.04 J	23	1.69 J	2.6
o-Xylene	UG/M3	0.825 J	0.521 J	7.4	0.87	0.87
Xylene (total)	UG/M3	3.0	1.56 J	31	2.6	3.5

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 UG/M3 - Microgram per cubic meter.

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-140-22-IAB	H-140-22-IAC	H-140-22-OA	H-140-22-SSA	H-140-22-SSB
Sample ID		224121-IAB-140	224121-IAC-140	224121-OA-140	224121-SSA-140	224121-SSB-140
Matrix		Indoor Air	Indoor Air	Outdoor Air	Subslab Vapor	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/22	02/26/22	02/26/22	02/26/22	02/26/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.38 J	0.38 J	0.38 J	0.46 J	0.38 J
1,1-Dichloroethane	UG/M3	0.10 U	0.10 U	0.10 U	0.10 U	2.4
1,1-Dichloroethene	UG/M3	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
1,2,4-Trichlorobenzene	UG/M3	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
1,2,4-Trimethylbenzene	UG/M3	0.59 J	0.541 J	0.34 J	3.4	3.9
1,2-Dichlorobenzene	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2-Dichloroethane	UG/M3	0.11 U	0.11 U	0.11 U	0.648 J	2.0
1,2-Dichloroethene (cis)	UG/M3	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U
1,2-Dichloroethene (trans)	UG/M3	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.15 J	0.15 J	0.12 U	0.885 J	1.5
1,3-Butadiene	UG/M3	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
1,4-Dichlorobenzene	UG/M3	0.11 U	0.11 U	0.11 U	0.902 U	0.11 U
1,4-Dioxane	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	1.87 J
1-Propene	UG/M3	0.065 U	0.065 U	0.065 U	0.065 U	1.979 U
2,2,4-Trimethylpentane	UG/M3	0.841 J	0.794 J	0.654 J	0.065 U	4.7
2-Hexanone	UG/M3	0.086 U	0.37 J	0.086 U	0.778 J	1.52 J
4-Ethyltoluene	UG/M3	0.20 J	0.541 J	0.16 U	0.98	0.98
4-Methyl-2-pentanone	UG/M3	0.070 U	0.533 J	0.070 U	0.574 J	7.0
Acetone	UG/M3	16	409.5 J	6.9	141	647.6 J
Benzene	UG/M3	0.64	1.6	0.64	6.1	2.2
Bromoethene (Vinyl Bromide)	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

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Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-140-22-IAB	H-140-22-IAC	H-140-22-OA	H-140-22-SSA	H-140-22-SSB
Sample ID		224121-IAB-140	224121-IAC-140	224121-OA-140	224121-SSA-140	224121-SSB-140
Matrix		Indoor Air	Indoor Air	Outdoor Air	Subslab Vapor	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/22	02/26/22	02/26/22	02/26/22	02/26/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Bromoform	UG/M3	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Bromomethane	UG/M3	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon disulfide	UG/M3	0.093 U	0.28 U	0.12 U	0.529 U	1.37 U
Carbon tetrachloride	UG/M3	0.38 J	0.38 J	0.38 J	0.38 J	0.25 J
Chlorobenzene	UG/M3	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U
Chloroethane	UG/M3	0.12 U	0.12 U	0.12 U	1.71 J	21
Chloroform	UG/M3	0.098 J	0.34 J	0.098 J	0.34 J	0.98
Chloromethane	UG/M3	0.867 J	0.847 J	0.888 J	0.083 U	0.537 J
Cyclohexane	UG/M3	0.413 J	0.447 J	0.413 J	3.8	0.083 U
Dichlorodifluoromethane	UG/M3	2.0	2.0	2.0	2.0	2.0
Ethanol	UG/M3	9.4	23.7	8.1	10	19
Ethyl acetate	UG/M3	0.18 U	0.793 J	0.18 U	0.685 J	0.613 J
Ethylbenzene	UG/M3	0.564 J	0.695 J	0.478 J	0.651 J	0.695 J
Isopropyl alcohol	UG/M3	48.4	98.3	0.19 U	0.19 U	0.19 U
Methyl ethyl ketone (2-Butanone)	UG/M3	0.354 J	1.45 J	0.442 J	4.276 J	24
Methyl methacrylate	UG/M3	0.655 J	1.2	0.070 U	0.070 U	0.070 U
Methyl tert-butyl ether	UG/M3	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U
Methylene chloride	UG/M3	0.69 J	0.66 J	0.66 J	1.7	0.76 J
Naphthalene	UG/M3	0.10 U	0.21 U	0.052 U	0.681 U	0.31 U
n-Heptane	UG/M3	0.82	0.82	0.615 J	2.0	7.4
n-Hexane	UG/M3	1.1	1.1	1.1	0.067 U	13
Styrene	UG/M3	3.0	288	0.38 J	2.1	43.4

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-140-22-IAB	H-140-22-IAC	H-140-22-OA	H-140-22-SSA	H-140-22-SSB
Sample ID		224121-IAB-140	224121-IAC-140	224121-OA-140	224121-SSA-140	224121-SSB-140
Matrix		Indoor Air	Indoor Air	Outdoor Air	Subslab Vapor	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/22	02/26/22	02/26/22	02/26/22	02/26/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	0.12 U	2.18 J	0.12 U	1.73 J	8.8
Tetrachloroethene	UG/M3	3.4	543	0.746 J	6.8	1.22 J
Tetrahydrofuran	UG/M3	0.12 J	0.086 U	0.086 U	0.086 U	0.086 U
Toluene	UG/M3	3.4	3.4	2.6	1.9	9.4
Trichloroethene	UG/M3	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Trichlorofluoromethane	UG/M3	0.899 J	0.899 J	0.955 J	1.7	1.01 J
Vinyl acetate	UG/M3	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Vinyl chloride	UG/M3	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U
m&p-Xylene	UG/M3	1.7	1.7	1.52 J	3.5	1.7
o-Xylene	UG/M3	0.695 J	0.651 J	0.478 J	1.3	0.87
Xylene (total)	UG/M3	2.47 J	2.43 J	2.0 J	4.8	2.6

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-140-22-SSC	H-141-22-IA	H-141-22-SS	H-142-22-IA	H-142-22-SS
Sample ID		224121-SSC-140	224121-IA-141	224121-SS-141	224121-IA-142	224121-SS-142
Matrix		Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/22	02/26/22	02/26/22	02/26/22	02/26/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.31 J	0.38 J	0.46 J	0.38 J	0.38 J
1,1-Dichloroethane	UG/M3	1.2	0.10 U	2.4	0.10 U	4.0
1,1-Dichloroethene	UG/M3	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
1,2,4-Trichlorobenzene	UG/M3	0.11 U	0.15 U	0.11 U	0.11 U	0.11 U
1,2,4-Trimethylbenzene	UG/M3	14	0.836 J	0.39 J	0.29 J	0.15 J
1,2-Dichlorobenzene	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	1.2
1,2-Dichloroethane	UG/M3	0.81	0.16 J	1.6	0.11 U	3.2
1,2-Dichloroethene (cis)	UG/M3	3.6	0.091 U	0.091 U	0.091 U	0.091 U
1,2-Dichloroethene (trans)	UG/M3	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	4.4	0.29 J	0.15 J	0.12 U	0.12 U
1,3-Butadiene	UG/M3	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
1,4-Dichlorobenzene	UG/M3	0.11 U	0.24 U	0.12 U	0.11 U	0.48 U
1,4-Dioxane	UG/M3	22	0.14 U	0.14 U	0.14 U	0.14 U
1-Propene	UG/M3	16.56 U	0.065 U	2.117 U	3.769 U	2.272 U
2,2,4-Trimethylpentane	UG/M3	0.065 U	0.33 J	1.9	0.23 J	4.7
2-Hexanone	UG/M3	22	0.086 U	2.5	0.086 U	1.02 J
4-Ethyltoluene	UG/M3	2.0	0.29 J	0.59 J	0.20 J	0.16 U
4-Methyl-2-pentanone	UG/M3	33	0.070 U	0.070 U	0.070 U	0.901 J
Acetone	UG/M3	3,147.5 J	11	81.2	11	46.6
Benzene	UG/M3	13	0.575 J	1.6	0.479 J	0.96
Bromoethene (Vinyl Bromide)	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-140-22-SSC	H-141-22-IA	H-141-22-SS	H-142-22-IA	H-142-22-SS
Sample ID		224121-SSC-140	224121-IA-141	224121-SS-141	224121-IA-142	224121-SS-142
Matrix		Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/22	02/26/22	02/26/22	02/26/22	02/26/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Bromoform	UG/M3	0.24 U	0.24 U	0.52 J	0.24 U	0.24 U
Bromomethane	UG/M3	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon disulfide	UG/M3	1.43 U	0.16 J	2.5	0.16 J	1.53 J
Carbon tetrachloride	UG/M3	0.31 J	0.44 J	0.25 J	0.44 J	0.25 J
Chlorobenzene	UG/M3	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U
Chloroethane	UG/M3	19	0.12 U	20	0.12 U	31.7
Chloroform	UG/M3	3.9	0.20 J	36	0.15 J	1.5
Chloromethane	UG/M3	0.083 U	1.07 J	0.083 U	0.888 J	0.31 J
Cyclohexane	UG/M3	11	0.083 U	0.083 U	0.083 U	0.083 U
Dichlorodifluoromethane	UG/M3	2.0	2.0	2.0	2.0	2.0
Ethanol	UG/M3	1,214 J	130	49.6	68.6	26.4
Ethyl acetate	UG/M3	0.18 U	3.1 J	5.91 J	0.541 J	13
Ethylbenzene	UG/M3	2.6	0.35 J	0.478 J	0.695 J	0.22 J
Isopropyl alcohol	UG/M3	0.19 U	6.4	0.19 U	0.19 U	0.19 U
Methyl ethyl ketone (2-Butanone)	UG/M3	141	1.12 J	19	1.89 J	19
Methyl methacrylate	UG/M3	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U
Methyl tert-butyl ether	UG/M3	0.036 U	0.036 U	0.036 U	0.036 U	0.036 J
Methylene chloride	UG/M3	0.83 J	0.69 J	0.69 J	5.6	0.66 J
Naphthalene	UG/M3	6.3	0.21 U	0.37 U	0.10 U	0.21 U
n-Heptane	UG/M3	12	0.061 U	0.061 U	0.061 U	0.061 U
n-Hexane	UG/M3	0.067 U	0.423 J	7.0	0.70	0.067 U
Styrene	UG/M3	128	0.064 U	0.064 U	0.085 J	2.1

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-140-22-SSC	H-141-22-IA	H-141-22-SS	H-142-22-IA	H-142-22-SS
Sample ID		224121-SSC-140	224121-IA-141	224121-SS-141	224121-IA-142	224121-SS-142
Matrix		Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/22	02/26/22	02/26/22	02/26/22	02/26/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	167	0.12 U	2.7 J	0.12 U	0.94 J
Tetrachloroethene	UG/M3	645	2.0	2.7	0.16 U	2.7
Tetrahydrofuran	UG/M3	0.086 U	0.086 U	0.086 U	0.383 J	0.383 J
Toluene	UG/M3	12	1.9	4.1	1.5	2.6
Trichloroethene	UG/M3	11	0.12 U	0.12 U	0.21 J	0.12 U
Trichlorofluoromethane	UG/M3	0.73 J	0.899 J	4.5	0.955 J	0.843 J
Vinyl acetate	UG/M3	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Vinyl chloride	UG/M3	13	0.074 U	0.77	0.074 U	1.8
m&p-Xylene	UG/M3	5.6	1.13 J	1.48 J	2.2	0.651 J
o-Xylene	UG/M3	2.2	0.478 J	0.608 J	0.608 J	0.26 J
Xylene (total)	UG/M3	7.8	1.61 J	2.08 J	2.6	0.912 J

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-143-22-IA	H-143-22-SS	H-144-22-IA	H-144-22-OA	H-144-22-SS
Sample ID		224121-IA-143	224121-SS-143	224121-IA-144	224121-OA-144	224121-SS-144
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/22	02/26/22	02/28/22	02/28/22	02/28/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.38 J	0.38 J	0.38 J	0.46 J	0.38 J
1,1-Dichloroethane	UG/M3	0.10 U	11	0.10 U	0.10 U	0.10 U
1,1-Dichloroethene	UG/M3	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
1,2,4-Trichlorobenzene	UG/M3	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U
1,2,4-Trimethylbenzene	UG/M3	0.20 J	0.20 J	0.29 J	0.20 J	0.20 J
1,2-Dichlorobenzene	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2-Dichloroethane	UG/M3	0.11 U	4.9	0.11 U	0.11 U	0.32 J
1,2-Dichloroethene (cis)	UG/M3	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U
1,2-Dichloroethene (trans)	UG/M3	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.12 U	0.12 U	0.12 U	0.12 U	0.15 J
1,3-Butadiene	UG/M3	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
1,4-Dichlorobenzene	UG/M3	0.11 U	0.11 U	0.12 J	0.11 U	0.11 U
1,4-Dioxane	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1-Propene	UG/M3	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U
2,2,4-Trimethylpentane	UG/M3	0.19 J	13	0.561 J	0.561 J	0.607 J
2-Hexanone	UG/M3	0.086 U	0.086 U	0.086 U	0.086 U	0.37 J
4-Ethyltoluene	UG/M3	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
4-Methyl-2-pentanone	UG/M3	0.070 U	0.070 U	0.41 J	0.16 J	0.070 U
Acetone	UG/M3	18	156	9.0	10	14
Benzene	UG/M3	0.64	2.2	0.64	0.64	0.16 J
Bromoethene (Vinyl Bromide)	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-143-22-IA	H-143-22-SS	H-144-22-IA	H-144-22-OA	H-144-22-SS
Sample ID		224121-IA-143	224121-SS-143	224121-IA-144	224121-OA-144	224121-SS-144
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/22	02/26/22	02/28/22	02/28/22	02/28/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Bromoform	UG/M3	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Bromomethane	UG/M3	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon disulfide	UG/M3	0.343 J	1.15 J	0.25 J	0.12 J	0.747 J
Carbon tetrachloride	UG/M3	0.50 J	0.31 J	0.38 J	0.44 J	0.31 J
Chlorobenzene	UG/M3	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U
Chloroethane	UG/M3	0.12 U	103	0.12 U	0.12 U	3.219 J
Chloroform	UG/M3	1.5	19	0.20 J	0.098 J	1.5
Chloromethane	UG/M3	0.19 J	1.82 J	0.909 J	0.867 J	0.083 U
Cyclohexane	UG/M3	0.083 U	0.083 U	0.21 J	0.083 U	0.083 U
Dichlorodifluoromethane	UG/M3	2.0	2.0	2.0	2.0	2.0
Ethanol	UG/M3	555.1 J	28.5	40.1	12	9.2
Ethyl acetate	UG/M3	2.77 J	2.99 J	2.27 J	0.468 J	0.577 J
Ethylbenzene	UG/M3	0.22 J	0.608 J	0.478 J	0.35 J	0.087 J
Isopropyl alcohol	UG/M3	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Methyl ethyl ketone (2-Butanone)	UG/M3	0.767 J	26	1.18 J	0.973 J	1.95 J
Methyl methacrylate	UG/M3	0.070 U	0.070 U	0.491 J	0.491 J	0.070 U
Methyl tert-butyl ether	UG/M3	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U
Methylene chloride	UG/M3	0.73 J	1.2 J	1.2 J	2.1	0.49 U
Naphthalene	UG/M3	0.21 U	0.16 U	0.10 U	0.10 U	0.26 U
n-Heptane	UG/M3	0.061 U	5.3	0.061 U	0.061 U	1.2
n-Hexane	UG/M3	0.067 U	16	0.634 J	0.564 J	1.1
Styrene	UG/M3	0.21 J	0.767 J	0.13 J	0.064 U	0.13 J

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-143-22-IA	H-143-22-SS	H-144-22-IA	H-144-22-OA	H-144-22-SS
Sample ID		224121-IA-143	224121-SS-143	224121-IA-144	224121-OA-144	224121-SS-144
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/22	02/26/22	02/28/22	02/28/22	02/28/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	0.12 U	1.94 J	0.21 J	0.12 U	0.12 U
Tetrachloroethene	UG/M3	0.814 J	0.61 J	0.27 J	0.20 J	1.09 J
Tetrahydrofuran	UG/M3	0.086 U	4.1	0.324 J	0.086 U	0.086 U
Toluene	UG/M3	0.716 J	2.6	3.8	3.0	0.415 J
Trichloroethene	UG/M3	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Trichlorofluoromethane	UG/M3	0.955 J	0.674 J	1.01 J	1.01 J	0.955 J
Vinyl acetate	UG/M3	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Vinyl chloride	UG/M3	0.074 U	5.4	0.074 U	0.074 U	0.074 U
m&p-Xylene	UG/M3	0.651 J	1.43 J	1.35 J	1.04 J	0.39 J
o-Xylene	UG/M3	0.26 J	0.564 J	0.521 J	0.35 J	0.17 J
Xylene (total)	UG/M3	0.912 J	2.0 J	1.87 J	1.39 J	0.564 J

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-145-22-IA	H-145-22-OA	H-145-22-SS	H-146-22-IA	H-146-22-SS
Sample ID		224121-IA-145	224121-OA-145	224121-SS-145	224121-IA-146	224121-SS-146
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/28/22	02/28/22	02/28/22	02/28/22	02/28/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.093 U	0.093 U	0.38 J	0.093 U	0.093 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.54 J	0.38 J	37	0.38 J	0.46 J
1,1-Dichloroethane	UG/M3	0.10 U	0.10 U	1.6	0.10 U	2.8
1,1-Dichloroethene	UG/M3	0.095 U	0.095 U	0.095 U	0.12 J	0.095 U
1,2,4-Trichlorobenzene	UG/M3	0.11 U	0.11 U	0.22 U	0.52 U	0.11 U
1,2,4-Trimethylbenzene	UG/M3	2.9	0.20 J	0.492 J	0.492 J	0.25 J
1,2-Dichlorobenzene	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2-Dichloroethane	UG/M3	0.11 U	0.11 U	1.2	0.11 U	2.0
1,2-Dichloroethene (cis)	UG/M3	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U
1,2-Dichloroethene (trans)	UG/M3	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.787 J	0.12 U	0.15 J	0.12 U	0.12 U
1,3-Butadiene	UG/M3	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
1,4-Dichlorobenzene	UG/M3	0.12 J	0.11 U	0.11 U	0.11 U	0.18 J
1,4-Dioxane	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1-Propene	UG/M3	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U
2,2,4-Trimethylpentane	UG/M3	0.93	0.93	1.4	1.9	4.7
2-Hexanone	UG/M3	0.086 U	0.086 U	0.655 J	1.02 J	0.492 J
4-Ethyltoluene	UG/M3	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
4-Methyl-2-pentanone	UG/M3	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U
Acetone	UG/M3	14	7.4	14	32.8	87.9
Benzene	UG/M3	0.96	0.64	0.543 J	0.96	0.96
Bromoethene (Vinyl Bromide)	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-145-22-IA	H-145-22-OA	H-145-22-SS	H-146-22-IA	H-146-22-SS
Sample ID		224121-IA-145	224121-OA-145	224121-SS-145	224121-IA-146	224121-SS-146
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/28/22	02/28/22	02/28/22	02/28/22	02/28/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Bromoform	UG/M3	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Bromomethane	UG/M3	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon disulfide	UG/M3	0.343 J	0.22 J	0.623 J	0.405 J	2.8
Carbon tetrachloride	UG/M3	0.38 J	0.38 J	0.38 J	0.44 J	0.38 J
Chlorobenzene	UG/M3	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U
Chloroethane	UG/M3	0.12 U	0.12 U	5.5	0.12 U	17
Chloroform	UG/M3	0.29 J	0.098 J	0.83 J	0.635 J	1.5
Chloromethane	UG/M3	1.14 J	1.42 J	0.083 U	0.083 U	0.083 U
Cyclohexane	UG/M3	0.31 J	0.24 J	0.083 U	0.083 U	0.083 U
Dichlorodifluoromethane	UG/M3	2.0	2.0	2.0	2.0	2.0
Ethanol	UG/M3	52.9	11	12	814 J	25.8
Ethyl acetate	UG/M3	1.05 J	0.29 J	2.77 J	1.41 J	1.66 J
Ethylbenzene	UG/M3	0.434 J	0.26 J	0.35 J	0.738 J	0.30 J
Isopropyl alcohol	UG/M3	0.19 U	0.19 U	0.19 U	94.4	0.19 U
Methyl ethyl ketone (2-Butanone)	UG/M3	1.27 J	0.678 J	4.306 J	3.274 J	9.7
Methyl methacrylate	UG/M3	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U
Methyl tert-butyl ether	UG/M3	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U
Methylene chloride	UG/M3	0.73 J	0.69 J	0.69 J	0.73 J	0.69 J
Naphthalene	UG/M3	0.16 U	0.052 U	0.16 U	0.16 U	0.16 U
n-Heptane	UG/M3	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U
n-Hexane	UG/M3	0.67 J	0.423 J	0.067 U	0.067 U	4.2
Styrene	UG/M3	0.13 J	0.064 U	0.26 J	0.34 J	0.17 J

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-145-22-IA	H-145-22-OA	H-145-22-SS	H-146-22-IA	H-146-22-SS
Sample ID		224121-IA-145	224121-OA-145	224121-SS-145	224121-IA-146	224121-SS-146
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/28/22	02/28/22	02/28/22	02/28/22	02/28/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	0.546 J	0.12 U	0.606 J	1.42 J	2.06 J
Tetrachloroethene	UG/M3	0.61 J	0.61 J	2.0	1.09 J	3.4
Tetrahydrofuran	UG/M3	0.086 U	0.086 U	0.086 U	0.59	0.086 U
Toluene	UG/M3	1.9	1.9	1.9	2.3	2.3
Trichloroethene	UG/M3	0.27 J	0.12 U	0.12 U	0.752 J	0.86 J
Trichlorofluoromethane	UG/M3	1.07 J	0.955 J	1.01 J	0.955 J	0.955 J
Vinyl acetate	UG/M3	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Vinyl chloride	UG/M3	0.074 U	0.074 U	0.074 U	0.074 U	0.77
m&p-Xylene	UG/M3	1.52 J	0.738 J	1.22 J	2.6	0.825 J
o-Xylene	UG/M3	0.521 J	0.30 J	0.478 J	0.87	0.35 J
Xylene (total)	UG/M3	2.04 J	1.04 J	1.69 J	3.5	1.17 J

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-147-22-IAA	H-147-22-IAB	H-147-22-OA	H-147-22-SSA	H-147-22-SSB
Sample ID		224121-IAA-147	224121-IAB-147	224121-OA-147	224121-SSA-147	224121-SSB-147
Matrix		Indoor Air	Indoor Air	Outdoor Air	Subslab Vapor	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/22	03/08/22	03/08/22	03/08/22	03/08/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.093 U	0.093 U	0.093 U	17	71.5
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.38 J	0.38 J	0.46 J	0.61 J	0.61 J
1,1-Dichloroethane	UG/M3	0.10 U	0.10 U	0.10 U	15	28
1,1-Dichloroethene	UG/M3	0.095 U	0.095 U	0.095 U	0.476 J	1.2
1,2,4-Trichlorobenzene	UG/M3	0.11 U	0.11 U	0.11 UJ	0.15 UJ	0.11 UJ
1,2,4-Trimethylbenzene	UG/M3	4.4	4.4	0.29 J	5.9	0.29 J
1,2-Dichlorobenzene	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2-Dichloroethane	UG/M3	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
1,2-Dichloroethene (cis)	UG/M3	0.16 J	0.091 U	0.28 J	27,000 D	14,900 D
1,2-Dichloroethene (trans)	UG/M3	0.083 U	0.083 U	0.083 U	38	40
1,2-Dichlorotetrafluoroethane	UG/M3	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	2.0	2.0	0.12 U	6.9	0.20 J
1,3-Butadiene	UG/M3	0.064 UJ	0.064 UJ	0.064 U	0.064 U	0.064 U
1,4-Dichlorobenzene	UG/M3	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
1,4-Dioxane	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1-Propene	UG/M3	0.723 U	0.065 U	0.065 U	0.065 U	0.065 U
2,2,4-Trimethylpentane	UG/M3	0.23 J	0.23 J	0.19 J	0.065 U	7.0
2-Hexanone	UG/M3	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U
4-Ethyltoluene	UG/M3	0.885 J	0.934 J	0.20 U	0.787 U	0.16 U
4-Methyl-2-pentanone	UG/M3	0.25 J	0.20 J	0.451 J	1.68 J	0.070 U
Acetone	UG/M3	7.6	7.4	10	200	130
Benzene	UG/M3	0.351 J	0.351 J	0.447 J	16	62.9
Bromoethene (Vinyl Bromide)	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-147-22-IAA	H-147-22-IAB	H-147-22-OA	H-147-22-SSA	H-147-22-SSB
Sample ID		224121-IAA-147	224121-IAB-147	224121-OA-147	224121-SSA-147	224121-SSB-147
Matrix		Indoor Air	Indoor Air	Outdoor Air	Subslab Vapor	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/22	03/08/22	03/08/22	03/08/22	03/08/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Bromoform	UG/M3	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Bromomethane	UG/M3	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon disulfide	UG/M3	0.093 U	0.062 U	0.16 U	2.2	3.1
Carbon tetrachloride	UG/M3	0.38 J	0.38 J	0.44 J	0.629 J	0.13 U
Chlorobenzene	UG/M3	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U
Chloroethane	UG/M3	0.12 U	0.12 U	0.12 U	6.1	38
Chloroform	UG/M3	0.098 U	0.098 J	0.098 J	980 D	1,100 D
Chloromethane	UG/M3	0.805 J	0.681 J	1.07 J	0.083 U	0.289 J
Cyclohexane	UG/M3	0.083 U	0.083 U	0.083 U	2.4	2.4
Dichlorodifluoromethane	UG/M3	2.0	2.0	2.0	2.0	2.0
Ethanol	UG/M3	26 J	25.4 J	16	62.2	8.7
Ethyl acetate	UG/M3	0.18 J	0.29 J	0.505 J	0.18 U	0.18 U
Ethylbenzene	UG/M3	1.3	0.87	2.6	1.7	0.35 J
Isopropyl alcohol	UG/M3	6.9	14	6.6	0.19 U	0.19 U
Methyl ethyl ketone (2-Butanone)	UG/M3	0.56 J	0.59 J	0.855 J	4.453 J	9.7
Methyl methacrylate	UG/M3	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U
Methyl tert-butyl ether	UG/M3	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U
Methylene chloride	UG/M3	0.83 J	0.80 J	1.0 J	2.1	0.76 J
Naphthalene	UG/M3	0.21 U	0.16 U	0.10 U	2.6	0.16 U
n-Heptane	UG/M3	0.33 J	0.061 U	0.061 U	0.061 U	2.5
n-Hexane	UG/M3	0.423 J	0.423 J	0.423 J	3.9	3.5
Styrene	UG/M3	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-147-22-IAA	H-147-22-IAB	H-147-22-OA	H-147-22-SSA	H-147-22-SSB
Sample ID		224121-IAA-147	224121-IAB-147	224121-OA-147	224121-SSA-147	224121-SSB-147
Matrix		Indoor Air	Indoor Air	Outdoor Air	Subslab Vapor	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/22	03/08/22	03/08/22	03/08/22	03/08/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	0.12 U	0.12 U	0.12 U	1.94 J	0.12 U
Tetrachloroethene	UG/M3	6.1	6.1	6.1	136,000 D	204,000 D
Tetrahydrofuran	UG/M3	0.21 J	0.12 J	0.12 J	0.086 U	0.086 U
Toluene	UG/M3	4.5	4.1	12	17	6.0
Trichloroethene	UG/M3	0.914 J	0.48 J	0.699 J	57,500 D	66,600 D
Trichlorofluoromethane	UG/M3	1.7	0.843 J	1.1	1.1	1.07 J
Vinyl acetate	UG/M3	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Vinyl chloride	UG/M3	0.074 U	0.074 U	0.074 U	0.486 J	5.6
m&p-Xylene	UG/M3	4.8	4.3	8.7	6.1	1.22 J
o-Xylene	UG/M3	2.2	1.7	2.6	6.1	0.564 J
Xylene (total)	UG/M3	6.9	6.1	11	12	1.78 J

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 UG/M3 - Microgram per cubic meter.

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Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-148-22-IA	H-148-22-OA	H-148-22-SS	H-149-22-IAA	H-149-22-IAB
Sample ID		224121-IA-148	224121-OA-148	224121-SS-148	224121-IAA-149	224121-IAB-149
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/22	03/08/22	03/08/22	03/09/22	03/09/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.093 U	0.093 U	0.093 U	0.546 J	0.982 J
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.46 J	0.46 J	0.46 J	0.46 J	0.38 J
1,1-Dichloroethane	UG/M3	0.10 U	0.10 U	11	0.10 U	0.10 U
1,1-Dichloroethene	UG/M3	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
1,2,4-Trichlorobenzene	UG/M3	0.11 UJ	0.11 UJ	0.11 UJ	0.11 UJ	0.11 UJ
1,2,4-Trimethylbenzene	UG/M3	0.787 J	0.541 J	0.34 J	20	39
1,2-Dichlorobenzene	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2-Dichloroethane	UG/M3	0.729 J	0.11 U	9.7	0.11 U	0.11 U
1,2-Dichloroethene (cis)	UG/M3	0.091 U	0.091 U	0.20 J	0.091 U	0.20 J
1,2-Dichloroethene (trans)	UG/M3	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.29 J	0.20 J	0.12 U	5.4	0.12 U
1,3-Butadiene	UG/M3	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
1,4-Dichlorobenzene	UG/M3	5.4	0.12 U	0.18 U	0.11 U	0.11 U
1,4-Dioxane	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1-Propene	UG/M3	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U
2,2,4-Trimethylpentane	UG/M3	0.467 J	0.42 J	16	0.841 J	0.93
2-Hexanone	UG/M3	0.086 U	0.086 U	1.88 J	0.086 U	0.086 U
4-Ethyltoluene	UG/M3	0.16 U	0.39 U	0.16 U	3.9	8.8
4-Methyl-2-pentanone	UG/M3	0.25 J	0.12 J	0.070 U	0.737 J	0.070 U
Acetone	UG/M3	23	7.8	144	880 D	760 D
Benzene	UG/M3	0.64	0.64	1.6	1.6	1.3
Bromoethene (Vinyl Bromide)	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-148-22-IA	H-148-22-OA	H-148-22-SS	H-149-22-IAA	H-149-22-IAB
Sample ID		224121-IA-148	224121-OA-148	224121-SS-148	224121-IAA-149	224121-IAB-149
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/22	03/08/22	03/08/22	03/09/22	03/09/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Bromoform	UG/M3	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Bromomethane	UG/M3	0.13 U	0.13 U	0.13 U	0.13 U	0.31 J
Carbon disulfide	UG/M3	0.685 U	0.498 U	6.5	0.934 U	0.19 U
Carbon tetrachloride	UG/M3	0.629 J	0.44 J	0.629 J	0.44 J	0.38 J
Chlorobenzene	UG/M3	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U
Chloroethane	UG/M3	0.12 U	0.12 U	172	0.12 U	0.12 U
Chloroform	UG/M3	2.9	0.098 J	7.3	0.24 J	4.9
Chloromethane	UG/M3	1.2 J	1.07 J	0.083 U	1.18 J	0.083 U
Cyclohexane	UG/M3	0.24 J	0.083 U	2.1	0.083 U	0.69
Dichlorodifluoromethane	UG/M3	2.0	2.0	2.5	2.0	2.0
Ethanol	UG/M3	1,803	18	60.5	42.2	198 D
Ethyl acetate	UG/M3	10	0.721 J	18	1.62 J	3.03 J
Ethylbenzene	UG/M3	0.564 J	0.35 J	0.35 J	2.2	2.2
Isopropyl alcohol	UG/M3	20	4.646 J	30.7	0.19 U	0.19 U
Methyl ethyl ketone (2-Butanone)	UG/M3	10	0.855 J	35.4	7.7	5.279 J
Methyl methacrylate	UG/M3	0.070 U	0.070 U	0.070 U	0.491 J	0.070 U
Methyl tert-butyl ether	UG/M3	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U
Methylene chloride	UG/M3	1.1 J	0.80 J	0.97 J	1.7 J	1.1 J
Naphthalene	UG/M3	0.944 U	0.10 U	0.47 U	0.31 U	0.47 U
n-Heptane	UG/M3	0.82	0.061 U	0.061 U	0.82	1.2
n-Hexane	UG/M3	0.067 U	0.564 J	14	0.067 U	0.067 U
Styrene	UG/M3	0.26 J	0.064 U	0.064 U	0.511 J	0.30 J

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-148-22-IA	H-148-22-OA	H-148-22-SS	H-149-22-IAA	H-149-22-IAB
Sample ID		224121-IA-148	224121-OA-148	224121-SS-148	224121-IAA-149	224121-IAB-149
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/22	03/08/22	03/08/22	03/09/22	03/09/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	1.03 J	0.12 U	6.1	2.61 J	5.5
Tetrachloroethene	UG/M3	2.0	1.09 J	3.4	129	43
Tetrahydrofuran	UG/M3	0.18 J	0.086 U	0.56 J	54	5.9
Toluene	UG/M3	4.1	2.3	3.0	513 D	437 D
Trichloroethene	UG/M3	0.32 J	0.21 J	4.3	1.6	0.537 J
Trichlorofluoromethane	UG/M3	1.01 J	1.07 J	1.7	1.07 J	0.955 J
Vinyl acetate	UG/M3	0.053 U	0.053 U	81.7	0.053 U	0.053 U
Vinyl chloride	UG/M3	0.074 U	0.074 U	15	0.074 U	0.074 U
m&p-Xylene	UG/M3	1.7	1.26 J	1.13 J	7.4	7.8
o-Xylene	UG/M3	0.738 J	0.434 J	0.434 J	3.0	4.8
Xylene (total)	UG/M3	2.6	1.69 J	1.56 J	10	13

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-149-22-OA	H-149-22-SSA	H-149-22-SSB	H-150-22-IA	H-150-22-OA
Sample ID		224121-OA-149	224121-SSA-149	224121-SSB-149	224121-IA-150	224121-OA-150
Matrix		Outdoor Air	Subslab Vapor	Subslab Vapor	Indoor Air	Outdoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/09/22	03/09/22	03/09/22	03/10/22	03/10/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.093 U	1,100 D	4.4 J	0.093 U	0.093 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.38 J	15	0.18 UJ	0.38 J	0.38 J
1,1-Dichloroethane	UG/M3	0.10 U	4.5	41.3 J	0.10 U	0.10 U
1,1-Dichloroethene	UG/M3	0.095 U	0.095 U	0.095 UJ	0.095 U	0.095 U
1,2,4-Trichlorobenzene	UG/M3	0.11 UJ	0.11 UJ	0.11 UJ	0.11 U	0.11 U
1,2,4-Trimethylbenzene	UG/M3	2.5	0.98	35 J	0.639 J	0.688 J
1,2-Dichlorobenzene	UG/M3	0.14 U	0.14 U	0.14 UJ	0.14 U	0.14 U
1,2-Dichloroethane	UG/M3	0.11 U	1.6	2.0 J	0.11 U	0.11 U
1,2-Dichloroethene (cis)	UG/M3	0.091 U	2.8	182 J	0.091 U	0.091 U
1,2-Dichloroethene (trans)	UG/M3	0.083 U	5.2	0.083 UJ	0.083 U	0.083 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.20 U	0.20 U	0.20 UJ	0.20 U	0.20 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.541 J	0.44 J	0.12 UJ	0.20 J	0.20 J
1,3-Butadiene	UG/M3	0.064 U	0.064 U	0.064 UJ	0.064 U	0.064 U
1,4-Dichlorobenzene	UG/M3	0.11 U	0.36 U	0.11 UJ	0.18 J	0.18 J
1,4-Dioxane	UG/M3	0.14 U	0.14 U	0.14 UJ	0.14 U	0.14 U
1-Propene	UG/M3	0.065 U	2.891 U	0.065 UJ	0.065 U	0.065 U
2,2,4-Trimethylpentane	UG/M3	0.607 J	3.7	2,080 D	6.5	2.3
2-Hexanone	UG/M3	0.086 U	0.614 J	0.086 UJ	0.086 U	0.086 U
4-Ethyltoluene	UG/M3	0.885 U	0.16 U	13 J	0.16 U	0.16 U
4-Methyl-2-pentanone	UG/M3	0.070 U	0.37 J	0.070 UJ	2.0	1.19 J
Acetone	UG/M3	59.9	23	0.14 UJ	15	20
Benzene	UG/M3	0.96	2.2	466 D	0.96	0.96
Bromoethene (Vinyl Bromide)	UG/M3	0.15 U	0.15 U	0.26 J	0.15 U	0.15 U

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-149-22-OA	H-149-22-SSA	H-149-22-SSB	H-150-22-IA	H-150-22-OA
Sample ID		224121-OA-149	224121-SSA-149	224121-SSB-149	224121-IA-150	224121-OA-150
Matrix		Outdoor Air	Subslab Vapor	Subslab Vapor	Indoor Air	Outdoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/09/22	03/09/22	03/09/22	03/10/22	03/10/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.15 U	0.15 U	0.15 UJ	0.15 U	0.15 U
Bromoform	UG/M3	0.24 U	0.24 U	0.24 UJ	0.24 U	0.24 U
Bromomethane	UG/M3	0.13 U	0.13 U	0.544 J	0.13 U	0.13 U
Carbon disulfide	UG/M3	0.093 U	0.934 U	0.059 UJ	0.059 U	0.059 U
Carbon tetrachloride	UG/M3	0.38 J	3.1	0.13 UJ	0.38 J	0.38 J
Chlorobenzene	UG/M3	0.078 U	0.18 J	0.078 UJ	0.078 U	0.078 U
Chloroethane	UG/M3	0.12 U	45.1	60.7 J	0.12 U	0.12 U
Chloroform	UG/M3	0.098 U	16	0.098 UJ	0.39 J	0.15 J
Chloromethane	UG/M3	1.01 J	0.083 U	0.083 UJ	0.95 J	0.847 J
Cyclohexane	UG/M3	0.24 J	0.69	389 D	0.31 J	0.28 J
Dichlorodifluoromethane	UG/M3	2.0	2.0	0.13 UJ	2.0	2.0
Ethanol	UG/M3	10	12	0.13 UJ	78.4	20.7
Ethyl acetate	UG/M3	1.33 J	1.98 J	0.18 UJ	2.41 J	0.685 J
Ethylbenzene	UG/M3	1.3	0.30 J	22 J	0.651 J	0.478 J
Isopropyl alcohol	UG/M3	0.19 U	1.62 J	0.19 UJ	0.19 U	0.19 U
Methyl ethyl ketone (2-Butanone)	UG/M3	2.09 J	9.1	0.14 UJ	1.65 J	1.83 J
Methyl methacrylate	UG/M3	0.409 J	0.070 U	0.070 UJ	0.070 U	0.33 J
Methyl tert-butyl ether	UG/M3	0.036 U	0.036 U	0.036 UJ	0.036 U	0.036 U
Methylene chloride	UG/M3	0.87 J	0.76 J	0.49 UJ	1.1 J	0.97 J
Naphthalene	UG/M3	0.47 U	0.42 U	0.052 UJ	0.21 U	0.16 U
n-Heptane	UG/M3	0.574 J	1.6	143 J	0.061 U	0.061 U
n-Hexane	UG/M3	1.1	3.2	265 J	1.4	1.1
Styrene	UG/M3	0.26 J	0.064 U	0.064 UJ	0.469 J	0.17 J

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-149-22-OA	H-149-22-SSA	H-149-22-SSB	H-150-22-IA	H-150-22-OA
Sample ID		224121-OA-149	224121-SSA-149	224121-SSB-149	224121-IA-150	224121-OA-150
Matrix		Outdoor Air	Subslab Vapor	Subslab Vapor	Indoor Air	Outdoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/09/22	03/09/22	03/09/22	03/10/22	03/10/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	0.12 U	1.33 J	0.12 UJ	0.879 J	0.455 J
Tetrachloroethene	UG/M3	2.7	6,600 D	32 J	0.746 J	0.678 J
Tetrahydrofuran	UG/M3	0.383 J	1.2	0.086 UJ	0.18 J	0.15 J
Toluene	UG/M3	20	11	39.2 J	4.5	3.4
Trichloroethene	UG/M3	0.43 J	8,010 D	61.3 J	0.12 U	0.12 U
Trichlorofluoromethane	UG/M3	0.955 J	1.07 J	0.096 UJ	2.2	1.1
Vinyl acetate	UG/M3	0.053 U	4.19 J	0.053 UJ	0.053 U	0.053 U
Vinyl chloride	UG/M3	0.074 U	4.6	263 D	0.074 U	0.074 U
m&p-Xylene	UG/M3	3.9	1.3 J	55.6 J	1.7	1.43 J
o-Xylene	UG/M3	1.3	0.434 J	132 J	0.738 J	0.608 J
Xylene (total)	UG/M3	5.2	1.74 J	188 J	2.6	2.04 J

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-150-22-SS	H-151-22-IAA	H-151-22-IAB	H-151-22-IAC	H-151-22-OA
Sample ID		224121-SS-150	224121-IAA-151	224121-IAB-151	224121-IAC-151	224121-OA-151
Matrix		Subslab Vapor	Indoor Air	Indoor Air	Indoor Air	Outdoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/10/22	03/10/22	03/10/22	03/10/22	03/10/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.44 J	0.093 U	0.093 U	0.093 U	0.093 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.38 J	0.38 J	0.38 J	0.38 J	0.38 J
1,1-Dichloroethane	UG/M3	5.7	0.10 U	0.10 U	0.10 U	0.10 U
1,1-Dichloroethene	UG/M3	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
1,2,4-Trichlorobenzene	UG/M3	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
1,2,4-Trimethylbenzene	UG/M3	0.541 J	2.5	4.4	2.9	2.0
1,2-Dichlorobenzene	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2-Dichloroethane	UG/M3	6.9	0.11 U	0.11 U	0.11 U	0.11 U
1,2-Dichloroethene (cis)	UG/M3	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U
1,2-Dichloroethene (trans)	UG/M3	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.15 J	0.787 J	0.98	0.787 J	0.541 J
1,3-Butadiene	UG/M3	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
1,4-Dichlorobenzene	UG/M3	0.11 U	0.24 J	0.12 J	0.12 J	0.12 J
1,4-Dioxane	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1-Propene	UG/M3	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U
2,2,4-Trimethylpentane	UG/M3	11	7.9	13	9.8	8.4
2-Hexanone	UG/M3	1.15 J	0.086 U	0.086 U	0.086 U	0.086 U
4-Ethyltoluene	UG/M3	0.16 U	0.98	1.5	0.98	0.737 J
4-Methyl-2-pentanone	UG/M3	1.64 J	0.983 J	0.451 J	0.533 J	0.492 J
Acetone	UG/M3	52.7	23	22	23	21
Benzene	UG/M3	1.6	3.2	4.8	3.8	3.2
Bromoethene (Vinyl Bromide)	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-150-22-SS	H-151-22-IAA	H-151-22-IAB	H-151-22-IAC	H-151-22-OA
Sample ID		224121-SS-150	224121-IAA-151	224121-IAB-151	224121-IAC-151	224121-OA-151
Matrix		Subslab Vapor	Indoor Air	Indoor Air	Indoor Air	Outdoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/10/22	03/10/22	03/10/22	03/10/22	03/10/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Bromoform	UG/M3	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Bromomethane	UG/M3	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon disulfide	UG/M3	0.059 U	0.059 U	0.059 U	0.059 U	0.059 U
Carbon tetrachloride	UG/M3	0.44 J	0.38 J	0.31 J	0.38 J	0.38 J
Chlorobenzene	UG/M3	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U
Chloroethane	UG/M3	106	0.12 U	0.12 U	0.12 U	0.12 U
Chloroform	UG/M3	14	0.29 J	0.098 J	0.15 J	0.15 J
Chloromethane	UG/M3	0.083 U	1.24 J	0.971 J	1.28 J	0.083 U
Cyclohexane	UG/M3	1.0	1.7	2.4	1.7	1.4
Dichlorodifluoromethane	UG/M3	2.0	1.5	2.0	2.0	2.0
Ethanol	UG/M3	18	402.9 J	277.4 J	297.3 J	137
Ethyl acetate	UG/M3	9.0	1.98 J	1.66 J	1.55 J	1.48 J
Ethylbenzene	UG/M3	0.30 J	2.2	3.5	2.6	1.7
Isopropyl alcohol	UG/M3	0.19 U	3.958 J	0.19 U	0.19 U	0.19 U
Methyl ethyl ketone (2-Butanone)	UG/M3	15	4.837 J	5.84 J	5.633 J	3.274 J
Methyl methacrylate	UG/M3	0.070 U	1.2	1.2	1.2	0.655 J
Methyl tert-butyl ether	UG/M3	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U
Methylene chloride	UG/M3	0.87 J	0.90 J	0.97 J	0.87 J	1.3 J
Naphthalene	UG/M3	0.21 U	0.31 U	0.37 U	0.26 U	0.21 U
n-Heptane	UG/M3	0.061 U	3.7	3.3	2.9	2.0
n-Hexane	UG/M3	6.7	5.6	7.0	5.3	4.2
Styrene	UG/M3	0.17 J	0.26 J	0.30 J	0.26 J	0.26 J

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 UG/M3 - Microgram per cubic meter.

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-150-22-SS	H-151-22-IAA	H-151-22-IAB	H-151-22-IAC	H-151-22-OA
Sample ID		224121-SS-150	224121-IAA-151	224121-IAB-151	224121-IAC-151	224121-OA-151
Matrix		Subslab Vapor	Indoor Air	Indoor Air	Indoor Air	Outdoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/10/22	03/10/22	03/10/22	03/10/22	03/10/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	2.09 J	0.758 J	0.333 J	1.06 J	0.455 J
Tetrachloroethene	UG/M3	1.4	0.54 J	0.54 J	0.678 J	0.54 J
Tetrahydrofuran	UG/M3	0.324 J	0.086 U	0.086 U	0.086 U	0.086 U
Toluene	UG/M3	3.4	14	21	15	12
Trichloroethene	UG/M3	0.12 U	0.32 J	0.12 U	0.12 U	0.12 U
Trichlorofluoromethane	UG/M3	1.07 J	0.899 J	0.955 J	1.01 J	1.01 J
Vinyl acetate	UG/M3	25	0.053 U	0.053 U	0.053 U	0.053 U
Vinyl chloride	UG/M3	7.7	0.074 U	0.074 U	0.074 U	0.074 U
m&p-Xylene	UG/M3	0.999 J	7.8	12	9.1	6.5
o-Xylene	UG/M3	0.39 J	2.6	4.3	3.0	2.2
Xylene (total)	UG/M3	1.39 J	10	16	12	8.7

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-151-22-SSA	H-151-22-SSB	H-151-22-SSC	H-152-22-IA	H-152-22-IA
Sample ID		224121-SSA-151	224121-SSB-151	224121-SSC-151	224121-IA-152	FD-031022-2
Matrix		Subslab Vapor	Subslab Vapor	Subslab Vapor	Indoor Air	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/10/22	03/10/22	03/10/22	03/10/22	03/10/22
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	3.3	0.093 U	0.928 J	0.093 U	0.093 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.38 J	0.38 J	0.38 J	0.46 J	0.38 J
1,1-Dichloroethane	UG/M3	1.6	2.4	0.729 J	0.10 U	0.10 U
1,1-Dichloroethene	UG/M3	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
1,2,4-Trichlorobenzene	UG/M3	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
1,2,4-Trimethylbenzene	UG/M3	0.98	56.5	0.885 J	0.98	0.688 J
1,2-Dichlorobenzene	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2-Dichloroethane	UG/M3	0.12 J	1.6	0.36 J	0.11 U	0.11 U
1,2-Dichloroethene (cis)	UG/M3	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U
1,2-Dichloroethene (trans)	UG/M3	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.12 U	13	0.29 J	0.39 J	0.25 J
1,3-Butadiene	UG/M3	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
1,4-Dichlorobenzene	UG/M3	0.11 U	0.11 U	0.11 U	0.42 J	0.48 J
1,4-Dioxane	UG/M3	0.14 U	0.32 J	0.14 U	0.14 U	0.14 U
1-Propene	UG/M3	16.45 U	0.065 U	0.065 U	0.065 U	0.065 U
2,2,4-Trimethylpentane	UG/M3	6.1	8.4	5.1	3.3 J	1.9 J
2-Hexanone	UG/M3	0.37 J	0.086 U	0.086 U	0.086 U	0.086 U
4-Ethyltoluene	UG/M3	0.16 U	7.9	0.16 U	0.59 J	0.20 J
4-Methyl-2-pentanone	UG/M3	0.070 U	1.6 J	1.31 J	0.451 J	0.37 J
Acetone	UG/M3	22	207	118	23	24.2
Benzene	UG/M3	5.1	1.3	0.96	1.3	0.96
Bromoethene (Vinyl Bromide)	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-151-22-SSA	H-151-22-SSB	H-151-22-SSC	H-152-22-IA	H-152-22-IA
Sample ID		224121-SSA-151	224121-SSB-151	224121-SSC-151	224121-IA-152	FD-031022-2
Matrix		Subslab Vapor	Subslab Vapor	Subslab Vapor	Indoor Air	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/10/22	03/10/22	03/10/22	03/10/22	03/10/22
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.27 J	0.15 U	0.15 U	0.15 U	0.15 U
Bromoform	UG/M3	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Bromomethane	UG/M3	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon disulfide	UG/M3	17	0.343 J	4.7	0.059 U	0.059 U
Carbon tetrachloride	UG/M3	1.13 J	0.25 J	0.13 U	0.38 J	0.38 J
Chlorobenzene	UG/M3	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U
Chloroethane	UG/M3	39.6	40.4	19	0.12 U	0.12 U
Chloroform	UG/M3	3.4	0.98	0.586 J	0.586 J	0.586 J
Chloromethane	UG/M3	0.083 U	0.083 U	0.083 U	1.12 J	1.09 J
Cyclohexane	UG/M3	4.8	1.4	1.0	2.8	2.8
Dichlorodifluoromethane	UG/M3	2.0	2.0	2.0	2.0	2.0
Ethanol	UG/M3	17	105	73.9	446.2 J	493.9 J
Ethyl acetate	UG/M3	0.649 J	0.18 U	0.613 J	3.784 J	2.16 J
Ethylbenzene	UG/M3	0.521 J	0.782 J	0.521 J	2.6	2.6
Isopropyl alcohol	UG/M3	2.29 J	0.19 U	0.19 U	0.19 U	0.19 U
Methyl ethyl ketone (2-Butanone)	UG/M3	2.57 J	6.8	5.427 J	1.8 J	1.47 J
Methyl methacrylate	UG/M3	0.070 U	0.070 U	0.778 J	0.33 J	0.409 J
Methyl tert-butyl ether	UG/M3	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U
Methylene chloride	UG/M3	0.63 J	0.69 J	0.52 J	1.1 J	1.0 J
Naphthalene	UG/M3	0.786 U	0.21 U	0.21 U	0.21 U	0.26 U
n-Heptane	UG/M3	2.9	2.0	2.0	1.6	1.6
n-Hexane	UG/M3	4.2	4.9	3.9	1.1	1.1
Styrene	UG/M3	0.064 U	0.17 J	0.085 J	1.3	1.3

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 UG/M3 - Microgram per cubic meter.

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-151-22-SSA	H-151-22-SSB	H-151-22-SSC	H-152-22-IA	H-152-22-IA
Sample ID		224121-SSA-151	224121-SSB-151	224121-SSC-151	224121-IA-152	FD-031022-2
Matrix		Subslab Vapor	Subslab Vapor	Subslab Vapor	Indoor Air	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/10/22	03/10/22	03/10/22	03/10/22	03/10/22
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	0.728 J	1.24 J	1.3 J	0.879 J	0.879 J
Tetrachloroethene	UG/M3	6.1	4.1	1.29 J	1.4	2.0
Tetrahydrofuran	UG/M3	0.086 U	1.2	0.086 U	0.15 J	0.15 J
Toluene	UG/M3	3.0	3.4	3.4	7.2	6.0
Trichloroethene	UG/M3	0.16 J	0.12 U	0.12 U	0.16 J	0.16 J
Trichlorofluoromethane	UG/M3	0.955 J	1.01 J	0.899 J	1.1	1.1
Vinyl acetate	UG/M3	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Vinyl chloride	UG/M3	3.1	3.1	1.8	0.074 U	0.074 U
m&p-Xylene	UG/M3	1.48 J	3.0	1.61 J	8.7	8.2
o-Xylene	UG/M3	0.825 J	1.3	0.695 J	2.2	1.7
Xylene (total)	UG/M3	2.3 J	4.3	2.3 J	10	10

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-152-22-SS	H-152-22-SS	H-153-22-BA	H-153-22-BA	H-153-22-IA
Sample ID		224121-SS-152	FD-031022-1	224121-BA-153	FD-031122-2	224121-IA-153
Matrix		Subslab Vapor	Subslab Vapor	Indoor Air	Indoor Air	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/10/22	03/10/22	03/11/22	03/11/22	03/11/22
Parameter	Units		Field Duplicate (1-1)		Field Duplicate (1-1)	
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.38 J	0.38 J	0.38 J	0.38 J	0.38 J
1,1-Dichloroethane	UG/M3	6.9	6.9	0.10 U	0.10 U	0.10 U
1,1-Dichloroethene	UG/M3	0.095 U	0.095 U	0.12 J	0.12 J	0.095 U
1,2,4-Trichlorobenzene	UG/M3	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
1,2,4-Trimethylbenzene	UG/M3	0.639 J	0.39 J	0.98	0.98	0.541 J
1,2-Dichlorobenzene	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2-Dichloroethane	UG/M3	4.0	4.0	0.11 U	0.11 U	0.11 U
1,2-Dichloroethene (cis)	UG/M3	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U
1,2-Dichloroethene (trans)	UG/M3	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.20 J	0.20 J	0.29 J	0.29 J	0.15 J
1,3-Butadiene	UG/M3	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
1,4-Dichlorobenzene	UG/M3	0.11 U	0.11 U	0.12 J	0.12 J	0.12 J
1,4-Dioxane	UG/M3	1.91 J	2.09 J	0.14 U	0.14 U	0.14 U
1-Propene	UG/M3	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U
2,2,4-Trimethylpentane	UG/M3	12	13	1.9 J	0.561 J	0.561 J
2-Hexanone	UG/M3	0.819 J	0.983 J	0.086 U	0.086 U	0.086 U
4-Ethyltoluene	UG/M3	0.16 U	0.16 U	0.39 J	0.44 J	0.29 J
4-Methyl-2-pentanone	UG/M3	1.31 J	1.56 J	0.070 U	0.16 J	0.070 U
Acetone	UG/M3	205	219	19	17	58
Benzene	UG/M3	0.96	0.96	0.96	0.96	0.64
Bromoethene (Vinyl Bromide)	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-152-22-SS	H-152-22-SS	H-153-22-BA	H-153-22-BA	H-153-22-IA
Sample ID		224121-SS-152	FD-031022-1	224121-BA-153	FD-031122-2	224121-IA-153
Matrix		Subslab Vapor	Subslab Vapor	Indoor Air	Indoor Air	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/10/22	03/10/22	03/11/22	03/11/22	03/11/22
Parameter	Units		Field Duplicate (1-1)		Field Duplicate (1-1)	
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Bromoform	UG/M3	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Bromomethane	UG/M3	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon disulfide	UG/M3	0.467 J	0.529 J	0.059 U	0.059 U	0.059 U
Carbon tetrachloride	UG/M3	0.31 J	0.31 J	0.38 J	0.31 J	0.38 J
Chlorobenzene	UG/M3	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U
Chloroethane	UG/M3	83.4	84.7	0.12 U	0.12 U	0.12 U
Chloroform	UG/M3	2.4	2.4	0.15 J	0.098 J	0.29 J
Chloromethane	UG/M3	0.083 U	0.083 U	0.867 J	0.95 J	0.888 J
Cyclohexane	UG/M3	0.083 U	0.083 U	0.551 J	0.516 J	0.344 J
Dichlorodifluoromethane	UG/M3	2.0	2.0	2.0	2.0	2.0
Ethanol	UG/M3	158	157	23.7	26.2	239.9 J
Ethyl acetate	UG/M3	2.23 J	1.91 J	1.44 J	1.84 J	38.2
Ethylbenzene	UG/M3	0.35 J	0.30 J	0.608 J	0.608 J	0.564 J
Isopropyl alcohol	UG/M3	0.19 U	0.19 U	0.19 U	19	0.19 U
Methyl ethyl ketone (2-Butanone)	UG/M3	20	21	1.09 J	2.51 J	8.8
Methyl methacrylate	UG/M3	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U
Methyl tert-butyl ether	UG/M3	0.036 J	0.036 U	0.036 U	0.036 U	0.036 U
Methylene chloride	UG/M3	0.80 J	0.87 J	0.66 J	0.66 J	0.69 J
Naphthalene	UG/M3	0.26 U	0.21 U	0.21 U	0.16 U	0.16 U
n-Heptane	UG/M3	3.7	3.7	1.2	0.061 U	0.061 U
n-Hexane	UG/M3	6.7	7.0	1.8	1.8	0.067 U
Styrene	UG/M3	0.17 J	0.17 J	0.085 J	0.085 J	0.13 J

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-152-22-SS	H-152-22-SS	H-153-22-BA	H-153-22-BA	H-153-22-IA
Sample ID		224121-SS-152	FD-031022-1	224121-BA-153	FD-031122-2	224121-IA-153
Matrix		Subslab Vapor	Subslab Vapor	Indoor Air	Indoor Air	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/10/22	03/10/22	03/11/22	03/11/22	03/11/22
Parameter	Units		Field Duplicate (1-1)		Field Duplicate (1-1)	
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	5.2 J	2.39 J	0.364 J	0.394 J	0.424 J
Tetrachloroethene	UG/M3	1.22 J	1.29 J	0.47 J	0.27 J	0.27 J
Tetrahydrofuran	UG/M3	0.88	0.88	0.086 U	0.086 U	0.295 J
Toluene	UG/M3	2.3	2.6	3.8	3.8	2.6
Trichloroethene	UG/M3	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Trichlorofluoromethane	UG/M3	1.07 J	1.1	0.955 J	1.01 J	0.955 J
Vinyl acetate	UG/M3	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Vinyl chloride	UG/M3	4.9	4.9	0.074 U	0.074 U	0.074 U
m&p-Xylene	UG/M3	1.3 J	0.912 J	2.2	2.2	1.56 J
o-Xylene	UG/M3	0.434 J	0.35 J	0.738 J	0.738 J	0.564 J
Xylene (total)	UG/M3	1.74 J	1.26 J	3.0	3.0	2.13 J

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-153-22-OA	H-153-22-SS	H-153-22-SS	H-154-22-IA	H-154-22-OA
Sample ID		224121-OA-153	224121-SS-153	FD-031122-1	224121-IA-154	224121-OA-154
Matrix		Outdoor Air	Subslab Vapor	Subslab Vapor	Indoor Air	Outdoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/11/22	03/11/22	03/11/22	03/24/22	03/24/22
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.093 U	0.093 U	0.093 U	0.44 J	0.093 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.46 J	0.38 J	0.46 J	0.38 J	0.31 J
1,1-Dichloroethane	UG/M3	0.10 U	7.3	11	0.10 U	0.10 U
1,1-Dichloroethene	UG/M3	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
1,2,4-Trichlorobenzene	UG/M3	0.15 U	0.15 U	0.11 U	0.11 U	0.11 U
1,2,4-Trimethylbenzene	UG/M3	0.492 J	0.44 J	0.29 J	0.15 J	0.20 J
1,2-Dichlorobenzene	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2-Dichloroethane	UG/M3	0.11 U	3.6	5.3	0.11 U	0.11 U
1,2-Dichloroethene (cis)	UG/M3	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U
1,2-Dichloroethene (trans)	UG/M3	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.15 J	0.15 J	0.12 U	0.12 U	0.12 U
1,3-Butadiene	UG/M3	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
1,4-Dichlorobenzene	UG/M3	0.18 J	0.12 J	0.12 J	0.12 J	0.11 U
1,4-Dioxane	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1-Propene	UG/M3	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U
2,2,4-Trimethylpentane	UG/M3	0.467 J	14	19	0.28 J	0.28 J
2-Hexanone	UG/M3	0.451 J	1.23 J	1.84 J	0.086 U	0.086 U
4-Ethyltoluene	UG/M3	0.29 J	0.16 U	0.16 U	0.16 U	0.16 U
4-Methyl-2-pentanone	UG/M3	0.41 J	2.0	2.5	0.070 U	0.070 U
Acetone	UG/M3	39.7	116	155	18	8.8
Benzene	UG/M3	0.64	1.9	2.9	0.575 J	0.575 J
Bromoethene (Vinyl Bromide)	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-153-22-OA	H-153-22-SS	H-153-22-SS	H-154-22-IA	H-154-22-OA
Sample ID		224121-OA-153	224121-SS-153	FD-031122-1	224121-IA-154	224121-OA-154
Matrix		Outdoor Air	Subslab Vapor	Subslab Vapor	Indoor Air	Outdoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/11/22	03/11/22	03/11/22	03/24/22	03/24/22
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Bromoform	UG/M3	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Bromomethane	UG/M3	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon disulfide	UG/M3	0.059 U	0.19 J	1.37 J	0.059 U	0.059 U
Carbon tetrachloride	UG/M3	0.38 J	0.25 J	0.25 J	0.31 J	0.31 J
Chlorobenzene	UG/M3	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U
Chloroethane	UG/M3	0.12 U	146	209	0.12 U	0.12 U
Chloroform	UG/M3	0.098 J	49.3	71.3	0.24 J	0.098 J
Chloromethane	UG/M3	0.083 U	0.083 U	0.083 U	0.929 J	0.929 J
Cyclohexane	UG/M3	0.344 J	1.7	2.4	0.413 J	0.17 J
Dichlorodifluoromethane	UG/M3	2.0	2.0	2.0	2.0	2.0
Ethanol	UG/M3	20.9	62.7 J	13	50.5	11
Ethyl acetate	UG/M3	3.03 J	8.3 J	1.01 J	2.38 J	0.18 U
Ethylbenzene	UG/M3	0.434 J	0.87 J	0.17 J	1.7	0.22 J
Isopropyl alcohol	UG/M3	0.19 U	133	0.19 U	5.4	2.02 J
Methyl ethyl ketone (2-Butanone)	UG/M3	3.333 J	25	30.1	1.18 J	0.59 J
Methyl methacrylate	UG/M3	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U
Methyl tert-butyl ether	UG/M3	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U
Methylene chloride	UG/M3	1.6 J	1.5 J	0.97 J	1.7	0.73 J
Naphthalene	UG/M3	0.42 U	0.26 U	0.21 U	0.16 U	0.10 U
n-Heptane	UG/M3	0.061 U	4.9	6.1	1.2	0.41 J
n-Hexane	UG/M3	2.1	13	17	1.1	0.423 J
Styrene	UG/M3	0.26 J	0.682 J	0.064 U	0.064 U	0.064 U

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 UG/M3 - Microgram per cubic meter.

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-153-22-OA	H-153-22-SS	H-153-22-SS	H-154-22-IA	H-154-22-OA
Sample ID		224121-OA-153	224121-SS-153	FD-031122-1	224121-IA-154	224121-OA-154
Matrix		Outdoor Air	Subslab Vapor	Subslab Vapor	Indoor Air	Outdoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/11/22	03/11/22	03/11/22	03/24/22	03/24/22
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	0.879 J	0.94 J	1.18 J	0.15 J	0.12 U
Tetrachloroethene	UG/M3	0.746 J	8.8	12	4.1	0.16 U
Tetrahydrofuran	UG/M3	0.12 J	0.442 J	0.472 J	0.086 U	0.086 U
Toluene	UG/M3	3.4	6.8 J	3.8 J	2.6	1.1
Trichloroethene	UG/M3	0.12 U	0.16 J	0.21 J	0.12 U	0.12 U
Trichlorofluoromethane	UG/M3	1.1	1.7	1.7	0.955 J	0.955 J
Vinyl acetate	UG/M3	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Vinyl chloride	UG/M3	0.074 U	16	23	0.074 U	0.074 U
m&p-Xylene	UG/M3	1.35 J	3.0 J	0.738 J	4.8	0.564 J
o-Xylene	UG/M3	0.478 J	1.3 J	0.30 J	1.7	0.26 J
Xylene (total)	UG/M3	1.82 J	4.3 J	1.04 J	6.5	0.825 J

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 UG/M3 - Microgram per cubic meter.

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-154-22-SS	H-155-22-IA	H-155-22-OA	H-155-22-SS	H-156-22-IA
Sample ID		224212-SS-154	224121-IA-155	224121-OA-155	224212-SS-155	224121-IA-156
Matrix		Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/24/22	03/31/22	03/31/22	03/31/22	03/31/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.928 J	0.11 J	0.093 U	7.1	0.093 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.38 J	0.61 J	0.54 J	0.766 J	0.54 J
1,1-Dichloroethane	UG/M3	0.10 U	0.10 U	0.10 U	2.0	0.10 U
1,1-Dichloroethene	UG/M3	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
1,2,4-Trichlorobenzene	UG/M3	0.37 J	0.11 U	0.11 U	0.11 U	0.11 U
1,2,4-Trimethylbenzene	UG/M3	2.0	0.590 J	0.787 J	0.98	3.4
1,2-Dichlorobenzene	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2-Dichloroethane	UG/M3	0.11 U	0.11 U	0.11 U	0.32 J	0.20 J
1,2-Dichloroethene (cis)	UG/M3	0.091 U	0.091 U	0.091 U	17	0.091 U
1,2-Dichloroethene (trans)	UG/M3	0.083 U	0.083 U	0.083 U	1.6	0.083 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.541 J	0.12 U	0.20 J	0.34 J	0.98
1,3-Butadiene	UG/M3	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
1,4-Dichlorobenzene	UG/M3	0.11 U	0.36 U	0.30 U	0.12 U	0.30 U
1,4-Dioxane	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1-Propene	UG/M3	0.065 U	0.065 U	0.065 U	0.065 U	17
2,2,4-Trimethylpentane	UG/M3	0.561 J	0.93	0.794 J	0.701 J	10
2-Hexanone	UG/M3	2.5	0.086 U	0.086 U	0.737 J	0.086 U
4-Ethyltoluene	UG/M3	0.885 J	0.34 J	0.44 J	0.44 J	2.0
4-Methyl-2-pentanone	UG/M3	2.0	0.451 J	0.37 J	0.901 J	1.72 J
Acetone	UG/M3	100	38.2	190 D	63.2	83.6
Benzene	UG/M3	1.3	1.3	1.3	0.64	1.3
Bromoethene (Vinyl Bromide)	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-154-22-SS	H-155-22-IA	H-155-22-OA	H-155-22-SS	H-156-22-IA
Sample ID		224212-SS-154	224121-IA-155	224121-OA-155	224212-SS-155	224121-IA-156
Matrix		Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/24/22	03/31/22	03/31/22	03/31/22	03/31/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Bromoform	UG/M3	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Bromomethane	UG/M3	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon disulfide	UG/M3	0.059 U	0.22 J	0.059 UJ	1.06 J	2.5 J
Carbon tetrachloride	UG/M3	0.38 J	0.38 J	0.38 J	0.38 J	0.44 J
Chlorobenzene	UG/M3	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U
Chloroethane	UG/M3	0.12 U	0.12 U	0.12 U	6.1	0.12 U
Chloroform	UG/M3	2.0	0.488 J	0.44 J	2.9	0.635 J
Chloromethane	UG/M3	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Cyclohexane	UG/M3	3.1	0.379 J	1.4	0.620 J	1.7
Dichlorodifluoromethane	UG/M3	2.0	2.5	2.5	2.5	2.5
Ethanol	UG/M3	17	136	286 D	15	261.7 J
Ethyl acetate	UG/M3	3.82 J	2.67 J	3.21 J	1.33 J	6.234 J
Ethylbenzene	UG/M3	15	0.87	4.3	8.7	2.6
Isopropyl alcohol	UG/M3	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Methyl ethyl ketone (2-Butanone)	UG/M3	266	3.598 J	240 D	58.4	30.1
Methyl methacrylate	UG/M3	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U
Methyl tert-butyl ether	UG/M3	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U
Methylene chloride	UG/M3	0.69 J	2.1	1.7	1.2 J	1.3 J
Naphthalene	UG/M3	0.839 U	0.052 U	0.10 U	0.10 U	0.052 U
n-Heptane	UG/M3	9.4	2.0	2.0	2.9	5.7
n-Hexane	UG/M3	0.067 U	1.8	0.067 U	0.067 U	0.067 U
Styrene	UG/M3	0.064 U	0.13 J	0.426 J	0.064 U	0.38 J

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-154-22-SS	H-155-22-IA	H-155-22-OA	H-155-22-SS	H-156-22-IA
Sample ID		224212-SS-154	224121-IA-155	224121-OA-155	224212-SS-155	224121-IA-156
Matrix		Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/24/22	03/31/22	03/31/22	03/31/22	03/31/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	1.42 J	0.303 J	0.515 J	0.758 J	0.576 J
Tetrachloroethene	UG/M3	4.7	2.7	2.0	157	0.814 J
Tetrahydrofuran	UG/M3	172	0.88	107	30.4	21
Toluene	UG/M3	63.7	14	20	27	21
Trichloroethene	UG/M3	0.12 U	0.699 J	0.806 J	37	0.12 U
Trichlorofluoromethane	UG/M3	1.07 J	1.1	1.1	1.1	1.1
Vinyl acetate	UG/M3	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Vinyl chloride	UG/M3	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U
m&p-Xylene	UG/M3	19	2.2	5.6	11	6.9
o-Xylene	UG/M3	4.3	0.87	1.7	3.0	3.0
Xylene (total)	UG/M3	23	3.5	7.4	14	10.0

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-156-22-OA	H-156-22-SS	H-157-22-IA	H-157-22-OA	H-157-22-SS
Sample ID		224121-OA-156	224212-SS-156	224121-IA-157	224121-OA-157	224212-SS-157
Matrix		Outdoor Air	Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/31/22	03/31/22	03/31/22	03/31/22	03/31/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.093 U	0.093 U	0.11 J	0.093 U	3.8
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.54 J	0.54 J	0.46 J	0.54 J	0.61 J
1,1-Dichloroethane	UG/M3	0.10 U	0.10 U	0.10 U	0.10 U	0.32 J
1,1-Dichloroethene	UG/M3	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
1,2,4-Trichlorobenzene	UG/M3	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
1,2,4-Trimethylbenzene	UG/M3	0.44 J	2.9	0.541 J	0.34 J	4.4
1,2-Dichlorobenzene	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2-Dichloroethane	UG/M3	0.11 U	0.11 U	0.24 J	0.11 U	0.11 U
1,2-Dichloroethene (cis)	UG/M3	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U
1,2-Dichloroethene (trans)	UG/M3	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.12 U	0.885 J	0.15 J	0.12 U	0.98
1,3-Butadiene	UG/M3	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
1,4-Dichlorobenzene	UG/M3	0.18 U	0.24 U	0.18 U	0.12 U	0.30 U
1,4-Dioxane	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1-Propene	UG/M3	0.065 U	0.065 U	0.065 U	0.065 U	17
2,2,4-Trimethylpentane	UG/M3	0.514 J	0.888 J	0.37 J	0.28 J	1.4
2-Hexanone	UG/M3	0.086 U	2.9	0.086 U	0.086 U	7.0
4-Ethyltoluene	UG/M3	0.25 J	0.98	0.44 J	0.20 J	1.5
4-Methyl-2-pentanone	UG/M3	1.23 J	1.60 J	0.29 J	0.574 J	3.3
Acetone	UG/M3	14	101	40.9	14	161
Benzene	UG/M3	0.96	1.6	0.64	0.575 J	2.2
Bromoethene (Vinyl Bromide)	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-156-22-OA	H-156-22-SS	H-157-22-IA	H-157-22-OA	H-157-22-SS
Sample ID		224121-OA-156	224212-SS-156	224121-IA-157	224121-OA-157	224212-SS-157
Matrix		Outdoor Air	Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/31/22	03/31/22	03/31/22	03/31/22	03/31/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Bromoform	UG/M3	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Bromomethane	UG/M3	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon disulfide	UG/M3	0.25 J	0.374 J	0.059 UJ	0.059 UJ	2.2 J
Carbon tetrachloride	UG/M3	0.38 J	0.31 J	0.38 J	0.38 J	0.57 J
Chlorobenzene	UG/M3	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U
Chloroethane	UG/M3	0.12 U	0.12 U	0.12 U	0.12 U	1.03 J
Chloroform	UG/M3	0.15 J	0.20 J	0.586 J	0.15 J	7.3
Chloromethane	UG/M3	1.20 J	0.083 U	2.602 J	1.20 J	0.083 U
Cyclohexane	UG/M3	0.083 U	2.4	0.083 U	0.083 U	4.1
Dichlorodifluoromethane	UG/M3	2.5	2.5	2.5	2.5	2.5
Ethanol	UG/M3	18	33.0	808.2 J	17	57.7
Ethyl acetate	UG/M3	1.05 J	2.77 J	8.6	0.649 J	7.6
Ethylbenzene	UG/M3	0.564 J	24	0.738 J	0.35 J	31
Isopropyl alcohol	UG/M3	3.245 J	0.19 U	22	4.449 J	0.19 U
Methyl ethyl ketone (2-Butanone)	UG/M3	2.01 J	240 D	2.62 J	1.74 J	380 D
Methyl methacrylate	UG/M3	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U
Methyl tert-butyl ether	UG/M3	0.036 U	0.25 J	0.036 U	0.036 U	0.036 U
Methylene chloride	UG/M3	1.2 J	0.97 J	0.90 J	0.83 J	0.76 J
Naphthalene	UG/M3	0.052 U	0.629 U	0.052 U	0.052 U	0.996 U
n-Heptane	UG/M3	0.82	9.8	0.82	0.574 J	16
n-Hexane	UG/M3	1.1	0.067 U	1.1	0.564 J	0.067 U
Styrene	UG/M3	0.13 J	0.724 J	0.13 J	0.13 J	0.85

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-156-22-OA	H-156-22-SS	H-157-22-IA	H-157-22-OA	H-157-22-SS
Sample ID		224121-OA-156	224212-SS-156	224121-IA-157	224121-OA-157	224212-SS-157
Matrix		Outdoor Air	Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/31/22	03/31/22	03/31/22	03/31/22	03/31/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	0.27 J	1.58 J	0.788 J	0.27 J	2.97 J
Tetrachloroethene	UG/M3	0.54 J	7.5	1.02 J	0.61 J	11
Tetrahydrofuran	UG/M3	0.442 J	214	0.354 J	0.12 J	280 D
Toluene	UG/M3	4.5	85.2	3.8	3.0	109
Trichloroethene	UG/M3	0.12 U	0.12 U	0.21 J	0.12 U	5.9
Trichlorofluoromethane	UG/M3	1.1	1.1	1.1	1.1	1.1
Vinyl acetate	UG/M3	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Vinyl chloride	UG/M3	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U
m&p-Xylene	UG/M3	1.7	30	2.2	1.13 J	38
o-Xylene	UG/M3	0.695 J	7.4	0.782 J	0.434 J	9.6
Xylene (total)	UG/M3	2.56 J	36	3.0	1.56 J	47.3

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-16-09-22-IA	H-16-09-22-SS	H-21-09-22-IA	H-21-09-22-SS	H-27-09-22-IA
Sample ID		224121-IA-16-09	224121-SS-16-09	224121-IA-21-09	224121-SS-21-09	224121-IA-27-09
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/07/22	02/07/22	02/05/22	02/05/22	02/07/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.15 U	0.43 U	0.43 U	3.1	0.15 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.48 J	0.85 U	1.2 J	0.85 U	0.66 J
1,1-Dichloroethane	UG/M3	0.12 U	2.3	0.35 U	1.7	0.12 U
1,1-Dichloroethene	UG/M3	0.11 U	0.3 U	0.3 U	0.3 U	0.11 U
1,2,4-Trichlorobenzene	UG/M3	0.18 UJ	0.52 UJ	0.52 U	0.52 U	0.18 UJ
1,2,4-Trimethylbenzene	UG/M3	0.72	0.22 U	1.0	2.1	0.44
1,2-Dichlorobenzene	UG/M3	0.12 U	0.35 U	0.35 U	0.35 U	0.12 U
1,2-Dichloroethane	UG/M3	0.80	1.0	0.37 U	3.6	0.13 U
1,2-Dichloroethene (cis)	UG/M3	0.1 U	0.29 U	0.29 U	0.29 U	0.1 U
1,2-Dichloroethene (trans)	UG/M3	0.11 U	0.31 U	0.31 U	0.31 U	0.11 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.24 U	0.69 U	0.69 U	0.69 U	0.24 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.21	0.26 U	0.30 J	0.84	0.13 J
1,3-Butadiene	UG/M3	0.065 U	0.19 U	0.37	0.19 U	0.065 U
1,4-Dichlorobenzene	UG/M3	0.14 U	0.39 U	0.39 U	0.72	0.14 U
1,4-Dioxane	UG/M3	0.1 U	0.3 U	0.3 U	0.3 U	0.1 U
1-Propene	UG/M3	0.53 U	1.5 U	1.5 U	1.5 U	0.53 U
2,2,4-Trimethylpentane	UG/M3	NA	NA	NA	NA	NA
2-Hexanone	UG/M3	0.072 U	0.21 U	0.21 U	0.21 U	0.072 U
4-Ethyltoluene	UG/M3	0.17	0.3 U	0.3 U	0.77	0.12 J
4-Methyl-2-pentanone	UG/M3	0.073 U	0.21 U	0.21 U	0.47	0.073 U
Acetone	UG/M3	58	39	27	73	13
Benzene	UG/M3	1.2	0.62	0.82	0.24 U	1.2
Bromoethene (Vinyl Bromide)	UG/M3	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-16-09-22-IA	H-16-09-22-SS	H-21-09-22-IA	H-21-09-22-SS	H-27-09-22-IA
Sample ID		224121-IA-16-09	224121-SS-16-09	224121-IA-21-09	224121-SS-21-09	224121-IA-27-09
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/07/22	02/07/22	02/05/22	02/05/22	02/07/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.16 U	0.47 U	0.47 U	0.47 U	0.16 U
Bromoform	UG/M3	0.25 U	0.7 U	0.7 U	0.7 U	0.25 U
Bromomethane	UG/M3	0.11 U	0.32 U	0.32 U	0.32 U	0.11 U
Carbon disulfide	UG/M3	0.1 U	6.9	0.29 U	0.35 J	0.1 U
Carbon tetrachloride	UG/M3	0.51	0.5 U	0.5 U	0.5 U	0.18 J
Chlorobenzene	UG/M3	0.11 U	0.31 U	0.31 U	0.31 U	0.11 U
Chloroethane	UG/M3	0.067 U	31	0.19 U	4.5	0.067 U
Chloroform	UG/M3	0.62	0.79	0.46 U	5.1	0.16 U
Chloromethane	UG/M3	0.88	0.38 J	1.1	0.47	1.0
Cyclohexane	UG/M3	0.49	0.23 U	0.23 U	0.23 U	0.079 U
Dichlorodifluoromethane	UG/M3	2.0	2.0	2.6	2.6	2.1
Ethanol	UG/M3	88 D	19	150	54	56
Ethyl acetate	UG/M3	0.94 J	1.8 UJ	1.8 UJ	4.0 J	0.64 UJ
Ethylbenzene	UG/M3	1.9	0.32 J	0.28 J	0.70	0.78
Isopropyl alcohol	UG/M3	16 J	1.7 J	35	31	2.4 J
Methyl ethyl ketone (2-Butanone)	UG/M3	43	5.9 J	4.3 J	18	1.5 J
Methyl methacrylate	UG/M3	NA	NA	NA	NA	NA
Methyl tert-butyl ether	UG/M3	0.097 U	0.28 U	0.28 U	0.28 U	0.097 U
Methylene chloride	UG/M3	4.7	1.6 U	3.4 J	1.6 U	1.3
Naphthalene	UG/M3	0.15 J	0.33 U	0.33 U	6.5	0.16 J
n-Heptane	UG/M3	0.091 U	0.92	0.58	1.4	0.53
n-Hexane	UG/M3	0.68 J	1.8 U	2.9 J	2.0 J	0.65 J
Styrene	UG/M3	0.29	0.22 U	0.23 J	0.32 J	0.18

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-16-09-22-IA	H-16-09-22-SS	H-21-09-22-IA	H-21-09-22-SS	H-27-09-22-IA
Sample ID		224121-IA-16-09	224121-SS-16-09	224121-IA-21-09	224121-SS-21-09	224121-IA-27-09
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/07/22	02/07/22	02/05/22	02/05/22	02/07/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	NA	NA	NA	NA	NA
Tetrachloroethene	UG/M3	0.46	7.8	0.52 U	100	0.34
Tetrahydrofuran	UG/M3	48	26	0.48 U	0.48 U	0.17 U
Toluene	UG/M3	25	1.2	2.1	7.6	2.8
Trichloroethene	UG/M3	0.13 U	0.36 U	0.36 U	4.4	0.13 U
Trichlorofluoromethane	UG/M3	1.0	1.1 J	1.3 J	1.6 J	1.1
Vinyl acetate	UG/M3	0.66 UJ	1.9 UJ	1.9 UJ	43 J	0.66 UJ
Vinyl chloride	UG/M3	0.08 U	1.9	0.23 U	0.23 U	0.08 U
m&p-Xylene	UG/M3	8.6	0.49 U	0.94	1.4	2.4
o-Xylene	UG/M3	3.3	0.22 U	0.39 J	0.80	0.88
Xylene (total)	UG/M3	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-27-09-22-OA	H-27-09-22-SS	H-30-09-22-IA	H-30-09-22-OA	H-30-09-22-SS
Sample ID		224121-OA-27-09	224121-SS-27-09	224121-IA-30-09	224121-OA-30-09	224121-SS-30-09
Matrix		Outdoor Air	Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/07/22	02/07/22	03/08/22	03/08/22	03/08/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.15 U	0.43 U	0.093 U	0.093 U	0.11 J
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.47 J	0.85 U	0.38 J	0.38 J	0.46 J
1,1-Dichloroethane	UG/M3	0.12 U	4.5	0.10 U	0.10 U	0.81
1,1-Dichloroethene	UG/M3	0.11 U	0.3 U	0.095 U	0.095 U	0.095 U
1,2,4-Trichlorobenzene	UG/M3	0.18 UJ	0.52 UJ	0.11 UJ	0.11 UJ	0.11 UJ
1,2,4-Trimethylbenzene	UG/M3	0.29	0.22 U	1.5	3.9	0.14 U
1,2-Dichlorobenzene	UG/M3	0.12 U	0.35 U	0.14 U	0.14 U	0.14 U
1,2-Dichloroethane	UG/M3	0.13 U	4.2	0.11 U	0.11 U	0.11 U
1,2-Dichloroethene (cis)	UG/M3	0.1 U	0.29 U	0.091 U	0.091 U	0.091 U
1,2-Dichloroethene (trans)	UG/M3	0.11 U	0.31 U	0.083 U	0.083 U	0.083 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.24 U	0.69 U	0.20 U	0.20 U	0.20 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.11 J	0.26 U	0.34 J	1.5	0.12 U
1,3-Butadiene	UG/M3	0.065 U	0.19 U	0.064 U	0.064 U	0.064 U
1,4-Dichlorobenzene	UG/M3	0.14 U	0.39 U	0.601 U	0.11 U	0.11 U
1,4-Dioxane	UG/M3	0.1 U	0.3 U	0.14 U	0.14 U	0.14 U
1-Propene	UG/M3	0.53 U	1.5 U	0.065 U	0.065 U	0.065 U
2,2,4-Trimethylpentane	UG/M3	NA	NA	0.42 J	0.37 J	0.065 U
2-Hexanone	UG/M3	0.072 U	0.21 U	0.086 U	0.086 U	0.086 U
4-Ethyltoluene	UG/M3	0.11 U	0.3 U	0.16 U	1.5	0.16 U
4-Methyl-2-pentanone	UG/M3	0.073 U	0.21 U	0.25 J	0.070 U	0.070 U
Acetone	UG/M3	7.2	33	46.1	8.6	0.14 U
Benzene	UG/M3	1.2	0.24 U	0.64	0.64	0.061 U
Bromoethene (Vinyl Bromide)	UG/M3	NA	NA	0.15 U	0.15 U	0.15 U

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-27-09-22-OA	H-27-09-22-SS	H-30-09-22-IA	H-30-09-22-OA	H-30-09-22-SS
Sample ID		224121-OA-27-09	224121-SS-27-09	224121-IA-30-09	224121-OA-30-09	224121-SS-30-09
Matrix		Outdoor Air	Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/07/22	02/07/22	03/08/22	03/08/22	03/08/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.16 U	0.47 U	0.15 U	0.15 U	0.15 U
Bromoform	UG/M3	0.25 U	0.7 U	0.24 U	0.24 U	0.24 U
Bromomethane	UG/M3	0.11 U	0.32 U	0.13 U	0.13 U	0.13 U
Carbon disulfide	UG/M3	0.1 U	0.42 J	0.561 U	0.343 U	2.8
Carbon tetrachloride	UG/M3	0.40	0.5 U	0.44 J	0.44 J	0.50 J
Chlorobenzene	UG/M3	0.11 U	0.31 U	0.078 U	0.078 U	0.078 U
Chloroethane	UG/M3	0.067 U	52	0.12 U	0.12 U	14
Chloroform	UG/M3	0.16 U	2.0	0.83 J	0.098 J	0.098 U
Chloromethane	UG/M3	1.1	0.99	1.09 J	1.01 J	0.083 U
Cyclohexane	UG/M3	0.23	0.23 U	0.083 U	0.083 U	0.083 U
Dichlorodifluoromethane	UG/M3	2.1	2.0	2.0	2.0	2.0
Ethanol	UG/M3	18	62	1,041 J	59.9	18
Ethyl acetate	UG/M3	0.64 UJ	13 J	9.4	0.865 J	1.95 J
Ethylbenzene	UG/M3	0.32	0.25 U	0.87	0.39 J	0.087 U
Isopropyl alcohol	UG/M3	2.0 J	11 J	0.19 U	3.81 J	0.19 U
Methyl ethyl ketone (2-Butanone)	UG/M3	1.1 U	22	1.83 J	0.885 J	0.14 U
Methyl methacrylate	UG/M3	NA	NA	0.532 J	0.37 J	0.070 U
Methyl tert-butyl ether	UG/M3	0.097 U	0.28 U	0.036 U	0.036 U	0.036 U
Methylene chloride	UG/M3	1.3	1.6 U	4.9	0.73 J	0.49 U
Naphthalene	UG/M3	0.12 U	0.33 U	0.42 U	0.16 U	0.26 U
n-Heptane	UG/M3	0.44	2.4	0.061 U	0.061 U	504 D
n-Hexane	UG/M3	0.64 U	3.3 J	0.70	0.493 J	560 D
Styrene	UG/M3	0.083 J	0.22 U	0.469 J	0.085 J	0.064 U

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-27-09-22-OA	H-27-09-22-SS	H-30-09-22-IA	H-30-09-22-OA	H-30-09-22-SS
Sample ID		224121-OA-27-09	224121-SS-27-09	224121-IA-30-09	224121-OA-30-09	224121-SS-30-09
Matrix		Outdoor Air	Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/07/22	02/07/22	03/08/22	03/08/22	03/08/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	NA	NA	1.03 J	0.12 U	2.15 J
Tetrachloroethene	UG/M3	0.35	0.52 U	1.4	0.54 J	5.4
Tetrahydrofuran	UG/M3	0.17 U	2.5 J	0.086 U	0.086 U	0.086 U
Toluene	UG/M3	2.1	2.3	3.4	2.3	0.049 U
Trichloroethene	UG/M3	0.13 U	0.36 U	0.12 U	0.12 U	0.12 U
Trichlorofluoromethane	UG/M3	1.0	1.1 J	1.01 J	1.01 J	1.07 J
Vinyl acetate	UG/M3	0.66 UJ	1.9 UJ	0.053 U	0.053 U	0.053 U
Vinyl chloride	UG/M3	0.08 U	3.3	0.074 U	0.074 U	1.0
m&p-Xylene	UG/M3	0.92	0.49 U	2.6	1.3 J	0.16 U
o-Xylene	UG/M3	0.37	0.22 U	0.87	0.564 J	0.087 U
Xylene (total)	UG/M3	NA	NA	3.5	1.87 J	0.868 J

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-35-09-22-IA	H-35-09-22-SS	H-40-09-22-IA	H-40-09-22-OA	H-40-09-22-SS
Sample ID		224121-IA-35-09	224121-SS-35-09	224121-IA-40-09	224121-OA-40-09	224121-SS-40-09
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		01/19/22	01/19/22	01/25/22	01/25/22	01/25/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.088 U	0.5 U	0.088 U	0.088 U	8.3
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.59 J	0.64 J	0.54 J	0.53 J	0.55 J
1,1-Dichloroethane	UG/M3	0.047 U	0.31 J	0.048 U	0.048 U	4.1
1,1-Dichloroethene	UG/M3	0.054 U	0.31 U	0.055 U	0.055 U	0.16 U
1,2,4-Trichlorobenzene	UG/M3	0.18 UJ	1 UJ	0.18 UJ	0.18 UJ	0.52 UJ
1,2,4-Trimethylbenzene	UG/M3	0.68	0.29 U	2.8	0.19	0.95
1,2-Dichlorobenzene	UG/M3	0.078 U	0.44 U	0.078 U	0.078 U	0.22 U
1,2-Dichloroethane	UG/M3	0.065 J	2.0	0.77	0.052 U	3.2
1,2-Dichloroethene (cis)	UG/M3	0.047 U	0.27 U	0.047 U	0.047 U	0.13 U
1,2-Dichloroethene (trans)	UG/M3	0.048 U	0.28 U	0.049 U	0.049 U	0.14 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.13 J	0.48 U	0.11 J	0.10 J	0.24 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.24	0.47 J	0.72	0.065 J	0.40 J
1,3-Butadiene	UG/M3	0.054 U	0.31 U	0.054 U	0.054 U	0.15 U
1,4-Dichlorobenzene	UG/M3	0.11 J	0.49 U	0.72	0.085 U	0.24 U
1,4-Dioxane	UG/M3	0.085 U	0.49 U	0.086 U	0.086 U	0.24 U
1-Propene	UG/M3	0.2 U	1.2 U	0.2 U	0.2 U	0.58 U
2,2,4-Trimethylpentane	UG/M3	NA	NA	NA	NA	NA
2-Hexanone	UG/M3	0.072 UJ	0.41 UJ	0.072 UJ	0.072 UJ	0.21 UJ
4-Ethyltoluene	UG/M3	0.20	0.3 U	0.49	0.053 U	0.15 U
4-Methyl-2-pentanone	UG/M3	0.36 J	1.3 J	88	0.50	6.6
Acetone	UG/M3	30	37	34	16	140
Benzene	UG/M3	1.0	6.6	1.1	0.91	0.077 U
Bromoethene (Vinyl Bromide)	UG/M3	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-35-09-22-IA	H-35-09-22-SS	H-40-09-22-IA	H-40-09-22-OA	H-40-09-22-SS
Sample ID		224121-IA-35-09	224121-SS-35-09	224121-IA-40-09	224121-OA-40-09	224121-SS-40-09
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		01/19/22	01/19/22	01/25/22	01/25/22	01/25/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.085 U	0.49 U	0.085 U	0.085 U	0.24 U
Bromoform	UG/M3	0.13 U	0.74 U	0.13 U	0.13 U	0.37 U
Bromomethane	UG/M3	0.11 U	0.63 U	0.11 U	0.11 U	0.32 U
Carbon disulfide	UG/M3	0.28 U	1.8 J	0.28 U	0.28 U	22
Carbon tetrachloride	UG/M3	0.54	0.50 J	0.37	0.45	0.30 J
Chlorobenzene	UG/M3	0.048 U	0.27 U	0.048 U	0.048 U	0.14 U
Chloroethane	UG/M3	0.067 U	0.39 U	0.067 U	0.067 U	43
Chloroform	UG/M3	0.34	1.5	0.80	0.12 J	3.2
Chloromethane	UG/M3	1.1	0.17 U	1.2	1.1	0.085 U
Cyclohexane	UG/M3	0.43	0.46 U	0.08 U	0.08 U	0.23 U
Dichlorodifluoromethane	UG/M3	2.1	2.3	2.0	2.0	8.9
Ethanol	UG/M3	350 D	61	500 D	26	110
Ethyl acetate	UG/M3	1.6 J	4.3 UJ	6.3 J	0.88 J	2.1 UJ
Ethylbenzene	UG/M3	0.84	1.3	1.8	0.26	0.11 U
Isopropyl alcohol	UG/M3	57	4.5 U	24	2.5 J	6.6 J
Methyl ethyl ketone (2-Butanone)	UG/M3	2.7 J	12 J	2.1 J	3.4 J	19
Methyl methacrylate	UG/M3	NA	NA	NA	NA	NA
Methyl tert-butyl ether	UG/M3	0.05 U	0.29 U	0.05 U	0.05 U	0.14 U
Methylene chloride	UG/M3	1.6	1.6 U	1.8	1.2	1.1 J
Naphthalene	UG/M3	0.26	0.66 U	0.22	0.12 U	3.0
n-Heptane	UG/M3	0.71	1.0	1.1	0.98	2.5
n-Hexane	UG/M3	1.4 J	2.3 U	0.79 J	0.89 J	4.9 J
Styrene	UG/M3	0.22	1.0	0.57	0.11 J	0.13 U

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-35-09-22-IA	H-35-09-22-SS	H-40-09-22-IA	H-40-09-22-OA	H-40-09-22-SS
Sample ID		224121-IA-35-09	224121-SS-35-09	224121-IA-40-09	224121-OA-40-09	224121-SS-40-09
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		01/19/22	01/19/22	01/25/22	01/25/22	01/25/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	NA	NA	NA	NA	NA
Tetrachloroethene	UG/M3	0.61	1.2 J	0.17 J	0.10 J	280
Tetrahydrofuran	UG/M3	0.25 U	1.5 U	0.25 U	0.25 U	0.73 U
Toluene	UG/M3	2.2	15	68	1.8	8.5
Trichloroethene	UG/M3	0.069 U	0.4 U	0.14 J	0.07 U	3.8
Trichlorofluoromethane	UG/M3	1.2	1.3 J	1.3	1.2	1.8 J
Vinyl acetate	UG/M3	0.23 UJ	1.3 UJ	0.23 UJ	0.23 UJ	0.66 UJ
Vinyl chloride	UG/M3	0.035 U	0.2 U	0.035 U	0.035 U	4.6
m&p-Xylene	UG/M3	2.8	3.9	7.6	0.80	0.24 U
o-Xylene	UG/M3	0.90	1.7	3.2	0.26	0.12 U
Xylene (total)	UG/M3	NA	NA	NA	NA	NA

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-42-09-22-IA	H-42-09-22-OA	H-42-09-22-SS	H-44-09-22-IA	H-44-09-22-IA
Sample ID		224121-IA-42-09	224121-OA-42-09	224121-SS-42-09	224121-IA-44-09	FD-021622-2
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/02/22	03/02/22	03/02/22	02/16/22	02/16/22
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.11 J	0.093 U	0.093 U	0.17 U	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.38 J	0.38 J	0.54 J	0.52 J	0.61 J
1,1-Dichloroethane	UG/M3	0.10 U	0.10 U	0.10 U	0.14 U	0.12 U
1,1-Dichloroethene	UG/M3	0.095 U	0.095 U	0.095 U	0.12 U	0.11 U
1,2,4-Trichlorobenzene	UG/M3	0.15 U	0.11 U	0.11 U	0.21 UJ	0.18 UJ
1,2,4-Trimethylbenzene	UG/M3	0.934 J	0.25 J	0.639 J	1.4	0.076 U
1,2-Dichlorobenzene	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.12 U
1,2-Dichloroethane	UG/M3	0.24 J	0.11 U	0.11 U	0.15 U	0.13 U
1,2-Dichloroethene (cis)	UG/M3	0.091 U	0.091 U	0.091 U	0.12 U	0.1 U
1,2-Dichloroethene (trans)	UG/M3	0.083 U	0.083 U	0.083 U	0.12 U	0.11 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.20 U	0.20 U	0.20 U	0.28 U	0.24 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.25 J	0.12 U	0.15 J	0.56	0.091 U
1,3-Butadiene	UG/M3	0.064 U	0.064 U	0.064 U	0.074 U	0.065 U
1,4-Dichlorobenzene	UG/M3	0.12 J	0.11 U	0.11 U	0.83	0.14 U
1,4-Dioxane	UG/M3	0.14 U	0.14 U	0.14 U	0.12 U	0.1 U
1-Propene	UG/M3	0.065 U	0.065 U	0.065 U	0.61 U	0.53 U
2,2,4-Trimethylpentane	UG/M3	1.4	0.93	1.9	NA	NA
2-Hexanone	UG/M3	0.086 U	0.086 U	0.086 U	0.082 U	0.072 U
4-Ethyltoluene	UG/M3	0.16 U	0.16 U	0.16 U	0.26	0.11 U
4-Methyl-2-pentanone	UG/M3	0.070 U	0.082 J	0.070 U	0.084 U	0.073 U
Acetone	UG/M3	19	7.8	57.7	26	22
Benzene	UG/M3	1.3	0.575 J	1.6	0.91	0.64
Bromoethene (Vinyl Bromide)	UG/M3	0.15 U	0.15 U	0.15 U	NA	NA

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Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-42-09-22-IA	H-42-09-22-OA	H-42-09-22-SS	H-44-09-22-IA	H-44-09-22-IA
Sample ID		224121-IA-42-09	224121-OA-42-09	224121-SS-42-09	224121-IA-44-09	FD-021622-2
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/02/22	03/02/22	03/02/22	02/16/22	02/16/22
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.15 U	0.15 U	0.15 U	0.19 U	0.16 U
Bromoform	UG/M3	0.24 U	0.24 U	0.24 U	0.28 U	0.25 U
Bromomethane	UG/M3	0.13 U	0.13 U	0.13 U	0.13 U	0.11 U
Carbon disulfide	UG/M3	0.436 J	0.25 J	4.4	0.12 U	0.1 U
Carbon tetrachloride	UG/M3	0.44 J	0.44 J	0.38 J	0.52	0.44
Chlorobenzene	UG/M3	0.078 U	0.078 U	0.078 U	0.12 U	0.11 U
Chloroethane	UG/M3	0.12 U	0.12 U	0.12 U	0.077 U	0.067 U
Chloroform	UG/M3	0.635 J	0.098 J	0.586 J	0.63	0.54
Chloromethane	UG/M3	0.083 U	0.083 U	0.083 U	0.066 U	0.057 U
Cyclohexane	UG/M3	0.31 J	0.17 J	0.083 U	0.091 U	0.079 U
Dichlorodifluoromethane	UG/M3	2.0	2.0	2.0	2.3	2.2
Ethanol	UG/M3	197.8 J	11	41.1	1,800 JD	1,500 JD
Ethyl acetate	UG/M3	1.19 J	0.396 J	3.784 J	1.4 J	1.1 J
Ethylbenzene	UG/M3	0.39 J	0.26 J	0.564 J	0.36	0.088 U
Isopropyl alcohol	UG/M3	0.19 U	3.368 J	0.19 U	15	14
Methyl ethyl ketone (2-Butanone)	UG/M3	1.56 J	0.973 J	6.5	2.3 J	1.1 U
Methyl methacrylate	UG/M3	0.070 U	0.070 U	0.070 U	NA	NA
Methyl tert-butyl ether	UG/M3	0.036 U	0.036 U	0.036 U	0.11 UJ	0.097 UJ
Methylene chloride	UG/M3	27	0.73 J	0.80 J	0.69 J	1.1 J
Naphthalene	UG/M3	0.21 U	0.10 U	0.37 U	0.17 J	0.12 UJ
n-Heptane	UG/M3	0.061 U	0.33 J	2.5	0.63 J	0.33 J
n-Hexane	UG/M3	0.634 J	0.458 J	0.067 U	0.73 U	0.64 U
Styrene	UG/M3	0.13 J	0.064 U	0.38 J	0.12 J	0.078 U

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

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Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-42-09-22-IA	H-42-09-22-OA	H-42-09-22-SS	H-44-09-22-IA	H-44-09-22-IA
Sample ID		224121-IA-42-09	224121-OA-42-09	224121-SS-42-09	224121-IA-44-09	FD-021622-2
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/02/22	03/02/22	03/02/22	02/16/22	02/16/22
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	0.515 J	0.364 J	3.3	NA	NA
Tetrachloroethene	UG/M3	0.27 J	0.16 U	0.61 J	0.41	0.42
Tetrahydrofuran	UG/M3	0.086 U	0.086 U	0.086 U	0.19 U	0.17 U
Toluene	UG/M3	2.6	1.5	2.6	1.8 J	0.52 J
Trichloroethene	UG/M3	0.12 U	0.12 U	0.12 U	0.14 U	0.32
Trichlorofluoromethane	UG/M3	0.899 J	0.899 J	1.07 J	1.3	1.3
Vinyl acetate	UG/M3	0.053 U	0.053 U	0.053 U	0.76 UJ	0.66 UJ
Vinyl chloride	UG/M3	0.074 U	0.074 U	0.074 U	0.092 U	0.08 U
m&p-Xylene	UG/M3	1.35 J	0.782 J	2.2	1.3	0.17 U
o-Xylene	UG/M3	0.608 J	0.30 J	0.87	0.53	0.078 U
Xylene (total)	UG/M3	1.95 J	1.09 J	3.0	NA	NA

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-44-09-22-OA	H-44-09-22-SS	H-44-09-22-SS	H-56-22-IA	H-56-22-SS
Sample ID		224121-OA-44-09	224121-SS-44-09	FD-021622-1	224121-IA-56	224121-SS-56
Matrix		Outdoor Air	Subslab Vapor	Subslab Vapor	Indoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/16/22	02/16/22	02/16/22	02/28/22	02/28/22
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.15 U	30 J	8.7 J	0.093 U	0.093 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.54 J	0.85 U	0.85 U	0.38 J	0.46 J
1,1-Dichloroethane	UG/M3	0.12 U	6.9	6.8	0.10 U	4.0
1,1-Dichloroethene	UG/M3	0.11 U	0.3 U	0.3 U	0.095 U	0.095 U
1,2,4-Trichlorobenzene	UG/M3	0.18 UJ	0.52 UJ	0.52 UJ	0.11 U	0.59 U
1,2,4-Trimethylbenzene	UG/M3	0.40	0.65	0.62	0.492 J	0.98
1,2-Dichlorobenzene	UG/M3	0.12 U	0.35 U	0.35 U	0.14 U	0.14 U
1,2-Dichloroethane	UG/M3	0.13 U	6.5	6.8	0.11 U	2.8
1,2-Dichloroethene (cis)	UG/M3	0.1 U	2.4 J	0.73 J	0.091 U	0.091 U
1,2-Dichloroethene (trans)	UG/M3	0.11 U	0.31 U	0.31 U	0.083 U	0.083 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.24 U	0.69 U	0.69 U	0.20 U	0.20 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.12 J	0.26 U	0.26 U	0.12 U	0.688 J
1,3-Butadiene	UG/M3	0.065 U	0.19 U	0.19 U	0.064 U	0.064 U
1,4-Dichlorobenzene	UG/M3	0.15 J	0.39 U	0.39 U	0.11 U	0.11 U
1,4-Dioxane	UG/M3	0.1 U	0.3 U	0.3 U	0.14 U	0.14 U
1-Propene	UG/M3	0.53 U	1.5 U	1.5 U	0.065 U	0.065 U
2,2,4-Trimethylpentane	UG/M3	NA	NA	NA	1.4	4.2
2-Hexanone	UG/M3	0.072 U	0.21 U	0.21 U	0.086 U	1.39 J
4-Ethyltoluene	UG/M3	0.11 J	0.3 U	0.3 U	0.16 U	0.16 U
4-Methyl-2-pentanone	UG/M3	0.073 U	0.21 U	0.21 U	0.070 U	0.070 U
Acetone	UG/M3	11	96	93	12	59.9
Benzene	UG/M3	0.79	0.24 U	0.24 U	0.96	0.64
Bromoethene (Vinyl Bromide)	UG/M3	NA	NA	NA	0.15 U	0.15 U

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-44-09-22-OA	H-44-09-22-SS	H-44-09-22-SS	H-56-22-IA	H-56-22-SS
Sample ID		224121-OA-44-09	224121-SS-44-09	FD-021622-1	224121-IA-56	224121-SS-56
Matrix		Outdoor Air	Subslab Vapor	Subslab Vapor	Indoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/16/22	02/16/22	02/16/22	02/28/22	02/28/22
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.16 U	0.47 U	0.47 U	0.15 U	0.15 U
Bromoform	UG/M3	0.25 U	0.7 U	0.7 U	0.24 U	0.24 U
Bromomethane	UG/M3	0.11 U	0.32 U	0.32 U	0.13 U	0.13 U
Carbon disulfide	UG/M3	0.1 U	1.2 J	1.0 J	0.374 J	2.2
Carbon tetrachloride	UG/M3	0.45	0.5 U	0.5 U	0.38 J	0.25 J
Chlorobenzene	UG/M3	0.11 U	0.31 U	0.31 U	0.078 U	0.078 U
Chloroethane	UG/M3	0.067 U	66	65	0.12 U	22
Chloroform	UG/M3	0.16 U	2.8	2.9	0.34 J	2.0
Chloromethane	UG/M3	1.5	0.16 U	0.16 U	0.867 J	0.083 U
Cyclohexane	UG/M3	0.079 U	0.23 U	0.23 U	0.516 J	0.083 U
Dichlorodifluoromethane	UG/M3	2.4	2.5	2.4	2.0	2.0
Ethanol	UG/M3	36 J	700 JD	690 JD	48.2	18
Ethyl acetate	UG/M3	0.64 UJ	23 J	25 J	0.649 J	5.442 J
Ethylbenzene	UG/M3	0.19	1.5	0.95	0.564 J	0.35 J
Isopropyl alcohol	UG/M3	3.3 J	29	28	0.19 U	0.19 U
Methyl ethyl ketone (2-Butanone)	UG/M3	2.0 J	42	46	1.24 J	17
Methyl methacrylate	UG/M3	NA	NA	NA	0.070 U	0.070 U
Methyl tert-butyl ether	UG/M3	0.097 UJ	0.28 UJ	0.28 UJ	0.036 U	0.036 U
Methylene chloride	UG/M3	1.0 J	2.3 J	1.6 U	1.7	0.69 J
Naphthalene	UG/M3	0.14 J	0.33 UJ	0.33 UJ	0.21 U	0.37 U
n-Heptane	UG/M3	0.33	2.2	2.3	1.6	0.061 U
n-Hexane	UG/M3	0.67 J	3.9 J	3.6 J	1.1	0.067 U
Styrene	UG/M3	0.078 U	0.38 J	0.34 J	0.17 J	0.21 J

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-44-09-22-OA	H-44-09-22-SS	H-44-09-22-SS	H-56-22-IA	H-56-22-SS
Sample ID		224121-OA-44-09	224121-SS-44-09	FD-021622-1	224121-IA-56	224121-SS-56
Matrix		Outdoor Air	Subslab Vapor	Subslab Vapor	Indoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/16/22	02/16/22	02/16/22	02/28/22	02/28/22
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	NA	NA	NA	0.606 J	1.97 J
Tetrachloroethene	UG/M3	0.32	2.7 J	0.61 J	0.814 J	2.7
Tetrahydrofuran	UG/M3	0.17 U	0.48 U	0.48 U	0.086 U	0.086 U
Toluene	UG/M3	1.3	4.9	4.7	3.4	1.9
Trichloroethene	UG/M3	0.13 U	22 J	5.9 J	0.12 U	0.12 U
Trichlorofluoromethane	UG/M3	1.3	1.4 J	1.2 J	0.899 J	1.01 J
Vinyl acetate	UG/M3	0.66 UJ	1.9 UJ	1.9 UJ	0.053 U	0.053 U
Vinyl chloride	UG/M3	0.08 U	3.5	3.5	0.074 U	0.77
m&p-Xylene	UG/M3	0.67	4.7 J	2.6 J	2.2	1.39 J
o-Xylene	UG/M3	0.28	1.9	0.22 U	0.87	0.695 J
Xylene (total)	UG/M3	NA	NA	NA	3.0	2.08 J

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-57-22-IA	H-57-22-SS	H-73-22-IA	H-73-22-OA	H-73-22-SS
Sample ID		224121-IA-57	224121-SS-57	224121-IA-73	224121-OA-73	224121-SS-73
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		01/25/22	01/25/22	02/28/22	02/28/22	02/28/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.088 U	0.25 U	0.093 U	0.093 U	0.093 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	1.5	0.48 J	0.38 J	0.38 J	0.46 J
1,1-Dichloroethane	UG/M3	0.048 U	3.3	0.10 U	0.10 U	5.3
1,1-Dichloroethene	UG/M3	0.055 U	0.16 U	0.095 U	0.095 U	0.095 U
1,2,4-Trichlorobenzene	UG/M3	0.18 UJ	0.52 UJ	0.11 U	0.11 U	0.15 U
1,2,4-Trimethylbenzene	UG/M3	0.25	0.15 U	2.0	0.20 J	4.9
1,2-Dichlorobenzene	UG/M3	0.078 U	0.22 U	0.14 U	0.14 U	0.14 U
1,2-Dichloroethane	UG/M3	0.052 U	2.8	0.11 U	0.11 U	2.4
1,2-Dichloroethene (cis)	UG/M3	0.047 U	0.13 U	0.091 U	0.091 U	0.091 U
1,2-Dichloroethene (trans)	UG/M3	0.049 U	0.14 U	0.083 U	0.083 U	0.083 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.093 J	0.24 U	0.20 U	0.20 U	0.20 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.086 J	0.13 U	0.492 J	0.12 U	2.0
1,3-Butadiene	UG/M3	0.054 U	0.15 U	0.064 U	0.064 U	0.064 U
1,4-Dichlorobenzene	UG/M3	0.085 U	0.24 U	0.11 U	0.11 U	0.18 J
1,4-Dioxane	UG/M3	0.086 U	0.24 U	0.14 U	0.14 U	0.14 U
1-Propene	UG/M3	0.2 U	0.58 U	0.065 U	0.065 U	34
2,2,4-Trimethylpentane	UG/M3	NA	NA	0.42 J	0.37 J	6.5
2-Hexanone	UG/M3	0.072 UJ	0.21 UJ	0.086 U	0.086 U	1.31 J
4-Ethyltoluene	UG/M3	0.079 J	0.15 U	0.639 J	0.16 U	1.5
4-Methyl-2-pentanone	UG/M3	0.42	0.21 U	0.070 U	0.070 U	0.070 U
Acetone	UG/M3	7.8	38	9.5	5.9	124
Benzene	UG/M3	0.95	0.077 U	0.575 J	0.607 J	12
Bromoethene (Vinyl Bromide)	UG/M3	NA	NA	0.15 U	0.15 U	0.15 U

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-57-22-IA	H-57-22-SS	H-73-22-IA	H-73-22-OA	H-73-22-SS
Sample ID		224121-IA-57	224121-SS-57	224121-IA-73	224121-OA-73	224121-SS-73
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		01/25/22	01/25/22	02/28/22	02/28/22	02/28/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.085 U	0.24 U	0.15 U	0.15 U	0.15 U
Bromoform	UG/M3	0.13 U	0.37 U	0.24 U	0.24 U	0.24 U
Bromomethane	UG/M3	0.11 U	0.32 U	0.13 U	0.13 U	0.13 U
Carbon disulfide	UG/M3	0.28 U	0.79 U	0.19 J	0.22 J	6.9
Carbon tetrachloride	UG/M3	0.47	0.39 J	0.44 J	0.38 J	0.38 J
Chlorobenzene	UG/M3	0.048 U	0.14 U	0.078 U	0.078 U	0.078 U
Chloroethane	UG/M3	0.067 U	42	0.12 U	0.12 U	43
Chloroform	UG/M3	0.18	1.9	0.24 J	0.098 J	2.0
Chloromethane	UG/M3	1.2	0.085 U	0.867 J	0.867 J	1.01 J
Cyclohexane	UG/M3	0.08 U	0.23 U	0.17 J	0.14 J	0.083 U
Dichlorodifluoromethane	UG/M3	2.0	2.2	2.0	2.0	2.0
Ethanol	UG/M3	84 D	32	29.4	11	14
Ethyl acetate	UG/M3	1.4 J	2.4 J	0.36 J	0.757 J	0.613 J
Ethylbenzene	UG/M3	0.51	0.11 U	0.87	0.39 J	1.3
Isopropyl alcohol	UG/M3	2.1 J	2.6 J	0.19 U	0.19 U	0.19 U
Methyl ethyl ketone (2-Butanone)	UG/M3	0.87 J	19	1.3 J	0.649 J	16
Methyl methacrylate	UG/M3	NA	NA	0.070 U	0.25 J	0.070 U
Methyl tert-butyl ether	UG/M3	0.05 U	0.14 U	0.036 U	0.036 U	0.036 U
Methylene chloride	UG/M3	1.2	1.2 J	0.94 J	0.76 J	0.97 J
Naphthalene	UG/M3	0.12 U	0.33 U	0.16 U	0.052 U	0.681 U
n-Heptane	UG/M3	1.6	2.1	0.061 U	0.061 U	4.9
n-Hexane	UG/M3	1.3 J	3.5 J	0.529 J	0.423 J	9.2
Styrene	UG/M3	0.18	0.13 U	0.26 J	0.085 J	1.7

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-57-22-IA	H-57-22-SS	H-73-22-IA	H-73-22-OA	H-73-22-SS
Sample ID		224121-IA-57	224121-SS-57	224121-IA-73	224121-OA-73	224121-SS-73
Matrix		Indoor Air	Subslab Vapor	Indoor Air	Outdoor Air	Subslab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		01/25/22	01/25/22	02/28/22	02/28/22	02/28/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	NA	NA	0.12 U	0.12 U	0.394 J
Tetrachloroethene	UG/M3	0.12 J	0.91	0.814 J	0.27 J	1.22 J
Tetrahydrofuran	UG/M3	0.25 U	0.73 U	0.086 U	0.086 U	2.4
Toluene	UG/M3	2.4	1.3	4.5	2.3	14
Trichloroethene	UG/M3	0.07 U	0.2 U	0.12 U	0.12 U	0.12 U
Trichlorofluoromethane	UG/M3	1.4	1.3 J	0.955 J	0.955 J	0.899 J
Vinyl acetate	UG/M3	0.23 UJ	0.66 UJ	0.053 U	0.053 U	0.053 U
Vinyl chloride	UG/M3	0.035 U	4.4	0.074 U	0.074 U	2.3
m&p-Xylene	UG/M3	1.6	0.24 U	3.9	1.22 J	3.0
o-Xylene	UG/M3	0.57	0.12 U	1.3	0.39 J	1.3
Xylene (total)	UG/M3	NA	NA	5.2	1.61 J	4.3

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-75-22-IA	H-75-22-OA	H-75-22-SS	H-78-22-IA	H-78-22-OA
Sample ID		224121-IA-75	224121-OA-75	224121-SS-75	224121-IA-78	224121-OA-78
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air	Outdoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/24/22	02/24/22	02/24/22	03/10/22	03/10/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.38 J	0.46 J	0.46 J	0.38 J	0.38 J
1,1-Dichloroethane	UG/M3	0.10 U	0.10 U	2.0	0.10 U	0.10 U
1,1-Dichloroethene	UG/M3	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
1,2,4-Trichlorobenzene	UG/M3	0.11 U	0.30 U	0.15 U	0.11 U	0.11 U
1,2,4-Trimethylbenzene	UG/M3	0.541 J	0.34 J	0.34 J	2.5	0.59 J
1,2-Dichlorobenzene	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2-Dichloroethane	UG/M3	0.11 U	0.11 U	3.2	0.12 J	0.11 U
1,2-Dichloroethene (cis)	UG/M3	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U
1,2-Dichloroethene (trans)	UG/M3	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.15 J	0.12 U	0.12 U	0.688 J	0.20 J
1,3-Butadiene	UG/M3	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
1,4-Dichlorobenzene	UG/M3	0.11 U	0.12 U	0.11 U	0.48 J	0.18 J
1,4-Dioxane	UG/M3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1-Propene	UG/M3	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U
2,2,4-Trimethylpentane	UG/M3	0.888 J	0.701 J	2.3	2.3	0.607 J
2-Hexanone	UG/M3	0.086 U	0.086 U	1.31 J	0.086 U	0.086 U
4-Ethyltoluene	UG/M3	0.29 J	0.20 J	0.16 U	0.934 J	0.16 U
4-Methyl-2-pentanone	UG/M3	0.614 J	0.574 J	2.0	0.25 J	0.070 U
Acetone	UG/M3	12	11	86.5	39.4	10
Benzene	UG/M3	0.96	0.64	0.96	1.9	0.96
Bromoethene (Vinyl Bromide)	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-75-22-IA	H-75-22-OA	H-75-22-SS	H-78-22-IA	H-78-22-OA
Sample ID		224121-IA-75	224121-OA-75	224121-SS-75	224121-IA-78	224121-OA-78
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air	Outdoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/24/22	02/24/22	02/24/22	03/10/22	03/10/22
Parameter	Units					
Volatile Organic Compounds						
Bromodichloromethane	UG/M3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Bromoform	UG/M3	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Bromomethane	UG/M3	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Carbon disulfide	UG/M3	0.22 J	0.059 U	1.37 J	0.059 U	0.059 U
Carbon tetrachloride	UG/M3	0.38 J	0.44 J	0.50 J	0.38 J	0.31 J
Chlorobenzene	UG/M3	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U
Chloroethane	UG/M3	0.12 U	0.12 U	22	0.12 U	0.12 U
Chloroform	UG/M3	0.98	0.098 J	2.9	1.5	0.098 J
Chloromethane	UG/M3	0.785 J	0.909 J	0.083 U	0.083 U	0.888 J
Cyclohexane	UG/M3	0.083 U	0.083 U	0.083 U	1.0	0.28 J
Dichlorodifluoromethane	UG/M3	2.0	2.0	2.0	2.0	2.0
Ethanol	UG/M3	40.7	14	48.2	76.3	19.4
Ethyl acetate	UG/M3	1.26 J	1.26 J	5.333 J	0.793 J	0.18 U
Ethylbenzene	UG/M3	0.87	0.738 J	0.26 J	1.3	0.521 J
Isopropyl alcohol	UG/M3	0.19 U	2.753 J	0.19 U	0.19 U	3.638 J
Methyl ethyl ketone (2-Butanone)	UG/M3	1.65 J	1.27 J	14	1.15 J	0.826 J
Methyl methacrylate	UG/M3	0.82	0.82	0.070 U	0.070 U	0.070 U
Methyl tert-butyl ether	UG/M3	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U
Methylene chloride	UG/M3	1.1 J	1.1 J	0.87 J	1.7	2.4
Naphthalene	UG/M3	0.16 U	0.26 U	0.21 U	0.26 U	0.16 U
n-Heptane	UG/M3	1.6	1.2	3.7	1.6	0.656 J
n-Hexane	UG/M3	1.4	0.70	3.5	2.8	0.70
Styrene	UG/M3	0.17 J	0.13 J	0.085 J	0.34 J	0.13 J

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-75-22-IA	H-75-22-OA	H-75-22-SS	H-78-22-IA	H-78-22-OA
Sample ID		224121-IA-75	224121-OA-75	224121-SS-75	224121-IA-78	224121-OA-78
Matrix		Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air	Outdoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/24/22	02/24/22	02/24/22	03/10/22	03/10/22
Parameter	Units					
Volatile Organic Compounds						
t-Butyl alcohol	UG/M3	0.909 J	0.819 J	1.27 J	0.394 J	0.12 U
Tetrachloroethene	UG/M3	0.814 J	0.54 J	66	0.95 J	0.34 J
Tetrahydrofuran	UG/M3	0.59	0.442 J	0.086 U	0.086 U	0.086 U
Toluene	UG/M3	6.0	4.9	2.3	7.9	2.6
Trichloroethene	UG/M3	0.12 U	0.12 U	1.02 J	0.21 J	0.12 U
Trichlorofluoromethane	UG/M3	1.07 J	1.01 J	1.7	1.07 J	1.01 J
Vinyl acetate	UG/M3	0.053 U	0.053 U	1.76 J	0.053 U	0.053 U
Vinyl chloride	UG/M3	0.074 U	0.074 U	1.5	0.074 U	0.074 U
m&p-Xylene	UG/M3	3.0	2.2	0.955 J	4.8	1.7
o-Xylene	UG/M3	0.87	0.782 J	0.35 J	1.7	0.608 J
Xylene (total)	UG/M3	3.9	3.0	1.3 J	6.5	2.47 J

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-78-22-SS
Sample ID		224121-SS-78
Matrix		Subslab Vapor
Depth Interval (ft)		-
Date Sampled		03/10/22
Parameter	Units	
Volatile Organic Compounds		
1,1,1-Trichloroethane	UG/M3	1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.38 J
1,1-Dichloroethane	UG/M3	3.2
1,1-Dichloroethene	UG/M3	0.095 U
1,2,4-Trichlorobenzene	UG/M3	0.11 U
1,2,4-Trimethylbenzene	UG/M3	0.34 J
1,2-Dichlorobenzene	UG/M3	0.14 U
1,2-Dichloroethane	UG/M3	1.6
1,2-Dichloroethene (cis)	UG/M3	0.091 U
1,2-Dichloroethene (trans)	UG/M3	0.083 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.20 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.12 U
1,3-Butadiene	UG/M3	0.064 U
1,4-Dichlorobenzene	UG/M3	0.12 J
1,4-Dioxane	UG/M3	0.14 U
1-Propene	UG/M3	0.065 U
2,2,4-Trimethylpentane	UG/M3	7.5
2-Hexanone	UG/M3	0.086 U
4-Ethyltoluene	UG/M3	0.16 U
4-Methyl-2-pentanone	UG/M3	0.901 J
Acetone	UG/M3	29.9
Benzene	UG/M3	0.96
Bromoethene (Vinyl Bromide)	UG/M3	0.15 U

Flags assigned during chemistry validation are shown.

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 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

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TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-78-22-SS
Sample ID		224121-SS-78
Matrix		Subslab Vapor
Depth Interval (ft)		-
Date Sampled		03/10/22
Parameter	Units	
Volatile Organic Compounds		
Bromodichloromethane	UG/M3	0.15 U
Bromoform	UG/M3	0.24 U
Bromomethane	UG/M3	0.13 U
Carbon disulfide	UG/M3	0.059 U
Carbon tetrachloride	UG/M3	0.38 J
Chlorobenzene	UG/M3	0.078 U
Chloroethane	UG/M3	43.5
Chloroform	UG/M3	23
Chloromethane	UG/M3	0.083 U
Cyclohexane	UG/M3	0.083 U
Dichlorodifluoromethane	UG/M3	2.0
Ethanol	UG/M3	23
Ethyl acetate	UG/M3	2.7 J
Ethylbenzene	UG/M3	0.478 J
Isopropyl alcohol	UG/M3	0.19 U
Methyl ethyl ketone (2-Butanone)	UG/M3	3.657 J
Methyl methacrylate	UG/M3	0.070 U
Methyl tert-butyl ether	UG/M3	0.036 U
Methylene chloride	UG/M3	0.90 J
Naphthalene	UG/M3	0.16 U
n-Heptane	UG/M3	1.6
n-Hexane	UG/M3	3.2
Styrene	UG/M3	0.26 J

Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

TABLE 3
SUMMARY OF DETECTED COMPOUNDS IN 2021/2022 HEATING SEASON SVI SAMPLES
MEEKER AVENUE PLUME TRACKDOWN SITE

Location ID		H-78-22-SS
Sample ID		224121-SS-78
Matrix		Subslab Vapor
Depth Interval (ft)		-
Date Sampled		03/10/22
Parameter	Units	
Volatile Organic Compounds		
t-Butyl alcohol	UG/M3	1.27 J
Tetrachloroethene	UG/M3	33
Tetrahydrofuran	UG/M3	0.27 J
Toluene	UG/M3	5.3
Trichloroethene	UG/M3	5.9
Trichlorofluoromethane	UG/M3	1.1
Vinyl acetate	UG/M3	0.053 U
Vinyl chloride	UG/M3	2.3
m&p-Xylene	UG/M3	1.43 J
o-Xylene	UG/M3	0.564 J
Xylene (total)	UG/M3	2.0 J

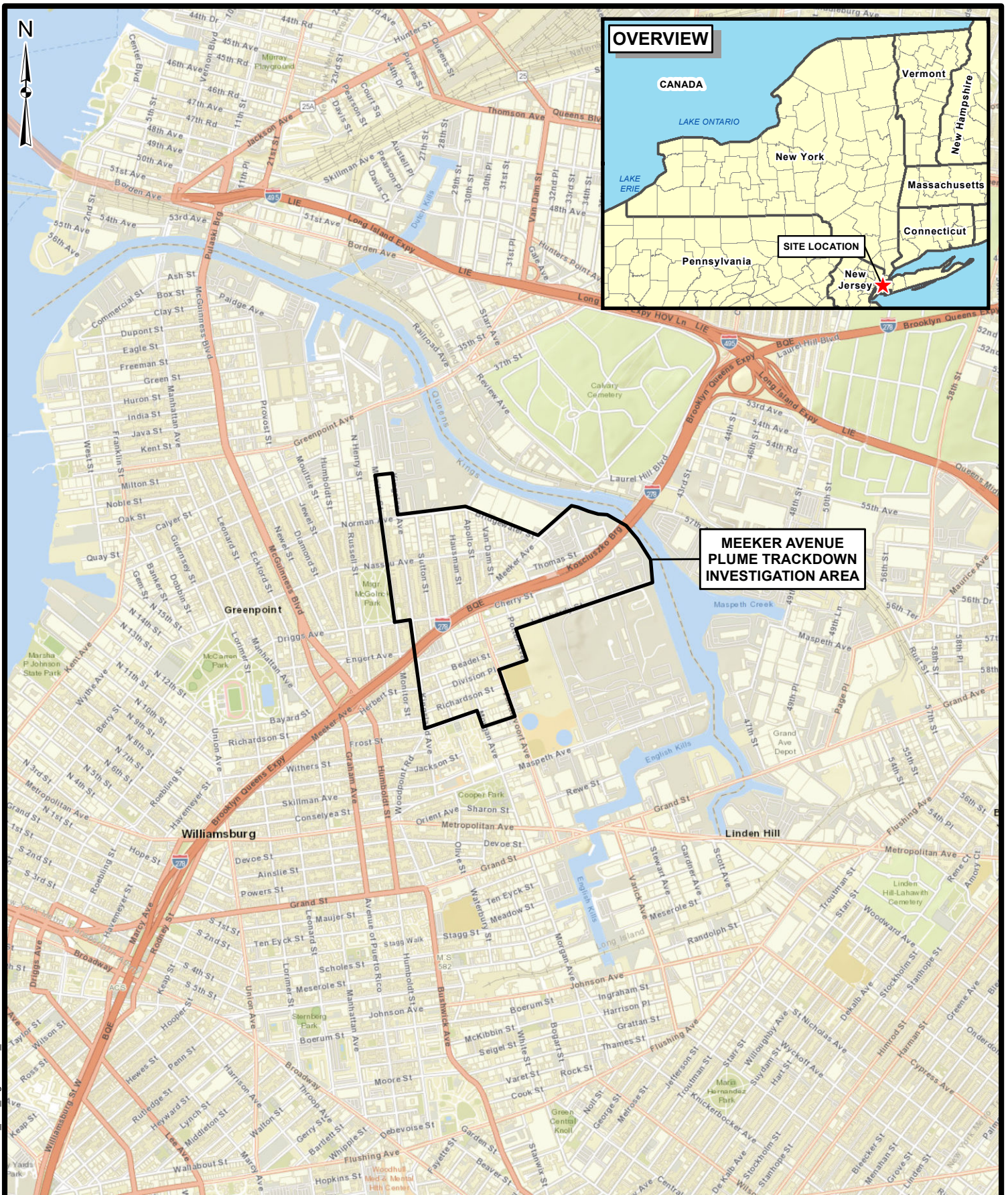
Flags assigned during chemistry validation are shown.

U - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
 UG/M3 - Microgram per cubic meter.

Only Detected Results Reported.

Detection Limits shown are MDL

FIGURES





APPENDIX A

DATA USABILITY SUMMARY REPORTS

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Con-test Analytical Laboratory – 22A1209

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per EPA Method TO-15.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The Percent Relative Standard Deviation (%RSD) for the standards analyzed on 8/20/21 on instrument SYSJ was 39.6% for 1,2,4-trichlorobenzene, which exceeded the 30% QC limit. The results for this compound in the SDG samples, which consisted entirely of non-detects, were qualified as estimated (UJ).

Initial Calibration Verification:

The Percent Differences (%Ds) for the standards run on 8/21/21 at 02:04 on instrument SYSJ exceeded the 30% QC limit for the following compounds:

Vinyl acetate	-32.9%
Ethyl acetate	34.7%

All positive and non-detect results for these compounds in the SDG samples were qualified as

estimated (J) and (UJ).

Continuing Calibration:

The Percent Differences (%Ds) for the standards run on 1/31/22 at 11:12 on instrument SYSJ exceeded the 30% QC limit for the following compounds:

Benzyl chloride	55.4%
2-hexanone	42.5%
4-methyl-2-pentanone	33.8%

All positive and non-detect results for these compounds in the SDG samples were qualified as estimated (J) and (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Canister Blanks:

There were no detects in the canister check blanks for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS was analyzed by the laboratory for this SDG. The Percent Recoveries (%Rs) for LCS B300162-BS1 were outside the 70-130% QC limits for the following compounds:

Benzyl chloride	131%
Ethyl acetate	68.9%
Hexachlorobutadiene	67.9%
2-hexanone	135%
1,2,4-trichlorobenzene	69.5%
Vinyl acetate	143%

The positive results for benzyl chloride, 2-hexanone and vinyl acetate for the SDG samples were qualified as estimated (J) and the positive and non-detect results for the other listed compound for the SDG samples were qualified as estimated (J) and (UJ).

IX.) Matrix Duplicate:

Matrix Duplicate analysis was performed using sample 224121-SS-35-09. The Relative Percent Differences (RPDs) for 1,2-dichloroethane (25.1%) and tetrachloroethylene (26.3%) exceeded the 25% QC limit, but the sample results were less than 5X the RL, so the results were not considered meaningful. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

The initial analysis ethanol results for sample 224121-IA-114, 221421-IA-35-09, 224121-IA-115, 224121-IA-116 and 224121-IA-117 exceeded the linear calibration range. A dilution analysis was performed for each of the listed samples with all calibration criteria met. Since the Form I for each sample was a composite of the results, no data qualification was necessary.

All other CRQL criteria were met.

Appendix A

Qualified Form Is

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/21/2022
Field Sample #: 22A121-SS-114
Sample ID: 22A1209-01
 Sample Matrix: Sub Slab
 Sampled: 1/19/2022 08:20

Sample Description/Location: H-114
 Sub Description/Location:
 Canister ID: 1015
 Canister Size: 6 liter
 Flow Controller ID: 3478
 Sample Type: 24 hr

Work Order: 22A1209
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -9.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed		
Acetone	8.2	8.0	4.8			20	19	11	4	1/31/22 20:43	BRF
Benzene	2.1	0.20	0.048			6.7	0.64	0.15	4	1/31/22 20:43	BRF
Benzyl chloride	ND	0.20	0.090			ND UJ	1.0	0.47	4	1/31/22 20:43	BRF
Bromodichloromethane	ND	0.20	0.073			ND	1.3	0.49	4	1/31/22 20:43	BRF
Bromoform	ND	0.20	0.072			ND	2.1	0.74	4	1/31/22 20:43	BRF
Bromomethane	ND	0.20	0.16			ND	0.78	0.63	4	1/31/22 20:43	BRF
1,3-Butadiene	ND	0.20	0.14			ND	0.44	0.31	4	1/31/22 20:43	BRF
2-Butanone (MEK)	2.5	8.0	0.66	J		7.5	24	2.0	4	1/31/22 20:43	BRF
Carbon Disulfide	0.53	2.0	0.51	J		1.6	6.2	1.6	4	1/31/22 20:43	BRF
Carbon Tetrachloride	0.092	0.20	0.060	J		0.58	1.3	0.38	4	1/31/22 20:43	BRF
Chlorobenzene	ND	0.20	0.060			ND	0.92	0.27	4	1/31/22 20:43	BRF
Chloroethane	ND	0.20	0.15			ND	0.53	0.39	4	1/31/22 20:43	BRF
Chloroform	0.28	0.20	0.048			1.3	0.98	0.24	4	1/31/22 20:43	BRF
Chloromethane	0.55	0.40	0.082			1.1	0.83	0.17	4	1/31/22 20:43	BRF
Cyclohexane	ND	0.20	0.13			ND	0.69	0.46	4	1/31/22 20:43	BRF
Dibromochloromethane	ND	0.20	0.067			ND	1.7	0.57	4	1/31/22 20:43	BRF
1,2-Dibromoethane (EDB)	ND	0.20	0.056			ND	1.5	0.43	4	1/31/22 20:43	BRF
1,2-Dichlorobenzene	ND	0.20	0.074			ND	1.2	0.44	4	1/31/22 20:43	BRF
1,3-Dichlorobenzene	ND	0.20	0.048			ND	1.2	0.29	4	1/31/22 20:43	BRF
1,4-Dichlorobenzene	ND	0.20	0.081			ND	1.2	0.49	4	1/31/22 20:43	BRF
Dichlorodifluoromethane (Freon 12)	0.56	0.20	0.061			2.8	0.99	0.30	4	1/31/22 20:43	BRF
1,1-Dichloroethane	ND	0.20	0.067			ND	0.81	0.27	4	1/31/22 20:43	BRF
1,2-Dichloroethane	0.24	0.20	0.073			0.96	0.81	0.30	4	1/31/22 20:43	BRF
1,1-Dichloroethylene	ND	0.20	0.079			ND	0.79	0.31	4	1/31/22 20:43	BRF
cis-1,2-Dichloroethylene	ND	0.20	0.068			ND	0.79	0.27	4	1/31/22 20:43	BRF
trans-1,2-Dichloroethylene	ND	0.20	0.070			ND	0.79	0.28	4	1/31/22 20:43	BRF
1,2-Dichloropropane	ND	0.20	0.072			ND	0.92	0.33	4	1/31/22 20:43	BRF
cis-1,3-Dichloropropene	ND	0.20	0.093			ND	0.91	0.42	4	1/31/22 20:43	BRF
trans-1,3-Dichloropropene	ND	0.20	0.062			ND	0.91	0.28	4	1/31/22 20:43	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.20	0.069			ND	1.4	0.48	4	1/31/22 20:43	BRF
1,4-Dioxane	ND	2.0	0.14			ND	7.2	0.49	4	1/31/22 20:43	BRF
Ethanol	22	8.0	2.4			41	15	4.6	4	1/31/22 20:43	BRF
Ethyl Acetate	17	2.0	1.2	L-03, V-34		62 J	7.2	4.3	4	1/31/22 20:43	BRF
Ethylbenzene	0.34	0.20	0.052			1.5	0.87	0.22	4	1/31/22 20:43	BRF
4-Ethyltoluene	ND	0.20	0.062			ND	0.98	0.30	4	1/31/22 20:43	BRF
Heptane	0.26	0.20	0.082			1.1	0.82	0.34	4	1/31/22 20:43	BRF
Hexachlorobutadiene	ND	0.20	0.11	L-03		ND UJ	2.1	1.2	4	1/31/22 20:43	BRF
Hexane	ND	8.0	0.66			ND	28	2.3	4	1/31/22 20:43	BRF
2-Hexanone (MBK)	ND	0.40	0.10			ND UJ	1.6	0.41	4	1/31/22 20:43	BRF
Isopropanol	ND	8.0	1.8			ND	20	4.5	4	1/31/22 20:43	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.20	0.080			ND	0.72	0.29	4	1/31/22 20:43	BRF
Methylene Chloride	ND	2.0	0.46			ND	6.9	1.6	4	1/31/22 20:43	BRF
4-Methyl-2-pentanone (MIBK)	0.29	0.20	0.10	V-06		1.2 J	0.82	0.42	4	1/31/22 20:43	BRF
Naphthalene	ND	0.20	0.13			ND	1.0	0.66	4	1/31/22 20:43	BRF
Propene	ND	8.0	0.67			ND	14	1.2	4	1/31/22 20:43	BRF
Styrene	0.19	0.20	0.063	J		0.82	0.85	0.27	4	1/31/22 20:43	BRF
1,1,2,2-Tetrachloroethane	ND	0.20	0.061			ND	1.4	0.42	4	1/31/22 20:43	BRF

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ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/21/2022
Field Sample #: 22A1209-114
Sample ID: 22A1209-01
 Sample Matrix: Sub Slab
 Sampled: 1/19/2022 08:20

Sample Description/Location: H-114
 Sub Description/Location:
 Canister ID: 1015
 Canister Size: 6 liter
 Flow Controller ID: 3478
 Sample Type: 24 hr

Work Order: 22A1209
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -9.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	0.37	0.20	0.059	V-04, L-03	2.5	1.4	0.40	4	1/31/22 20:43	BRF
Tetrahydrofuran	ND	2.0	0.49		ND	5.9	1.5	4	1/31/22 20:43	BRF
Toluene	4.4	0.20	0.084		17	0.75	0.32	4	1/31/22 20:43	BRF
1,2,4-Trichlorobenzene	ND	0.40	0.14		ND UJ	3.0	1.0	4	1/31/22 20:43	BRF
1,1,1-Trichloroethane	ND	0.20	0.092		ND	1.1	0.50	4	1/31/22 20:43	BRF
1,1,2-Trichloroethane	ND	0.20	0.080	J	ND	1.1	0.43	4	1/31/22 20:43	BRF
Trichloroethylene	ND	0.20	0.074		ND	1.1	0.40	4	1/31/22 20:43	BRF
Trichlorofluoromethane (Freon 11)	0.24	0.80	0.080		1.4	4.5	0.45	4	1/31/22 20:43	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.80	0.071		ND	6.1	0.54	4	1/31/22 20:43	BRF
1,2,4-Trimethylbenzene	0.32	0.20	0.059		1.6	0.98	0.29	4	1/31/22 20:43	BRF
1,3,5-Trimethylbenzene	0.19	0.20	0.055	0.92	0.98	0.27	4	1/31/22 20:43	BRF	
Vinyl Acetate	ND	4.0	0.37	UJ	ND	14	1.3	4	1/31/22 20:43	BRF
Vinyl Chloride	ND	0.20	0.079		ND	0.51	0.20	4	1/31/22 20:43	BRF
m&p-Xylene	1.0	0.40	0.11		4.4	1.7	0.48	4	1/31/22 20:43	BRF
o-Xylene	0.40	0.20	0.054		1.7	0.87	0.23	4	1/31/22 20:43	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	89.2	70-130	1/31/22 20:43

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ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/21/2022
Field Sample #: 224121-IA-114
Sample ID: 22A1209-02
 Sample Matrix: Indoor air
 Sampled: 1/19/2022 08:21

Sample Description/Location: H-114
 Sub Description/Location:
 Canister ID: 1153
 Canister Size: 6 liter
 Flow Controller ID: 3418
 Sample Type: 24 hr

Work Order: 22A1209
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -7
 Receipt Vacuum(in Hg): -7.5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	5.5	1.4	0.84		13	3.3	2.0	0.698	1/31/22 14:19	BRF
Benzene	0.33	0.035	0.0084		1.0	0.11	0.027	0.698	1/31/22 14:19	BRF
Benzyl chloride	ND	0.035	0.016		ND	0.18	0.081	0.698	1/31/22 14:19	BRF
Bromodichloromethane	ND	0.035	0.013		ND	0.23	0.085	0.698	1/31/22 14:19	BRF
Bromoform	ND	0.035	0.013		ND	0.36	0.13	0.698	1/31/22 14:19	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	1/31/22 14:19	BRF
1,3-Butadiene	ND	0.035	0.024		ND	0.077	0.054	0.698	1/31/22 14:19	BRF
2-Butanone (MEK)	0.49	1.4	0.12	J	1.5	4.1	0.34	0.698	1/31/22 14:19	BRF
Carbon Disulfide	ND	0.35	0.089		ND	1.1	0.28	0.698	1/31/22 14:19	BRF
Carbon Tetrachloride	0.082	0.035	0.011		0.51	0.22	0.066	0.698	1/31/22 14:19	BRF
Chlorobenzene	ND	0.035	0.010		ND	0.16	0.048	0.698	1/31/22 14:19	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	1/31/22 14:19	BRF
Chloroform	0.27	0.035	0.0084		1.3	0.17	0.041	0.698	1/31/22 14:19	BRF
Chloromethane	0.58	0.070	0.014		1.2	0.14	0.030	0.698	1/31/22 14:19	BRF
Cyclohexane	0.15	0.035	0.023		0.53	0.12	0.079	0.698	1/31/22 14:19	BRF
Dibromochloromethane	ND	0.035	0.012		ND	0.30	0.100	0.698	1/31/22 14:19	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.0098		ND	0.27	0.075	0.698	1/31/22 14:19	BRF
1,2-Dichlorobenzene	ND	0.035	0.013		ND	0.21	0.078	0.698	1/31/22 14:19	BRF
1,3-Dichlorobenzene	ND	0.035	0.0084		ND	0.21	0.051	0.698	1/31/22 14:19	BRF
1,4-Dichlorobenzene	0.016	0.035	0.014	J	0.096	0.21	0.085	0.698	1/31/22 14:19	BRF
Dichlorodifluoromethane (Freon 12)	0.47	0.035	0.011		2.3	0.17	0.053	0.698	1/31/22 14:19	BRF
1,1-Dichloroethane	ND	0.035	0.012		ND	0.14	0.047	0.698	1/31/22 14:19	BRF
1,2-Dichloroethane	0.023	0.035	0.013	J	0.093	0.14	0.052	0.698	1/31/22 14:19	BRF
1,1-Dichloroethylene	ND	0.035	0.014		ND	0.14	0.054	0.698	1/31/22 14:19	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.047	0.698	1/31/22 14:19	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.048	0.698	1/31/22 14:19	BRF
1,2-Dichloropropane	ND	0.035	0.013		ND	0.16	0.058	0.698	1/31/22 14:19	BRF
cis-1,3-Dichloropropene	ND	0.035	0.016		ND	0.16	0.073	0.698	1/31/22 14:19	BRF
trans-1,3-Dichloropropene	ND	0.035	0.011		ND	0.16	0.049	0.698	1/31/22 14:19	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.018	0.035	0.012	J	0.13	0.24	0.084	0.698	1/31/22 14:19	BRF
1,4-Dioxane	ND	0.35	0.024		ND	1.3	0.085	0.698	1/31/22 14:19	BRF
Ethanol	120	20	6.1		230	38	11	10	1/31/22 14:44	BRF
Ethyl Acetate	0.72	0.35	0.21	L-03, V-34	2.6	1.3	0.75	0.698	1/31/22 14:19	BRF
Ethylbenzene	0.13	0.035	0.0090		0.55	0.15	0.039	0.698	1/31/22 14:19	BRF
4-Ethyltoluene	0.052	0.035	0.011		0.25	0.17	0.053	0.698	1/31/22 14:19	BRF
Heptane	0.25	0.035	0.014		1.0	0.14	0.059	0.698	1/31/22 14:19	BRF
Hexachlorobutadiene	ND	0.035	0.019	L-03	ND	0.37	0.21	0.698	1/31/22 14:19	BRF
Hexane	0.38	1.4	0.11	J	1.3	4.9	0.40	0.698	1/31/22 14:19	BRF
2-Hexanone (MBK)	ND	0.070	0.018		ND	0.29	0.072	0.698	1/31/22 14:19	BRF
Isopropanol	1.4	1.4	0.32	J	3.3	3.4	0.79	0.698	1/31/22 14:19	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.014		ND	0.13	0.050	0.698	1/31/22 14:19	BRF
Methylene Chloride	0.20	0.35	0.080	J	0.68	1.2	0.28	0.698	1/31/22 14:19	BRF
4-Methyl-2-pentanone (MIBK)	0.18	0.035	0.018	V-06	0.73	0.14	0.073	0.698	1/31/22 14:19	BRF
Naphthalene	0.054	0.035	0.022		0.28	0.18	0.12	0.698	1/31/22 14:19	BRF
Propene	ND	1.4	0.12		ND	2.4	0.20	0.698	1/31/22 14:19	BRF
Styrene	0.12	0.035	0.011		0.49	0.15	0.047	0.698	1/31/22 14:19	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.011		ND	0.24	0.073	0.698	1/31/22 14:19	BRF

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ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/21/2022
Field Sample #: 22A121-IA-114
Sample ID: 22A1209-02
 Sample Matrix: Indoor air
 Sampled: 1/19/2022 08:21

Sample Description/Location: H-114
 Sub Description/Location:
 Canister ID: 1153
 Canister Size: 6 liter
 Flow Controller ID: 3418
 Sample Type: 24 hr

Work Order: 22A1209
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -7
 Receipt Vacuum(in Hg): -7.5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	0.054	0.035	0.010	L-03, V-04	0.36	0.24	0.070	0.698	1/31/22 14:19	BRF
Tetrahydrofuran	ND	0.35	0.086		ND	1.0	0.25	0.698	1/31/22 14:19	BRF
Toluene	0.65	0.035	0.015		2.5	0.13	0.055	0.698	1/31/22 14:19	BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024		ND UJ	0.52	0.18	0.698	1/31/22 14:19	BRF
1,1,1-Trichloroethane	ND	0.035	0.016		ND	0.19	0.088	0.698	1/31/22 14:19	BRF
1,1,2-Trichloroethane	ND	0.035	0.014		ND	0.19	0.076	0.698	1/31/22 14:19	BRF
Trichloroethylene	0.015	0.035	0.013	J	0.079	0.19	0.069	0.698	1/31/22 14:19	BRF
Trichlorofluoromethane (Freon 11)	0.22	0.14	0.014		1.2	0.78	0.078	0.698	1/31/22 14:19	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.068	0.14	0.012	J	0.52	1.1	0.095	0.698	1/31/22 14:19	BRF
1,2,4-Trimethylbenzene	0.17	0.035	0.010		0.83	0.17	0.051	0.698	1/31/22 14:19	BRF
1,3,5-Trimethylbenzene	0.071	0.035	0.0096		0.35	0.17	0.047	0.698	1/31/22 14:19	BRF
Vinyl Acetate	ND	0.70	0.065		ND UJ	2.5	0.23	0.698	1/31/22 14:19	BRF
Vinyl Chloride	ND	0.035	0.014		ND	0.089	0.035	0.698	1/31/22 14:19	BRF
m&p-Xylene	0.44	0.070	0.019		1.9	0.30	0.084	0.698	1/31/22 14:19	BRF
o-Xylene	0.17	0.035	0.0093		0.72	0.15	0.041	0.698	1/31/22 14:19	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	87.3	70-130	1/31/22 14:44
4-Bromofluorobenzene (1)	89.4	70-130	1/31/22 14:19

ALH 2/17/2022

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/21/2022
Field Sample #: 224121-SS-35-09
Sample ID: 22A1209-03
 Sample Matrix: Sub Slab
 Sampled: 1/19/2022 10:20

Sample Description/Location: H-35-09
 Sub Description/Location:
 Canister ID: 1846
 Canister Size: 6 liter
 Flow Controller ID: 3691
 Sample Type: 24 hr

Work Order: 22A1209
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -9.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	16	8.0	4.8		37	19	11	4	1/31/22 21:08		BRF
Benzene	2.1	0.20	0.048		6.6	0.64	0.15	4	1/31/22 21:08		BRF
Benzyl chloride	ND	0.20	0.090		ND	U	1.0	0.47	4	1/31/22 21:08	BRF
Bromodichloromethane	ND	0.20	0.073		ND		1.3	0.49	4	1/31/22 21:08	BRF
Bromoform	ND	0.20	0.072		ND		2.1	0.74	4	1/31/22 21:08	BRF
Bromomethane	ND	0.20	0.16		ND		0.78	0.63	4	1/31/22 21:08	BRF
1,3-Butadiene	ND	0.20	0.14		ND		0.44	0.31	4	1/31/22 21:08	BRF
2-Butanone (MEK)	4.1	8.0	0.66	J	12	24	2.0	4	1/31/22 21:08		BRF
Carbon Disulfide	0.56	2.0	0.51	J	1.8	6.2	1.6	4	1/31/22 21:08		BRF
Carbon Tetrachloride	0.080	0.20	0.060	J	0.50	1.3	0.38	4	1/31/22 21:08		BRF
Chlorobenzene	ND	0.20	0.060		ND	0.92	0.27	4	1/31/22 21:08		BRF
Chloroethane	ND	0.20	0.15		ND	0.53	0.39	4	1/31/22 21:08		BRF
Chloroform	0.30	0.20	0.048		1.5	0.98	0.24	4	1/31/22 21:08		BRF
Chloromethane	ND	0.40	0.082		ND	0.83	0.17	4	1/31/22 21:08		BRF
Cyclohexane	ND	0.20	0.13		ND	0.69	0.46	4	1/31/22 21:08		BRF
Dibromochloromethane	ND	0.20	0.067		ND	1.7	0.57	4	1/31/22 21:08		BRF
1,2-Dibromoethane (EDB)	ND	0.20	0.056		ND	1.5	0.43	4	1/31/22 21:08		BRF
1,2-Dichlorobenzene	ND	0.20	0.074		ND	1.2	0.44	4	1/31/22 21:08		BRF
1,3-Dichlorobenzene	ND	0.20	0.048		ND	1.2	0.29	4	1/31/22 21:08		BRF
1,4-Dichlorobenzene	ND	0.20	0.081		ND	1.2	0.49	4	1/31/22 21:08		BRF
Dichlorodifluoromethane (Freon 12)	0.47	0.20	0.061		2.3	0.99	0.30	4	1/31/22 21:08		BRF
1,1-Dichloroethane	0.076	0.20	0.067	J	0.31	0.81	0.27	4	1/31/22 21:08		BRF
1,2-Dichloroethane	0.48	0.20	0.073		2.0	0.81	0.30	4	1/31/22 21:08		BRF
1,1-Dichloroethylene	ND	0.20	0.079		ND	0.79	0.31	4	1/31/22 21:08		BRF
cis-1,2-Dichloroethylene	ND	0.20	0.068		ND	0.79	0.27	4	1/31/22 21:08		BRF
trans-1,2-Dichloroethylene	ND	0.20	0.070		ND	0.79	0.28	4	1/31/22 21:08		BRF
1,2-Dichloropropane	ND	0.20	0.072		ND	0.92	0.33	4	1/31/22 21:08		BRF
cis-1,3-Dichloropropene	ND	0.20	0.093		ND	0.91	0.42	4	1/31/22 21:08		BRF
trans-1,3-Dichloropropene	ND	0.20	0.062		ND	0.91	0.28	4	1/31/22 21:08		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.20	0.069		ND	1.4	0.48	4	1/31/22 21:08		BRF
1,4-Dioxane	ND	2.0	0.14		ND	7.2	0.49	4	1/31/22 21:08		BRF
Ethanol	32	8.0	2.4		61	15	4.6	4	1/31/22 21:08		BRF
Ethyl Acetate	ND	2.0	1.2	L-03, V-34	ND	U	7.2	4.3	4	1/31/22 21:08	BRF
Ethylbenzene	0.31	0.20	0.052		1.3	0.87	0.22	4	1/31/22 21:08		BRF
4-Ethyltoluene	ND	0.20	0.062		ND	0.98	0.30	4	1/31/22 21:08		BRF
Heptane	0.25	0.20	0.082		1.0	0.82	0.34	4	1/31/22 21:08		BRF
Hexachlorobutadiene	ND	0.20	0.11	L-03	ND	U	2.1	1.2	4	1/31/22 21:08	BRF
Hexane	ND	8.0	0.66		ND	28	2.3	4	1/31/22 21:08		BRF
2-Hexanone (MBK)	ND	0.40	0.10		ND	U	1.6	0.41	4	1/31/22 21:08	BRF
Isopropanol	ND	8.0	1.8		ND	20	4.5	4	1/31/22 21:08		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.20	0.080		ND	0.72	0.29	4	1/31/22 21:08		BRF
Methylene Chloride	ND	2.0	0.46		ND	6.9	1.6	4	1/31/22 21:08		BRF
4-Methyl-2-pentanone (MIBK)	0.33	0.20	0.10	V-06	1.3	J	0.82	0.42	4	1/31/22 21:08	BRF
Naphthalene	ND	0.20	0.13		ND	1.0	0.66	4	1/31/22 21:08		BRF
Propene	ND	8.0	0.67		ND	14	1.2	4	1/31/22 21:08		BRF
Styrene	0.24	0.20	0.063		1.0	0.85	0.27	4	1/31/22 21:08		BRF
1,1,2,2-Tetrachloroethane	ND	0.20	0.061		ND	1.4	0.42	4	1/31/22 21:08		BRF

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ANALYTICAL RESULTS

Project Location: Meeker SVI

Date Received: 1/21/2022

Field Sample #: 22A121-SS-35-09

Sample ID: 22A1209-03

Sample Matrix: Sub Slab

Sampled: 1/19/2022 10:20

Sample Description/Location: H-35-09

Sub Description/Location:

Canister ID: 1846

Canister Size: 6 liter

Flow Controller ID: 3691

Sample Type: 24 hr

Work Order: 22A1209

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -9

Receipt Vacuum(in Hg): -9.2

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	0.17	0.20	0.059	J	1.2	1.4	0.40	4	1/31/22 21:08	BRF
Tetrahydrofuran	ND	2.0	0.49		ND	5.9	1.5	4	1/31/22 21:08	BRF
Toluene	4.0	0.20	0.084		15	0.75	0.32	4	1/31/22 21:08	BRF
1,2,4-Trichlorobenzene	ND	0.40	0.14	L-03, V-04	ND UJ	3.0	1.0	4	1/31/22 21:08	BRF
1,1,1-Trichloroethane	ND	0.20	0.092		ND	1.1	0.50	4	1/31/22 21:08	BRF
1,1,2-Trichloroethane	ND	0.20	0.080		ND	1.1	0.43	4	1/31/22 21:08	BRF
Trichloroethylene	ND	0.20	0.074		ND	1.1	0.40	4	1/31/22 21:08	BRF
Trichlorofluoromethane (Freon 11)	0.22	0.80	0.080	J	1.3	4.5	0.45	4	1/31/22 21:08	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.084	0.80	0.071	J	0.64	6.1	0.54	4	1/31/22 21:08	BRF
1,2,4-Trimethylbenzene	ND	0.20	0.059		ND	0.98	0.29	4	1/31/22 21:08	BRF
1,3,5-Trimethylbenzene	0.096	0.20	0.055	J	0.47	0.98	0.27	4	1/31/22 21:08	BRF
Vinyl Acetate	ND	4.0	0.37		ND UJ	14	1.3	4	1/31/22 21:08	BRF
Vinyl Chloride	ND	0.20	0.079		ND	0.51	0.20	4	1/31/22 21:08	BRF
m&p-Xylene	0.90	0.40	0.11		3.9	1.7	0.48	4	1/31/22 21:08	BRF
o-Xylene	0.38	0.20	0.054		1.7	0.87	0.23	4	1/31/22 21:08	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	89.1	70-130	1/31/22 21:08

ALA 2/17/2022

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/21/2022
Field Sample #: 224121-1A-35-09
Sample ID: 22A1209-04
 Sample Matrix: Indoor air
 Sampled: 1/19/2022 10:21

Sample Description/Location: H-35-09
 Sub Description/Location:
 Canister ID: 1004
 Canister Size: 6 liter
 Flow Controller ID: 3608
 Sample Type: 24 hr

Work Order: 22A1209
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -9.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	13	1.4	0.84		30	3.3	2.0	0.698	1/31/22 15:14	BRF
Benzene	0.31	0.035	0.0084		1.0	0.11	0.027	0.698	1/31/22 15:14	BRF
Benzyl chloride	ND	0.035	0.016		ND	0.18	0.081	0.698	1/31/22 15:14	BRF
Bromodichloromethane	ND	0.035	0.013		ND	0.23	0.085	0.698	1/31/22 15:14	BRF
Bromoform	ND	0.035	0.013		ND	0.36	0.13	0.698	1/31/22 15:14	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	1/31/22 15:14	BRF
1,3-Butadiene	ND	0.035	0.024		ND	0.077	0.054	0.698	1/31/22 15:14	BRF
2-Butanone (MEK)	0.92	1.4	0.12	J	2.7	4.1	0.34	0.698	1/31/22 15:14	BRF
Carbon Disulfide	ND	0.35	0.089		ND	1.1	0.28	0.698	1/31/22 15:14	BRF
Carbon Tetrachloride	0.087	0.035	0.011		0.54	0.22	0.066	0.698	1/31/22 15:14	BRF
Chlorobenzene	ND	0.035	0.010		ND	0.16	0.048	0.698	1/31/22 15:14	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	1/31/22 15:14	BRF
Chloroform	0.070	0.035	0.0084		0.34	0.17	0.041	0.698	1/31/22 15:14	BRF
Chloromethane	0.53	0.070	0.014		1.1	0.14	0.030	0.698	1/31/22 15:14	BRF
Cyclohexane	0.13	0.035	0.023		0.43	0.12	0.079	0.698	1/31/22 15:14	BRF
Dibromochloromethane	ND	0.035	0.012		ND	0.30	0.100	0.698	1/31/22 15:14	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.0098		ND	0.27	0.075	0.698	1/31/22 15:14	BRF
1,2-Dichlorobenzene	ND	0.035	0.013		ND	0.21	0.078	0.698	1/31/22 15:14	BRF
1,3-Dichlorobenzene	ND	0.035	0.0084		ND	0.21	0.051	0.698	1/31/22 15:14	BRF
1,4-Dichlorobenzene	0.018	0.035	0.014	J	0.11	0.21	0.085	0.698	1/31/22 15:14	BRF
Dichlorodifluoromethane (Freon 12)	0.43	0.035	0.011		2.1	0.17	0.053	0.698	1/31/22 15:14	BRF
1,1-Dichloroethane	ND	0.035	0.012		ND	0.14	0.047	0.698	1/31/22 15:14	BRF
1,2-Dichloroethane	0.016	0.035	0.013	J	0.065	0.14	0.052	0.698	1/31/22 15:14	BRF
1,1-Dichloroethylene	ND	0.035	0.014		ND	0.14	0.054	0.698	1/31/22 15:14	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.047	0.698	1/31/22 15:14	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.048	0.698	1/31/22 15:14	BRF
1,2-Dichloropropane	ND	0.035	0.013		ND	0.16	0.058	0.698	1/31/22 15:14	BRF
cis-1,3-Dichloropropene	ND	0.035	0.016		ND	0.16	0.073	0.698	1/31/22 15:14	BRF
trans-1,3-Dichloropropene	ND	0.035	0.011		ND	0.16	0.049	0.698	1/31/22 15:14	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.018	0.035	0.012	J	0.13	0.24	0.084	0.698	1/31/22 15:14	BRF
1,4-Dioxane	ND	0.35	0.024		ND	1.3	0.085	0.698	1/31/22 15:14	BRF
Ethanol	180	20	6.1		350	38	11	10	1/31/22 15:39	BRF
Ethyl Acetate	0.45	0.35	0.21	L-03, V-34	1.6	1.3	0.75	0.698	1/31/22 15:14	BRF
Ethylbenzene	0.19	0.035	0.0090		0.84	0.15	0.039	0.698	1/31/22 15:14	BRF
4-Ethyltoluene	0.041	0.035	0.011		0.20	0.17	0.053	0.698	1/31/22 15:14	BRF
Heptane	0.17	0.035	0.014		0.71	0.14	0.059	0.698	1/31/22 15:14	BRF
Hexachlorobutadiene	ND	0.035	0.019	L-03	ND	0.37	0.21	0.698	1/31/22 15:14	BRF
Hexane	0.40	1.4	0.11	J	1.4	4.9	0.40	0.698	1/31/22 15:14	BRF
2-Hexanone (MBK)	ND	0.070	0.018		ND	0.29	0.072	0.698	1/31/22 15:14	BRF
Isopropanol	23	1.4	0.32		57	3.4	0.79	0.698	1/31/22 15:14	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.014		ND	0.13	0.050	0.698	1/31/22 15:14	BRF
Methylene Chloride	0.47	0.35	0.080		1.6	1.2	0.28	0.698	1/31/22 15:14	BRF
4-Methyl-2-pentanone (MIBK)	0.088	0.035	0.018	V-06	0.36	0.14	0.073	0.698	1/31/22 15:14	BRF
Naphthalene	0.050	0.035	0.022		0.26	0.18	0.12	0.698	1/31/22 15:14	BRF
Propene	ND	1.4	0.12		ND	2.4	0.20	0.698	1/31/22 15:14	BRF
Styrene	0.052	0.035	0.011		0.22	0.15	0.047	0.698	1/31/22 15:14	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.011		ND	0.24	0.073	0.698	1/31/22 15:14	BRF

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ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/21/2022
Field Sample #: 22A1209-09
Sample ID: 22A1209-04
 Sample Matrix: Indoor air
 Sampled: 1/19/2022 10:21

Sample Description/Location: H-35-09
 Sub Description/Location:
 Canister ID: 1004
 Canister Size: 6 liter
 Flow Controller ID: 3608
 Sample Type: 24 hr

Work Order: 22A1209
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -9.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	0.090	0.035	0.010	L-03, V-04	0.61	0.24	0.070	0.698	1/31/22 15:14	BRF
Tetrahydrofuran	ND	0.35	0.086		ND	1.0	0.25	0.698	1/31/22 15:14	BRF
Toluene	0.58	0.035	0.015		2.2	0.13	0.055	0.698	1/31/22 15:14	BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024		ND UJ	0.52	0.18	0.698	1/31/22 15:14	BRF
1,1,1-Trichloroethane	ND	0.035	0.016		ND	0.19	0.088	0.698	1/31/22 15:14	BRF
1,1,2-Trichloroethane	ND	0.035	0.014		ND	0.19	0.076	0.698	1/31/22 15:14	BRF
Trichloroethylene	ND	0.035	0.013	J	ND	0.19	0.069	0.698	1/31/22 15:14	BRF
Trichlorofluoromethane (Freon 11)	0.22	0.14	0.014		1.2	0.78	0.078	0.698	1/31/22 15:14	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.077	0.14	0.012		0.59	1.1	0.095	0.698	1/31/22 15:14	BRF
1,2,4-Trimethylbenzene	0.14	0.035	0.010		0.68	0.17	0.051	0.698	1/31/22 15:14	BRF
1,3,5-Trimethylbenzene	0.049	0.035	0.0096		0.24	0.17	0.047	0.698	1/31/22 15:14	BRF
Vinyl Acetate	ND	0.70	0.065		ND UJ	2.5	0.23	0.698	1/31/22 15:14	BRF
Vinyl Chloride	ND	0.035	0.014	ND	0.089	0.035	0.698	1/31/22 15:14	BRF	
m&p-Xylene	0.65	0.070	0.019	2.8	0.30	0.084	0.698	1/31/22 15:14	BRF	
o-Xylene	0.21	0.035	0.0093	0.90	0.15	0.041	0.698	1/31/22 15:14	BRF	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	91.6	70-130	1/31/22 15:14
4-Bromofluorobenzene (1)	86.4	70-130	1/31/22 15:39

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ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/21/2022
Field Sample #: 224121-SS-115
Sample ID: 22A1209-05
 Sample Matrix: Sub Slab
 Sampled: 1/19/2022 12:07

Sample Description/Location: H-115
 Sub Description/Location:
 Canister ID: 1997
 Canister Size: 6 liter
 Flow Controller ID: 3484
 Sample Type: 24 hr

Work Order: 22A1209
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -8.6
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed	Analyst	
Acetone	18	8.0	4.8			42	19	11	4	1/31/22 21:57	BRF
Benzene	2.6	0.20	0.048			8.4	0.64	0.15	4	1/31/22 21:57	BRF
Benzyl chloride	ND	0.20	0.090			ND UJ	1.0	0.47	4	1/31/22 21:57	BRF
Bromodichloromethane	ND	0.20	0.073			ND	1.3	0.49	4	1/31/22 21:57	BRF
Bromoform	ND	0.20	0.072			ND	2.1	0.74	4	1/31/22 21:57	BRF
Bromomethane	ND	0.20	0.16			ND	0.78	0.63	4	1/31/22 21:57	BRF
1,3-Butadiene	ND	0.20	0.14			ND	0.44	0.31	4	1/31/22 21:57	BRF
2-Butanone (MEK)	5.0	8.0	0.66	J		15	24	2.0	4	1/31/22 21:57	BRF
Carbon Disulfide	0.57	2.0	0.51	J		1.8	6.2	1.6	4	1/31/22 21:57	BRF
Carbon Tetrachloride	0.076	0.20	0.060	J		0.48	1.3	0.38	4	1/31/22 21:57	BRF
Chlorobenzene	1.7	0.20	0.060			7.9	0.92	0.27	4	1/31/22 21:57	BRF
Chloroethane	ND	0.20	0.15			ND	0.53	0.39	4	1/31/22 21:57	BRF
Chloroform	1.3	0.20	0.048			6.4	0.98	0.24	4	1/31/22 21:57	BRF
Chloromethane	0.64	0.40	0.082			1.3	0.83	0.17	4	1/31/22 21:57	BRF
Cyclohexane	ND	0.20	0.13			ND	0.69	0.46	4	1/31/22 21:57	BRF
Dibromochloromethane	ND	0.20	0.067			ND	1.7	0.57	4	1/31/22 21:57	BRF
1,2-Dibromoethane (EDB)	ND	0.20	0.056			ND	1.5	0.43	4	1/31/22 21:57	BRF
1,2-Dichlorobenzene	ND	0.20	0.074			ND	1.2	0.44	4	1/31/22 21:57	BRF
1,3-Dichlorobenzene	ND	0.20	0.048			ND	1.2	0.29	4	1/31/22 21:57	BRF
1,4-Dichlorobenzene	ND	0.20	0.081			ND	1.2	0.49	4	1/31/22 21:57	BRF
Dichlorodifluoromethane (Freon 12)	0.49	0.20	0.061			2.4	0.99	0.30	4	1/31/22 21:57	BRF
1,1-Dichloroethane	ND	0.20	0.067			ND	0.81	0.27	4	1/31/22 21:57	BRF
1,2-Dichloroethane	0.48	0.20	0.073			2.0	0.81	0.30	4	1/31/22 21:57	BRF
1,1-Dichloroethylene	ND	0.20	0.079			ND	0.79	0.31	4	1/31/22 21:57	BRF
cis-1,2-Dichloroethylene	ND	0.20	0.068			ND	0.79	0.27	4	1/31/22 21:57	BRF
trans-1,2-Dichloroethylene	ND	0.20	0.070			ND	0.79	0.28	4	1/31/22 21:57	BRF
1,2-Dichloropropane	ND	0.20	0.072			ND	0.92	0.33	4	1/31/22 21:57	BRF
cis-1,3-Dichloropropene	ND	0.20	0.093			ND	0.91	0.42	4	1/31/22 21:57	BRF
trans-1,3-Dichloropropene	ND	0.20	0.062			ND	0.91	0.28	4	1/31/22 21:57	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.20	0.069			ND	1.4	0.48	4	1/31/22 21:57	BRF
1,4-Dioxane	ND	2.0	0.14			ND	7.2	0.49	4	1/31/22 21:57	BRF
Ethanol	25	8.0	2.4			47	15	4.6	4	1/31/22 21:57	BRF
Ethyl Acetate	29	2.0	1.2	L-03, V-34		100 J	7.2	4.3	4	1/31/22 21:57	BRF
Ethylbenzene	0.49	0.20	0.052			2.1	0.87	0.22	4	1/31/22 21:57	BRF
4-Ethyltoluene	0.084	0.20	0.062	J		0.41	0.98	0.30	4	1/31/22 21:57	BRF
Heptane	0.32	0.20	0.082			1.3	0.82	0.34	4	1/31/22 21:57	BRF
Hexachlorobutadiene	ND	0.20	0.11	L-03		ND UJ	2.1	1.2	4	1/31/22 21:57	BRF
Hexane	0.71	8.0	0.66	J		2.5	28	2.3	4	1/31/22 21:57	BRF
2-Hexanone (MBK)	ND	0.40	0.10			ND UJ	1.6	0.41	4	1/31/22 21:57	BRF
Isopropanol	ND	8.0	1.8			ND	20	4.5	4	1/31/22 21:57	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.20	0.080			ND	0.72	0.29	4	1/31/22 21:57	BRF
Methylene Chloride	ND	2.0	0.46			ND	6.9	1.6	4	1/31/22 21:57	BRF
4-Methyl-2-pentanone (MIBK)	0.45	0.20	0.10	V-06		1.9 J	0.82	0.42	4	1/31/22 21:57	BRF
Naphthalene	ND	0.20	0.13			ND	1.0	0.66	4	1/31/22 21:57	BRF
Propene	ND	8.0	0.67			ND	14	1.2	4	1/31/22 21:57	BRF
Styrene	0.34	0.20	0.063			1.4	0.85	0.27	4	1/31/22 21:57	BRF
1,1,2,2-Tetrachloroethane	ND	0.20	0.061			ND	1.4	0.42	4	1/31/22 21:57	BRF

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ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/21/2022
Field Sample #: 22A1209-SS-115
Sample ID: 22A1209-05
 Sample Matrix: Sub Slab
 Sampled: 1/19/2022 12:07

Sample Description/Location: H-115
 Sub Description/Location:
 Canister ID: 1997
 Canister Size: 6 liter
 Flow Controller ID: 3484
 Sample Type: 24 hr

Work Order: 22A1209
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -8.6
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	1.3	0.20	0.059	L-03, V-04	8.8	1.4	0.40	4	1/31/22 21:57	BRF
Tetrahydrofuran	ND	2.0	0.49		ND	5.9	1.5	4	1/31/22 21:57	BRF
Toluene	6.0	0.20	0.084		22	0.75	0.32	4	1/31/22 21:57	BRF
1,2,4-Trichlorobenzene	ND	0.40	0.14		ND UJ	3.0	1.0	4	1/31/22 21:57	BRF
1,1,1-Trichloroethane	ND	0.20	0.092		ND	1.1	0.50	4	1/31/22 21:57	BRF
1,1,2-Trichloroethane	ND	0.20	0.080		ND	1.1	0.43	4	1/31/22 21:57	BRF
Trichloroethylene	ND	0.20	0.074	J	ND	1.1	0.40	4	1/31/22 21:57	BRF
Trichlorofluoromethane (Freon 11)	0.20	0.80	0.080		1.1	4.5	0.45	4	1/31/22 21:57	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.088	0.80	0.071		0.67	6.1	0.54	4	1/31/22 21:57	BRF
1,2,4-Trimethylbenzene	0.33	0.20	0.059	J	1.6	0.98	0.29	4	1/31/22 21:57	BRF
1,3,5-Trimethylbenzene	0.12	0.20	0.055		0.57	0.98	0.27	4	1/31/22 21:57	BRF
Vinyl Acetate	ND	4.0	0.37		ND UJ	14	1.3	4	1/31/22 21:57	BRF
Vinyl Chloride	ND	0.20	0.079	ND	0.51	0.20	4	1/31/22 21:57	BRF	
m&p-Xylene	1.4	0.40	0.11	5.9	1.7	0.48	4	1/31/22 21:57	BRF	
o-Xylene	0.52	0.20	0.054	2.2	0.87	0.23	4	1/31/22 21:57	BRF	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	90.2	70-130	1/31/22 21:57

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ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/21/2022
Field Sample #: 22A121-IA-115
Sample ID: 22A1209-06
 Sample Matrix: Indoor air
 Sampled: 1/19/2022 12:08

Sample Description/Location: H-115
 Sub Description/Location:
 Canister ID: 1139
 Canister Size: 6 liter
 Flow Controller ID: 3648
 Sample Type: 24 hr

Work Order: 22A1209
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -9.5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	
Acetone	11	1.4	0.84		25	3.3	2.0	0.698	1/31/22 16:10	BRF
Benzene	0.37	0.035	0.0084		1.2	0.11	0.027	0.698	1/31/22 16:10	BRF
Benzyl chloride	ND	0.035	0.016		ND	0.18	0.081	0.698	1/31/22 16:10	BRF
Bromodichloromethane	0.075	0.035	0.013		0.50	0.23	0.085	0.698	1/31/22 16:10	BRF
Bromoform	ND	0.035	0.013		ND	0.36	0.13	0.698	1/31/22 16:10	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	1/31/22 16:10	BRF
1,3-Butadiene	ND	0.035	0.024		ND	0.077	0.054	0.698	1/31/22 16:10	BRF
2-Butanone (MEK)	0.67	1.4	0.12	J	2.0	4.1	0.34	0.698	1/31/22 16:10	BRF
Carbon Disulfide	ND	0.35	0.089		ND	1.1	0.28	0.698	1/31/22 16:10	BRF
Carbon Tetrachloride	0.073	0.035	0.011		0.46	0.22	0.066	0.698	1/31/22 16:10	BRF
Chlorobenzene	ND	0.035	0.010		ND	0.16	0.048	0.698	1/31/22 16:10	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	1/31/22 16:10	BRF
Chloroform	1.0	0.035	0.0084		5.1	0.17	0.041	0.698	1/31/22 16:10	BRF
Chloromethane	0.54	0.070	0.014		1.1	0.14	0.030	0.698	1/31/22 16:10	BRF
Cyclohexane	0.14	0.035	0.023		0.49	0.12	0.079	0.698	1/31/22 16:10	BRF
Dibromochloromethane	ND	0.035	0.012		ND	0.30	0.100	0.698	1/31/22 16:10	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.0098		ND	0.27	0.075	0.698	1/31/22 16:10	BRF
1,2-Dichlorobenzene	ND	0.035	0.013		ND	0.21	0.078	0.698	1/31/22 16:10	BRF
1,3-Dichlorobenzene	ND	0.035	0.0084		ND	0.21	0.051	0.698	1/31/22 16:10	BRF
1,4-Dichlorobenzene	0.052	0.035	0.014		0.31	0.21	0.085	0.698	1/31/22 16:10	BRF
Dichlorodifluoromethane (Freon 12)	0.44	0.035	0.011		2.2	0.17	0.053	0.698	1/31/22 16:10	BRF
1,1-Dichloroethane	ND	0.035	0.012		ND	0.14	0.047	0.698	1/31/22 16:10	BRF
1,2-Dichloroethane	0.027	0.035	0.013	J	0.11	0.14	0.052	0.698	1/31/22 16:10	BRF
1,1-Dichloroethylene	ND	0.035	0.014		ND	0.14	0.054	0.698	1/31/22 16:10	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.047	0.698	1/31/22 16:10	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.048	0.698	1/31/22 16:10	BRF
1,2-Dichloropropane	ND	0.035	0.013		ND	0.16	0.058	0.698	1/31/22 16:10	BRF
cis-1,3-Dichloropropene	ND	0.035	0.016		ND	0.16	0.073	0.698	1/31/22 16:10	BRF
trans-1,3-Dichloropropene	ND	0.035	0.011		ND	0.16	0.049	0.698	1/31/22 16:10	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.017	0.035	0.012	J	0.12	0.24	0.084	0.698	1/31/22 16:10	BRF
1,4-Dioxane	ND	0.35	0.024		ND	1.3	0.085	0.698	1/31/22 16:10	BRF
Ethanol	190	20	6.1		360	38	11	10	1/31/22 16:35	BRF
Ethyl Acetate	0.90	0.35	0.21	L-03, V-34	3.2	1.3	0.75	0.698	1/31/22 16:10	BRF
Ethylbenzene	0.13	0.035	0.0090		0.57	0.15	0.039	0.698	1/31/22 16:10	BRF
4-Ethyltoluene	0.069	0.035	0.011		0.34	0.17	0.053	0.698	1/31/22 16:10	BRF
Heptane	0.33	0.035	0.014		1.3	0.14	0.059	0.698	1/31/22 16:10	BRF
Hexachlorobutadiene	ND	0.035	0.019	L-03	ND	0.37	0.21	0.698	1/31/22 16:10	BRF
Hexane	0.33	1.4	0.11	J	1.2	4.9	0.40	0.698	1/31/22 16:10	BRF
2-Hexanone (MBK)	ND	0.070	0.018		ND	0.29	0.072	0.698	1/31/22 16:10	BRF
Isopropanol	19	1.4	0.32		47	3.4	0.79	0.698	1/31/22 16:10	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.014		ND	0.13	0.050	0.698	1/31/22 16:10	BRF
Methylene Chloride	0.33	0.35	0.080	J	1.1	1.2	0.28	0.698	1/31/22 16:10	BRF
4-Methyl-2-pentanone (MIBK)	0.10	0.035	0.018	V-06	0.42	0.14	0.073	0.698	1/31/22 16:10	BRF
Naphthalene	ND	0.035	0.022		ND	0.18	0.12	0.698	1/31/22 16:10	BRF
Propene	ND	1.4	0.12		ND	2.4	0.20	0.698	1/31/22 16:10	BRF
Styrene	0.082	0.035	0.011		0.35	0.15	0.047	0.698	1/31/22 16:10	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.011		ND	0.24	0.073	0.698	1/31/22 16:10	BRF

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ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/21/2022
Field Sample #: 22A1209-1A-115
Sample ID: 22A1209-06
 Sample Matrix: Indoor air
 Sampled: 1/19/2022 12:08

Sample Description/Location: H-115
 Sub Description/Location:
 Canister ID: 1139
 Canister Size: 6 liter
 Flow Controller ID: 3648
 Sample Type: 24 hr

Work Order: 22A1209
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -9.5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time			
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	Analyst	
Tetrachloroethylene	0.098	0.035	0.010	L-03, V-04	0.67	0.24	0.070	0.698	1/31/22 16:10	BRF	
Tetrahydrofuran	0.40	0.35	0.086		1.2	1.0	0.25	0.698	1/31/22 16:10	BRF	
Toluene	0.76	0.035	0.015		2.9	0.13	0.055	0.698	1/31/22 16:10	BRF	
1,2,4-Trichlorobenzene	ND	0.070	0.024		ND UJ	0.52	0.18	0.698	1/31/22 16:10	BRF	
1,1,1-Trichloroethane	ND	0.035	0.016		ND	0.19	0.088	0.698	1/31/22 16:10	BRF	
1,1,2-Trichloroethane	ND	0.035	0.014		ND	0.19	0.076	0.698	1/31/22 16:10	BRF	
Trichloroethylene	0.031	0.035	0.013	J	0.16	0.19	0.069	0.698	1/31/22 16:10	BRF	
Trichlorofluoromethane (Freon 11)	0.24	0.14	0.014		1.4	0.78	0.078	0.698	1/31/22 16:10	BRF	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.10	0.14	0.012	J	0.76	1.1	0.095	0.698	1/31/22 16:10	BRF	
1,2,4-Trimethylbenzene	0.34	0.035	0.010		1.7	0.17	0.051	0.698	1/31/22 16:10	BRF	
1,3,5-Trimethylbenzene	0.13	0.035	0.0096		0.66	0.17	0.047	0.698	1/31/22 16:10	BRF	
Vinyl Acetate	ND	0.70	0.065		ND UJ	2.5	0.23	0.698	1/31/22 16:10	BRF	
Vinyl Chloride	ND	0.035	0.014		ND	0.089	0.035	0.698	1/31/22 16:10	BRF	
m&p-Xylene	0.47	0.070	0.019		2.0	0.30	0.084	0.698	1/31/22 16:10	BRF	
o-Xylene	0.20	0.035	0.0093		0.87	0.15	0.041	0.698	1/31/22 16:10	BRF	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	91.3	70-130	1/31/22 16:10
4-Bromofluorobenzene (1)	85.4	70-130	1/31/22 16:35

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ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/21/2022
Field Sample #: 22A121-OA-115
Sample ID: 22A1209-07
 Sample Matrix: Ambient Air
 Sampled: 1/19/2022 12:09

Sample Description/Location: H-115
 Sub Description/Location:
 Canister ID: 1317
 Canister Size: 6 liter
 Flow Controller ID: 3506
 Sample Type: 24 hr

Work Order: 22A1209
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -7.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	4.1	1.4	0.84		9.8	3.3	2.0	0.698	1/31/22 17:06	BRF
Benzene	0.29	0.035	0.0084		0.94	0.11	0.027	0.698	1/31/22 17:06	BRF
Benzyl chloride	ND	0.035	0.016		ND	0.18	0.081	0.698	1/31/22 17:06	BRF
Bromodichloromethane	ND	0.035	0.013		ND	0.23	0.085	0.698	1/31/22 17:06	BRF
Bromoform	ND	0.035	0.013		ND	0.36	0.13	0.698	1/31/22 17:06	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	1/31/22 17:06	BRF
1,3-Butadiene	ND	0.035	0.024		ND	0.077	0.054	0.698	1/31/22 17:06	BRF
2-Butanone (MEK)	0.54	1.4	0.12	J	1.6	4.1	0.34	0.698	1/31/22 17:06	BRF
Carbon Disulfide	ND	0.35	0.089		ND	1.1	0.28	0.698	1/31/22 17:06	BRF
Carbon Tetrachloride	0.075	0.035	0.011		0.47	0.22	0.066	0.698	1/31/22 17:06	BRF
Chlorobenzene	ND	0.035	0.010		ND	0.16	0.048	0.698	1/31/22 17:06	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	1/31/22 17:06	BRF
Chloroform	0.026	0.035	0.0084	J	0.13	0.17	0.041	0.698	1/31/22 17:06	BRF
Chloromethane	0.50	0.070	0.014		1.0	0.14	0.030	0.698	1/31/22 17:06	BRF
Cyclohexane	0.11	0.035	0.023		0.39	0.12	0.079	0.698	1/31/22 17:06	BRF
Dibromochloromethane	ND	0.035	0.012		ND	0.30	0.100	0.698	1/31/22 17:06	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.0098		ND	0.27	0.075	0.698	1/31/22 17:06	BRF
1,2-Dichlorobenzene	ND	0.035	0.013		ND	0.21	0.078	0.698	1/31/22 17:06	BRF
1,3-Dichlorobenzene	ND	0.035	0.0084		ND	0.21	0.051	0.698	1/31/22 17:06	BRF
1,4-Dichlorobenzene	ND	0.035	0.014		ND	0.21	0.085	0.698	1/31/22 17:06	BRF
Dichlorodifluoromethane (Freon 12)	0.44	0.035	0.011		2.2	0.17	0.053	0.698	1/31/22 17:06	BRF
1,1-Dichloroethane	ND	0.035	0.012		ND	0.14	0.047	0.698	1/31/22 17:06	BRF
1,2-Dichloroethane	ND	0.035	0.013		ND	0.14	0.052	0.698	1/31/22 17:06	BRF
1,1-Dichloroethylene	ND	0.035	0.014		ND	0.14	0.054	0.698	1/31/22 17:06	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.047	0.698	1/31/22 17:06	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.048	0.698	1/31/22 17:06	BRF
1,2-Dichloropropane	ND	0.035	0.013		ND	0.16	0.058	0.698	1/31/22 17:06	BRF
cis-1,3-Dichloropropene	ND	0.035	0.016		ND	0.16	0.073	0.698	1/31/22 17:06	BRF
trans-1,3-Dichloropropene	ND	0.035	0.011		ND	0.16	0.049	0.698	1/31/22 17:06	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.015	0.035	0.012	J	0.10	0.24	0.084	0.698	1/31/22 17:06	BRF
1,4-Dioxane	ND	0.35	0.024		ND	1.3	0.085	0.698	1/31/22 17:06	BRF
Ethanol	13	1.4	0.42		24	2.6	0.80	0.698	1/31/22 17:06	BRF
Ethyl Acetate	0.46	0.35	0.21	L-03, V-34	1.7	1.3	0.75	0.698	1/31/22 17:06	BRF
Ethylbenzene	0.069	0.035	0.0090		0.30	0.15	0.039	0.698	1/31/22 17:06	BRF
4-Ethyltoluene	0.022	0.035	0.011	J	0.11	0.17	0.053	0.698	1/31/22 17:06	BRF
Heptane	0.17	0.035	0.014		0.70	0.14	0.059	0.698	1/31/22 17:06	BRF
Hexachlorobutadiene	ND	0.035	0.019	L-03	ND	0.37	0.21	0.698	1/31/22 17:06	BRF
Hexane	0.28	1.4	0.11	J	1.0	4.9	0.40	0.698	1/31/22 17:06	BRF
2-Hexanone (MBK)	ND	0.070	0.018		ND	0.29	0.072	0.698	1/31/22 17:06	BRF
Isopropanol	1.2	1.4	0.32	J	2.9	3.4	0.79	0.698	1/31/22 17:06	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.014		ND	0.13	0.050	0.698	1/31/22 17:06	BRF
Methylene Chloride	0.43	0.35	0.080		1.5	1.2	0.28	0.698	1/31/22 17:06	BRF
4-Methyl-2-pentanone (MIBK)	0.068	0.035	0.018	V-06	0.28	0.14	0.073	0.698	1/31/22 17:06	BRF
Naphthalene	ND	0.035	0.022		ND	0.18	0.12	0.698	1/31/22 17:06	BRF
Propene	ND	1.4	0.12		ND	2.4	0.20	0.698	1/31/22 17:06	BRF
Styrene	0.016	0.035	0.011	J	0.068	0.15	0.047	0.698	1/31/22 17:06	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.011		ND	0.24	0.073	0.698	1/31/22 17:06	BRF

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ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/21/2022
Field Sample #: 22A1209-OA-115
Sample ID: 22A1209-07
 Sample Matrix: Ambient Air
 Sampled: 1/19/2022 12:09

Sample Description/Location: H-115
 Sub Description/Location:
 Canister ID: 1317
 Canister Size: 6 liter
 Flow Controller ID: 3506
 Sample Type: 24 hr

Work Order: 22A1209
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -7.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				ug/m3				Date/Time	
	Results	RL	MDL	Flag/Qual	Results	RL	MDL	Dilution	Analyzed	Analyst
Tetrachloroethylene	0.033	0.035	0.010	J	0.22	0.24	0.070	0.698	1/31/22 17:06	BRF
Tetrahydrofuran	ND	0.35	0.086		ND	1.0	0.25	0.698	1/31/22 17:06	BRF
Toluene	0.46	0.035	0.015		1.7	0.13	0.055	0.698	1/31/22 17:06	BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024	L-03, V-04	ND	0.52	0.18	0.698	1/31/22 17:06	BRF
1,1,1-Trichloroethane	ND	0.035	0.016		ND	0.19	0.088	0.698	1/31/22 17:06	BRF
1,1,2-Trichloroethane	ND	0.035	0.014		ND	0.19	0.076	0.698	1/31/22 17:06	BRF
Trichloroethylene	ND	0.035	0.013		ND	0.19	0.069	0.698	1/31/22 17:06	BRF
Trichlorofluoromethane (Freon 11)	0.23	0.14	0.014		1.3	0.78	0.078	0.698	1/31/22 17:06	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.072	0.14	0.012	J	0.55	1.1	0.095	0.698	1/31/22 17:06	BRF
1,2,4-Trimethylbenzene	0.075	0.035	0.010		0.37	0.17	0.051	0.698	1/31/22 17:06	BRF
1,3,5-Trimethylbenzene	0.024	0.035	0.0096	J	0.12	0.17	0.047	0.698	1/31/22 17:06	BRF
Vinyl Acetate	ND	0.70	0.065		ND	2.5	0.23	0.698	1/31/22 17:06	BRF
Vinyl Chloride	ND	0.035	0.014		ND	0.089	0.035	0.698	1/31/22 17:06	BRF
m&p-Xylene	0.22	0.070	0.019		0.96	0.30	0.084	0.698	1/31/22 17:06	BRF
o-Xylene	0.083	0.035	0.0093		0.36	0.15	0.041	0.698	1/31/22 17:06	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	91.3	70-130	1/31/22 17:06

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ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/21/2022
Field Sample #: 224121-SS-116
Sample ID: 22A1209-08
 Sample Matrix: Sub Slab
 Sampled: 1/19/2022 14:10

Sample Description/Location: H-116
 Sub Description/Location:
 Canister ID: 1016
 Canister Size: 6 liter
 Flow Controller ID: 3645
 Sample Type: 24 hr

Work Order: 22A1209
 Initial Vacuum(in Hg): -28.5
 Final Vacuum(in Hg): -11.5
 Receipt Vacuum(in Hg): -11.6
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	29	8.0	4.8		68	19	11	4	2/1/22 7:33	BRF	
Benzene	ND	0.20	0.048		ND	0.64	0.15	4	2/1/22 7:33	BRF	
Benzyl chloride	ND	0.20	0.090		ND	1.0	0.47	4	2/1/22 7:33	BRF	
Bromodichloromethane	ND	0.20	0.073		ND	1.3	0.49	4	2/1/22 7:33	BRF	
Bromoform	ND	0.20	0.072		ND	2.1	0.74	4	2/1/22 7:33	BRF	
Bromomethane	ND	0.20	0.16		ND	0.78	0.63	4	2/1/22 7:33	BRF	
1,3-Butadiene	ND	0.20	0.14		ND	0.44	0.31	4	2/1/22 7:33	BRF	
2-Butanone (MEK)	2.7	8.0	0.66	J	7.9	24	2.0	4	2/1/22 7:33	BRF	
Carbon Disulfide	ND	2.0	0.51		ND	6.2	1.6	4	2/1/22 7:33	BRF	
Carbon Tetrachloride	0.10	0.20	0.060	J	0.63	1.3	0.38	4	2/1/22 7:33	BRF	
Chlorobenzene	ND	0.20	0.060		ND	0.92	0.27	4	2/1/22 7:33	BRF	
Chloroethane	ND	0.20	0.15		ND	0.53	0.39	4	2/1/22 7:33	BRF	
Chloroform	0.16	0.20	0.048	J	0.78	0.98	0.24	4	2/1/22 7:33	BRF	
Chloromethane	ND	0.40	0.082		ND	0.83	0.17	4	2/1/22 7:33	BRF	
Cyclohexane	ND	0.20	0.13		ND	0.69	0.46	4	2/1/22 7:33	BRF	
Dibromochloromethane	ND	0.20	0.067		ND	1.7	0.57	4	2/1/22 7:33	BRF	
1,2-Dibromoethane (EDB)	ND	0.20	0.056		ND	1.5	0.43	4	2/1/22 7:33	BRF	
1,2-Dichlorobenzene	ND	0.20	0.074		ND	1.2	0.44	4	2/1/22 7:33	BRF	
1,3-Dichlorobenzene	ND	0.20	0.048		ND	1.2	0.29	4	2/1/22 7:33	BRF	
1,4-Dichlorobenzene	ND	0.20	0.081		ND	1.2	0.49	4	2/1/22 7:33	BRF	
Dichlorodifluoromethane (Freon 12)	0.50	0.20	0.061		2.5	0.99	0.30	4	2/1/22 7:33	BRF	
1,1-Dichloroethane	ND	0.20	0.067		ND	0.81	0.27	4	2/1/22 7:33	BRF	
1,2-Dichloroethane	0.23	0.20	0.073		0.92	0.81	0.30	4	2/1/22 7:33	BRF	
1,1-Dichloroethylene	ND	0.20	0.079		ND	0.79	0.31	4	2/1/22 7:33	BRF	
cis-1,2-Dichloroethylene	ND	0.20	0.068		ND	0.79	0.27	4	2/1/22 7:33	BRF	
trans-1,2-Dichloroethylene	ND	0.20	0.070		ND	0.79	0.28	4	2/1/22 7:33	BRF	
1,2-Dichloropropane	ND	0.20	0.072		ND	0.92	0.33	4	2/1/22 7:33	BRF	
cis-1,3-Dichloropropene	ND	0.20	0.093		ND	0.91	0.42	4	2/1/22 7:33	BRF	
trans-1,3-Dichloropropene	ND	0.20	0.062		ND	0.91	0.28	4	2/1/22 7:33	BRF	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.20	0.069		ND	1.4	0.48	4	2/1/22 7:33	BRF	
1,4-Dioxane	ND	2.0	0.14		ND	7.2	0.49	4	2/1/22 7:33	BRF	
Ethanol	35	8.0	2.4		65	15	4.6	4	2/1/22 7:33	BRF	
Ethyl Acetate	ND	2.0	1.2	L-03, V-34	ND	7.2	4.3	4	2/1/22 7:33	BRF	
Ethylbenzene	0.14	0.20	0.052	J	0.63	0.87	0.22	4	2/1/22 7:33	BRF	
4-Ethyltoluene	ND	0.20	0.062		ND	0.98	0.30	4	2/1/22 7:33	BRF	
Heptane	ND	0.20	0.082		ND	0.82	0.34	4	2/1/22 7:33	BRF	
Hexachlorobutadiene	ND	0.20	0.11	L-03	ND	2.1	1.2	4	2/1/22 7:33	BRF	
Hexane	ND	8.0	0.66		ND	28	2.3	4	2/1/22 7:33	BRF	
2-Hexanone (MBK)	ND	0.40	0.10		ND	1.6	0.41	4	2/1/22 7:33	BRF	
Isopropanol	ND	8.0	1.8		ND	20	4.5	4	2/1/22 7:33	BRF	
Methyl tert-Butyl Ether (MTBE)	ND	0.20	0.080		ND	0.72	0.29	4	2/1/22 7:33	BRF	
Methylene Chloride	ND	2.0	0.46		ND	6.9	1.6	4	2/1/22 7:33	BRF	
4-Methyl-2-pentanone (MIBK)	ND	0.20	0.10		ND	0.82	0.42	4	2/1/22 7:33	BRF	
Naphthalene	ND	0.20	0.13		ND	1.0	0.66	4	2/1/22 7:33	BRF	
Propene	ND	8.0	0.67		ND	14	1.2	4	2/1/22 7:33	BRF	
Styrene	0.10	0.20	0.063	J	0.44	0.85	0.27	4	2/1/22 7:33	BRF	
1,1,2,2-Tetrachloroethane	ND	0.20	0.061		ND	1.4	0.42	4	2/1/22 7:33	BRF	

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ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/21/2022
Field Sample #: 22A1209-SS-116
Sample ID: 22A1209-08
 Sample Matrix: Sub Slab
 Sampled: 1/19/2022 14:10

Sample Description/Location: H-116
 Sub Description/Location:
 Canister ID: 1016
 Canister Size: 6 liter
 Flow Controller ID: 3645
 Sample Type: 24 hr

Work Order: 22A1209
 Initial Vacuum(in Hg): -28.5
 Final Vacuum(in Hg): -11.5
 Receipt Vacuum(in Hg): -11.6
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				ug/m3				Date/Time	
	Results	RL	MDL	Flag/Qual	Results	RL	MDL	Dilution	Analyzed	Analyst
Tetrachloroethylene	0.11	0.20	0.059	J	0.76	1.4	0.40	4	2/1/22 7:33	BRF
Tetrahydrofuran	ND	2.0	0.49		ND	5.9	1.5	4	2/1/22 7:33	BRF
Toluene	1.9	0.20	0.084		7.2	0.75	0.32	4	2/1/22 7:33	BRF
1,2,4-Trichlorobenzene	ND	0.40	0.14	L-03, V-04	ND UJ	3.0	1.0	4	2/1/22 7:33	BRF
1,1,1-Trichloroethane	ND	0.20	0.092		ND	1.1	0.50	4	2/1/22 7:33	BRF
1,1,2-Trichloroethane	ND	0.20	0.080		ND	1.1	0.43	4	2/1/22 7:33	BRF
Trichloroethylene	ND	0.20	0.074		ND	1.1	0.40	4	2/1/22 7:33	BRF
Trichlorofluoromethane (Freon 11)	0.25	0.80	0.080	J	1.4	4.5	0.45	4	2/1/22 7:33	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.092	0.80	0.071	J	0.71	6.1	0.54	4	2/1/22 7:33	BRF
1,2,4-Trimethylbenzene	0.12	0.20	0.059	J	0.57	0.98	0.29	4	2/1/22 7:33	BRF
1,3,5-Trimethylbenzene	ND	0.20	0.055		ND	0.98	0.27	4	2/1/22 7:33	BRF
Vinyl Acetate	ND	4.0	0.37		ND UJ	14	1.3	4	2/1/22 7:33	BRF
Vinyl Chloride	ND	0.20	0.079		ND	0.51	0.20	4	2/1/22 7:33	BRF
m&p-Xylene	0.38	0.40	0.11	J	1.6	1.7	0.48	4	2/1/22 7:33	BRF
o-Xylene	0.18	0.20	0.054	J	0.80	0.87	0.23	4	2/1/22 7:33	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	90.4	70-130	2/1/22 7:33

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ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/21/2022
Field Sample #: 22A121-IA-116
Sample ID: 22A1209-09
 Sample Matrix: Indoor air
 Sampled: 1/19/2022 14:11

Sample Description/Location: H-116
 Sub Description/Location:
 Canister ID: 1165
 Canister Size: 6 liter
 Flow Controller ID: 3649
 Sample Type: 24 hr

Work Order: 22A1209
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -9.3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	10	1.4	0.84		25	3.3	2.0	0.698	1/31/22 18:02	BRF
Benzene	0.33	0.035	0.0084		1.0	0.11	0.027	0.698	1/31/22 18:02	BRF
Benzyl chloride	ND	0.035	0.016		ND UJ	0.18	0.081	0.698	1/31/22 18:02	BRF
Bromodichloromethane	ND	0.035	0.013		ND	0.23	0.085	0.698	1/31/22 18:02	BRF
Bromoform	ND	0.035	0.013		ND	0.36	0.13	0.698	1/31/22 18:02	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	1/31/22 18:02	BRF
1,3-Butadiene	ND	0.035	0.024		ND	0.077	0.054	0.698	1/31/22 18:02	BRF
2-Butanone (MEK)	0.52	1.4	0.12	J	1.5	4.1	0.34	0.698	1/31/22 18:02	BRF
Carbon Disulfide	ND	0.35	0.089		ND	1.1	0.28	0.698	1/31/22 18:02	BRF
Carbon Tetrachloride	0.084	0.035	0.011		0.53	0.22	0.066	0.698	1/31/22 18:02	BRF
Chlorobenzene	ND	0.035	0.010		ND	0.16	0.048	0.698	1/31/22 18:02	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	1/31/22 18:02	BRF
Chloroform	0.19	0.035	0.0084		0.92	0.17	0.041	0.698	1/31/22 18:02	BRF
Chloromethane	0.51	0.070	0.014		1.1	0.14	0.030	0.698	1/31/22 18:02	BRF
Cyclohexane	0.16	0.035	0.023		0.55	0.12	0.079	0.698	1/31/22 18:02	BRF
Dibromochloromethane	ND	0.035	0.012		ND	0.30	0.100	0.698	1/31/22 18:02	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.0098		ND	0.27	0.075	0.698	1/31/22 18:02	BRF
1,2-Dichlorobenzene	ND	0.035	0.013		ND	0.21	0.078	0.698	1/31/22 18:02	BRF
1,3-Dichlorobenzene	ND	0.035	0.0084		ND	0.21	0.051	0.698	1/31/22 18:02	BRF
1,4-Dichlorobenzene	ND	0.035	0.014		ND	0.21	0.085	0.698	1/31/22 18:02	BRF
Dichlorodifluoromethane (Freon 12)	0.45	0.035	0.011		2.2	0.17	0.053	0.698	1/31/22 18:02	BRF
1,1-Dichloroethane	ND	0.035	0.012		ND	0.14	0.047	0.698	1/31/22 18:02	BRF
1,2-Dichloroethane	0.068	0.035	0.013		0.28	0.14	0.052	0.698	1/31/22 18:02	BRF
1,1-Dichloroethylene	ND	0.035	0.014		ND	0.14	0.054	0.698	1/31/22 18:02	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.047	0.698	1/31/22 18:02	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.048	0.698	1/31/22 18:02	BRF
1,2-Dichloropropane	ND	0.035	0.013		ND	0.16	0.058	0.698	1/31/22 18:02	BRF
cis-1,3-Dichloropropene	ND	0.035	0.016		ND	0.16	0.073	0.698	1/31/22 18:02	BRF
trans-1,3-Dichloropropene	ND	0.035	0.011		ND	0.16	0.049	0.698	1/31/22 18:02	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.017	0.035	0.012	J	0.12	0.24	0.084	0.698	1/31/22 18:02	BRF
1,4-Dioxane	ND	0.35	0.024		ND	1.3	0.085	0.698	1/31/22 18:02	BRF
Ethanol	140	20	6.1		260	38	11	10	1/31/22 18:27	BRF
Ethyl Acetate	0.71	0.35	0.21	L-03, V-34	2.6 J	1.3	0.75	0.698	1/31/22 18:02	BRF
Ethylbenzene	0.10	0.035	0.0090		0.45	0.15	0.039	0.698	1/31/22 18:02	BRF
4-Ethyltoluene	0.038	0.035	0.011		0.19	0.17	0.053	0.698	1/31/22 18:02	BRF
Heptane	0.25	0.035	0.014		1.0	0.14	0.059	0.698	1/31/22 18:02	BRF
Hexachlorobutadiene	ND	0.035	0.019	L-03	ND UJ	0.37	0.21	0.698	1/31/22 18:02	BRF
Hexane	0.31	1.4	0.11	J	1.1	4.9	0.40	0.698	1/31/22 18:02	BRF
2-Hexanone (MBK)	ND	0.070	0.018		ND UJ	0.29	0.072	0.698	1/31/22 18:02	BRF
Isopropanol	5.0	1.4	0.32		12	3.4	0.79	0.698	1/31/22 18:02	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.014		ND	0.13	0.050	0.698	1/31/22 18:02	BRF
Methylene Chloride	0.44	0.35	0.080		1.5	1.2	0.28	0.698	1/31/22 18:02	BRF
4-Methyl-2-pentanone (MIBK)	0.061	0.035	0.018	V-06	0.25 J	0.14	0.073	0.698	1/31/22 18:02	BRF
Naphthalene	0.038	0.035	0.022		0.20	0.18	0.12	0.698	1/31/22 18:02	BRF
Propene	ND	1.4	0.12		ND	2.4	0.20	0.698	1/31/22 18:02	BRF
Styrene	0.098	0.035	0.011		0.42	0.15	0.047	0.698	1/31/22 18:02	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.011		ND	0.24	0.073	0.698	1/31/22 18:02	BRF

ALH 2/17/2022

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/21/2022
Field Sample #: 22A1209-09
Sample ID: 22A1209-09
 Sample Matrix: Indoor air
 Sampled: 1/19/2022 14:11

Sample Description/Location: H-116
 Sub Description/Location:
 Canister ID: 1165
 Canister Size: 6 liter
 Flow Controller ID: 3649
 Sample Type: 24 hr

Work Order: 22A1209
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -9.3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	0.057	0.035	0.010		0.38	0.24	0.070	0.698	1/31/22 18:02		BRF
Tetrahydrofuran	ND	0.35	0.086		ND	1.0	0.25	0.698	1/31/22 18:02		BRF
Toluene	1.6	0.035	0.015		6.0	0.13	0.055	0.698	1/31/22 18:02		BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024	L-03, V-04	ND	0.52	0.18	0.698	1/31/22 18:02		BRF
1,1,1-Trichloroethane	ND	0.035	0.016		ND	0.19	0.088	0.698	1/31/22 18:02		BRF
1,1,2-Trichloroethane	ND	0.035	0.014		ND	0.19	0.076	0.698	1/31/22 18:02		BRF
Trichloroethylene	0.017	0.035	0.013	J	0.094	0.19	0.069	0.698	1/31/22 18:02		BRF
Trichlorofluoromethane (Freon 11)	0.23	0.14	0.014		1.3	0.78	0.078	0.698	1/31/22 18:02		BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.076	0.14	0.012	J	0.58	1.1	0.095	0.698	1/31/22 18:02		BRF
1,2,4-Trimethylbenzene	0.14	0.035	0.010		0.67	0.17	0.051	0.698	1/31/22 18:02		BRF
1,3,5-Trimethylbenzene	0.047	0.035	0.0096		0.23	0.17	0.047	0.698	1/31/22 18:02		BRF
Vinyl Acetate	ND	0.70	0.065		ND	2.5	0.23	0.698	1/31/22 18:02		BRF
Vinyl Chloride	ND	0.035	0.014		ND	0.089	0.035	0.698	1/31/22 18:02		BRF
m&p-Xylene	0.33	0.070	0.019		1.4	0.30	0.084	0.698	1/31/22 18:02		BRF
o-Xylene	0.13	0.035	0.0093		0.56	0.15	0.041	0.698	1/31/22 18:02		BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	85.5	70-130	1/31/22 18:27
4-Bromofluorobenzene (1)	90.8	70-130	1/31/22 18:02

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ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/21/2022
Field Sample #: 224121-SS-117
Sample ID: 22A1209-10
 Sample Matrix: Sub Slab
 Sampled: 1/19/2022 15:53

Sample Description/Location: H-117
 Sub Description/Location:
 Canister ID: 1301
 Canister Size: 6 liter
 Flow Controller ID: 3411
 Sample Type: 24 hr

Work Order: 22A1209
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -9.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	ND	8.0	4.8		ND	19	11	4	1/31/22 23:09	BRF	
Benzene	0.23	0.20	0.048		0.73	0.64	0.15	4	1/31/22 23:09	BRF	
Benzyl chloride	ND	0.20	0.090		ND	UJ	1.0	0.47	4	1/31/22 23:09	BRF
Bromodichloromethane	ND	0.20	0.073		ND		1.3	0.49	4	1/31/22 23:09	BRF
Bromoform	ND	0.20	0.072		ND		2.1	0.74	4	1/31/22 23:09	BRF
Bromomethane	ND	0.20	0.16		ND		0.78	0.63	4	1/31/22 23:09	BRF
1,3-Butadiene	ND	0.20	0.14		ND		0.44	0.31	4	1/31/22 23:09	BRF
2-Butanone (MEK)	ND	8.0	0.66		ND		24	2.0	4	1/31/22 23:09	BRF
Carbon Disulfide	ND	2.0	0.51		ND		6.2	1.6	4	1/31/22 23:09	BRF
Carbon Tetrachloride	ND	0.20	0.060		ND		1.3	0.38	4	1/31/22 23:09	BRF
Chlorobenzene	ND	0.20	0.060		ND		0.92	0.27	4	1/31/22 23:09	BRF
Chloroethane	ND	0.20	0.15		ND		0.53	0.39	4	1/31/22 23:09	BRF
Chloroform	12	0.20	0.048		59		0.98	0.24	4	1/31/22 23:09	BRF
Chloromethane	ND	0.40	0.082		ND		0.83	0.17	4	1/31/22 23:09	BRF
Cyclohexane	ND	0.20	0.13		ND		0.69	0.46	4	1/31/22 23:09	BRF
Dibromochloromethane	ND	0.20	0.067		ND		1.7	0.57	4	1/31/22 23:09	BRF
1,2-Dibromoethane (EDB)	ND	0.20	0.056		ND		1.5	0.43	4	1/31/22 23:09	BRF
1,2-Dichlorobenzene	ND	0.20	0.074		ND		1.2	0.44	4	1/31/22 23:09	BRF
1,3-Dichlorobenzene	ND	0.20	0.048		ND		1.2	0.29	4	1/31/22 23:09	BRF
1,4-Dichlorobenzene	ND	0.20	0.081		ND		1.2	0.49	4	1/31/22 23:09	BRF
Dichlorodifluoromethane (Freon 12)	0.51	0.20	0.061		2.5		0.99	0.30	4	1/31/22 23:09	BRF
1,1-Dichloroethane	ND	0.20	0.067		ND		0.81	0.27	4	1/31/22 23:09	BRF
1,2-Dichloroethane	ND	0.20	0.073		ND		0.81	0.30	4	1/31/22 23:09	BRF
1,1-Dichloroethylene	ND	0.20	0.079		ND		0.79	0.31	4	1/31/22 23:09	BRF
cis-1,2-Dichloroethylene	ND	0.20	0.068		ND		0.79	0.27	4	1/31/22 23:09	BRF
trans-1,2-Dichloroethylene	ND	0.20	0.070		ND		0.79	0.28	4	1/31/22 23:09	BRF
1,2-Dichloropropane	ND	0.20	0.072		ND		0.92	0.33	4	1/31/22 23:09	BRF
cis-1,3-Dichloropropene	ND	0.20	0.093		ND		0.91	0.42	4	1/31/22 23:09	BRF
trans-1,3-Dichloropropene	ND	0.20	0.062		ND		0.91	0.28	4	1/31/22 23:09	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.20	0.069		ND		1.4	0.48	4	1/31/22 23:09	BRF
1,4-Dioxane	ND	2.0	0.14		ND		7.2	0.49	4	1/31/22 23:09	BRF
Ethanol	6.3	8.0	2.4	J	12		15	4.6	4	1/31/22 23:09	BRF
Ethyl Acetate	ND	2.0	1.2	L-03, V-34	ND	UJ	7.2	4.3	4	1/31/22 23:09	BRF
Ethylbenzene	ND	0.20	0.052		ND		0.87	0.22	4	1/31/22 23:09	BRF
4-Ethyltoluene	ND	0.20	0.062		ND		0.98	0.30	4	1/31/22 23:09	BRF
Heptane	ND	0.20	0.082		ND		0.82	0.34	4	1/31/22 23:09	BRF
Hexachlorobutadiene	ND	0.20	0.11	L-03	ND	UJ	2.1	1.2	4	1/31/22 23:09	BRF
Hexane	ND	8.0	0.66		ND		28	2.3	4	1/31/22 23:09	BRF
2-Hexanone (MBK)	ND	0.40	0.10		ND	UJ	1.6	0.41	4	1/31/22 23:09	BRF
Isopropanol	ND	8.0	1.8		ND		20	4.5	4	1/31/22 23:09	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.20	0.080		ND		0.72	0.29	4	1/31/22 23:09	BRF
Methylene Chloride	ND	2.0	0.46		ND		6.9	1.6	4	1/31/22 23:09	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.20	0.10		ND	UJ	0.82	0.42	4	1/31/22 23:09	BRF
Naphthalene	ND	0.20	0.13		ND		1.0	0.66	4	1/31/22 23:09	BRF
Propene	ND	8.0	0.67		ND		14	1.2	4	1/31/22 23:09	BRF
Styrene	ND	0.20	0.063		ND		0.85	0.27	4	1/31/22 23:09	BRF
1,1,2,2-Tetrachloroethane	ND	0.20	0.061		ND		1.4	0.42	4	1/31/22 23:09	BRF

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ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/21/2022
Field Sample #: 22A1209-117
Sample ID: 22A1209-10
 Sample Matrix: Sub Slab
 Sampled: 1/19/2022 15:53

Sample Description/Location: H-117
 Sub Description/Location:
 Canister ID: 1301
 Canister Size: 6 liter
 Flow Controller ID: 3411
 Sample Type: 24 hr

Work Order: 22A1209
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -9.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	0.46	0.20	0.059	L-03, V-04	3.1	1.4	0.40	4	1/31/22 23:09	BRF
Tetrahydrofuran	ND	2.0	0.49		ND	5.9	1.5	4	1/31/22 23:09	BRF
Toluene	0.35	0.20	0.084		1.3	0.75	0.32	4	1/31/22 23:09	BRF
1,2,4-Trichlorobenzene	ND	0.40	0.14		ND UJ	3.0	1.0	4	1/31/22 23:09	BRF
1,1,1-Trichloroethane	ND	0.20	0.092		ND	1.1	0.50	4	1/31/22 23:09	BRF
1,1,2-Trichloroethane	ND	0.20	0.080		ND	1.1	0.43	4	1/31/22 23:09	BRF
Trichloroethylene	0.076	0.20	0.074	J	0.41	1.1	0.40	4	1/31/22 23:09	BRF
Trichlorofluoromethane (Freon 11)	0.24	0.80	0.080	J	1.4	4.5	0.45	4	1/31/22 23:09	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.076	0.80	0.071	J	0.58	6.1	0.54	4	1/31/22 23:09	BRF
1,2,4-Trimethylbenzene	ND	0.20	0.059		ND	0.98	0.29	4	1/31/22 23:09	BRF
1,3,5-Trimethylbenzene	ND	0.20	0.055		ND	0.98	0.27	4	1/31/22 23:09	BRF
Vinyl Acetate	ND	4.0	0.37		ND UJ	14	1.3	4	1/31/22 23:09	BRF
Vinyl Chloride	ND	0.20	0.079		ND	0.51	0.20	4	1/31/22 23:09	BRF
m&p-Xylene	ND	0.40	0.11		ND	1.7	0.48	4	1/31/22 23:09	BRF
o-Xylene	ND	0.20	0.054		ND	0.87	0.23	4	1/31/22 23:09	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	88.2	70-130	1/31/22 23:09

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ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/21/2022
Field Sample #: 22A121-IA-117
Sample ID: 22A1209-11
 Sample Matrix: Indoor air
 Sampled: 1/19/2022 16:02

Sample Description/Location: H-117
 Sub Description/Location:
 Canister ID: 1028
 Canister Size: 6 liter
 Flow Controller ID: 3344
 Sample Type: 24 hr

Work Order: 22A1209
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -6
 Receipt Vacuum(in Hg): -6.6
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	6.0	1.4	0.84		14	3.3	2.0	0.698	1/31/22 18:58	BRF
Benzene	0.52	0.035	0.0084		1.7	0.11	0.027	0.698	1/31/22 18:58	BRF
Benzyl chloride	ND	0.035	0.016		ND	UJ	0.18	0.081	1/31/22 18:58	BRF
Bromodichloromethane	ND	0.035	0.013		ND	0.23	0.085	0.698	1/31/22 18:58	BRF
Bromoform	ND	0.035	0.013		ND	0.36	0.13	0.698	1/31/22 18:58	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	1/31/22 18:58	BRF
1,3-Butadiene	0.27	0.035	0.024		0.60	0.077	0.054	0.698	1/31/22 18:58	BRF
2-Butanone (MEK)	0.54	1.4	0.12	J	1.6	4.1	0.34	0.698	1/31/22 18:58	BRF
Carbon Disulfide	ND	0.35	0.089		ND	1.1	0.28	0.698	1/31/22 18:58	BRF
Carbon Tetrachloride	0.082	0.035	0.011		0.52	0.22	0.066	0.698	1/31/22 18:58	BRF
Chlorobenzene	ND	0.035	0.010		ND	0.16	0.048	0.698	1/31/22 18:58	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	1/31/22 18:58	BRF
Chloroform	0.067	0.035	0.0084		0.33	0.17	0.041	0.698	1/31/22 18:58	BRF
Chloromethane	0.87	0.070	0.014		1.8	0.14	0.030	0.698	1/31/22 18:58	BRF
Cyclohexane	0.12	0.035	0.023		0.40	0.12	0.079	0.698	1/31/22 18:58	BRF
Dibromochloromethane	ND	0.035	0.012		ND	0.30	0.100	0.698	1/31/22 18:58	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.0098		ND	0.27	0.075	0.698	1/31/22 18:58	BRF
1,2-Dichlorobenzene	ND	0.035	0.013		ND	0.21	0.078	0.698	1/31/22 18:58	BRF
1,3-Dichlorobenzene	ND	0.035	0.0084		ND	0.21	0.051	0.698	1/31/22 18:58	BRF
1,4-Dichlorobenzene	0.035	0.035	0.014		0.21	0.21	0.085	0.698	1/31/22 18:58	BRF
Dichlorodifluoromethane (Freon 12)	0.44	0.035	0.011		2.2	0.17	0.053	0.698	1/31/22 18:58	BRF
1,1-Dichloroethane	ND	0.035	0.012		ND	0.14	0.047	0.698	1/31/22 18:58	BRF
1,2-Dichloroethane	0.051	0.035	0.013		0.21	0.14	0.052	0.698	1/31/22 18:58	BRF
1,1-Dichloroethylene	ND	0.035	0.014		ND	0.14	0.054	0.698	1/31/22 18:58	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.047	0.698	1/31/22 18:58	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.048	0.698	1/31/22 18:58	BRF
1,2-Dichloropropane	ND	0.035	0.013		ND	0.16	0.058	0.698	1/31/22 18:58	BRF
cis-1,3-Dichloropropene	ND	0.035	0.016		ND	0.16	0.073	0.698	1/31/22 18:58	BRF
trans-1,3-Dichloropropene	ND	0.035	0.011		ND	0.16	0.049	0.698	1/31/22 18:58	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.017	0.035	0.012	J	0.12	0.24	0.084	0.698	1/31/22 18:58	BRF
1,4-Dioxane	ND	0.35	0.024		ND	1.3	0.085	0.698	1/31/22 18:58	BRF
Ethanol	63	20	6.1		120	38	11	10	1/31/22 19:23	BRF
Ethyl Acetate	0.46	0.35	0.21	L-03, V-34	1.7	J	1.3	0.75	1/31/22 18:58	BRF
Ethylbenzene	0.15	0.035	0.0090		0.66	0.15	0.039	0.698	1/31/22 18:58	BRF
4-Ethyltoluene	0.041	0.035	0.011		0.20	0.17	0.053	0.698	1/31/22 18:58	BRF
Heptane	0.44	0.035	0.014		1.8	0.14	0.059	0.698	1/31/22 18:58	BRF
Hexachlorobutadiene	ND	0.035	0.019	L-03	ND	UJ	0.37	0.21	1/31/22 18:58	BRF
Hexane	0.28	1.4	0.11	J	1.00	4.9	0.40	0.698	1/31/22 18:58	BRF
2-Hexanone (MBK)	ND	0.070	0.018		ND	UJ	0.29	0.072	1/31/22 18:58	BRF
Isopropanol	1.5	1.4	0.32		3.7	3.4	0.79	0.698	1/31/22 18:58	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.014		ND	0.13	0.050	0.698	1/31/22 18:58	BRF
Methylene Chloride	0.54	0.35	0.080		1.9	1.2	0.28	0.698	1/31/22 18:58	BRF
4-Methyl-2-pentanone (MIBK)	0.071	0.035	0.018	V-06	0.29	J	0.14	0.073	1/31/22 18:58	BRF
Naphthalene	0.043	0.035	0.022		0.23	0.18	0.12	0.698	1/31/22 18:58	BRF
Propene	ND	1.4	0.12		ND	2.4	0.20	0.698	1/31/22 18:58	BRF
Styrene	0.080	0.035	0.011		0.34	0.15	0.047	0.698	1/31/22 18:58	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.011		ND	0.24	0.073	0.698	1/31/22 18:58	BRF

ALH 2/17/2022

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ANALYTICAL RESULTS

 Project Location: Meeker SVI
 Date Received: 1/21/2022
Field Sample #: 22A1209-11
Sample ID: 22A1209-11
 Sample Matrix: Indoor air
 Sampled: 1/19/2022 16:02

 Sample Description/Location: H-117
 Sub Description/Location:
 Canister ID: 1028
 Canister Size: 6 liter
 Flow Controller ID: 3344
 Sample Type: 24 hr

Work Order: 22A1209
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -6
 Receipt Vacuum(in Hg): -6.6
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	0.073	0.035	0.010	J	0.49	0.24	0.070	0.698	1/31/22 18:58	BRF	
Tetrahydrofuran	0.12	0.35	0.086		0.36	1.0	0.25	0.698	1/31/22 18:58	BRF	
Toluene	1.3	0.035	0.015		5.0	0.13	0.055	0.698	1/31/22 18:58	BRF	
1,2,4-Trichlorobenzene	ND	0.070	0.024		ND	0.52	0.18	0.698	1/31/22 18:58	BRF	
1,1,1-Trichloroethane	ND	0.035	0.016	L-03, V-04	ND	0.19	0.088	0.698	1/31/22 18:58	BRF	
1,1,2-Trichloroethane	ND	0.035	0.014		ND	0.19	0.076	0.698	1/31/22 18:58	BRF	
Trichloroethylene	0.040	0.035	0.013		0.21	0.19	0.069	0.698	1/31/22 18:58	BRF	
Trichlorofluoromethane (Freon 11)	0.23	0.14	0.014		1.3	0.78	0.078	0.698	1/31/22 18:58	BRF	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.11	0.14	0.012	J	0.85	1.1	0.095	0.698	1/31/22 18:58	BRF	
1,2,4-Trimethylbenzene	0.16	0.035	0.010		0.77	0.17	0.051	0.698	1/31/22 18:58	BRF	
1,3,5-Trimethylbenzene	0.048	0.035	0.0096		0.24	0.17	0.047	0.698	1/31/22 18:58	BRF	
Vinyl Acetate	ND	0.70	0.065		ND	2.5	0.23	0.698	1/31/22 18:58	BRF	
Vinyl Chloride	ND	0.035	0.014	J	ND	0.089	0.035	0.698	1/31/22 18:58	BRF	
m&p-Xylene	0.44	0.070	0.019		1.9	0.30	0.084	0.698	1/31/22 18:58	BRF	
o-Xylene	0.15	0.035	0.0093		0.63	0.15	0.041	0.698	1/31/22 18:58	BRF	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	85.8	70-130	1/31/22 19:23
4-Bromofluorobenzene (1)	90.3	70-130	1/31/22 18:58

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ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/21/2022
Field Sample #: 224121-OA-117
Sample ID: 22A1209-12
 Sample Matrix: Ambient Air
 Sampled: 1/19/2022 15:57

Sample Description/Location: H-117
 Sub Description/Location:
 Canister ID: 1137
 Canister Size: 6 liter
 Flow Controller ID: 3461
 Sample Type: 24 hr

Work Order: 22A1209
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -12
 Receipt Vacuum(in Hg): -10.5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	
Acetone	3.5	1.4	0.84		8.4	3.3	2.0	0.698	1/31/22 19:54	BRF
Benzene	0.29	0.035	0.0084		0.92	0.11	0.027	0.698	1/31/22 19:54	BRF
Benzyl chloride	ND	0.035	0.016		ND UJ	0.18	0.081	0.698	1/31/22 19:54	BRF
Bromodichloromethane	ND	0.035	0.013		ND	0.23	0.085	0.698	1/31/22 19:54	BRF
Bromoform	ND	0.035	0.013		ND	0.36	0.13	0.698	1/31/22 19:54	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	1/31/22 19:54	BRF
1,3-Butadiene	ND	0.035	0.024		ND	0.077	0.054	0.698	1/31/22 19:54	BRF
2-Butanone (MEK)	0.40	1.4	0.12	J	1.2	4.1	0.34	0.698	1/31/22 19:54	BRF
Carbon Disulfide	ND	0.35	0.089		ND	1.1	0.28	0.698	1/31/22 19:54	BRF
Carbon Tetrachloride	0.075	0.035	0.011		0.47	0.22	0.066	0.698	1/31/22 19:54	BRF
Chlorobenzene	ND	0.035	0.010		ND	0.16	0.048	0.698	1/31/22 19:54	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	1/31/22 19:54	BRF
Chloroform	0.029	0.035	0.0084	J	0.14	0.17	0.041	0.698	1/31/22 19:54	BRF
Chloromethane	0.53	0.070	0.014		1.1	0.14	0.030	0.698	1/31/22 19:54	BRF
Cyclohexane	0.11	0.035	0.023		0.39	0.12	0.079	0.698	1/31/22 19:54	BRF
Dibromochloromethane	ND	0.035	0.012		ND	0.30	0.100	0.698	1/31/22 19:54	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.0098		ND	0.27	0.075	0.698	1/31/22 19:54	BRF
1,2-Dichlorobenzene	ND	0.035	0.013		ND	0.21	0.078	0.698	1/31/22 19:54	BRF
1,3-Dichlorobenzene	ND	0.035	0.0084		ND	0.21	0.051	0.698	1/31/22 19:54	BRF
1,4-Dichlorobenzene	ND	0.035	0.014		ND	0.21	0.085	0.698	1/31/22 19:54	BRF
Dichlorodifluoromethane (Freon 12)	0.45	0.035	0.011		2.2	0.17	0.053	0.698	1/31/22 19:54	BRF
1,1-Dichloroethane	ND	0.035	0.012		ND	0.14	0.047	0.698	1/31/22 19:54	BRF
1,2-Dichloroethane	0.018	0.035	0.013	J	0.073	0.14	0.052	0.698	1/31/22 19:54	BRF
1,1-Dichloroethylene	ND	0.035	0.014		ND	0.14	0.054	0.698	1/31/22 19:54	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.047	0.698	1/31/22 19:54	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.048	0.698	1/31/22 19:54	BRF
1,2-Dichloropropane	ND	0.035	0.013		ND	0.16	0.058	0.698	1/31/22 19:54	BRF
cis-1,3-Dichloropropene	ND	0.035	0.016		ND	0.16	0.073	0.698	1/31/22 19:54	BRF
trans-1,3-Dichloropropene	ND	0.035	0.011		ND	0.16	0.049	0.698	1/31/22 19:54	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.015	0.035	0.012	J	0.10	0.24	0.084	0.698	1/31/22 19:54	BRF
1,4-Dioxane	ND	0.35	0.024		ND	1.3	0.085	0.698	1/31/22 19:54	BRF
Ethanol	15	1.4	0.42		28	2.6	0.80	0.698	1/31/22 19:54	BRF
Ethyl Acetate	0.39	0.35	0.21	L-03, V-34	1.4 J	1.3	0.75	0.698	1/31/22 19:54	BRF
Ethylbenzene	0.13	0.035	0.0090		0.56	0.15	0.039	0.698	1/31/22 19:54	BRF
4-Ethyltoluene	0.026	0.035	0.011	J	0.13	0.17	0.053	0.698	1/31/22 19:54	BRF
Heptane	0.16	0.035	0.014		0.67	0.14	0.059	0.698	1/31/22 19:54	BRF
Hexachlorobutadiene	ND	0.035	0.019	L-03	ND UJ	0.37	0.21	0.698	1/31/22 19:54	BRF
Hexane	0.34	1.4	0.11	J	1.2	4.9	0.40	0.698	1/31/22 19:54	BRF
2-Hexanone (MBK)	ND	0.070	0.018		ND UJ	0.29	0.072	0.698	1/31/22 19:54	BRF
Isopropanol	1.2	1.4	0.32	J	3.0	3.4	0.79	0.698	1/31/22 19:54	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.014		ND	0.13	0.050	0.698	1/31/22 19:54	BRF
Methylene Chloride	0.76	0.35	0.080		2.6	1.2	0.28	0.698	1/31/22 19:54	BRF
4-Methyl-2-pentanone (MIBK)	0.081	0.035	0.018	V-06	0.33 J	0.14	0.073	0.698	1/31/22 19:54	BRF
Naphthalene	ND	0.035	0.022		ND	0.18	0.12	0.698	1/31/22 19:54	BRF
Propene	ND	1.4	0.12		ND	2.4	0.20	0.698	1/31/22 19:54	BRF
Styrene	0.016	0.035	0.011	J	0.068	0.15	0.047	0.698	1/31/22 19:54	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.011		ND	0.24	0.073	0.698	1/31/22 19:54	BRF

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ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/21/2022
Field Sample #: 22A1209-117
Sample ID: 22A1209-12
 Sample Matrix: Ambient Air
 Sampled: 1/19/2022 15:57

Sample Description/Location: H-117
 Sub Description/Location:
 Canister ID: 1137
 Canister Size: 6 liter
 Flow Controller ID: 3461
 Sample Type: 24 hr

Work Order: 22A1209
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -12
 Receipt Vacuum(in Hg): -10.5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time			
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	Analyst	
Tetrachloroethylene	0.025	0.035	0.010	J	0.17	0.24	0.070	0.698	1/31/22 19:54	BRF	
Tetrahydrofuran	ND	0.35	0.086		ND	1.0	0.25	0.698	1/31/22 19:54	BRF	
Toluene	0.83	0.035	0.015		3.1	0.13	0.055	0.698	1/31/22 19:54	BRF	
1,2,4-Trichlorobenzene	ND	0.070	0.024	V-04, L-03	ND UJ	0.52	0.18	0.698	1/31/22 19:54	BRF	
1,1,1-Trichloroethane	ND	0.035	0.016		ND	0.19	0.088	0.698	1/31/22 19:54	BRF	
1,1,2-Trichloroethane	ND	0.035	0.014		ND	0.19	0.076	0.698	1/31/22 19:54	BRF	
Trichloroethylene	ND	0.035	0.013		ND	0.19	0.069	0.698	1/31/22 19:54	BRF	
Trichlorofluoromethane (Freon 11)	0.24	0.14	0.014		1.4	0.78	0.078	0.698	1/31/22 19:54	BRF	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.073	0.14	0.012	J	0.56	1.1	0.095	0.698	1/31/22 19:54	BRF	
1,2,4-Trimethylbenzene	0.073	0.035	0.010		0.36	0.17	0.051	0.698	1/31/22 19:54	BRF	
1,3,5-Trimethylbenzene	0.026	0.035	0.0096	J	0.13	0.17	0.047	0.698	1/31/22 19:54	BRF	
Vinyl Acetate	ND	0.70	0.065		ND UJ	2.5	0.23	0.698	1/31/22 19:54	BRF	
Vinyl Chloride	ND	0.035	0.014		ND	0.089	0.035	0.698	1/31/22 19:54	BRF	
m&p-Xylene	0.44	0.070	0.019		1.9	0.30	0.084	0.698	1/31/22 19:54	BRF	
o-Xylene	0.13	0.035	0.0093		0.55	0.15	0.041	0.698	1/31/22 19:54	BRF	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	91.3	70-130	1/31/22 19:54

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VALIDATA

Chemical Services, Inc.

2159 Wynnton Pointe, Duluth, GA 30097

(770) 232-0130

(770) 232-5082 (Fax)

www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY: AECOM Technical Services Northeast, Inc.
PROJECT NAME: Meeker Ave. SVI
CONTRACTED LAB: con-test Analytical Laboratory
QA/QC LEVEL: DUSR
ANALYTICAL METHOD(S): EPA Method TO-15
VALIDATION GUIDELINES: USEPA Region II data validation SOP ((VOA-TO15 HW-31 Rev.6, Analysis of VOCs in Air contained in Canisters by Method TO-15, September 2016), Professional Judgment

SAMPLE MATRIX: Air
TYPES OF ANALYSES: Volatile Organic Compounds (VOC)
DATA REVIEWER(S): Amy L. Hogan
SDG NUMBER: 22A1521
SAMPLING DATE(S): January 25, 2022

SAMPLES:

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>VOC</u>
224121-SS-40-09	22A1521-01	X
224121-IA-40-09	22A1521-02	X
224121-IA-40-09DL	22A1521-02DL	X
224121-OA-40-09	22A1521-03	X
224121-SS-57	22A1521-04	X
224121-IA-57	22A1521-05	X
224121-IA-57DL	22A1521-05DL	X
224121-SS-11	22A1521-06	X
224121-IA-11	22A1521-07	X
224121-IA-11DL	22A1521-07DL	X
224121-OA-11	22A1521-08	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Con-test Analytical Laboratory – 22A1521

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per EPA Method TO-15.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The Percent Relative Standard Deviation (%RSD) for the standards analyzed on 8/20/21 on instrument SYSJ was 39.6% for 1,2,4-trichlorobenzene, which exceeded the 30% QC limit. The results for this compound in the SDG samples, which consisted entirely of non-detects, were qualified as estimated (UJ).

Initial Calibration Verification:

The Percent Differences (%Ds) for the standards run on 8/21/21 at 02:04 on instrument SYSJ exceeded the 30% QC limit for the following compounds:

Vinyl acetate	-32.9%
Ethyl acetate	34.7%

All positive and non-detect results for these compounds in the SDG samples were qualified as

estimated (J) and (UJ).

Continuing Calibration:

The Percent Differences (%Ds) for the standards run on 2/7/22 at 12:02 on instrument SYSJ exceeded the 30% QC limit for the following compounds:

hexachlorobutadiene	-33.6%
2-hexanone	42.0%
1,2,4-trichlorobenzene	-31.9%
Vinyl acetate	-39.0%

All positive and non-detect results for these compounds in the initial analyses of the SDG samples were qualified as estimated (J) and (UJ).

The Percent Differences (%Ds) for the standards run on 2/8/22 at 09:11 on instrument SYSJ exceeded the 30% QC limit for the following compounds:

Hexachlorobutadiene	-32.0%
2-hexanone	39.5%
4-methyl-2-pentanone	31.3%
Vinyl acetate	-40.7%

Since the listed compounds were not target compounds for the dilution analyses of samples 224121-IA-40-09, 224121-IA-57 and 224121-IA-11, no data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Canister Blanks:

There were no detects in the canister check blanks for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

Two LCS were analyzed by the laboratory for this SDG. The Percent Recoveries (%Rs) for LCS B300685-BS1 were outside the 70-130% QC limits for the following compounds:

Ethyl acetate	60.2%
Hexachlorobutadiene	57.3%
2-hexanone	143%
1,2,4-trichlorobenzene	61.1%

The positive results for 2-hexanone for the SDG samples were qualified as estimated (J) and the positive and non-detect results for the other listed compound for the SDG samples were qualified as estimated (J) and (UJ).

The Percent Recoveries (%Rs) for LCS B300795-BS1 were outside the 70-130% QC limits for the following compounds:

Ethyl acetate	65.5%
Hexachlorobutadiene	61.3%
2-hexanone	144%
4-methyl-2-pentanone	132%
1,2,4-trichlorobenzene	62.3%

Since the listed compounds were not target compounds for the dilution analyses of samples 224121-IA-40-09, 224121-IA-57 and 224121-IA-11, no data qualification was necessary.

IX.) Matrix Duplicate:

Matrix Duplicate analysis data was not submitted for this SDG. Data qualification based on the absence of MD data was not required. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

The initial analysis ethanol results for sample 224121-IA-40-09, 224121-IA-57 and 224121-IA-11 exceeded the linear calibration range. A dilution analysis was performed for each of the listed samples with all calibration criteria met. Since the Form I for each sample was a composite of the results, no data qualification was necessary.

All other CRQL criteria were met.

Appendix A

Qualified Form Is

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ANALYTICAL RESULTS

Project Location: Meeker SVI

Date Received: 1/27/2022

Field Sample #: 224121-SS-40-09

Sample ID: 22A1521-01

Sample Matrix: Sub Slab

Sampled: 1/25/2022 08:21

Sample Description/Location: H-40-09

Sub Description/Location:

Canister ID: 1974

Canister Size: 6 liter

Flow Controller ID: 3254

Sample Type: 24 hr

Work Order: 22A1521

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -11

Receipt Vacuum(in Hg): -10.1

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	58	4.0	2.4		140	9.5	5.7	2	2/8/22	2:28	BRF
Benzene	ND	0.10	0.024		ND	0.32	0.077	2	2/8/22	2:28	BRF
Benzyl chloride	ND	0.10	0.045		ND	0.52	0.23	2	2/8/22	2:28	BRF
Bromodichloromethane	ND	0.10	0.036		ND	0.67	0.24	2	2/8/22	2:28	BRF
Bromoform	ND	0.10	0.036		ND	1.0	0.37	2	2/8/22	2:28	BRF
Bromomethane	ND	0.10	0.082		ND	0.39	0.32	2	2/8/22	2:28	BRF
1,3-Butadiene	ND	0.10	0.070		ND	0.22	0.15	2	2/8/22	2:28	BRF
2-Butanone (MEK)	6.3	4.0	0.33		19	12	0.98	2	2/8/22	2:28	BRF
Carbon Disulfide	7.2	1.0	0.25		22	3.1	0.79	2	2/8/22	2:28	BRF
Carbon Tetrachloride	0.048	0.10	0.030	J	0.30	0.63	0.19	2	2/8/22	2:28	BRF
Chlorobenzene	ND	0.10	0.030		ND	0.46	0.14	2	2/8/22	2:28	BRF
Chloroethane	16	0.10	0.073		43	0.26	0.19	2	2/8/22	2:28	BRF
Chloroform	0.65	0.10	0.024		3.2	0.49	0.12	2	2/8/22	2:28	BRF
Chloromethane	ND	0.20	0.041		ND	0.41	0.085	2	2/8/22	2:28	BRF
Cyclohexane	ND	0.10	0.066		ND	0.34	0.23	2	2/8/22	2:28	BRF
Dibromochloromethane	ND	0.10	0.034		ND	0.85	0.29	2	2/8/22	2:28	BRF
1,2-Dibromoethane (EDB)	ND	0.10	0.028		ND	0.77	0.22	2	2/8/22	2:28	BRF
1,2-Dichlorobenzene	ND	0.10	0.037		ND	0.60	0.22	2	2/8/22	2:28	BRF
1,3-Dichlorobenzene	ND	0.10	0.024		ND	0.60	0.15	2	2/8/22	2:28	BRF
1,4-Dichlorobenzene	ND	0.10	0.041		ND	0.60	0.24	2	2/8/22	2:28	BRF
Dichlorodifluoromethane (Freon 12)	1.8	0.10	0.031		8.9	0.49	0.15	2	2/8/22	2:28	BRF
1,1-Dichloroethane	1.0	0.10	0.034		4.1	0.40	0.14	2	2/8/22	2:28	BRF
1,2-Dichloroethane	0.79	0.10	0.037		3.2	0.40	0.15	2	2/8/22	2:28	BRF
1,1-Dichloroethylene	ND	0.10	0.039		ND	0.40	0.16	2	2/8/22	2:28	BRF
cis-1,2-Dichloroethylene	ND	0.10	0.034		ND	0.40	0.13	2	2/8/22	2:28	BRF
trans-1,2-Dichloroethylene	ND	0.10	0.035		ND	0.40	0.14	2	2/8/22	2:28	BRF
1,2-Dichloropropane	ND	0.10	0.036		ND	0.46	0.17	2	2/8/22	2:28	BRF
cis-1,3-Dichloropropene	ND	0.10	0.046		ND	0.45	0.21	2	2/8/22	2:28	BRF
trans-1,3-Dichloropropene	ND	0.10	0.031		ND	0.45	0.14	2	2/8/22	2:28	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.035		ND	0.70	0.24	2	2/8/22	2:28	BRF
1,4-Dioxane	ND	1.0	0.068		ND	3.6	0.24	2	2/8/22	2:28	BRF
Ethanol	58	4.0	1.2		110	7.5	2.3	2	2/8/22	2:28	BRF
Ethyl Acetate	ND	1.0	0.59	L-03, V-34	ND UJ	3.6	2.1	2	2/8/22	2:28	BRF
Ethylbenzene	ND	0.10	0.026		ND	0.43	0.11	2	2/8/22	2:28	BRF
4-Ethyltoluene	ND	0.10	0.031		ND	0.49	0.15	2	2/8/22	2:28	BRF
Heptane	0.62	0.10	0.041		2.5	0.41	0.17	2	2/8/22	2:28	BRF
Hexachlorobutadiene	ND	0.10	0.056	V-05, L-03	ND UJ	1.1	0.59	2	2/8/22	2:28	BRF
Hexane	1.4	4.0	0.33	J	4.9	14	1.2	2	2/8/22	2:28	BRF
2-Hexanone (MBK)	ND	0.20	0.050		ND UJ	0.82	0.21	2	2/8/22	2:28	BRF
Isopropanol	2.7	4.0	0.92	J	6.6	9.8	2.3	2	2/8/22	2:28	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.040		ND	0.36	0.14	2	2/8/22	2:28	BRF
Methylene Chloride	0.31	1.0	0.23	J	1.1	3.5	0.80	2	2/8/22	2:28	BRF
4-Methyl-2-pentanone (MIBK)	1.6	0.10	0.051		6.6	0.41	0.21	2	2/8/22	2:28	BRF
Naphthalene	0.57	0.10	0.063		3.0	0.52	0.33	2	2/8/22	2:28	BRF
Propene	ND	4.0	0.33		ND	6.9	0.58	2	2/8/22	2:28	BRF
Styrene	ND	0.10	0.032		ND	0.43	0.13	2	2/8/22	2:28	BRF
1,1,2,2-Tetrachloroethane	ND	0.10	0.031		ND	0.69	0.21	2	2/8/22	2:28	BRF

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ANALYTICAL RESULTS

Project Location: Meeker SVI

Date Received: 1/27/2022

Field Sample #: 22A1521-SS-40-09

Sample ID: 22A1521-01

Sample Matrix: Sub Slab

Sampled: 1/25/2022 08:21

Sample Description/Location: H-40-09

Sub Description/Location:

Canister ID: 1974

Canister Size: 6 liter

Flow Controller ID: 3254

Sample Type: 24 hr

Work Order: 22A1521

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -11

Receipt Vacuum(in Hg): -10.1

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	41	0.10	0.030		280	0.68	0.20	2	2/8/22	2:28	BRF
Tetrahydrofuran	ND	1.0	0.25		ND	2.9	0.73	2	2/8/22	2:28	BRF
Toluene	2.2	0.10	0.042		8.5	0.38	0.16	2	2/8/22	2:28	BRF
1,2,4-Trichlorobenzene	ND	0.20	0.070	V-04, V-05, L-03	ND UJ	1.5	0.52	2	2/8/22	2:28	BRF
1,1,1-Trichloroethane	1.5	0.10	0.046		8.3	0.55	0.25	2	2/8/22	2:28	BRF
1,1,2-Trichloroethane	ND	0.10	0.040		ND	0.55	0.22	2	2/8/22	2:28	BRF
Trichloroethylene	0.70	0.10	0.037		3.8	0.54	0.20	2	2/8/22	2:28	BRF
Trichlorofluoromethane (Freon 11)	0.33	0.40	0.040	J	1.8	2.2	0.22	2	2/8/22	2:28	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.072	0.40	0.035	J	0.55	3.1	0.27	2	2/8/22	2:28	BRF
1,2,4-Trimethylbenzene	0.19	0.10	0.030		0.95	0.49	0.15	2	2/8/22	2:28	BRF
1,3,5-Trimethylbenzene	0.082	0.10	0.027	J	0.40	0.49	0.13	2	2/8/22	2:28	BRF
Vinyl Acetate	ND	2.0	0.19	V-05	ND UJ	7.0	0.66	2	2/8/22	2:28	BRF
Vinyl Chloride	1.8	0.10	0.040		4.6	0.26	0.10	2	2/8/22	2:28	BRF
m&p-Xylene	ND	0.20	0.055		ND	0.87	0.24	2	2/8/22	2:28	BRF
o-Xylene	ND	0.10	0.027		ND	0.43	0.12	2	2/8/22	2:28	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	88.8	70-130	2/8/22 2:28

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ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/27/2022
Field Sample #: 224121-IA-40-09
Sample ID: 22A1521-02
 Sample Matrix: Indoor air
 Sampled: 1/25/2022 08:22

Sample Description/Location: H-40-09
 Sub Description/Location:
 Canister ID: 1025
 Canister Size: 6 liter
 Flow Controller ID: 3489
 Sample Type: 24 hr

Work Order: 22A1521
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -9.1
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		Analyst	
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed			
Acetone	14	1.4	0.85			34	3.3	2.0	0.7	2/7/22 23:58	BRF	
Benzene	0.36	0.035	0.0084			1.1	0.11	0.027	0.7	2/7/22 23:58	BRF	
Benzyl chloride	ND	0.035	0.016			ND	0.18	0.082	0.7	2/7/22 23:58	BRF	
Bromodichloromethane	ND	0.035	0.013			ND	0.23	0.085	0.7	2/7/22 23:58	BRF	
Bromoform	ND	0.035	0.013			ND	0.36	0.13	0.7	2/7/22 23:58	BRF	
Bromomethane	ND	0.035	0.029			ND	0.14	0.11	0.7	2/7/22 23:58	BRF	
1,3-Butadiene	ND	0.035	0.024			ND	0.077	0.054	0.7	2/7/22 23:58	BRF	
2-Butanone (MEK)	0.72	1.4	0.12	J		2.1	4.1	0.34	0.7	2/7/22 23:58	BRF	
Carbon Disulfide	ND	0.35	0.089			ND	1.1	0.28	0.7	2/7/22 23:58	BRF	
Carbon Tetrachloride	0.060	0.035	0.011			0.37	0.22	0.066	0.7	2/7/22 23:58	BRF	
Chlorobenzene	ND	0.035	0.010			ND	0.16	0.048	0.7	2/7/22 23:58	BRF	
Chloroethane	ND	0.035	0.026			ND	0.092	0.067	0.7	2/7/22 23:58	BRF	
Chloroform	0.16	0.035	0.0085			0.80	0.17	0.041	0.7	2/7/22 23:58	BRF	
Chloromethane	0.58	0.070	0.014			1.2	0.14	0.030	0.7	2/7/22 23:58	BRF	
Cyclohexane	ND	0.035	0.023			ND	0.12	0.080	0.7	2/7/22 23:58	BRF	
Dibromochloromethane	ND	0.035	0.012			ND	0.30	0.10	0.7	2/7/22 23:58	BRF	
1,2-Dibromoethane (EDB)	ND	0.035	0.0098			ND	0.27	0.075	0.7	2/7/22 23:58	BRF	
1,2-Dichlorobenzene	ND	0.035	0.013			ND	0.21	0.078	0.7	2/7/22 23:58	BRF	
1,3-Dichlorobenzene	ND	0.035	0.0085			ND	0.21	0.051	0.7	2/7/22 23:58	BRF	
1,4-Dichlorobenzene	0.12	0.035	0.014			0.72	0.21	0.085	0.7	2/7/22 23:58	BRF	
Dichlorodifluoromethane (Freon 12)	0.40	0.035	0.011			2.0	0.17	0.053	0.7	2/7/22 23:58	BRF	
1,1-Dichloroethane	ND	0.035	0.012			ND	0.14	0.048	0.7	2/7/22 23:58	BRF	
1,2-Dichloroethane	0.19	0.035	0.013			0.77	0.14	0.052	0.7	2/7/22 23:58	BRF	
1,1-Dichloroethylene	ND	0.035	0.014			ND	0.14	0.055	0.7	2/7/22 23:58	BRF	
cis-1,2-Dichloroethylene	ND	0.035	0.012			ND	0.14	0.047	0.7	2/7/22 23:58	BRF	
trans-1,2-Dichloroethylene	ND	0.035	0.012			ND	0.14	0.049	0.7	2/7/22 23:58	BRF	
1,2-Dichloropropane	ND	0.035	0.013			ND	0.16	0.059	0.7	2/7/22 23:58	BRF	
cis-1,3-Dichloropropene	ND	0.035	0.016			ND	0.16	0.074	0.7	2/7/22 23:58	BRF	
trans-1,3-Dichloropropene	ND	0.035	0.011			ND	0.16	0.049	0.7	2/7/22 23:58	BRF	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.016	0.035	0.012	J		0.11	0.24	0.085	0.7	2/7/22 23:58	BRF	
1,4-Dioxane	ND	0.35	0.024			ND	1.3	0.086	0.7	2/7/22 23:58	BRF	
Ethanol	260	20	6.1			500	38	11	10	2/8/22 12:07	BRF	
Ethyl Acetate	1.8	0.35	0.21	L-03, V-34		6.3	J	1.3	0.75	0.7	2/7/22 23:58	BRF
Ethylbenzene	0.41	0.035	0.0090			1.8	0.15	0.039	0.7	2/7/22 23:58	BRF	
4-Ethyltoluene	0.099	0.035	0.011			0.49	0.17	0.053	0.7	2/7/22 23:58	BRF	
Heptane	0.28	0.035	0.014			1.1	0.14	0.059	0.7	2/7/22 23:58	BRF	
Hexachlorobutadiene	ND	0.035	0.019	L-03, V-05		ND	UJ	0.37	0.21	0.7	2/7/22 23:58	BRF
Hexane	0.22	1.4	0.12	J		0.79	4.9	0.41	0.7	2/7/22 23:58	BRF	
2-Hexanone (MBK)	ND	0.070	0.018			ND	UJ	0.29	0.072	0.7	2/7/22 23:58	BRF
Isopropanol	9.8	1.4	0.32			24	3.4	0.79	0.7	2/7/22 23:58	BRF	
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.014			ND	0.13	0.050	0.7	2/7/22 23:58	BRF	
Methylene Chloride	0.52	0.35	0.080			1.8	1.2	0.28	0.7	2/7/22 23:58	BRF	
4-Methyl-2-pentanone (MIBK)	21	0.035	0.018			88	0.14	0.074	0.7	2/7/22 23:58	BRF	
Naphthalene	0.043	0.035	0.022			0.22	0.18	0.12	0.7	2/7/22 23:58	BRF	
Propene	ND	1.4	0.12			ND	2.4	0.20	0.7	2/7/22 23:58	BRF	
Styrene	0.13	0.035	0.011			0.57	0.15	0.047	0.7	2/7/22 23:58	BRF	
1,1,2,2-Tetrachloroethane	ND	0.035	0.011			ND	0.24	0.074	0.7	2/7/22 23:58	BRF	

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ANALYTICAL RESULTS

Project Location: Meeker SVI

Date Received: 1/27/2022

Field Sample #: 22A1521-IA-40-09

Sample ID: 22A1521-02

Sample Matrix: Indoor air

Sampled: 1/25/2022 08:22

Sample Description/Location: H-40-09

Sub Description/Location:

Canister ID: 1025

Canister Size: 6 liter

Flow Controller ID: 3489

Sample Type: 24 hr

Work Order: 22A1521

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -9

Receipt Vacuum(in Hg): -9.1

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed		
Tetrachloroethylene	0.024	0.035	0.010	J	0.17	0.24	0.070	0.7	2/7/22 23:58	BRF	
Tetrahydrofuran	ND	0.35	0.086		ND	1.0	0.25	0.7	2/7/22 23:58	BRF	
Toluene	18	0.035	0.015		68	0.13	0.055	0.7	2/7/22 23:58	BRF	
1,2,4-Trichlorobenzene	ND	0.070	0.024	L-03, V-04, V-05	ND UJ	0.52	0.18	0.7	2/7/22 23:58	BRF	
1,1,1-Trichloroethane	ND	0.035	0.016		ND	0.19	0.088	0.7	2/7/22 23:58	BRF	
1,1,2-Trichloroethane	ND	0.035	0.014		ND	0.19	0.076	0.7	2/7/22 23:58	BRF	
Trichloroethylene	0.027	0.035	0.013	J	0.14	0.19	0.070	0.7	2/7/22 23:58	BRF	
Trichlorofluoromethane (Freon 11)	0.22	0.14	0.014		1.3	0.79	0.078	0.7	2/7/22 23:58	BRF	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.071	0.14	0.012	J	0.54	1.1	0.095	0.7	2/7/22 23:58	BRF	
1,2,4-Trimethylbenzene	0.56	0.035	0.010		2.8	0.17	0.051	0.7	2/7/22 23:58	BRF	
1,3,5-Trimethylbenzene	0.15	0.035	0.0096		0.72	0.17	0.047	0.7	2/7/22 23:58	BRF	
Vinyl Acetate	ND	0.70	0.066	V-05	ND UJ	2.5	0.23	0.7	2/7/22 23:58	BRF	
Vinyl Chloride	ND	0.035	0.014		ND	0.089	0.035	0.7	2/7/22 23:58	BRF	
m&p-Xylene	1.7	0.070	0.019		7.6	0.30	0.084	0.7	2/7/22 23:58	BRF	
o-Xylene	0.74	0.035	0.0094		3.2	0.15	0.041	0.7	2/7/22 23:58	BRF	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	89.8	70-130	2/7/22 23:58
4-Bromofluorobenzene (1)	82.8	70-130	2/8/22 12:07

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ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/27/2022
Field Sample #: 22A121-OA-40-09
Sample ID: 22A1521-03
 Sample Matrix: Ambient Air
 Sampled: 1/25/2022 08:23

Sample Description/Location: H-40-09
 Sub Description/Location:
 Canister ID: 2145
 Canister Size: 6 liter
 Flow Controller ID: 3412
 Sample Type: 24 hr

Work Order: 22A1521
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -6.1
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst	
	Results	RL	MDL		Results	RL	MDL		Analyzed			
Acetone	6.6	1.4	0.85		16	3.3	2.0	0.7	2/8/22	0:29	BRF	
Benzene	0.29	0.035	0.0084		0.91	0.11	0.027	0.7	2/8/22	0:29	BRF	
Benzyl chloride	ND	0.035	0.016		ND	0.18	0.082	0.7	2/8/22	0:29	BRF	
Bromodichloromethane	ND	0.035	0.013		ND	0.23	0.085	0.7	2/8/22	0:29	BRF	
Bromoform	ND	0.035	0.013		ND	0.36	0.13	0.7	2/8/22	0:29	BRF	
Bromomethane	ND	0.035	0.029		ND	0.14	0.11	0.7	2/8/22	0:29	BRF	
1,3-Butadiene	ND	0.035	0.024		ND	0.077	0.054	0.7	2/8/22	0:29	BRF	
2-Butanone (MEK)	1.2	1.4	0.12	J	3.4	4.1	0.34	0.7	2/8/22	0:29	BRF	
Carbon Disulfide	ND	0.35	0.089		ND	1.1	0.28	0.7	2/8/22	0:29	BRF	
Carbon Tetrachloride	0.072	0.035	0.011		0.45	0.22	0.066	0.7	2/8/22	0:29	BRF	
Chlorobenzene	ND	0.035	0.010		ND	0.16	0.048	0.7	2/8/22	0:29	BRF	
Chloroethane	ND	0.035	0.026		ND	0.092	0.067	0.7	2/8/22	0:29	BRF	
Chloroform	0.024	0.035	0.0085	J	0.12	0.17	0.041	0.7	2/8/22	0:29	BRF	
Chloromethane	0.52	0.070	0.014		1.1	0.14	0.030	0.7	2/8/22	0:29	BRF	
Cyclohexane	ND	0.035	0.023		ND	0.12	0.080	0.7	2/8/22	0:29	BRF	
Dibromochloromethane	ND	0.035	0.012		ND	0.30	0.10	0.7	2/8/22	0:29	BRF	
1,2-Dibromoethane (EDB)	ND	0.035	0.0098		ND	0.27	0.075	0.7	2/8/22	0:29	BRF	
1,2-Dichlorobenzene	ND	0.035	0.013		ND	0.21	0.078	0.7	2/8/22	0:29	BRF	
1,3-Dichlorobenzene	ND	0.035	0.0085		ND	0.21	0.051	0.7	2/8/22	0:29	BRF	
1,4-Dichlorobenzene	ND	0.035	0.014		ND	0.21	0.085	0.7	2/8/22	0:29	BRF	
Dichlorodifluoromethane (Freon 12)	0.41	0.035	0.011		2.0	0.17	0.053	0.7	2/8/22	0:29	BRF	
1,1-Dichloroethane	ND	0.035	0.012		ND	0.14	0.048	0.7	2/8/22	0:29	BRF	
1,2-Dichloroethane	ND	0.035	0.013		ND	0.14	0.052	0.7	2/8/22	0:29	BRF	
1,1-Dichloroethylene	ND	0.035	0.014		ND	0.14	0.055	0.7	2/8/22	0:29	BRF	
cis-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.047	0.7	2/8/22	0:29	BRF	
trans-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.049	0.7	2/8/22	0:29	BRF	
1,2-Dichloropropane	ND	0.035	0.013		ND	0.16	0.059	0.7	2/8/22	0:29	BRF	
cis-1,3-Dichloropropene	ND	0.035	0.016		ND	0.16	0.074	0.7	2/8/22	0:29	BRF	
trans-1,3-Dichloropropene	ND	0.035	0.011		ND	0.16	0.049	0.7	2/8/22	0:29	BRF	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.015	0.035	0.012	J	0.10	0.24	0.085	0.7	2/8/22	0:29	BRF	
1,4-Dioxane	ND	0.35	0.024		ND	1.3	0.086	0.7	2/8/22	0:29	BRF	
Ethanol	14	1.4	0.42		26	2.6	0.80	0.7	2/8/22	0:29	BRF	
Ethyl Acetate	0.24	0.35	0.21	L-03, V-34, J	0.88	J	1.3	0.75	0.7	2/8/22	0:29	BRF
Ethylbenzene	0.059	0.035	0.0090		0.26	0.15	0.039	0.7	2/8/22	0:29	BRF	
4-Ethyltoluene	ND	0.035	0.011		ND	0.17	0.053	0.7	2/8/22	0:29	BRF	
Heptane	0.24	0.035	0.014		0.98	0.14	0.059	0.7	2/8/22	0:29	BRF	
Hexachlorobutadiene	ND	0.035	0.019	L-03, V-05	ND	UJ	0.37	0.21	0.7	2/8/22	0:29	BRF
Hexane	0.25	1.4	0.12	J	0.89	4.9	0.41	0.7	2/8/22	0:29	BRF	
2-Hexanone (MBK)	ND	0.070	0.018		ND	UJ	0.29	0.072	0.7	2/8/22	0:29	BRF
Isopropanol	1.0	1.4	0.32	J	2.5	3.4	0.79	0.7	2/8/22	0:29	BRF	
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.014		ND	0.13	0.050	0.7	2/8/22	0:29	BRF	
Methylene Chloride	0.35	0.35	0.080		1.2	1.2	0.28	0.7	2/8/22	0:29	BRF	
4-Methyl-2-pentanone (MIBK)	0.12	0.035	0.018		0.50	0.14	0.074	0.7	2/8/22	0:29	BRF	
Naphthalene	ND	0.035	0.022		ND	0.18	0.12	0.7	2/8/22	0:29	BRF	
Propene	ND	1.4	0.12		ND	2.4	0.20	0.7	2/8/22	0:29	BRF	
Styrene	0.026	0.035	0.011	J	0.11	0.15	0.047	0.7	2/8/22	0:29	BRF	
1,1,2,2-Tetrachloroethane	ND	0.035	0.011		ND	0.24	0.074	0.7	2/8/22	0:29	BRF	

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/27/2022
Field Sample #: 22A1521-OA-40-09
Sample ID: 22A1521-03
 Sample Matrix: Ambient Air
 Sampled: 1/25/2022 08:23

Sample Description/Location: H-40-09
 Sub Description/Location:
 Canister ID: 2145
 Canister Size: 6 liter
 Flow Controller ID: 3412
 Sample Type: 24 hr

Work Order: 22A1521
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -6.1
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	0.015	0.035	0.010	J	0.10	0.24	0.070	0.7	2/8/22	0:29	BRF
Tetrahydrofuran	ND	0.35	0.086		ND	1.0	0.25	0.7	2/8/22	0:29	BRF
Toluene	0.49	0.035	0.015		1.8	0.13	0.055	0.7	2/8/22	0:29	BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024	L-03, V-04, V-05	ND UJ	0.52	0.18	0.7	2/8/22	0:29	BRF
1,1,1-Trichloroethane	ND	0.035	0.016		ND	0.19	0.088	0.7	2/8/22	0:29	BRF
1,1,2-Trichloroethane	ND	0.035	0.014		ND	0.19	0.076	0.7	2/8/22	0:29	BRF
Trichloroethylene	ND	0.035	0.013		ND	0.19	0.070	0.7	2/8/22	0:29	BRF
Trichlorofluoromethane (Freon 11)	0.21	0.14	0.014		1.2	0.79	0.078	0.7	2/8/22	0:29	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.069	0.14	0.012	J	0.53	1.1	0.095	0.7	2/8/22	0:29	BRF
1,2,4-Trimethylbenzene	0.038	0.035	0.010		0.19	0.17	0.051	0.7	2/8/22	0:29	BRF
1,3,5-Trimethylbenzene	0.013	0.035	0.0096	J	0.065	0.17	0.047	0.7	2/8/22	0:29	BRF
Vinyl Acetate	ND	0.70	0.066	V-05	ND UJ	2.5	0.23	0.7	2/8/22	0:29	BRF
Vinyl Chloride	ND	0.035	0.014		ND	0.089	0.035	0.7	2/8/22	0:29	BRF
m&p-Xylene	0.18	0.070	0.019		0.80	0.30	0.084	0.7	2/8/22	0:29	BRF
o-Xylene	0.060	0.035	0.0094		0.26	0.15	0.041	0.7	2/8/22	0:29	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	87.3	70-130	2/8/22 0:29

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ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/27/2022
Field Sample #: 224121-SS-57
Sample ID: 22A1521-04
 Sample Matrix: Sub Slab
 Sampled: 1/25/2022 09:25

Sample Description/Location: H-57
 Sub Description/Location:
 Canister ID: 2197
 Canister Size: 6 liter
 Flow Controller ID: 3075
 Sample Type: 24 hr

Work Order: 22A1521
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed		
Acetone	16	4.0	2.4			38	9.5	5.7	2	2/8/22 2:54	BRF
Benzene	ND	0.10	0.024			ND	0.32	0.077	2	2/8/22 2:54	BRF
Benzyl chloride	ND	0.10	0.045			ND	0.52	0.23	2	2/8/22 2:54	BRF
Bromodichloromethane	ND	0.10	0.036			ND	0.67	0.24	2	2/8/22 2:54	BRF
Bromoform	ND	0.10	0.036			ND	1.0	0.37	2	2/8/22 2:54	BRF
Bromomethane	ND	0.10	0.082			ND	0.39	0.32	2	2/8/22 2:54	BRF
1,3-Butadiene	ND	0.10	0.070			ND	0.22	0.15	2	2/8/22 2:54	BRF
2-Butanone (MEK)	6.4	4.0	0.33			19	12	0.98	2	2/8/22 2:54	BRF
Carbon Disulfide	ND	1.0	0.25			ND	3.1	0.79	2	2/8/22 2:54	BRF
Carbon Tetrachloride	0.062	0.10	0.030	J		0.39	0.63	0.19	2	2/8/22 2:54	BRF
Chlorobenzene	ND	0.10	0.030			ND	0.46	0.14	2	2/8/22 2:54	BRF
Chloroethane	16	0.10	0.073			42	0.26	0.19	2	2/8/22 2:54	BRF
Chloroform	0.38	0.10	0.024			1.9	0.49	0.12	2	2/8/22 2:54	BRF
Chloromethane	ND	0.20	0.041			ND	0.41	0.085	2	2/8/22 2:54	BRF
Cyclohexane	ND	0.10	0.066			ND	0.34	0.23	2	2/8/22 2:54	BRF
Dibromochloromethane	ND	0.10	0.034			ND	0.85	0.29	2	2/8/22 2:54	BRF
1,2-Dibromoethane (EDB)	ND	0.10	0.028			ND	0.77	0.22	2	2/8/22 2:54	BRF
1,2-Dichlorobenzene	ND	0.10	0.037			ND	0.60	0.22	2	2/8/22 2:54	BRF
1,3-Dichlorobenzene	ND	0.10	0.024			ND	0.60	0.15	2	2/8/22 2:54	BRF
1,4-Dichlorobenzene	ND	0.10	0.041			ND	0.60	0.24	2	2/8/22 2:54	BRF
Dichlorodifluoromethane (Freon 12)	0.44	0.10	0.031			2.2	0.49	0.15	2	2/8/22 2:54	BRF
1,1-Dichloroethane	0.83	0.10	0.034			3.3	0.40	0.14	2	2/8/22 2:54	BRF
1,2-Dichloroethane	0.70	0.10	0.037			2.8	0.40	0.15	2	2/8/22 2:54	BRF
1,1-Dichloroethylene	ND	0.10	0.039			ND	0.40	0.16	2	2/8/22 2:54	BRF
cis-1,2-Dichloroethylene	ND	0.10	0.034			ND	0.40	0.13	2	2/8/22 2:54	BRF
trans-1,2-Dichloroethylene	ND	0.10	0.035			ND	0.40	0.14	2	2/8/22 2:54	BRF
1,2-Dichloropropane	ND	0.10	0.036			ND	0.46	0.17	2	2/8/22 2:54	BRF
cis-1,3-Dichloropropene	ND	0.10	0.046			ND	0.45	0.21	2	2/8/22 2:54	BRF
trans-1,3-Dichloropropene	ND	0.10	0.031			ND	0.45	0.14	2	2/8/22 2:54	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.035			ND	0.70	0.24	2	2/8/22 2:54	BRF
1,4-Dioxane	ND	1.0	0.068			ND	3.6	0.24	2	2/8/22 2:54	BRF
Ethanol	17	4.0	1.2			32	7.5	2.3	2	2/8/22 2:54	BRF
Ethyl Acetate	0.66	1.0	0.59	L-03, V-34, J		2.4 J	3.6	2.1	2	2/8/22 2:54	BRF
Ethylbenzene	ND	0.10	0.026			ND	0.43	0.11	2	2/8/22 2:54	BRF
4-Ethyltoluene	ND	0.10	0.031			ND	0.49	0.15	2	2/8/22 2:54	BRF
Heptane	0.52	0.10	0.041			2.1	0.41	0.17	2	2/8/22 2:54	BRF
Hexachlorobutadiene	ND	0.10	0.056	L-03, V-05		ND UJ	1.1	0.59	2	2/8/22 2:54	BRF
Hexane	0.99	4.0	0.33	J		3.5	14	1.2	2	2/8/22 2:54	BRF
2-Hexanone (MBK)	ND	0.20	0.050			ND UJ	0.82	0.21	2	2/8/22 2:54	BRF
Isopropanol	1.0	4.0	0.92	J		2.6	9.8	2.3	2	2/8/22 2:54	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.040			ND	0.36	0.14	2	2/8/22 2:54	BRF
Methylene Chloride	0.34	1.0	0.23	J		1.2	3.5	0.80	2	2/8/22 2:54	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.051			ND	0.41	0.21	2	2/8/22 2:54	BRF
Naphthalene	ND	0.10	0.063			ND	0.52	0.33	2	2/8/22 2:54	BRF
Propene	ND	4.0	0.33			ND	6.9	0.58	2	2/8/22 2:54	BRF
Styrene	ND	0.10	0.032			ND	0.43	0.13	2	2/8/22 2:54	BRF
1,1,2,2-Tetrachloroethane	ND	0.10	0.031			ND	0.69	0.21	2	2/8/22 2:54	BRF

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ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/27/2022
Field Sample #: 22A1521-SS-57
Sample ID: 22A1521-04
 Sample Matrix: Sub Slab
 Sampled: 1/25/2022 09:25

Sample Description/Location: H-57
 Sub Description/Location:
 Canister ID: 2197
 Canister Size: 6 liter
 Flow Controller ID: 3075
 Sample Type: 24 hr

Work Order: 22A1521
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	0.13	0.10	0.030		0.91	0.68	0.20	2	2/8/22	2:54	BRF
Tetrahydrofuran	ND	1.0	0.25		ND	2.9	0.73	2	2/8/22	2:54	BRF
Toluene	0.34	0.10	0.042		1.3	0.38	0.16	2	2/8/22	2:54	BRF
1,2,4-Trichlorobenzene	ND	0.20	0.070	L-03, V-04, V-05	ND UJ	1.5	0.52	2	2/8/22	2:54	BRF
1,1,1-Trichloroethane	ND	0.10	0.046		ND	0.55	0.25	2	2/8/22	2:54	BRF
1,1,2-Trichloroethane	ND	0.10	0.040		ND	0.55	0.22	2	2/8/22	2:54	BRF
Trichloroethylene	ND	0.10	0.037		ND	0.54	0.20	2	2/8/22	2:54	BRF
Trichlorofluoromethane (Freon 11)	0.22	0.40	0.040	J	1.3	2.2	0.22	2	2/8/22	2:54	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.062	0.40	0.035	J	0.48	3.1	0.27	2	2/8/22	2:54	BRF
1,2,4-Trimethylbenzene	ND	0.10	0.030		ND	0.49	0.15	2	2/8/22	2:54	BRF
1,3,5-Trimethylbenzene	ND	0.10	0.027		ND	0.49	0.13	2	2/8/22	2:54	BRF
Vinyl Acetate	ND	2.0	0.19	V-05	ND UJ	7.0	0.66	2	2/8/22	2:54	BRF
Vinyl Chloride	1.7	0.10	0.040		4.4	0.26	0.10	2	2/8/22	2:54	BRF
m&p-Xylene	ND	0.20	0.055		ND	0.87	0.24	2	2/8/22	2:54	BRF
o-Xylene	ND	0.10	0.027		ND	0.43	0.12	2	2/8/22	2:54	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	89.8	70-130	2/8/22 2:54

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ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/27/2022
Field Sample #: 224121-IA-57
Sample ID: 22A1521-05
 Sample Matrix: Indoor air
 Sampled: 1/25/2022 09:26

Sample Description/Location: H-57
 Sub Description/Location:
 Canister ID: 1449
 Canister Size: 6 liter
 Flow Controller ID: 3055
 Sample Type: 24 hr

Work Order: 22A1521
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -8.6
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	3.3	1.4	0.85		7.8	3.3	2.0	0.7	2/8/22 1:00		BRF
Benzene	0.30	0.035	0.0084		0.95	0.11	0.027	0.7	2/8/22 1:00		BRF
Benzyl chloride	ND	0.035	0.016		ND	0.18	0.082	0.7	2/8/22 1:00		BRF
Bromodichloromethane	ND	0.035	0.013		ND	0.23	0.085	0.7	2/8/22 1:00		BRF
Bromoform	ND	0.035	0.013		ND	0.36	0.13	0.7	2/8/22 1:00		BRF
Bromomethane	ND	0.035	0.029		ND	0.14	0.11	0.7	2/8/22 1:00		BRF
1,3-Butadiene	ND	0.035	0.024		ND	0.077	0.054	0.7	2/8/22 1:00		BRF
2-Butanone (MEK)	0.29	1.4	0.12	J	0.87	4.1	0.34	0.7	2/8/22 1:00		BRF
Carbon Disulfide	ND	0.35	0.089		ND	1.1	0.28	0.7	2/8/22 1:00		BRF
Carbon Tetrachloride	0.075	0.035	0.011		0.47	0.22	0.066	0.7	2/8/22 1:00		BRF
Chlorobenzene	ND	0.035	0.010		ND	0.16	0.048	0.7	2/8/22 1:00		BRF
Chloroethane	ND	0.035	0.026		ND	0.092	0.067	0.7	2/8/22 1:00		BRF
Chloroform	0.037	0.035	0.0085		0.18	0.17	0.041	0.7	2/8/22 1:00		BRF
Chloromethane	0.57	0.070	0.014		1.2	0.14	0.030	0.7	2/8/22 1:00		BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.080	0.7	2/8/22 1:00		BRF
Dibromochloromethane	ND	0.035	0.012		ND	0.30	0.10	0.7	2/8/22 1:00		BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.0098		ND	0.27	0.075	0.7	2/8/22 1:00		BRF
1,2-Dichlorobenzene	ND	0.035	0.013		ND	0.21	0.078	0.7	2/8/22 1:00		BRF
1,3-Dichlorobenzene	ND	0.035	0.0085		ND	0.21	0.051	0.7	2/8/22 1:00		BRF
1,4-Dichlorobenzene	ND	0.035	0.014		ND	0.21	0.085	0.7	2/8/22 1:00		BRF
Dichlorodifluoromethane (Freon 12)	0.41	0.035	0.011		2.0	0.17	0.053	0.7	2/8/22 1:00		BRF
1,1-Dichloroethane	ND	0.035	0.012		ND	0.14	0.048	0.7	2/8/22 1:00		BRF
1,2-Dichloroethane	ND	0.035	0.013		ND	0.14	0.052	0.7	2/8/22 1:00		BRF
1,1-Dichloroethylene	ND	0.035	0.014		ND	0.14	0.055	0.7	2/8/22 1:00		BRF
cis-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.047	0.7	2/8/22 1:00		BRF
trans-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.049	0.7	2/8/22 1:00		BRF
1,2-Dichloropropane	ND	0.035	0.013		ND	0.16	0.059	0.7	2/8/22 1:00		BRF
cis-1,3-Dichloropropene	ND	0.035	0.016		ND	0.16	0.074	0.7	2/8/22 1:00		BRF
trans-1,3-Dichloropropene	ND	0.035	0.011		ND	0.16	0.049	0.7	2/8/22 1:00		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.013	0.035	0.012	J	0.093	0.24	0.085	0.7	2/8/22 1:00		BRF
1,4-Dioxane	ND	0.35	0.024		ND	1.3	0.086	0.7	2/8/22 1:00		BRF
Ethanol	44	4.0	1.2		84	7.5	2.3	2	2/8/22 12:33		BRF
Ethyl Acetate	0.38	0.35	0.21	L-03, V-34	1.4 J	1.3	0.75	0.7	2/8/22 1:00		BRF
Ethylbenzene	0.12	0.035	0.0090		0.51	0.15	0.039	0.7	2/8/22 1:00		BRF
4-Ethyltoluene	0.016	0.035	0.011	J	0.079	0.17	0.053	0.7	2/8/22 1:00		BRF
Heptane	0.39	0.035	0.014		1.6	0.14	0.059	0.7	2/8/22 1:00		BRF
Hexachlorobutadiene	ND	0.035	0.019	L-03, V-05	ND UJ	0.37	0.21	0.7	2/8/22 1:00		BRF
Hexane	0.36	1.4	0.12	J	1.3	4.9	0.41	0.7	2/8/22 1:00		BRF
2-Hexanone (MBK)	ND	0.070	0.018		ND UJ	0.29	0.072	0.7	2/8/22 1:00		BRF
Isopropanol	0.86	1.4	0.32	J	2.1	3.4	0.79	0.7	2/8/22 1:00		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.014		ND	0.13	0.050	0.7	2/8/22 1:00		BRF
Methylene Chloride	0.36	0.35	0.080		1.2	1.2	0.28	0.7	2/8/22 1:00		BRF
4-Methyl-2-pentanone (MIBK)	0.10	0.035	0.018		0.42	0.14	0.074	0.7	2/8/22 1:00		BRF
Naphthalene	ND	0.035	0.022		ND	0.18	0.12	0.7	2/8/22 1:00		BRF
Propene	ND	1.4	0.12		ND	2.4	0.20	0.7	2/8/22 1:00		BRF
Styrene	0.043	0.035	0.011		0.18	0.15	0.047	0.7	2/8/22 1:00		BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.011		ND	0.24	0.074	0.7	2/8/22 1:00		BRF

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ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/27/2022
Field Sample #: 22A1521-IA-57
Sample ID: 22A1521-05
 Sample Matrix: Indoor air
 Sampled: 1/25/2022 09:26

Sample Description/Location: H-57
 Sub Description/Location:
 Canister ID: 1449
 Canister Size: 6 liter
 Flow Controller ID: 3055
 Sample Type: 24 hr

Work Order: 22A1521
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -8.6
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	0.018	0.035	0.010	J	0.12	0.24	0.070	0.7	2/8/22	1:00	BRF
Tetrahydrofuran	ND	0.35	0.086		ND	1.0	0.25	0.7	2/8/22	1:00	BRF
Toluene	0.63	0.035	0.015		2.4	0.13	0.055	0.7	2/8/22	1:00	BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024	L-03, V-04, V-05	ND UJ	0.52	0.18	0.7	2/8/22	1:00	BRF
1,1,1-Trichloroethane	ND	0.035	0.016		ND	0.19	0.088	0.7	2/8/22	1:00	BRF
1,1,2-Trichloroethane	ND	0.035	0.014		ND	0.19	0.076	0.7	2/8/22	1:00	BRF
Trichloroethylene	ND	0.035	0.013		ND	0.19	0.070	0.7	2/8/22	1:00	BRF
Trichlorofluoromethane (Freon 11)	0.25	0.14	0.014		1.4	0.79	0.078	0.7	2/8/22	1:00	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.19	0.14	0.012		1.5	1.1	0.095	0.7	2/8/22	1:00	BRF
1,2,4-Trimethylbenzene	0.051	0.035	0.010		0.25	0.17	0.051	0.7	2/8/22	1:00	BRF
1,3,5-Trimethylbenzene	0.018	0.035	0.0096	J	0.086	0.17	0.047	0.7	2/8/22	1:00	BRF
Vinyl Acetate	ND	0.70	0.066	V-05	ND UJ	2.5	0.23	0.7	2/8/22	1:00	BRF
Vinyl Chloride	ND	0.035	0.014		ND	0.089	0.035	0.7	2/8/22	1:00	BRF
m&p-Xylene	0.36	0.070	0.019		1.6	0.30	0.084	0.7	2/8/22	1:00	BRF
o-Xylene	0.13	0.035	0.0094		0.57	0.15	0.041	0.7	2/8/22	1:00	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	86.2	70-130	2/8/22 12:33
4-Bromofluorobenzene (1)	88.8	70-130	2/8/22 1:00

ALH 2/17/2022

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/27/2022
Field Sample #: 224121-SS-11
Sample ID: 22A1521-06
 Sample Matrix: Sub Slab
 Sampled: 1/25/2022 13:13

Sample Description/Location: H-11
 Sub Description/Location:
 Canister ID: 1324
 Canister Size: 6 liter
 Flow Controller ID: 3056
 Sample Type: 24 hr

Work Order: 22A1521
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -9.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	15	4.0	2.4		35	9.5	5.7	2	2/8/22 3:20		BRF
Benzene	0.12	0.10	0.024		0.37	0.32	0.077	2	2/8/22 3:20		BRF
Benzyl chloride	ND	0.10	0.045		ND	0.52	0.23	2	2/8/22 3:20		BRF
Bromodichloromethane	ND	0.10	0.036		ND	0.67	0.24	2	2/8/22 3:20		BRF
Bromoform	ND	0.10	0.036		ND	1.0	0.37	2	2/8/22 3:20		BRF
Bromomethane	ND	0.10	0.082		ND	0.39	0.32	2	2/8/22 3:20		BRF
1,3-Butadiene	ND	0.10	0.070		ND	0.22	0.15	2	2/8/22 3:20		BRF
2-Butanone (MEK)	4.4	4.0	0.33		13	12	0.98	2	2/8/22 3:20		BRF
Carbon Disulfide	ND	1.0	0.25		ND	3.1	0.79	2	2/8/22 3:20		BRF
Carbon Tetrachloride	0.12	0.10	0.030		0.78	0.63	0.19	2	2/8/22 3:20		BRF
Chlorobenzene	ND	0.10	0.030		ND	0.46	0.14	2	2/8/22 3:20		BRF
Chloroethane	6.2	0.10	0.073		16	0.26	0.19	2	2/8/22 3:20		BRF
Chloroform	5.8	0.10	0.024		28	0.49	0.12	2	2/8/22 3:20		BRF
Chloromethane	ND	0.20	0.041		ND	0.41	0.085	2	2/8/22 3:20		BRF
Cyclohexane	ND	0.10	0.066		ND	0.34	0.23	2	2/8/22 3:20		BRF
Dibromochloromethane	ND	0.10	0.034		ND	0.85	0.29	2	2/8/22 3:20		BRF
1,2-Dibromoethane (EDB)	ND	0.10	0.028		ND	0.77	0.22	2	2/8/22 3:20		BRF
1,2-Dichlorobenzene	ND	0.10	0.037		ND	0.60	0.22	2	2/8/22 3:20		BRF
1,3-Dichlorobenzene	ND	0.10	0.024		ND	0.60	0.15	2	2/8/22 3:20		BRF
1,4-Dichlorobenzene	ND	0.10	0.041		ND	0.60	0.24	2	2/8/22 3:20		BRF
Dichlorodifluoromethane (Freon 12)	0.43	0.10	0.031		2.1	0.49	0.15	2	2/8/22 3:20		BRF
1,1-Dichloroethane	0.48	0.10	0.034		1.9	0.40	0.14	2	2/8/22 3:20		BRF
1,2-Dichloroethane	0.44	0.10	0.037		1.8	0.40	0.15	2	2/8/22 3:20		BRF
1,1-Dichloroethylene	ND	0.10	0.039		ND	0.40	0.16	2	2/8/22 3:20		BRF
cis-1,2-Dichloroethylene	ND	0.10	0.034		ND	0.40	0.13	2	2/8/22 3:20		BRF
trans-1,2-Dichloroethylene	ND	0.10	0.035		ND	0.40	0.14	2	2/8/22 3:20		BRF
1,2-Dichloropropane	ND	0.10	0.036		ND	0.46	0.17	2	2/8/22 3:20		BRF
cis-1,3-Dichloropropene	ND	0.10	0.046		ND	0.45	0.21	2	2/8/22 3:20		BRF
trans-1,3-Dichloropropene	ND	0.10	0.031		ND	0.45	0.14	2	2/8/22 3:20		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.035		ND	0.70	0.24	2	2/8/22 3:20		BRF
1,4-Dioxane	ND	1.0	0.068		ND	3.6	0.24	2	2/8/22 3:20		BRF
Ethanol	18	4.0	1.2		34	7.5	2.3	2	2/8/22 3:20		BRF
Ethyl Acetate	1.2	1.0	0.59	L-03, V-34	4.3 J	3.6	2.1	2	2/8/22 3:20		BRF
Ethylbenzene	ND	0.10	0.026		ND	0.43	0.11	2	2/8/22 3:20		BRF
4-Ethyltoluene	ND	0.10	0.031		ND	0.49	0.15	2	2/8/22 3:20		BRF
Heptane	0.40	0.10	0.041		1.6	0.41	0.17	2	2/8/22 3:20		BRF
Hexachlorobutadiene	ND	0.10	0.056	V-05, L-03	ND UJ	1.1	0.59	2	2/8/22 3:20		BRF
Hexane	0.55	4.0	0.33	J	1.9	14	1.2	2	2/8/22 3:20		BRF
2-Hexanone (MBK)	ND	0.20	0.050		ND UJ	0.82	0.21	2	2/8/22 3:20		BRF
Isopropanol	1.5	4.0	0.92	J	3.7	9.8	2.3	2	2/8/22 3:20		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.040		ND	0.36	0.14	2	2/8/22 3:20		BRF
Methylene Chloride	ND	1.0	0.23		ND	3.5	0.80	2	2/8/22 3:20		BRF
4-Methyl-2-pentanone (MIBK)	0.64	0.10	0.051		2.6	0.41	0.21	2	2/8/22 3:20		BRF
Naphthalene	ND	0.10	0.063		ND	0.52	0.33	2	2/8/22 3:20		BRF
Propene	ND	4.0	0.33		ND	6.9	0.58	2	2/8/22 3:20		BRF
Styrene	ND	0.10	0.032		ND	0.43	0.13	2	2/8/22 3:20		BRF
1,1,2,2-Tetrachloroethane	ND	0.10	0.031		ND	0.69	0.21	2	2/8/22 3:20		BRF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

 Project Location: Meeker SVI
 Date Received: 1/27/2022
Field Sample #: 22A1521-SS-11
Sample ID: 22A1521-06
 Sample Matrix: Sub Slab
 Sampled: 1/25/2022 13:13

 Sample Description/Location: H-11
 Sub Description/Location:
 Canister ID: 1324
 Canister Size: 6 liter
 Flow Controller ID: 3056
 Sample Type: 24 hr

Work Order: 22A1521
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -9.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	12	0.10	0.030		81	0.68	0.20	2	2/8/22 3:20		BRF
Tetrahydrofuran	ND	1.0	0.25		ND	2.9	0.73	2	2/8/22 3:20		BRF
Toluene	0.21	0.10	0.042		0.80	0.38	0.16	2	2/8/22 3:20		BRF
1,2,4-Trichlorobenzene	ND	0.20	0.070	L-03, V-04, V-05	ND UJ	1.5	0.52	2	2/8/22 3:20		BRF
1,1,1-Trichloroethane	2.2	0.10	0.046		12	0.55	0.25	2	2/8/22 3:20		BRF
1,1,2-Trichloroethane	ND	0.10	0.040		ND	0.55	0.22	2	2/8/22 3:20		BRF
Trichloroethylene	2.0	0.10	0.037		11	0.54	0.20	2	2/8/22 3:20		BRF
Trichlorofluoromethane (Freon 11)	0.24	0.40	0.040	J	1.4	2.2	0.22	2	2/8/22 3:20		BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.080	0.40	0.035	J	0.61	3.1	0.27	2	2/8/22 3:20		BRF
1,2,4-Trimethylbenzene	ND	0.10	0.030		ND	0.49	0.15	2	2/8/22 3:20		BRF
1,3,5-Trimethylbenzene	ND	0.10	0.027		ND	0.49	0.13	2	2/8/22 3:20		BRF
Vinyl Acetate	ND	2.0	0.19	V-05	ND UJ	7.0	0.66	2	2/8/22 3:20		BRF
Vinyl Chloride	0.63	0.10	0.040		1.6	0.26	0.10	2	2/8/22 3:20		BRF
m&p-Xylene	ND	0.20	0.055		ND	0.87	0.24	2	2/8/22 3:20		BRF
o-Xylene	ND	0.10	0.027		ND	0.43	0.12	2	2/8/22 3:20		BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	88.5	70-130	2/8/22 3:20

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/27/2022
Field Sample #: 224121-IA-11
Sample ID: 22A1521-07
 Sample Matrix: Indoor air
 Sampled: 1/25/2022 13:14

Sample Description/Location: H-11
 Sub Description/Location:
 Canister ID: 1327
 Canister Size: 6 liter
 Flow Controller ID: 3351
 Sample Type: 24 hr

Work Order: 22A1521
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -9.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	4.7	1.4	0.85		11	3.3	2.0	0.7	2/8/22	1:31	BRF
Benzene	0.34	0.035	0.0084		1.1	0.11	0.027	0.7	2/8/22	1:31	BRF
Benzyl chloride	ND	0.035	0.016		ND	0.18	0.082	0.7	2/8/22	1:31	BRF
Bromodichloromethane	ND	0.035	0.013		ND	0.23	0.085	0.7	2/8/22	1:31	BRF
Bromoform	ND	0.035	0.013		ND	0.36	0.13	0.7	2/8/22	1:31	BRF
Bromomethane	ND	0.035	0.029		ND	0.14	0.11	0.7	2/8/22	1:31	BRF
1,3-Butadiene	ND	0.035	0.024		ND	0.077	0.054	0.7	2/8/22	1:31	BRF
2-Butanone (MEK)	0.38	1.4	0.12	J	1.1	4.1	0.34	0.7	2/8/22	1:31	BRF
Carbon Disulfide	ND	0.35	0.089		ND	1.1	0.28	0.7	2/8/22	1:31	BRF
Carbon Tetrachloride	0.079	0.035	0.011		0.50	0.22	0.066	0.7	2/8/22	1:31	BRF
Chlorobenzene	ND	0.035	0.010		ND	0.16	0.048	0.7	2/8/22	1:31	BRF
Chloroethane	ND	0.035	0.026		ND	0.092	0.067	0.7	2/8/22	1:31	BRF
Chloroform	0.052	0.035	0.0085		0.26	0.17	0.041	0.7	2/8/22	1:31	BRF
Chloromethane	0.54	0.070	0.014		1.1	0.14	0.030	0.7	2/8/22	1:31	BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.080	0.7	2/8/22	1:31	BRF
Dibromochloromethane	ND	0.035	0.012		ND	0.30	0.10	0.7	2/8/22	1:31	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.0098		ND	0.27	0.075	0.7	2/8/22	1:31	BRF
1,2-Dichlorobenzene	ND	0.035	0.013		ND	0.21	0.078	0.7	2/8/22	1:31	BRF
1,3-Dichlorobenzene	ND	0.035	0.0085		ND	0.21	0.051	0.7	2/8/22	1:31	BRF
1,4-Dichlorobenzene	ND	0.035	0.014		ND	0.21	0.085	0.7	2/8/22	1:31	BRF
Dichlorodifluoromethane (Freon 12)	0.44	0.035	0.011		2.2	0.17	0.053	0.7	2/8/22	1:31	BRF
1,1-Dichloroethane	ND	0.035	0.012		ND	0.14	0.048	0.7	2/8/22	1:31	BRF
1,2-Dichloroethane	0.15	0.035	0.013		0.59	0.14	0.052	0.7	2/8/22	1:31	BRF
1,1-Dichloroethylene	ND	0.035	0.014		ND	0.14	0.055	0.7	2/8/22	1:31	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.047	0.7	2/8/22	1:31	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.049	0.7	2/8/22	1:31	BRF
1,2-Dichloropropane	ND	0.035	0.013		ND	0.16	0.059	0.7	2/8/22	1:31	BRF
cis-1,3-Dichloropropene	ND	0.035	0.016		ND	0.16	0.074	0.7	2/8/22	1:31	BRF
trans-1,3-Dichloropropene	ND	0.035	0.011		ND	0.16	0.049	0.7	2/8/22	1:31	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.015	0.035	0.012	J	0.10	0.24	0.085	0.7	2/8/22	1:31	BRF
1,4-Dioxane	ND	0.35	0.024		ND	1.3	0.086	0.7	2/8/22	1:31	BRF
Ethanol	230	20	6.1		440	38	11	10	2/8/22	12:58	BRF
Ethyl Acetate	0.64	0.35	0.21	L-03, V-34	2.3 J	1.3	0.75	0.7	2/8/22	1:31	BRF
Ethylbenzene	0.14	0.035	0.0090		0.59	0.15	0.039	0.7	2/8/22	1:31	BRF
4-Ethyltoluene	0.030	0.035	0.011	J	0.15	0.17	0.053	0.7	2/8/22	1:31	BRF
Heptane	0.28	0.035	0.014		1.2	0.14	0.059	0.7	2/8/22	1:31	BRF
Hexachlorobutadiene	ND	0.035	0.019	L-03, V-05	ND UJ	0.37	0.21	0.7	2/8/22	1:31	BRF
Hexane	0.33	1.4	0.12	J	1.2	4.9	0.41	0.7	2/8/22	1:31	BRF
2-Hexanone (MBK)	ND	0.070	0.018		ND UJ	0.29	0.072	0.7	2/8/22	1:31	BRF
Isopropanol	1.8	1.4	0.32		4.4	3.4	0.79	0.7	2/8/22	1:31	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.014		ND	0.13	0.050	0.7	2/8/22	1:31	BRF
Methylene Chloride	0.79	0.35	0.080		2.7	1.2	0.28	0.7	2/8/22	1:31	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.074	0.7	2/8/22	1:31	BRF
Naphthalene	ND	0.035	0.022		ND	0.18	0.12	0.7	2/8/22	1:31	BRF
Propene	ND	1.4	0.12		ND	2.4	0.20	0.7	2/8/22	1:31	BRF
Styrene	0.064	0.035	0.011		0.27	0.15	0.047	0.7	2/8/22	1:31	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.011		ND	0.24	0.074	0.7	2/8/22	1:31	BRF

ALH 2/17/2022

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/27/2022
Field Sample #: 22A1521-IA-11
Sample ID: 22A1521-07
 Sample Matrix: Indoor air
 Sampled: 1/25/2022 13:14

Sample Description/Location: H-11
 Sub Description/Location:
 Canister ID: 1327
 Canister Size: 6 liter
 Flow Controller ID: 3351
 Sample Type: 24 hr

Work Order: 22A1521
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -9.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	0.048	0.035	0.010		0.32	0.24	0.070	0.7	2/8/22	1:31	BRF
Tetrahydrofuran	ND	0.35	0.086		ND	1.0	0.25	0.7	2/8/22	1:31	BRF
Toluene	1.3	0.035	0.015		4.7	0.13	0.055	0.7	2/8/22	1:31	BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024	L-03, V-04, V-05	ND UJ	0.52	0.18	0.7	2/8/22	1:31	BRF
1,1,1-Trichloroethane	ND	0.035	0.016		ND	0.19	0.088	0.7	2/8/22	1:31	BRF
1,1,2-Trichloroethane	ND	0.035	0.014		ND	0.19	0.076	0.7	2/8/22	1:31	BRF
Trichloroethylene	ND	0.035	0.013		ND	0.19	0.070	0.7	2/8/22	1:31	BRF
Trichlorofluoromethane (Freon 11)	0.22	0.14	0.014		1.2	0.79	0.078	0.7	2/8/22	1:31	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.085	0.14	0.012	J	0.65	1.1	0.095	0.7	2/8/22	1:31	BRF
1,2,4-Trimethylbenzene	0.099	0.035	0.010		0.49	0.17	0.051	0.7	2/8/22	1:31	BRF
1,3,5-Trimethylbenzene	0.038	0.035	0.0096		0.19	0.17	0.047	0.7	2/8/22	1:31	BRF
Vinyl Acetate	ND	0.70	0.066	V-05	ND UJ	2.5	0.23	0.7	2/8/22	1:31	BRF
Vinyl Chloride	ND	0.035	0.014		ND	0.089	0.035	0.7	2/8/22	1:31	BRF
m&p-Xylene	0.38	0.070	0.019		1.6	0.30	0.084	0.7	2/8/22	1:31	BRF
o-Xylene	0.13	0.035	0.0094		0.57	0.15	0.041	0.7	2/8/22	1:31	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	82.3	70-130	2/8/22 12:58
4-Bromofluorobenzene (1)	88.1	70-130	2/8/22 1:31

ALH 2/17/2022

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/27/2022
Field Sample #: 22A121-OA-11
Sample ID: 22A1521-08
 Sample Matrix: Ambient Air
 Sampled: 1/25/2022 13:18

Sample Description/Location: H-11
 Sub Description/Location:
 Canister ID: 1169
 Canister Size: 6 liter
 Flow Controller ID: 3686
 Sample Type: 24 hr

Work Order: 22A1521
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -7.8
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed		
Acetone	ND	1.4	0.85			ND	3.3	2.0	0.7	2/8/22 2:02	BRF
Benzene	0.28	0.035	0.0084			0.89	0.11	0.027	0.7	2/8/22 2:02	BRF
Benzyl chloride	ND	0.035	0.016			ND	0.18	0.082	0.7	2/8/22 2:02	BRF
Bromodichloromethane	ND	0.035	0.013			ND	0.23	0.085	0.7	2/8/22 2:02	BRF
Bromoform	ND	0.035	0.013			ND	0.36	0.13	0.7	2/8/22 2:02	BRF
Bromomethane	ND	0.035	0.029			ND	0.14	0.11	0.7	2/8/22 2:02	BRF
1,3-Butadiene	ND	0.035	0.024			ND	0.077	0.054	0.7	2/8/22 2:02	BRF
2-Butanone (MEK)	ND	1.4	0.12			ND	4.1	0.34	0.7	2/8/22 2:02	BRF
Carbon Disulfide	ND	0.35	0.089			ND	1.1	0.28	0.7	2/8/22 2:02	BRF
Carbon Tetrachloride	0.027	0.035	0.011	J		0.17	0.22	0.066	0.7	2/8/22 2:02	BRF
Chlorobenzene	ND	0.035	0.010			ND	0.16	0.048	0.7	2/8/22 2:02	BRF
Chloroethane	ND	0.035	0.026			ND	0.092	0.067	0.7	2/8/22 2:02	BRF
Chloroform	0.016	0.035	0.0085	J		0.079	0.17	0.041	0.7	2/8/22 2:02	BRF
Chloromethane	0.49	0.070	0.014			1.0	0.14	0.030	0.7	2/8/22 2:02	BRF
Cyclohexane	ND	0.035	0.023			ND	0.12	0.080	0.7	2/8/22 2:02	BRF
Dibromochloromethane	ND	0.035	0.012			ND	0.30	0.10	0.7	2/8/22 2:02	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.0098			ND	0.27	0.075	0.7	2/8/22 2:02	BRF
1,2-Dichlorobenzene	ND	0.035	0.013			ND	0.21	0.078	0.7	2/8/22 2:02	BRF
1,3-Dichlorobenzene	ND	0.035	0.0085			ND	0.21	0.051	0.7	2/8/22 2:02	BRF
1,4-Dichlorobenzene	ND	0.035	0.014			ND	0.21	0.085	0.7	2/8/22 2:02	BRF
Dichlorodifluoromethane (Freon 12)	0.41	0.035	0.011			2.0	0.17	0.053	0.7	2/8/22 2:02	BRF
1,1-Dichloroethane	ND	0.035	0.012			ND	0.14	0.048	0.7	2/8/22 2:02	BRF
1,2-Dichloroethane	ND	0.035	0.013			ND	0.14	0.052	0.7	2/8/22 2:02	BRF
1,1-Dichloroethylene	ND	0.035	0.014			ND	0.14	0.055	0.7	2/8/22 2:02	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.012			ND	0.14	0.047	0.7	2/8/22 2:02	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.012			ND	0.14	0.049	0.7	2/8/22 2:02	BRF
1,2-Dichloropropane	ND	0.035	0.013			ND	0.16	0.059	0.7	2/8/22 2:02	BRF
cis-1,3-Dichloropropene	ND	0.035	0.016			ND	0.16	0.074	0.7	2/8/22 2:02	BRF
trans-1,3-Dichloropropene	ND	0.035	0.011			ND	0.16	0.049	0.7	2/8/22 2:02	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.016	0.035	0.012	J		0.11	0.24	0.085	0.7	2/8/22 2:02	BRF
1,4-Dioxane	ND	0.35	0.024			ND	1.3	0.086	0.7	2/8/22 2:02	BRF
Ethanol	8.2	1.4	0.42			15	2.6	0.80	0.7	2/8/22 2:02	BRF
Ethyl Acetate	ND	0.35	0.21	L-03, V-34		ND UJ	1.3	0.75	0.7	2/8/22 2:02	BRF
Ethylbenzene	0.10	0.035	0.0090			0.44	0.15	0.039	0.7	2/8/22 2:02	BRF
4-Ethyltoluene	0.018	0.035	0.011	J		0.089	0.17	0.053	0.7	2/8/22 2:02	BRF
Heptane	0.12	0.035	0.014			0.48	0.14	0.059	0.7	2/8/22 2:02	BRF
Hexachlorobutadiene	ND	0.035	0.019	L-03, V-05		ND UJ	0.37	0.21	0.7	2/8/22 2:02	BRF
Hexane	ND	1.4	0.12			ND	4.9	0.41	0.7	2/8/22 2:02	BRF
2-Hexanone (MBK)	ND	0.070	0.018			ND UJ	0.29	0.072	0.7	2/8/22 2:02	BRF
Isopropanol	ND	1.4	0.32			ND	3.4	0.79	0.7	2/8/22 2:02	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.014			ND	0.13	0.050	0.7	2/8/22 2:02	BRF
Methylene Chloride	0.21	0.35	0.080	J		0.73	1.2	0.28	0.7	2/8/22 2:02	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018			ND	0.14	0.074	0.7	2/8/22 2:02	BRF
Naphthalene	ND	0.035	0.022			ND	0.18	0.12	0.7	2/8/22 2:02	BRF
Propene	ND	1.4	0.12			ND	2.4	0.20	0.7	2/8/22 2:02	BRF
Styrene	0.016	0.035	0.011	J		0.069	0.15	0.047	0.7	2/8/22 2:02	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.011			ND	0.24	0.074	0.7	2/8/22 2:02	BRF

ALH 2/17/2022

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ANALYTICAL RESULTS

Project Location: Meeker SVI
 Date Received: 1/27/2022
Field Sample #: 22A1521-OA-11
Sample ID: 22A1521-08
 Sample Matrix: Ambient Air
 Sampled: 1/25/2022 13:18

Sample Description/Location: H-11
 Sub Description/Location:
 Canister ID: 1169
 Canister Size: 6 liter
 Flow Controller ID: 3686
 Sample Type: 24 hr

Work Order: 22A1521
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -7.8
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	0.041	0.035	0.010		0.28	0.24	0.070	0.7	2/8/22	2:02	BRF
Tetrahydrofuran	ND	0.35	0.086		ND	1.0	0.25	0.7	2/8/22	2:02	BRF
Toluene	0.78	0.035	0.015		3.0	0.13	0.055	0.7	2/8/22	2:02	BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024	L-03, V-04, V-05	ND UJ	0.52	0.18	0.7	2/8/22	2:02	BRF
1,1,1-Trichloroethane	ND	0.035	0.016		ND	0.19	0.088	0.7	2/8/22	2:02	BRF
1,1,2-Trichloroethane	ND	0.035	0.014		ND	0.19	0.076	0.7	2/8/22	2:02	BRF
Trichloroethylene	ND	0.035	0.013		ND	0.19	0.070	0.7	2/8/22	2:02	BRF
Trichlorofluoromethane (Freon 11)	0.22	0.14	0.014		1.2	0.79	0.078	0.7	2/8/22	2:02	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.076	0.14	0.012	J	0.58	1.1	0.095	0.7	2/8/22	2:02	BRF
1,2,4-Trimethylbenzene	0.041	0.035	0.010		0.20	0.17	0.051	0.7	2/8/22	2:02	BRF
1,3,5-Trimethylbenzene	0.019	0.035	0.0096	J	0.093	0.17	0.047	0.7	2/8/22	2:02	BRF
Vinyl Acetate	ND	0.70	0.066	V-05	ND UJ	2.5	0.23	0.7	2/8/22	2:02	BRF
Vinyl Chloride	ND	0.035	0.014		ND	0.089	0.035	0.7	2/8/22	2:02	BRF
m&p-Xylene	0.29	0.070	0.019		1.3	0.30	0.084	0.7	2/8/22	2:02	BRF
o-Xylene	0.10	0.035	0.0094		0.45	0.15	0.041	0.7	2/8/22	2:02	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	87.1	70-130	2/8/22 2:02

ALH 2/17/2022

VALIDATA

Chemical Services, Inc.

2159 Wynnton Pointe, Duluth, GA 30097

(770) 232-0130

(770) 232-5082 (Fax)

www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY: AECOM Technical Services Northeast, Inc.
PROJECT NAME: Meeker Ave. SVI
CONTRACTED LAB: con-test Analytical Laboratory
QA/QC LEVEL: DUSR
ANALYTICAL METHOD(S): EPA Method TO-15
VALIDATION GUIDELINES: USEPA Region II data validation SOP ((VOA-TO15 HW-31 Rev.6, Analysis of VOCs in Air contained in Canisters by Method TO-15, September 2016), Professional Judgment

SAMPLE MATRIX: Air
TYPES OF ANALYSES: Volatile Organic Compounds (VOC)
DATA REVIEWER(S): Amy L. Hogan
SDG NUMBER: 22A1637
SAMPLING DATE(S): January 25-27, 2022

SAMPLES:

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>VOC</u>
224121-SS-10	22A1637-01	X
224121-IA-10	22A1637-02	X
224121-IA-10DL	22A1637-02DL	X
224121-SS-118	22A1637-03	X
224121-SS-118MD	22A1637-03MD	X
224121-IA-118	22A1637-04	X
224121-IA-118DL	22A1637-04DL	X
FD-012622	22A1637-05	X
FD-012622DL	22A1637-05DL	X
224121-OA-118	22A1637-06	X
224121-OA-118DL	22A1637-06DL	X
224121-SS-119	22A1637-07	X
224121-SS-119DL	22A1637-07DL	X
224121-IA-119	22A1637-08	X
224121-IA-119DL	22A1637-08DL	X
FD-012722	22A1637-09	X
FD-012722DL	22A1637-09DL	X
224121-SS-120	22A1637-10	X
224121-IA-120	22A1637-11	X

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>VOC</u>
224121-IA-120DL	22A1637-11DL	X
224121-OA-120	22A1637-12	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Con-test Analytical Laboratory – 22A1637

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per EPA Method TO-15.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The Percent Relative Standard Deviation (%RSD) for the standards analyzed on 8/20/21 on instrument SYSJ was 39.6% for 1,2,4-trichlorobenzene, which exceeded the 30% QC limit. The listed compound was not a target compound for the associated samples, so no data qualification was necessary.

Initial Calibration Verification:

The Percent Differences (%Ds) for the standards run on 8/21/21 at 02:04 on instrument SYSJ exceeded the 30% QC limit for the following compounds:

Vinyl acetate	-32.9%
Ethyl acetate	34.7%

Since the listed compounds were not target compounds for the associated samples, no data

qualification was necessary.

The Percent Differences (%Ds) for the standards run on 12/8/21 at 16:58 on instrument SYSG exceeded the 30% QC limit for the following compounds:

Vinyl acetate	-39.4%
Ethyl acetate	35.4%

The positive and non-detect results for these compounds in the SDG samples were qualified as estimated (J) and (UJ).

Continuing Calibration:

The Percent Differences (%Ds) for the standards run on 2/8/22 at 10:16 on instrument SYSG exceeded the 30% QC limit for the following compounds:

Naphthalene	38.8%
Vinyl acetate	-36.8%

All positive and non-detect results for these compounds in the initial analyses of the SDG samples were qualified as estimated (J) and (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Canister Blanks:

There were no detects in the canister check blanks for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

Three LCS were analyzed by the laboratory for this SDG. The Percent Recoveries (%Rs) for LCS B300800-BS1 were outside the 70-130% QC limits for the following compounds:

Ethyl acetate	63.2%
Naphthalene	137%

The positive results for naphthalene for the SDG samples were qualified as estimated (J) and the positive and non-detect results for ethyl acetate for the SDG samples were qualified as estimated (J) and (UJ).

IX.) Matrix Duplicate:

Matrix Duplicate analysis was performed using SDG sample 224121-SS-118. All criteria were met. No data qualification was necessary.

X.) Field Duplicates:

Two sets of field samples (224121-IA-118 / FD-012622 and 224121-IA-119 / FD-012722) were identified as part of this SDG. The calculable Relative Percent Differences (RPDs) for the first set were:

Acetone	3.6%
Benzene	8.7%
2-butanone	116%
Carbon tetrachloride	5.7%
Chloroform	0%
Chloromethane	14%
1,4-dichlorobenzene	8.0%
Freon 12	9.5%
Ethanol	12%
Ethylbenzene	4.7%
4-ethyltoluene	5.1%
Heptane	28%
Hexane	29%
Isopropanol	11%
Methylene chloride	1.4%
4-methyl-2-pentanone	64%
Naphthalene	12%
Styrene	3.4%
Tetrachloroethylene	5.7%
Toluene	3.6%
1,1,1-trichloroethane	4.4%
Freon 11	7.4%
Freon 113	72%
1,2,4-trimethylbenzene	6.8%
1,3,5-trimethylbenzene	5.1%
M,p-xylene	8.7%
o-xylene	8.7%

The RPDs for 2-butanone, 4-methyl-2-pentanone and Freon 113 exceeded the 50% QC limit. Citing the exceedances and professional judgment, the validator has qualified the positive results for these compounds in the two samples as estimated (J).

The calculable Relative Percent Differences (RPDs) for the second set were:

Acetone	0%
Benzene	0%
1,3-butadiene	4.3%
2-butanone	4.8%
Chloromethane	0%
Cyclohexane	0%
Freon 12	20%
Ethanol	0%
Ethylbenzene	0%
4-ethyltoluene	102%
Heptane	0%
Hexane	2.0%
Isopropanol	4.4%
Methylene chloride	0%
4-methyl-2-pentanone	1.9%
Naphthalene	14%
Styrene	4.7%
Tetrachloroethylene	76%
Tetrahydrofuran	0%
Toluene	2.1%
Freon 11	2.8%
Freon 113	4.9%
1,2,4-trimethylbenzene	137%
1,3,5-trimethylbenzene	136%
M,p-xylene	0%
o-xylene	3.0%

The RPDs for 4-ethyltoluene, tetrachloroethylene, 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene exceeded the 50% QC limit. Citing the exceedances and professional judgment, the validator has qualified the positive results for these compounds in the two samples as estimated (J).

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

The initial analysis acetone results for samples 224121-IA-118, FD-012622, 224121-SS-119,

224121-IA-119, FD-012722 and 224121-IA-120; ethanol results for samples 224121-IA-10, 224121-OA-118, 224121-SS-119, 224121-IA-119, FD-012722 and 22421-IA-120; hexane for sample 224121-IA-120; and toluene for samples 224121-IA-119, FD-012722 and 224121-IA-120 exceeded the linear calibration range. A dilution analysis was performed for each of the listed samples with all calibration criteria met. Since the Form I for each sample was a composite of the results, no data qualification was necessary.

All other CRQL criteria were met.

Appendix A

Qualified Form Is

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown

Date Received: 1/28/2022

Field Sample #: 22A121-SS-10

Sample ID: 22A1637-01

Sample Matrix: Sub Slab

Sampled: 1/25/2022 15:06

Sample Description/Location: H-10

Sub Description/Location:

Canister ID: 1961

Canister Size: 6 liter

Flow Controller ID: 3355

Sample Type: 24 hr

Work Order: 22A1637

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -1

Receipt Vacuum(in Hg): -0.2

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: >20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed		
Acetone	37	4.0	2.4			87	9.5	5.7	2	2/8/22 23:38	BRF
Benzene	0.072	0.10	0.024	J		0.23	0.32	0.077	2	2/8/22 23:38	BRF
Benzyl chloride	ND	0.10	0.045			ND	0.52	0.23	2	2/8/22 23:38	BRF
Bromodichloromethane	ND	0.10	0.036			ND	0.67	0.24	2	2/8/22 23:38	BRF
Bromoform	ND	0.10	0.036			ND	1.0	0.37	2	2/8/22 23:38	BRF
Bromomethane	ND	0.10	0.082			ND	0.39	0.32	2	2/8/22 23:38	BRF
1,3-Butadiene	ND	0.10	0.070			ND	0.22	0.15	2	2/8/22 23:38	BRF
2-Butanone (MEK)	3.5	4.0	0.33	J		10	12	0.98	2	2/8/22 23:38	BRF
Carbon Disulfide	ND	1.0	0.25			ND	3.1	0.79	2	2/8/22 23:38	BRF
Carbon Tetrachloride	0.13	0.10	0.030			0.79	0.63	0.19	2	2/8/22 23:38	BRF
Chlorobenzene	ND	0.10	0.030			ND	0.46	0.14	2	2/8/22 23:38	BRF
Chloroethane	8.3	0.10	0.073			22	0.26	0.19	2	2/8/22 23:38	BRF
Chloroform	0.70	0.10	0.024			3.4	0.49	0.12	2	2/8/22 23:38	BRF
Chloromethane	0.14	0.20	0.041	J		0.28	0.41	0.085	2	2/8/22 23:38	BRF
Cyclohexane	ND	0.10	0.066			ND	0.34	0.23	2	2/8/22 23:38	BRF
Dibromochloromethane	ND	0.10	0.034			ND	0.85	0.29	2	2/8/22 23:38	BRF
1,2-Dibromoethane (EDB)	ND	0.10	0.028			ND	0.77	0.22	2	2/8/22 23:38	BRF
1,2-Dichlorobenzene	ND	0.10	0.037			ND	0.60	0.22	2	2/8/22 23:38	BRF
1,3-Dichlorobenzene	ND	0.10	0.024			ND	0.60	0.15	2	2/8/22 23:38	BRF
1,4-Dichlorobenzene	ND	0.10	0.041			ND	0.60	0.24	2	2/8/22 23:38	BRF
Dichlorodifluoromethane (Freon 12)	0.35	0.10	0.031			1.8	0.49	0.15	2	2/8/22 23:38	BRF
1,1-Dichloroethane	0.52	0.10	0.034			2.1	0.40	0.14	2	2/8/22 23:38	BRF
1,2-Dichloroethane	0.41	0.10	0.037			1.6	0.40	0.15	2	2/8/22 23:38	BRF
1,1-Dichloroethylene	0.056	0.10	0.039	J		0.22	0.40	0.16	2	2/8/22 23:38	BRF
cis-1,2-Dichloroethylene	ND	0.10	0.034			ND	0.40	0.13	2	2/8/22 23:38	BRF
trans-1,2-Dichloroethylene	ND	0.10	0.035			ND	0.40	0.14	2	2/8/22 23:38	BRF
1,2-Dichloropropane	ND	0.10	0.036			ND	0.46	0.17	2	2/8/22 23:38	BRF
cis-1,3-Dichloropropene	ND	0.10	0.046			ND	0.45	0.21	2	2/8/22 23:38	BRF
trans-1,3-Dichloropropene	ND	0.10	0.031			ND	0.45	0.14	2	2/8/22 23:38	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.035			ND	0.70	0.24	2	2/8/22 23:38	BRF
1,4-Dioxane	ND	1.0	0.068			ND	3.6	0.24	2	2/8/22 23:38	BRF
Ethanol	22	4.0	1.2			42	7.5	2.3	2	2/8/22 23:38	BRF
Ethyl Acetate	1.0	1.0	0.59	L-03, V-34		3.7 J	3.6	2.1	2	2/8/22 23:38	BRF
Ethylbenzene	ND	0.10	0.026			ND	0.43	0.11	2	2/8/22 23:38	BRF
4-Ethyltoluene	ND	0.10	0.031			ND	0.49	0.15	2	2/8/22 23:38	BRF
Heptane	0.24	0.10	0.041			0.99	0.41	0.17	2	2/8/22 23:38	BRF
Hexachlorobutadiene	ND	0.10	0.056			ND	1.1	0.59	2	2/8/22 23:38	BRF
Hexane	0.76	4.0	0.33	J		2.7	14	1.2	2	2/8/22 23:38	BRF
2-Hexanone (MBK)	ND	0.10	0.050			ND	0.41	0.21	2	2/8/22 23:38	BRF
Isopropanol	1.0	4.0	0.92	J		2.6	9.8	2.3	2	2/8/22 23:38	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.040			ND	0.36	0.14	2	2/8/22 23:38	BRF
Methylene Chloride	0.30	1.0	0.23	J		1.0	3.5	0.80	2	2/8/22 23:38	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.051			ND	0.41	0.21	2	2/8/22 23:38	BRF
Naphthalene	ND	0.10	0.063			ND UJ	0.52	0.33	2	2/8/22 23:38	BRF
Propene	ND	4.0	0.33			ND	6.9	0.58	2	2/8/22 23:38	BRF
Styrene	ND	0.10	0.032			ND	0.43	0.13	2	2/8/22 23:38	BRF
1,1,2,2-Tetrachloroethane	ND	0.10	0.031			ND	0.69	0.21	2	2/8/22 23:38	BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdow

Date Received: 1/28/2022

Field Sample #: 22A1637-01

Sample ID: 22A1637-01

Sample Matrix: Sub Slab

Sampled: 1/25/2022 15:06

Sample Description/Location: H-10

Sub Description/Location:

Canister ID: 1961

Canister Size: 6 liter

Flow Controller ID: 3355

Sample Type: 24 hr

Work Order: 22A1637

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -1

Receipt Vacuum(in Hg): -0.2

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: >20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	87	0.10	0.030		590	0.68	0.20	2	2/8/22 23:38	BRF
Tetrahydrofuran	ND	1.0	0.25		ND	2.9	0.73	2	2/8/22 23:38	BRF
Toluene	0.81	0.10	0.042		3.0	0.38	0.16	2	2/8/22 23:38	BRF
1,2,4-Trichlorobenzene	ND	0.10	0.070		ND	0.74	0.52	2	2/8/22 23:38	BRF
1,1,1-Trichloroethane	1.5	0.10	0.046		8.0	0.55	0.25	2	2/8/22 23:38	BRF
1,1,2-Trichloroethane	ND	0.10	0.040		ND	0.55	0.22	2	2/8/22 23:38	BRF
Trichloroethylene	4.9	0.10	0.037		26	0.54	0.20	2	2/8/22 23:38	BRF
Trichlorofluoromethane (Freon 11)	0.32	0.40	0.040	J	1.8	2.2	0.22	2	2/8/22 23:38	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.27	0.40	0.035	J	2.1	3.1	0.27	2	2/8/22 23:38	BRF
1,2,4-Trimethylbenzene	ND	0.10	0.030		ND	0.49	0.15	2	2/8/22 23:38	BRF
1,3,5-Trimethylbenzene	ND	0.10	0.027		ND	0.49	0.13	2	2/8/22 23:38	BRF
Vinyl Acetate	ND	2.0	0.19	V-05	ND	7.0	0.66	2	2/8/22 23:38	BRF
Vinyl Chloride	0.79	0.10	0.040		2.0	0.26	0.10	2	2/8/22 23:38	BRF
m&p-Xylene	ND	0.20	0.055		ND	0.87	0.24	2	2/8/22 23:38	BRF
o-Xylene	ND	0.10	0.027		ND	0.43	0.12	2	2/8/22 23:38	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	102	70-130	2/8/22 23:38

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 1/28/2022
Field Sample #: 224121-1A-10
Sample ID: 22A1637-02
 Sample Matrix: Indoor air
 Sampled: 1/25/2022 15:07

Sample Description/Location: H-10
 Sub Description/Location:
 Canister ID: 1022
 Canister Size: 6 liter
 Flow Controller ID: 3462
 Sample Type: 24 hr

Work Order: 22A1637
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -9.6
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	9.6	1.4	0.85		23	3.3	2.0	0.702	2/8/22 15:23		BRF
Benzene	0.22	0.035	0.0084		0.70	0.11	0.027	0.702	2/8/22 15:23		BRF
Benzyl chloride	ND	0.035	0.016		ND	0.18	0.082	0.702	2/8/22 15:23		BRF
Bromodichloromethane	ND	0.035	0.013		ND	0.24	0.086	0.702	2/8/22 15:23		BRF
Bromoform	ND	0.035	0.013		ND	0.36	0.13	0.702	2/8/22 15:23		BRF
Bromomethane	ND	0.035	0.029		ND	0.14	0.11	0.702	2/8/22 15:23		BRF
1,3-Butadiene	ND	0.035	0.025		ND	0.078	0.054	0.702	2/8/22 15:23		BRF
2-Butanone (MEK)	0.50	1.4	0.12	J	1.5	4.1	0.34	0.702	2/8/22 15:23		BRF
Carbon Disulfide	ND	0.35	0.089		ND	1.1	0.28	0.702	2/8/22 15:23		BRF
Carbon Tetrachloride	0.053	0.035	0.011		0.34	0.22	0.067	0.702	2/8/22 15:23		BRF
Chlorobenzene	ND	0.035	0.010		ND	0.16	0.048	0.702	2/8/22 15:23		BRF
Chloroethane	ND	0.035	0.026		ND	0.093	0.068	0.702	2/8/22 15:23		BRF
Chloroform	0.051	0.035	0.0085		0.25	0.17	0.041	0.702	2/8/22 15:23		BRF
Chloromethane	0.47	0.070	0.014		0.97	0.14	0.030	0.702	2/8/22 15:23		BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.080	0.702	2/8/22 15:23		BRF
Dibromochloromethane	ND	0.035	0.012		ND	0.30	0.10	0.702	2/8/22 15:23		BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.0098		ND	0.27	0.075	0.702	2/8/22 15:23		BRF
1,2-Dichlorobenzene	ND	0.035	0.013		ND	0.21	0.078	0.702	2/8/22 15:23		BRF
1,3-Dichlorobenzene	ND	0.035	0.0085		ND	0.21	0.051	0.702	2/8/22 15:23		BRF
1,4-Dichlorobenzene	ND	0.035	0.014		ND	0.21	0.086	0.702	2/8/22 15:23		BRF
Dichlorodifluoromethane (Freon 12)	0.19	0.035	0.011		0.95	0.17	0.053	0.702	2/8/22 15:23		BRF
1,1-Dichloroethane	ND	0.035	0.012		ND	0.14	0.048	0.702	2/8/22 15:23		BRF
1,2-Dichloroethane	ND	0.035	0.013		ND	0.14	0.052	0.702	2/8/22 15:23		BRF
1,1-Dichloroethylene	ND	0.035	0.014		ND	0.14	0.055	0.702	2/8/22 15:23		BRF
cis-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.047	0.702	2/8/22 15:23		BRF
trans-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.049	0.702	2/8/22 15:23		BRF
1,2-Dichloropropane	ND	0.035	0.013		ND	0.16	0.059	0.702	2/8/22 15:23		BRF
cis-1,3-Dichloropropene	ND	0.035	0.016		ND	0.16	0.074	0.702	2/8/22 15:23		BRF
trans-1,3-Dichloropropene	ND	0.035	0.011		ND	0.16	0.049	0.702	2/8/22 15:23		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.012		ND	0.25	0.085	0.702	2/8/22 15:23		BRF
1,4-Dioxane	ND	0.35	0.024		ND	1.3	0.086	0.702	2/8/22 15:23		BRF
Ethanol	260	60	26		480	110	50	30	2/10/22 12:36		BRF
Ethyl Acetate	0.69	0.35	0.21	L-03, V-34	2.5 J	1.3	0.75	0.702	2/8/22 15:23		BRF
Ethylbenzene	0.12	0.035	0.0091		0.53	0.15	0.039	0.702	2/8/22 15:23		BRF
4-Ethyltoluene	0.026	0.035	0.011	J	0.13	0.17	0.053	0.702	2/8/22 15:23		BRF
Heptane	0.29	0.035	0.014		1.2	0.14	0.059	0.702	2/8/22 15:23		BRF
Hexachlorobutadiene	ND	0.035	0.020		ND	0.37	0.21	0.702	2/8/22 15:23		BRF
Hexane	0.63	1.4	0.12	J	2.2	4.9	0.41	0.702	2/8/22 15:23		BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.702	2/8/22 15:23		BRF
Isopropanol	1.2	1.4	0.32	J	2.9	3.4	0.79	0.702	2/8/22 15:23		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.014		ND	0.13	0.051	0.702	2/8/22 15:23		BRF
Methylene Chloride	1.4	0.35	0.081		4.8	1.2	0.28	0.702	2/8/22 15:23		BRF
4-Methyl-2-pentanone (MIBK)	0.048	0.035	0.018		0.20	0.14	0.074	0.702	2/8/22 15:23		BRF
Naphthalene	0.048	0.035	0.022	L-05, V-06	0.25 J	0.18	0.12	0.702	2/8/22 15:23		BRF
Propene	ND	1.4	0.12		ND	2.4	0.20	0.702	2/8/22 15:23		BRF
Styrene	0.042	0.035	0.011		0.18	0.15	0.047	0.702	2/8/22 15:23		BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.011		ND	0.24	0.074	0.702	2/8/22 15:23		BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 1/28/2022
Field Sample #: 22A1637-02
Sample ID: 22A1637-02
 Sample Matrix: Indoor air
 Sampled: 1/25/2022 15:07

Sample Description/Location: H-10
 Sub Description/Location:
 Canister ID: 1022
 Canister Size: 6 liter
 Flow Controller ID: 3462
 Sample Type: 24 hr

Work Order: 22A1637
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -9.6
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	0.051	0.035	0.010		0.34	0.24	0.070	0.702	2/8/22 15:23	BRF
Tetrahydrofuran	ND	0.35	0.087		ND	1.0	0.26	0.702	2/8/22 15:23	BRF
Toluene	0.68	0.035	0.015		2.6	0.13	0.055	0.702	2/8/22 15:23	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND	0.26	0.18	0.702	2/8/22 15:23	BRF
1,1,1-Trichloroethane	ND	0.035	0.016		ND	0.19	0.088	0.702	2/8/22 15:23	BRF
1,1,2-Trichloroethane	ND	0.035	0.014		ND	0.19	0.076	0.702	2/8/22 15:23	BRF
Trichloroethylene	ND	0.035	0.013		ND	0.19	0.070	0.702	2/8/22 15:23	BRF
Trichlorofluoromethane (Freon 11)	0.20	0.14	0.014		1.1	0.79	0.078	0.702	2/8/22 15:23	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.054	0.14	0.012	J	0.41	1.1	0.095	0.702	2/8/22 15:23	BRF
1,2,4-Trimethylbenzene	0.088	0.035	0.010		0.43	0.17	0.051	0.702	2/8/22 15:23	BRF
1,3,5-Trimethylbenzene	0.023	0.035	0.0096	J	0.11	0.17	0.047	0.702	2/8/22 15:23	BRF
Vinyl Acetate	ND	0.70	0.066	V-05	ND UJ	2.5	0.23	0.702	2/8/22 15:23	BRF
Vinyl Chloride	ND	0.035	0.014		ND	0.090	0.036	0.702	2/8/22 15:23	BRF
m&p-Xylene	0.41	0.070	0.019		1.8	0.30	0.084	0.702	2/8/22 15:23	BRF
o-Xylene	0.13	0.035	0.0094		0.58	0.15	0.041	0.702	2/8/22 15:23	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	100	70-130	2/8/22 15:23
4-Bromofluorobenzene (1)	79.0	70-130	2/10/22 12:36

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 1/28/2022
Field Sample #: 224121-SS-118
Sample ID: 22A1637-03
 Sample Matrix: Sub Slab
 Sampled: 1/26/2022 11:23

Sample Description/Location: H-118
 Sub Description/Location:
 Canister ID: 1481
 Canister Size: 6 liter
 Flow Controller ID: 3475
 Sample Type: 24 hr

Work Order: 22A1637
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -8.1
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed		
Acetone	14	4.0	2.4			34	9.5	5.7	2	2/8/22 21:34	BRF
Benzene	0.076	0.10	0.024	J		0.24	0.32	0.077	2	2/8/22 21:34	BRF
Benzyl chloride	ND	0.10	0.045			ND	0.52	0.23	2	2/8/22 21:34	BRF
Bromodichloromethane	ND	0.10	0.036			ND	0.67	0.24	2	2/8/22 21:34	BRF
Bromoform	ND	0.10	0.036			ND	1.0	0.37	2	2/8/22 21:34	BRF
Bromomethane	ND	0.10	0.082			ND	0.39	0.32	2	2/8/22 21:34	BRF
1,3-Butadiene	ND	0.10	0.070			ND	0.22	0.15	2	2/8/22 21:34	BRF
2-Butanone (MEK)	1.3	4.0	0.33	J		3.9	12	0.98	2	2/8/22 21:34	BRF
Carbon Disulfide	ND	1.0	0.25			ND	3.1	0.79	2	2/8/22 21:34	BRF
Carbon Tetrachloride	0.038	0.10	0.030	J		0.24	0.63	0.19	2	2/8/22 21:34	BRF
Chlorobenzene	ND	0.10	0.030			ND	0.46	0.14	2	2/8/22 21:34	BRF
Chloroethane	2.2	0.10	0.073			5.8	0.26	0.19	2	2/8/22 21:34	BRF
Chloroform	0.080	0.10	0.024	J		0.39	0.49	0.12	2	2/8/22 21:34	BRF
Chloromethane	0.45	0.20	0.041			0.93	0.41	0.085	2	2/8/22 21:34	BRF
Cyclohexane	ND	0.10	0.066			ND	0.34	0.23	2	2/8/22 21:34	BRF
Dibromochloromethane	ND	0.10	0.034			ND	0.85	0.29	2	2/8/22 21:34	BRF
1,2-Dibromoethane (EDB)	ND	0.10	0.028			ND	0.77	0.22	2	2/8/22 21:34	BRF
1,2-Dichlorobenzene	ND	0.10	0.037			ND	0.60	0.22	2	2/8/22 21:34	BRF
1,3-Dichlorobenzene	ND	0.10	0.024			ND	0.60	0.15	2	2/8/22 21:34	BRF
1,4-Dichlorobenzene	ND	0.10	0.041			ND	0.60	0.24	2	2/8/22 21:34	BRF
Dichlorodifluoromethane (Freon 12)	0.32	0.10	0.031			1.6	0.49	0.15	2	2/8/22 21:34	BRF
1,1-Dichloroethane	0.13	0.10	0.034			0.53	0.40	0.14	2	2/8/22 21:34	BRF
1,2-Dichloroethane	0.11	0.10	0.037			0.43	0.40	0.15	2	2/8/22 21:34	BRF
1,1-Dichloroethylene	ND	0.10	0.039			ND	0.40	0.16	2	2/8/22 21:34	BRF
cis-1,2-Dichloroethylene	ND	0.10	0.034			ND	0.40	0.13	2	2/8/22 21:34	BRF
trans-1,2-Dichloroethylene	ND	0.10	0.035			ND	0.40	0.14	2	2/8/22 21:34	BRF
1,2-Dichloropropane	ND	0.10	0.036			ND	0.46	0.17	2	2/8/22 21:34	BRF
cis-1,3-Dichloropropene	ND	0.10	0.046			ND	0.45	0.21	2	2/8/22 21:34	BRF
trans-1,3-Dichloropropene	ND	0.10	0.031			ND	0.45	0.14	2	2/8/22 21:34	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.035			ND	0.70	0.24	2	2/8/22 21:34	BRF
1,4-Dioxane	ND	1.0	0.068			ND	3.6	0.24	2	2/8/22 21:34	BRF
Ethanol	8.7	4.0	1.2			16	7.5	2.3	2	2/8/22 21:34	BRF
Ethyl Acetate	ND	1.0	0.59	L-03, V-34		ND UJ	3.6	2.1	2	2/8/22 21:34	BRF
Ethylbenzene	0.43	0.10	0.026			1.9	0.43	0.11	2	2/8/22 21:34	BRF
4-Ethyltoluene	ND	0.10	0.031			ND	0.49	0.15	2	2/8/22 21:34	BRF
Heptane	0.12	0.10	0.041			0.48	0.41	0.17	2	2/8/22 21:34	BRF
Hexachlorobutadiene	ND	0.10	0.056			ND	1.1	0.59	2	2/8/22 21:34	BRF
Hexane	ND	4.0	0.33			ND	14	1.2	2	2/8/22 21:34	BRF
2-Hexanone (MBK)	ND	0.10	0.050			ND	0.41	0.21	2	2/8/22 21:34	BRF
Isopropanol	ND	4.0	0.92			ND	9.8	2.3	2	2/8/22 21:34	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.040			ND	0.36	0.14	2	2/8/22 21:34	BRF
Methylene Chloride	0.36	1.0	0.23	J		1.2	3.5	0.80	2	2/8/22 21:34	BRF
4-Methyl-2-pentanone (MIBK)	0.098	0.10	0.051	J		0.40	0.41	0.21	2	2/8/22 21:34	BRF
Naphthalene	ND	0.10	0.063			ND UJ	0.52	0.33	2	2/8/22 21:34	BRF
Propene	ND	4.0	0.33			ND	6.9	0.58	2	2/8/22 21:34	BRF
Styrene	ND	0.10	0.032			ND	0.43	0.13	2	2/8/22 21:34	BRF
1,1,2,2-Tetrachloroethane	ND	0.10	0.031			ND	0.69	0.21	2	2/8/22 21:34	BRF

ALH 2/17/2022

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 1/28/2022
Field Sample #: 22A1637-03
Sample ID: 22A1637-03
 Sample Matrix: Sub Slab
 Sampled: 1/26/2022 11:23

Sample Description/Location: H-118
 Sub Description/Location:
 Canister ID: 1481
 Canister Size: 6 liter
 Flow Controller ID: 3475
 Sample Type: 24 hr

Work Order: 22A1637
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -8.1
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	1.5	0.10	0.030		10	0.68	0.20	2	2/8/22 21:34		BRF
Tetrahydrofuran	ND	1.0	0.25		ND	2.9	0.73	2	2/8/22 21:34		BRF
Toluene	5.3	0.10	0.042		20	0.38	0.16	2	2/8/22 21:34		BRF
1,2,4-Trichlorobenzene	ND	0.10	0.070		ND	0.74	0.52	2	2/8/22 21:34		BRF
1,1,1-Trichloroethane	0.11	0.10	0.046		0.59	0.55	0.25	2	2/8/22 21:34		BRF
1,1,2-Trichloroethane	ND	0.10	0.040		ND	0.55	0.22	2	2/8/22 21:34		BRF
Trichloroethylene	0.058	0.10	0.037	J	0.31	0.54	0.20	2	2/8/22 21:34		BRF
Trichlorofluoromethane (Freon 11)	0.29	0.40	0.040	J	1.6	2.2	0.22	2	2/8/22 21:34		BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.062	0.40	0.035	J	0.48	3.1	0.27	2	2/8/22 21:34		BRF
1,2,4-Trimethylbenzene	ND	0.10	0.030		ND	0.49	0.15	2	2/8/22 21:34		BRF
1,3,5-Trimethylbenzene	ND	0.10	0.027		ND	0.49	0.13	2	2/8/22 21:34		BRF
Vinyl Acetate	ND	2.0	0.19	V-05	ND UJ	7.0	0.66	2	2/8/22 21:34		BRF
Vinyl Chloride	0.21	0.10	0.040		0.54	0.26	0.10	2	2/8/22 21:34		BRF
m&p-Xylene	1.9	0.20	0.055		8.1	0.87	0.24	2	2/8/22 21:34		BRF
o-Xylene	0.53	0.10	0.027		2.3	0.43	0.12	2	2/8/22 21:34		BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	101	70-130	2/8/22 21:34

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 1/28/2022
Field Sample #: 22A121-IA-118
Sample ID: 22A1637-04
 Sample Matrix: Indoor air
 Sampled: 1/26/2022 11:26

Sample Description/Location: H-118
 Sub Description/Location:
 Canister ID: 1804
 Canister Size: 6 liter
 Flow Controller ID: 3539
 Sample Type: 24 hr

Work Order: 22A1637
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -8.5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	120	60	36		280	140	86	30	2/10/22 13:00		BRF
Benzene	0.36	0.035	0.0084		1.2	0.11	0.027	0.702	2/8/22 16:10		BRF
Benzyl chloride	ND	0.035	0.016		ND	0.18	0.082	0.702	2/8/22 16:10		BRF
Bromodichloromethane	ND	0.035	0.013		ND	0.24	0.086	0.702	2/8/22 16:10		BRF
Bromoform	ND	0.035	0.013		ND	0.36	0.13	0.702	2/8/22 16:10		BRF
Bromomethane	ND	0.035	0.029		ND	0.14	0.11	0.702	2/8/22 16:10		BRF
1,3-Butadiene	ND	0.035	0.025		ND	0.078	0.054	0.702	2/8/22 16:10		BRF
2-Butanone (MEK)	0.23	1.4	0.12	J	0.69 J	4.1	0.34	0.702	2/8/22 16:10		BRF
Carbon Disulfide	ND	0.35	0.089		ND	1.1	0.28	0.702	2/8/22 16:10		BRF
Carbon Tetrachloride	0.058	0.035	0.011		0.36	0.22	0.067	0.702	2/8/22 16:10		BRF
Chlorobenzene	ND	0.035	0.010		ND	0.16	0.048	0.702	2/8/22 16:10		BRF
Chloroethane	ND	0.035	0.026		ND	0.093	0.068	0.702	2/8/22 16:10		BRF
Chloroform	0.025	0.035	0.0085	J	0.12	0.17	0.041	0.702	2/8/22 16:10		BRF
Chloromethane	0.42	0.070	0.014		0.87	0.14	0.030	0.702	2/8/22 16:10		BRF
Cyclohexane	0.12	0.035	0.023		0.42	0.12	0.080	0.702	2/8/22 16:10		BRF
Dibromochloromethane	ND	0.035	0.012		ND	0.30	0.10	0.702	2/8/22 16:10		BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.0098		ND	0.27	0.075	0.702	2/8/22 16:10		BRF
1,2-Dichlorobenzene	ND	0.035	0.013		ND	0.21	0.078	0.702	2/8/22 16:10		BRF
1,3-Dichlorobenzene	ND	0.035	0.0085		ND	0.21	0.051	0.702	2/8/22 16:10		BRF
1,4-Dichlorobenzene	0.021	0.035	0.014	J	0.13	0.21	0.086	0.702	2/8/22 16:10		BRF
Dichlorodifluoromethane (Freon 12)	0.21	0.035	0.011		1.0	0.17	0.053	0.702	2/8/22 16:10		BRF
1,1-Dichloroethane	ND	0.035	0.012		ND	0.14	0.048	0.702	2/8/22 16:10		BRF
1,2-Dichloroethane	ND	0.035	0.013		ND	0.14	0.052	0.702	2/8/22 16:10		BRF
1,1-Dichloroethylene	ND	0.035	0.014		ND	0.14	0.055	0.702	2/8/22 16:10		BRF
cis-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.047	0.702	2/8/22 16:10		BRF
trans-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.049	0.702	2/8/22 16:10		BRF
1,2-Dichloropropane	ND	0.035	0.013		ND	0.16	0.059	0.702	2/8/22 16:10		BRF
cis-1,3-Dichloropropene	ND	0.035	0.016		ND	0.16	0.074	0.702	2/8/22 16:10		BRF
trans-1,3-Dichloropropene	ND	0.035	0.011		ND	0.16	0.049	0.702	2/8/22 16:10		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.012		ND	0.25	0.085	0.702	2/8/22 16:10		BRF
1,4-Dioxane	ND	0.35	0.024		ND	1.3	0.086	0.702	2/8/22 16:10		BRF
Ethanol	13	1.4	0.43		24	2.6	0.80	0.702	2/8/22 16:10		BRF
Ethyl Acetate	ND	0.35	0.21	L-03, V-34	ND UJ	1.3	0.75	0.702	2/8/22 16:10		BRF
Ethylbenzene	5.2	0.035	0.0091		22	0.15	0.039	0.702	2/8/22 16:10		BRF
4-Ethyltoluene	0.041	0.035	0.011		0.20	0.17	0.053	0.702	2/8/22 16:10		BRF
Heptane	0.20	0.035	0.014		0.83	0.14	0.059	0.702	2/8/22 16:10		BRF
Hexachlorobutadiene	ND	0.035	0.020		ND	0.37	0.21	0.702	2/8/22 16:10		BRF
Hexane	0.44	1.4	0.12	J	1.5	4.9	0.41	0.702	2/8/22 16:10		BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.702	2/8/22 16:10		BRF
Isopropanol	1.0	1.4	0.32	J	2.5	3.4	0.79	0.702	2/8/22 16:10		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.014		ND	0.13	0.051	0.702	2/8/22 16:10		BRF
Methylene Chloride	2.1	0.35	0.081		7.1	1.2	0.28	0.702	2/8/22 16:10		BRF
4-Methyl-2-pentanone (MIBK)	0.044	0.035	0.018		0.18 J	0.14	0.074	0.702	2/8/22 16:10		BRF
Naphthalene	0.034	0.035	0.022	L-05, V-06, J	0.18 J	0.18	0.12	0.702	2/8/22 16:10		BRF
Propene	ND	1.4	0.12		ND	2.4	0.20	0.702	2/8/22 16:10		BRF
Styrene	0.021	0.035	0.011	J	0.090	0.15	0.047	0.702	2/8/22 16:10		BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.011		ND	0.24	0.074	0.702	2/8/22 16:10		BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdow
 Date Received: 1/28/2022
Field Sample #: 22A1637-04
Sample ID: 22A1637-04
 Sample Matrix: Indoor air
 Sampled: 1/26/2022 11:26

Sample Description/Location: H-118
 Sub Description/Location:
 Canister ID: 1804
 Canister Size: 6 liter
 Flow Controller ID: 3539
 Sample Type: 24 hr

Work Order: 22A1637
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -8.5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	0.026	0.035	0.010	J	0.18	0.24	0.070	0.702	2/8/22 16:10		BRF
Tetrahydrofuran	ND	0.35	0.087		ND	1.0	0.26	0.702	2/8/22 16:10		BRF
Toluene	7.5	0.035	0.015		28	0.13	0.055	0.702	2/8/22 16:10		BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND	0.26	0.18	0.702	2/8/22 16:10		BRF
1,1,1-Trichloroethane	0.13	0.035	0.016		0.70	0.19	0.088	0.702	2/8/22 16:10		BRF
1,1,2-Trichloroethane	ND	0.035	0.014		ND	0.19	0.076	0.702	2/8/22 16:10		BRF
Trichloroethylene	ND	0.035	0.013		ND	0.19	0.070	0.702	2/8/22 16:10		BRF
Trichlorofluoromethane (Freon 11)	0.22	0.14	0.014		1.3	0.79	0.078	0.702	2/8/22 16:10		BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.055	0.14	0.012	J	0.42 J	1.1	0.095	0.702	2/8/22 16:10		BRF
1,2,4-Trimethylbenzene	0.12	0.035	0.010		0.61	0.17	0.051	0.702	2/8/22 16:10		BRF
1,3,5-Trimethylbenzene	0.041	0.035	0.0096		0.20	0.17	0.047	0.702	2/8/22 16:10		BRF
Vinyl Acetate	ND	0.70	0.066	V-05	ND UJ	2.5	0.23	0.702	2/8/22 16:10		BRF
Vinyl Chloride	ND	0.035	0.014		ND	0.090	0.036	0.702	2/8/22 16:10		BRF
m&p-Xylene	27	0.070	0.019		120	0.30	0.084	0.702	2/8/22 16:10		BRF
o-Xylene	8.2	0.035	0.0094		36	0.15	0.041	0.702	2/8/22 16:10		BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	79.4	70-130	2/10/22 13:00
4-Bromofluorobenzene (1)	102	70-130	2/8/22 16:10

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 1/28/2022
Field Sample #: FD-012622
Sample ID: 22A1637-05
 Sample Matrix: Air
 Sampled: 1/26/2022 00:00

Sample Description/Location: FD-1
 Sub Description/Location:
 Canister ID: 2219
 Canister Size: 6 liter
 Flow Controller ID: 3409
 Sample Type: 24 hr

Work Order: 22A1637
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -8.5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed		
Acetone	120	60	36			270	140	86	30	2/10/22 13:24	BRF
Benzene	0.36	0.035	0.0084			1.1	0.11	0.027	0.702	2/8/22 16:57	BRF
Benzyl chloride	ND	0.035	0.016			ND	0.18	0.082	0.702	2/8/22 16:57	BRF
Bromodichloromethane	ND	0.035	0.013			ND	0.24	0.086	0.702	2/8/22 16:57	BRF
Bromoform	ND	0.035	0.013			ND	0.36	0.13	0.702	2/8/22 16:57	BRF
Bromomethane	ND	0.035	0.029			ND	0.14	0.11	0.702	2/8/22 16:57	BRF
1,3-Butadiene	ND	0.035	0.025			ND	0.078	0.054	0.702	2/8/22 16:57	BRF
2-Butanone (MEK)	0.89	1.4	0.12	J		2.6 J	4.1	0.34	0.702	2/8/22 16:57	BRF
Carbon Disulfide	ND	0.35	0.089			ND	1.1	0.28	0.702	2/8/22 16:57	BRF
Carbon Tetrachloride	0.053	0.035	0.011			0.34	0.22	0.067	0.702	2/8/22 16:57	BRF
Chlorobenzene	ND	0.035	0.010			ND	0.16	0.048	0.702	2/8/22 16:57	BRF
Chloroethane	ND	0.035	0.026			ND	0.093	0.068	0.702	2/8/22 16:57	BRF
Chloroform	0.025	0.035	0.0085	J		0.12	0.17	0.041	0.702	2/8/22 16:57	BRF
Chloromethane	0.48	0.070	0.014			1.00	0.14	0.030	0.702	2/8/22 16:57	BRF
Cyclohexane	ND	0.035	0.023			ND	0.12	0.080	0.702	2/8/22 16:57	BRF
Dibromochloromethane	ND	0.035	0.012			ND	0.30	0.10	0.702	2/8/22 16:57	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.0098			ND	0.27	0.075	0.702	2/8/22 16:57	BRF
1,2-Dichlorobenzene	ND	0.035	0.013			ND	0.21	0.078	0.702	2/8/22 16:57	BRF
1,3-Dichlorobenzene	ND	0.035	0.0085			ND	0.21	0.051	0.702	2/8/22 16:57	BRF
1,4-Dichlorobenzene	0.020	0.035	0.014	J		0.12	0.21	0.086	0.702	2/8/22 16:57	BRF
Dichlorodifluoromethane (Freon 12)	0.22	0.035	0.011			1.1	0.17	0.053	0.702	2/8/22 16:57	BRF
1,1-Dichloroethane	ND	0.035	0.012			ND	0.14	0.048	0.702	2/8/22 16:57	BRF
1,2-Dichloroethane	0.014	0.035	0.013	J		0.057	0.14	0.052	0.702	2/8/22 16:57	BRF
1,1-Dichloroethylene	ND	0.035	0.014			ND	0.14	0.055	0.702	2/8/22 16:57	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.012			ND	0.14	0.047	0.702	2/8/22 16:57	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.012			ND	0.14	0.049	0.702	2/8/22 16:57	BRF
1,2-Dichloropropane	ND	0.035	0.013			ND	0.16	0.059	0.702	2/8/22 16:57	BRF
cis-1,3-Dichloropropene	ND	0.035	0.016			ND	0.16	0.074	0.702	2/8/22 16:57	BRF
trans-1,3-Dichloropropene	ND	0.035	0.011			ND	0.16	0.049	0.702	2/8/22 16:57	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.012			ND	0.25	0.085	0.702	2/8/22 16:57	BRF
1,4-Dioxane	ND	0.35	0.024			ND	1.3	0.086	0.702	2/8/22 16:57	BRF
Ethanol	14	1.4	0.43			27	2.6	0.80	0.702	2/8/22 16:57	BRF
Ethyl Acetate	ND	0.35	0.21	L-03, V-34		ND UJ	1.3	0.75	0.702	2/8/22 16:57	BRF
Ethylbenzene	4.9	0.035	0.0091			21	0.15	0.039	0.702	2/8/22 16:57	BRF
4-Ethyltoluene	0.039	0.035	0.011			0.19	0.17	0.053	0.702	2/8/22 16:57	BRF
Heptane	0.28	0.035	0.014			1.1	0.14	0.059	0.702	2/8/22 16:57	BRF
Hexachlorobutadiene	ND	0.035	0.020			ND	0.37	0.21	0.702	2/8/22 16:57	BRF
Hexane	0.56	1.4	0.12	J		2.0	4.9	0.41	0.702	2/8/22 16:57	BRF
2-Hexanone (MBK)	ND	0.035	0.018			ND	0.14	0.072	0.702	2/8/22 16:57	BRF
Isopropanol	1.1	1.4	0.32	J		2.8	3.4	0.79	0.702	2/8/22 16:57	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.014			ND	0.13	0.051	0.702	2/8/22 16:57	BRF
Methylene Chloride	2.1	0.35	0.081			7.2	1.2	0.28	0.702	2/8/22 16:57	BRF
4-Methyl-2-pentanone (MIBK)	0.085	0.035	0.018			0.35 J	0.14	0.074	0.702	2/8/22 16:57	BRF
Naphthalene	0.031	0.035	0.022	L-05, V-06, J		0.16 J	0.18	0.12	0.702	2/8/22 16:57	BRF
Propene	ND	1.4	0.12			ND	2.4	0.20	0.702	2/8/22 16:57	BRF
Styrene	0.020	0.035	0.011	J		0.087	0.15	0.047	0.702	2/8/22 16:57	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.011			ND	0.24	0.074	0.702	2/8/22 16:57	BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 1/28/2022
Field Sample #: FD-012622
Sample ID: 22A1637-05
 Sample Matrix: Air
 Sampled: 1/26/2022 00:00

Sample Description/Location: FD-1
 Sub Description/Location:
 Canister ID: 2219
 Canister Size: 6 liter
 Flow Controller ID: 3409
 Sample Type: 24 hr

Work Order: 22A1637
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -8.5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	0.025	0.035	0.010	J	0.17	0.24	0.070	0.702	2/8/22 16:57		BRF
Tetrahydrofuran	ND	0.35	0.087		ND	1.0	0.26	0.702	2/8/22 16:57		BRF
Toluene	7.1	0.035	0.015		27	0.13	0.055	0.702	2/8/22 16:57		BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND	0.26	0.18	0.702	2/8/22 16:57		BRF
1,1,1-Trichloroethane	0.12	0.035	0.016		0.67	0.19	0.088	0.702	2/8/22 16:57		BRF
1,1,2-Trichloroethane	ND	0.035	0.014		ND	0.19	0.076	0.702	2/8/22 16:57		BRF
Trichloroethylene	ND	0.035	0.013		ND	0.19	0.070	0.702	2/8/22 16:57		BRF
Trichlorofluoromethane (Freon 11)	0.25	0.14	0.014		1.4	0.79	0.078	0.702	2/8/22 16:57		BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.12	0.14	0.012	J	0.89 J	1.1	0.095	0.702	2/8/22 16:57		BRF
1,2,4-Trimethylbenzene	0.12	0.035	0.010		0.57	0.17	0.051	0.702	2/8/22 16:57		BRF
1,3,5-Trimethylbenzene	0.039	0.035	0.0096		0.19	0.17	0.047	0.702	2/8/22 16:57		BRF
Vinyl Acetate	ND	0.70	0.066	V-05	ND UJ	2.5	0.23	0.702	2/8/22 16:57		BRF
Vinyl Chloride	ND	0.035	0.014		ND	0.090	0.036	0.702	2/8/22 16:57		BRF
m&p-Xylene	26	0.070	0.019		110	0.30	0.084	0.702	2/8/22 16:57		BRF
o-Xylene	7.7	0.035	0.0094		33	0.15	0.041	0.702	2/8/22 16:57		BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	80.2	70-130	2/10/22 13:24
4-Bromofluorobenzene (1)	103	70-130	2/8/22 16:57

ALH 2/17/2022

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 1/28/2022
Field Sample #: 22A121-OA-118
Sample ID: 22A1637-06
 Sample Matrix: Ambient Air
 Sampled: 1/26/2022 11:34

Sample Description/Location: H-118
 Sub Description/Location:
 Canister ID: 1978
 Canister Size: 6 liter
 Flow Controller ID: 3479
 Sample Type: 24 hr

Work Order: 22A1637
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -6.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	7.6	1.4	0.85		18	3.3	2.0	0.702	2/8/22 17:44		BRF
Benzene	0.27	0.035	0.0084		0.85	0.11	0.027	0.702	2/8/22 17:44		BRF
Benzyl chloride	ND	0.035	0.016		ND	0.18	0.082	0.702	2/8/22 17:44		BRF
Bromodichloromethane	ND	0.035	0.013		ND	0.24	0.086	0.702	2/8/22 17:44		BRF
Bromoform	ND	0.035	0.013		ND	0.36	0.13	0.702	2/8/22 17:44		BRF
Bromomethane	ND	0.035	0.029		ND	0.14	0.11	0.702	2/8/22 17:44		BRF
1,3-Butadiene	ND	0.035	0.025		ND	0.078	0.054	0.702	2/8/22 17:44		BRF
2-Butanone (MEK)	0.49	1.4	0.12	J	1.5	4.1	0.34	0.702	2/8/22 17:44		BRF
Carbon Disulfide	ND	0.35	0.089		ND	1.1	0.28	0.702	2/8/22 17:44		BRF
Carbon Tetrachloride	0.049	0.035	0.011		0.31	0.22	0.067	0.702	2/8/22 17:44		BRF
Chlorobenzene	ND	0.035	0.010		ND	0.16	0.048	0.702	2/8/22 17:44		BRF
Chloroethane	ND	0.035	0.026		ND	0.093	0.068	0.702	2/8/22 17:44		BRF
Chloroform	0.021	0.035	0.0085	J	0.10	0.17	0.041	0.702	2/8/22 17:44		BRF
Chloromethane	0.44	0.070	0.014		0.91	0.14	0.030	0.702	2/8/22 17:44		BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.080	0.702	2/8/22 17:44		BRF
Dibromochloromethane	ND	0.035	0.012		ND	0.30	0.10	0.702	2/8/22 17:44		BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.0098		ND	0.27	0.075	0.702	2/8/22 17:44		BRF
1,2-Dichlorobenzene	ND	0.035	0.013		ND	0.21	0.078	0.702	2/8/22 17:44		BRF
1,3-Dichlorobenzene	ND	0.035	0.0085		ND	0.21	0.051	0.702	2/8/22 17:44		BRF
1,4-Dichlorobenzene	0.022	0.035	0.014	J	0.14	0.21	0.086	0.702	2/8/22 17:44		BRF
Dichlorodifluoromethane (Freon 12)	0.22	0.035	0.011		1.1	0.17	0.053	0.702	2/8/22 17:44		BRF
1,1-Dichloroethane	ND	0.035	0.012		ND	0.14	0.048	0.702	2/8/22 17:44		BRF
1,2-Dichloroethane	ND	0.035	0.013		ND	0.14	0.052	0.702	2/8/22 17:44		BRF
1,1-Dichloroethylene	ND	0.035	0.014		ND	0.14	0.055	0.702	2/8/22 17:44		BRF
cis-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.047	0.702	2/8/22 17:44		BRF
trans-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.049	0.702	2/8/22 17:44		BRF
1,2-Dichloropropane	ND	0.035	0.013		ND	0.16	0.059	0.702	2/8/22 17:44		BRF
cis-1,3-Dichloropropene	ND	0.035	0.016		ND	0.16	0.074	0.702	2/8/22 17:44		BRF
trans-1,3-Dichloropropene	ND	0.035	0.011		ND	0.16	0.049	0.702	2/8/22 17:44		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.012		ND	0.25	0.085	0.702	2/8/22 17:44		BRF
1,4-Dioxane	ND	0.35	0.024		ND	1.3	0.086	0.702	2/8/22 17:44		BRF
Ethanol	310	20	8.8		590	38	17	10	2/10/22 1:08		BRF
Ethyl Acetate	2.4	0.35	0.21	L-03, V-34	8.8 J	1.3	0.75	0.702	2/8/22 17:44		BRF
Ethylbenzene	0.67	0.035	0.0091		2.9	0.15	0.039	0.702	2/8/22 17:44		BRF
4-Ethyltoluene	0.025	0.035	0.011	J	0.12	0.17	0.053	0.702	2/8/22 17:44		BRF
Heptane	0.14	0.035	0.014		0.57	0.14	0.059	0.702	2/8/22 17:44		BRF
Hexachlorobutadiene	ND	0.035	0.020		ND	0.37	0.21	0.702	2/8/22 17:44		BRF
Hexane	0.34	1.4	0.12	J	1.2	4.9	0.41	0.702	2/8/22 17:44		BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.702	2/8/22 17:44		BRF
Isopropanol	0.98	1.4	0.32	J	2.4	3.4	0.79	0.702	2/8/22 17:44		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.014		ND	0.13	0.051	0.702	2/8/22 17:44		BRF
Methylene Chloride	1.0	0.35	0.081		3.6	1.2	0.28	0.702	2/8/22 17:44		BRF
4-Methyl-2-pentanone (MIBK)	0.22	0.035	0.018		0.91	0.14	0.074	0.702	2/8/22 17:44		BRF
Naphthalene	ND	0.035	0.022		ND UJ	0.18	0.12	0.702	2/8/22 17:44		BRF
Propene	1.5	1.4	0.12		2.6	2.4	0.20	0.702	2/8/22 17:44		BRF
Styrene	0.015	0.035	0.011	J	0.066	0.15	0.047	0.702	2/8/22 17:44		BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.011		ND	0.24	0.074	0.702	2/8/22 17:44		BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown

Date Received: 1/28/2022

Field Sample #: 22A1637-06

Sample ID: 22A1637-06

Sample Matrix: Ambient Air

Sampled: 1/26/2022 11:34

Sample Description/Location: H-118

Sub Description/Location:

Canister ID: 1978

Canister Size: 6 liter

Flow Controller ID: 3479

Sample Type: 24 hr

Work Order: 22A1637

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -9

Receipt Vacuum(in Hg): -6.4

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				ug/m3				Date/Time	
	Results	RL	MDL	Flag/Qual	Results	RL	MDL	Dilution	Analyzed	Analyst
Tetrachloroethylene	0.022	0.035	0.010	J	0.15	0.24	0.070	0.702	2/8/22 17:44	BRF
Tetrahydrofuran	ND	0.35	0.087		ND	1.0	0.26	0.702	2/8/22 17:44	BRF
Toluene	2.0	0.035	0.015		7.6	0.13	0.055	0.702	2/8/22 17:44	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND	0.26	0.18	0.702	2/8/22 17:44	BRF
1,1,1-Trichloroethane	0.020	0.035	0.016	J	0.11	0.19	0.088	0.702	2/8/22 17:44	BRF
1,1,2-Trichloroethane	ND	0.035	0.014		ND	0.19	0.076	0.702	2/8/22 17:44	BRF
Trichloroethylene	ND	0.035	0.013		ND	0.19	0.070	0.702	2/8/22 17:44	BRF
Trichlorofluoromethane (Freon 11)	0.20	0.14	0.014		1.1	0.79	0.078	0.702	2/8/22 17:44	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.048	0.14	0.012	J	0.37	1.1	0.095	0.702	2/8/22 17:44	BRF
1,2,4-Trimethylbenzene	0.086	0.035	0.010		0.42	0.17	0.051	0.702	2/8/22 17:44	BRF
1,3,5-Trimethylbenzene	0.021	0.035	0.0096	J	0.10	0.17	0.047	0.702	2/8/22 17:44	BRF
Vinyl Acetate	ND	0.70	0.066	V-05	ND	2.5	0.23	0.702	2/8/22 17:44	BRF
Vinyl Chloride	ND	0.035	0.014		ND	0.090	0.036	0.702	2/8/22 17:44	BRF
m&p-Xylene	3.3	0.070	0.019		14	0.30	0.084	0.702	2/8/22 17:44	BRF
o-Xylene	0.94	0.035	0.0094		4.1	0.15	0.041	0.702	2/8/22 17:44	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	102	70-130	2/8/22 17:44
4-Bromofluorobenzene (1)	102	70-130	2/10/22 1:08

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 1/28/2022
Field Sample #: 224121-SS-119
Sample ID: 22A1637-07
 Sample Matrix: Sub Slab
 Sampled: 1/27/2022 08:05

Sample Description/Location: H-119
 Sub Description/Location:
 Canister ID: 1080
 Canister Size: 6 liter
 Flow Controller ID: 3259
 Sample Type: 24 hr

Work Order: 22A1637
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -11
 Receipt Vacuum(in Hg): -9.5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	290	20	12		680	48	29	10	2/9/22 1:39		BRF
Benzene	0.33	0.10	0.024		1.1	0.32	0.077	2	2/9/22 0:59		BRF
Benzyl chloride	ND	0.10	0.045		ND	0.52	0.23	2	2/9/22 0:59		BRF
Bromodichloromethane	ND	0.10	0.036		ND	0.67	0.24	2	2/9/22 0:59		BRF
Bromoform	ND	0.10	0.036		ND	1.0	0.37	2	2/9/22 0:59		BRF
Bromomethane	0.15	0.10	0.082		0.58	0.39	0.32	2	2/9/22 0:59		BRF
1,3-Butadiene	ND	0.10	0.070		ND	0.22	0.15	2	2/9/22 0:59		BRF
2-Butanone (MEK)	5.8	4.0	0.33		17	12	0.98	2	2/9/22 0:59		BRF
Carbon Disulfide	0.60	1.0	0.25	J	1.9	3.1	0.79	2	2/9/22 0:59		BRF
Carbon Tetrachloride	0.042	0.10	0.030	J	0.26	0.63	0.19	2	2/9/22 0:59		BRF
Chlorobenzene	ND	0.10	0.030		ND	0.46	0.14	2	2/9/22 0:59		BRF
Chloroethane	3.3	0.10	0.073		8.8	0.26	0.19	2	2/9/22 0:59		BRF
Chloroform	0.25	0.10	0.024		1.2	0.49	0.12	2	2/9/22 0:59		BRF
Chloromethane	ND	0.20	0.041		ND	0.41	0.085	2	2/9/22 0:59		BRF
Cyclohexane	ND	0.10	0.066		ND	0.34	0.23	2	2/9/22 0:59		BRF
Dibromochloromethane	ND	0.10	0.034		ND	0.85	0.29	2	2/9/22 0:59		BRF
1,2-Dibromoethane (EDB)	ND	0.10	0.028		ND	0.77	0.22	2	2/9/22 0:59		BRF
1,2-Dichlorobenzene	ND	0.10	0.037		ND	0.60	0.22	2	2/9/22 0:59		BRF
1,3-Dichlorobenzene	ND	0.10	0.024		ND	0.60	0.15	2	2/9/22 0:59		BRF
1,4-Dichlorobenzene	ND	0.10	0.041		ND	0.60	0.24	2	2/9/22 0:59		BRF
Dichlorodifluoromethane (Freon 12)	0.31	0.10	0.031		1.5	0.49	0.15	2	2/9/22 0:59		BRF
1,1-Dichloroethane	0.16	0.10	0.034		0.64	0.40	0.14	2	2/9/22 0:59		BRF
1,2-Dichloroethane	0.13	0.10	0.037		0.51	0.40	0.15	2	2/9/22 0:59		BRF
1,1-Dichloroethylene	ND	0.10	0.039		ND	0.40	0.16	2	2/9/22 0:59		BRF
cis-1,2-Dichloroethylene	ND	0.10	0.034		ND	0.40	0.13	2	2/9/22 0:59		BRF
trans-1,2-Dichloroethylene	ND	0.10	0.035		ND	0.40	0.14	2	2/9/22 0:59		BRF
1,2-Dichloropropane	ND	0.10	0.036		ND	0.46	0.17	2	2/9/22 0:59		BRF
cis-1,3-Dichloropropene	ND	0.10	0.046		ND	0.45	0.21	2	2/9/22 0:59		BRF
trans-1,3-Dichloropropene	ND	0.10	0.031		ND	0.45	0.14	2	2/9/22 0:59		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.035		ND	0.70	0.24	2	2/9/22 0:59		BRF
1,4-Dioxane	0.71	1.0	0.068	J	2.6	3.6	0.24	2	2/9/22 0:59		BRF
Ethanol	130	20	6.1		240	38	11	10	2/9/22 1:39		BRF
Ethyl Acetate	ND	1.0	0.59	L-03, V-34	ND UJ	3.6	2.1	2	2/9/22 0:59		BRF
Ethylbenzene	0.14	0.10	0.026		0.61	0.43	0.11	2	2/9/22 0:59		BRF
4-Ethyltoluene	ND	0.10	0.031		ND	0.49	0.15	2	2/9/22 0:59		BRF
Heptane	0.17	0.10	0.041		0.70	0.41	0.17	2	2/9/22 0:59		BRF
Hexachlorobutadiene	ND	0.10	0.056		ND	1.1	0.59	2	2/9/22 0:59		BRF
Hexane	1.3	4.0	0.33	J	4.5	14	1.2	2	2/9/22 0:59		BRF
2-Hexanone (MBK)	ND	0.10	0.050		ND	0.41	0.21	2	2/9/22 0:59		BRF
Isopropanol	12	4.0	0.92		30	9.8	2.3	2	2/9/22 0:59		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.040		ND	0.36	0.14	2	2/9/22 0:59		BRF
Methylene Chloride	0.31	1.0	0.23	J	1.1	3.5	0.80	2	2/9/22 0:59		BRF
4-Methyl-2-pentanone (MIBK)	1.3	0.10	0.051		5.3	0.41	0.21	2	2/9/22 0:59		BRF
Naphthalene	ND	0.10	0.063		ND UJ	0.52	0.33	2	2/9/22 0:59		BRF
Propene	0.70	4.0	0.33	J	1.2	6.9	0.58	2	2/9/22 0:59		BRF
Styrene	0.048	0.10	0.032	J	0.20	0.43	0.13	2	2/9/22 0:59		BRF
1,1,2,2-Tetrachloroethane	ND	0.10	0.031		ND	0.69	0.21	2	2/9/22 0:59		BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 1/28/2022
Field Sample #: 22A1637-SS-119
Sample ID: 22A1637-07
 Sample Matrix: Sub Slab
 Sampled: 1/27/2022 08:05

Sample Description/Location: H-119
 Sub Description/Location:
 Canister ID: 1080
 Canister Size: 6 liter
 Flow Controller ID: 3259
 Sample Type: 24 hr

Work Order: 22A1637
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -11
 Receipt Vacuum(in Hg): -9.5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	2.0	0.10	0.030		14	0.68	0.20	2	2/9/22	0:59	BRF
Tetrahydrofuran	ND	1.0	0.25		ND	2.9	0.73	2	2/9/22	0:59	BRF
Toluene	7.7	0.10	0.042		29	0.38	0.16	2	2/9/22	0:59	BRF
1,2,4-Trichlorobenzene	ND	0.10	0.070		ND	0.74	0.52	2	2/9/22	0:59	BRF
1,1,1-Trichloroethane	0.086	0.10	0.046	J	0.47	0.55	0.25	2	2/9/22	0:59	BRF
1,1,2-Trichloroethane	ND	0.10	0.040		ND	0.55	0.22	2	2/9/22	0:59	BRF
Trichloroethylene	0.13	0.10	0.037		0.70	0.54	0.20	2	2/9/22	0:59	BRF
Trichlorofluoromethane (Freon 11)	11	0.40	0.040		62	2.2	0.22	2	2/9/22	0:59	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.058	0.40	0.035	J	0.44	3.1	0.27	2	2/9/22	0:59	BRF
1,2,4-Trimethylbenzene	0.11	0.10	0.030		0.53	0.49	0.15	2	2/9/22	0:59	BRF
1,3,5-Trimethylbenzene	0.052	0.10	0.027	J	0.26	0.49	0.13	2	2/9/22	0:59	BRF
Vinyl Acetate	ND	2.0	0.19	V-05	ND	7.0	0.66	2	2/9/22	0:59	BRF
Vinyl Chloride	0.28	0.10	0.040		0.73	0.26	0.10	2	2/9/22	0:59	BRF
m&p-Xylene	0.49	0.20	0.055		2.1	0.87	0.24	2	2/9/22	0:59	BRF
o-Xylene	0.17	0.10	0.027		0.72	0.43	0.12	2	2/9/22	0:59	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	102	70-130	2/9/22 0:59
4-Bromofluorobenzene (1)	101	70-130	2/9/22 1:39

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 1/28/2022
Field Sample #: 224121-1A-119
Sample ID: 22A1637-08
 Sample Matrix: Indoor air
 Sampled: 1/27/2022 08:06

Sample Description/Location: H-119
 Sub Description/Location:
 Canister ID: 1954
 Canister Size: 6 liter
 Flow Controller ID: 3077
 Sample Type: 24 hr

Work Order: 22A1637
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -9.1
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	76	8.0	4.8		180	19	11	4	2/10/22 1:48		BRF
Benzene	0.32	0.035	0.0084		1.0	0.11	0.027	0.702	2/8/22 18:32		BRF
Benzyl chloride	ND	0.035	0.016		ND	0.18	0.082	0.702	2/8/22 18:32		BRF
Bromodichloromethane	ND	0.035	0.013		ND	0.24	0.086	0.702	2/8/22 18:32		BRF
Bromoform	ND	0.035	0.013		ND	0.36	0.13	0.702	2/8/22 18:32		BRF
Bromomethane	ND	0.035	0.029		ND	0.14	0.11	0.702	2/8/22 18:32		BRF
1,3-Butadiene	0.11	0.035	0.025		0.23	0.078	0.054	0.702	2/8/22 18:32		BRF
2-Butanone (MEK)	1.4	1.4	0.12	J	4.1	4.1	0.34	0.702	2/8/22 18:32		BRF
Carbon Disulfide	ND	0.35	0.089		ND	1.1	0.28	0.702	2/8/22 18:32		BRF
Carbon Tetrachloride	0.048	0.035	0.011		0.30	0.22	0.067	0.702	2/8/22 18:32		BRF
Chlorobenzene	ND	0.035	0.010		ND	0.16	0.048	0.702	2/8/22 18:32		BRF
Chloroethane	ND	0.035	0.026		ND	0.093	0.068	0.702	2/8/22 18:32		BRF
Chloroform	ND	0.035	0.0085		ND	0.17	0.041	0.702	2/8/22 18:32		BRF
Chloromethane	0.56	0.070	0.014		1.1	0.14	0.030	0.702	2/8/22 18:32		BRF
Cyclohexane	0.64	0.035	0.023		2.2	0.12	0.080	0.702	2/8/22 18:32		BRF
Dibromochloromethane	ND	0.035	0.012		ND	0.30	0.10	0.702	2/8/22 18:32		BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.0098		ND	0.27	0.075	0.702	2/8/22 18:32		BRF
1,2-Dichlorobenzene	ND	0.035	0.013		ND	0.21	0.078	0.702	2/8/22 18:32		BRF
1,3-Dichlorobenzene	ND	0.035	0.0085		ND	0.21	0.051	0.702	2/8/22 18:32		BRF
1,4-Dichlorobenzene	ND	0.035	0.014		ND	0.21	0.086	0.702	2/8/22 18:32		BRF
Dichlorodifluoromethane (Freon 12)	0.22	0.035	0.011		1.1	0.17	0.053	0.702	2/8/22 18:32		BRF
1,1-Dichloroethane	ND	0.035	0.012		ND	0.14	0.048	0.702	2/8/22 18:32		BRF
1,2-Dichloroethane	ND	0.035	0.013		ND	0.14	0.052	0.702	2/8/22 18:32		BRF
1,1-Dichloroethylene	ND	0.035	0.014		ND	0.14	0.055	0.702	2/8/22 18:32		BRF
cis-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.047	0.702	2/8/22 18:32		BRF
trans-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.049	0.702	2/8/22 18:32		BRF
1,2-Dichloropropane	ND	0.035	0.013		ND	0.16	0.059	0.702	2/8/22 18:32		BRF
cis-1,3-Dichloropropene	ND	0.035	0.016		ND	0.16	0.074	0.702	2/8/22 18:32		BRF
trans-1,3-Dichloropropene	ND	0.035	0.011		ND	0.16	0.049	0.702	2/8/22 18:32		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.012		ND	0.25	0.085	0.702	2/8/22 18:32		BRF
1,4-Dioxane	ND	0.35	0.024		ND	1.3	0.086	0.702	2/8/22 18:32		BRF
Ethanol	120	8.0	3.5		230	15	6.6	4	2/10/22 1:48		BRF
Ethyl Acetate	ND	0.35	0.21	L-03, V-34	ND UJ	1.3	0.75	0.702	2/8/22 18:32		BRF
Ethylbenzene	0.72	0.035	0.0091		3.1	0.15	0.039	0.702	2/8/22 18:32		BRF
4-Ethyltoluene	0.085	0.035	0.011		0.42 J	0.17	0.053	0.702	2/8/22 18:32		BRF
Heptane	0.25	0.035	0.014		1.0	0.14	0.059	0.702	2/8/22 18:32		BRF
Hexachlorobutadiene	ND	0.035	0.020		ND	0.37	0.21	0.702	2/8/22 18:32		BRF
Hexane	29	1.4	0.12		100	4.9	0.41	0.702	2/8/22 18:32		BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.702	2/8/22 18:32		BRF
Isopropanol	19	1.4	0.32		46	3.4	0.79	0.702	2/8/22 18:32		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.014		ND	0.13	0.051	0.702	2/8/22 18:32		BRF
Methylene Chloride	0.56	0.35	0.081		1.9	1.2	0.28	0.702	2/8/22 18:32		BRF
4-Methyl-2-pentanone (MIBK)	13	0.035	0.018		52	0.14	0.074	0.702	2/8/22 18:32		BRF
Naphthalene	0.065	0.035	0.022	L-05, V-06	0.34 J	0.18	0.12	0.702	2/8/22 18:32		BRF
Propene	ND	1.4	0.12		ND	2.4	0.20	0.702	2/8/22 18:32		BRF
Styrene	0.50	0.035	0.011		2.1	0.15	0.047	0.702	2/8/22 18:32		BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.011		ND	0.24	0.074	0.702	2/8/22 18:32		BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 1/28/2022
Field Sample #: 22A1637-08
Sample ID: 22A1637-08
 Sample Matrix: Indoor air
 Sampled: 1/27/2022 08:06

Sample Description/Location: H-119
 Sub Description/Location:
 Canister ID: 1954
 Canister Size: 6 liter
 Flow Controller ID: 3077
 Sample Type: 24 hr

Work Order: 22A1637
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -9.1
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	0.13	0.035	0.010		0.90 J	0.24	0.070	0.702	2/8/22 18:32		BRF
Tetrahydrofuran	0.54	0.35	0.087		1.6	1.0	0.26	0.702	2/8/22 18:32		BRF
Toluene	130	0.20	0.11		490	0.75	0.43	4	2/10/22 1:48		BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND	0.26	0.18	0.702	2/8/22 18:32		BRF
1,1,1-Trichloroethane	ND	0.035	0.016		ND	0.19	0.088	0.702	2/8/22 18:32		BRF
1,1,2-Trichloroethane	ND	0.035	0.014		ND	0.19	0.076	0.702	2/8/22 18:32		BRF
Trichloroethylene	ND	0.035	0.013		ND	0.19	0.070	0.702	2/8/22 18:32		BRF
Trichlorofluoromethane (Freon 11)	0.64	0.14	0.014		3.6	0.79	0.078	0.702	2/8/22 18:32		BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.055	0.14	0.012	J	0.42	1.1	0.095	0.702	2/8/22 18:32		BRF
1,2,4-Trimethylbenzene	0.30	0.035	0.010		1.5 J	0.17	0.051	0.702	2/8/22 18:32		BRF
1,3,5-Trimethylbenzene	0.086	0.035	0.0096		0.42 J	0.17	0.047	0.702	2/8/22 18:32		BRF
Vinyl Acetate	ND	0.70	0.066	V-05	ND UJ	2.5	0.23	0.702	2/8/22 18:32		BRF
Vinyl Chloride	ND	0.035	0.014		ND	0.090	0.036	0.702	2/8/22 18:32		BRF
m&p-Xylene	2.8	0.070	0.019		12	0.30	0.084	0.702	2/8/22 18:32		BRF
o-Xylene	0.77	0.035	0.0094		3.4	0.15	0.041	0.702	2/8/22 18:32		BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	101	70-130	2/8/22 18:32
4-Bromofluorobenzene (1)	101	70-130	2/10/22 1:48

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 1/28/2022
Field Sample #: FD-012722
Sample ID: 22A1637-09
 Sample Matrix: Air
 Sampled: 1/27/2022 00:00

Sample Description/Location: FD-1
 Sub Description/Location:
 Canister ID: 1750
 Canister Size: 6 liter
 Flow Controller ID: 3695
 Sample Type: 24 hr

Work Order: 22A1637
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -9.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	75	8.0	4.8		180	19	11	4	2/10/22 2:29		BRF
Benzene	0.32	0.035	0.0084		1.0	0.11	0.027	0.702	2/8/22 19:19		BRF
Benzyl chloride	ND	0.035	0.016		ND	0.18	0.082	0.702	2/8/22 19:19		BRF
Bromodichloromethane	ND	0.035	0.013		ND	0.24	0.086	0.702	2/8/22 19:19		BRF
Bromoform	ND	0.035	0.013		ND	0.36	0.13	0.702	2/8/22 19:19		BRF
Bromomethane	ND	0.035	0.029		ND	0.14	0.11	0.702	2/8/22 19:19		BRF
1,3-Butadiene	0.11	0.035	0.025		0.24	0.078	0.054	0.702	2/8/22 19:19		BRF
2-Butanone (MEK)	1.5	1.4	0.12		4.3	4.1	0.34	0.702	2/8/22 19:19		BRF
Carbon Disulfide	ND	0.35	0.089		ND	1.1	0.28	0.702	2/8/22 19:19		BRF
Carbon Tetrachloride	ND	0.035	0.011		ND	0.22	0.067	0.702	2/8/22 19:19		BRF
Chlorobenzene	ND	0.035	0.010		ND	0.16	0.048	0.702	2/8/22 19:19		BRF
Chloroethane	ND	0.035	0.026		ND	0.093	0.068	0.702	2/8/22 19:19		BRF
Chloroform	0.020	0.035	0.0085	J	0.096	0.17	0.041	0.702	2/8/22 19:19		BRF
Chloromethane	0.53	0.070	0.014		1.1	0.14	0.030	0.702	2/8/22 19:19		BRF
Cyclohexane	0.64	0.035	0.023		2.2	0.12	0.080	0.702	2/8/22 19:19		BRF
Dibromochloromethane	ND	0.035	0.012		ND	0.30	0.10	0.702	2/8/22 19:19		BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.0098		ND	0.27	0.075	0.702	2/8/22 19:19		BRF
1,2-Dichlorobenzene	ND	0.035	0.013		ND	0.21	0.078	0.702	2/8/22 19:19		BRF
1,3-Dichlorobenzene	ND	0.035	0.0085		ND	0.21	0.051	0.702	2/8/22 19:19		BRF
1,4-Dichlorobenzene	ND	0.035	0.014		ND	0.21	0.086	0.702	2/8/22 19:19		BRF
Dichlorodifluoromethane (Freon 12)	0.20	0.035	0.011		0.99	0.17	0.053	0.702	2/8/22 19:19		BRF
1,1-Dichloroethane	ND	0.035	0.012		ND	0.14	0.048	0.702	2/8/22 19:19		BRF
1,2-Dichloroethane	ND	0.035	0.013		ND	0.14	0.052	0.702	2/8/22 19:19		BRF
1,1-Dichloroethylene	ND	0.035	0.014		ND	0.14	0.055	0.702	2/8/22 19:19		BRF
cis-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.047	0.702	2/8/22 19:19		BRF
trans-1,2-Dichloroethylene	0.013	0.035	0.012	J	0.050	0.14	0.049	0.702	2/8/22 19:19		BRF
1,2-Dichloropropane	ND	0.035	0.013		ND	0.16	0.059	0.702	2/8/22 19:19		BRF
cis-1,3-Dichloropropene	ND	0.035	0.016		ND	0.16	0.074	0.702	2/8/22 19:19		BRF
trans-1,3-Dichloropropene	ND	0.035	0.011		ND	0.16	0.049	0.702	2/8/22 19:19		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.012		ND	0.25	0.085	0.702	2/8/22 19:19		BRF
1,4-Dioxane	ND	0.35	0.024		ND	1.3	0.086	0.702	2/8/22 19:19		BRF
Ethanol	120	8.0	3.5		230	15	6.6	4	2/10/22 2:29		BRF
Ethyl Acetate	ND	0.35	0.21	L-03, V-34	ND	1.3	0.75	0.702	2/8/22 19:19		BRF
Ethylbenzene	0.71	0.035	0.0091		3.1	0.15	0.039	0.702	2/8/22 19:19		BRF
4-Ethyltoluene	0.26	0.035	0.011		1.3	0.17	0.053	0.702	2/8/22 19:19		BRF
Heptane	0.25	0.035	0.014		1.0	0.14	0.059	0.702	2/8/22 19:19		BRF
Hexachlorobutadiene	ND	0.035	0.020		ND	0.37	0.21	0.702	2/8/22 19:19		BRF
Hexane	28	1.4	0.12		98	4.9	0.41	0.702	2/8/22 19:19		BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.702	2/8/22 19:19		BRF
Isopropanol	18	1.4	0.32		44	3.4	0.79	0.702	2/8/22 19:19		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.014		ND	0.13	0.051	0.702	2/8/22 19:19		BRF
Methylene Chloride	0.55	0.35	0.081		1.9	1.2	0.28	0.702	2/8/22 19:19		BRF
4-Methyl-2-pentanone (MIBK)	12	0.035	0.018		51	0.14	0.074	0.702	2/8/22 19:19		BRF
Naphthalene	0.074	0.035	0.022	L-05, V-06	0.39	0.18	0.12	0.702	2/8/22 19:19		BRF
Propene	ND	1.4	0.12		ND	2.4	0.20	0.702	2/8/22 19:19		BRF
Styrene	0.51	0.035	0.011		2.2	0.15	0.047	0.702	2/8/22 19:19		BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.011		ND	0.24	0.074	0.702	2/8/22 19:19		BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 1/28/2022
Field Sample #: FD-012722
Sample ID: 22A1637-09
 Sample Matrix: Air
 Sampled: 1/27/2022 00:00

Sample Description/Location: FD-1
 Sub Description/Location:
 Canister ID: 1750
 Canister Size: 6 liter
 Flow Controller ID: 3695
 Sample Type: 24 hr

Work Order: 22A1637
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -9.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	0.30	0.035	0.010		2.0	J	0.24	0.070	0.702	2/8/22 19:19	BRF
Tetrahydrofuran	0.55	0.35	0.087		1.6		1.0	0.26	0.702	2/8/22 19:19	BRF
Toluene	130	0.20	0.11		480		0.75	0.43	4	2/10/22 2:29	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND		0.26	0.18	0.702	2/8/22 19:19	BRF
1,1,1-Trichloroethane	ND	0.035	0.016		ND		0.19	0.088	0.702	2/8/22 19:19	BRF
1,1,2-Trichloroethane	ND	0.035	0.014		ND		0.19	0.076	0.702	2/8/22 19:19	BRF
Trichloroethylene	0.022	0.035	0.013	J	0.12		0.19	0.070	0.702	2/8/22 19:19	BRF
Trichlorofluoromethane (Freon 11)	0.63	0.14	0.014		3.5		0.79	0.078	0.702	2/8/22 19:19	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.052	0.14	0.012	J	0.40		1.1	0.095	0.702	2/8/22 19:19	BRF
1,2,4-Trimethylbenzene	1.6	0.035	0.010		8.0	J	0.17	0.051	0.702	2/8/22 19:19	BRF
1,3,5-Trimethylbenzene	0.44	0.035	0.0096		2.2	J	0.17	0.047	0.702	2/8/22 19:19	BRF
Vinyl Acetate	ND	0.70	0.066	V-05	ND	UJ	2.5	0.23	0.702	2/8/22 19:19	BRF
Vinyl Chloride	ND	0.035	0.014		ND		0.090	0.036	0.702	2/8/22 19:19	BRF
m&p-Xylene	2.8	0.070	0.019		12		0.30	0.084	0.702	2/8/22 19:19	BRF
o-Xylene	0.77	0.035	0.0094		3.3		0.15	0.041	0.702	2/8/22 19:19	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	101	70-130	2/10/22 2:29
4-Bromofluorobenzene (1)	101	70-130	2/8/22 19:19

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 1/28/2022
Field Sample #: 22A121-SS-120
Sample ID: 22A1637-10
 Sample Matrix: Sub Slab
 Sampled: 1/27/2022 08:09

Sample Description/Location: H-120
 Sub Description/Location:
 Canister ID: 1030
 Canister Size: 6 liter
 Flow Controller ID: 3696
 Sample Type: 24 hr

Work Order: 22A1637
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9.5
 Receipt Vacuum(in Hg): -9.1
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	38	4.0	2.4		90	9.5	5.7	2	2/8/22 22:57		BRF
Benzene	0.11	0.10	0.024		0.36	0.32	0.077	2	2/8/22 22:57		BRF
Benzyl chloride	ND	0.10	0.045		ND	0.52	0.23	2	2/8/22 22:57		BRF
Bromodichloromethane	ND	0.10	0.036		ND	0.67	0.24	2	2/8/22 22:57		BRF
Bromoform	ND	0.10	0.036		ND	1.0	0.37	2	2/8/22 22:57		BRF
Bromomethane	ND	0.10	0.082		ND	0.39	0.32	2	2/8/22 22:57		BRF
1,3-Butadiene	ND	0.10	0.070		ND	0.22	0.15	2	2/8/22 22:57		BRF
2-Butanone (MEK)	3.2	4.0	0.33	J	9.5	12	0.98	2	2/8/22 22:57		BRF
Carbon Disulfide	1.7	1.0	0.25		5.4	3.1	0.79	2	2/8/22 22:57		BRF
Carbon Tetrachloride	ND	0.10	0.030		ND	0.63	0.19	2	2/8/22 22:57		BRF
Chlorobenzene	ND	0.10	0.030		ND	0.46	0.14	2	2/8/22 22:57		BRF
Chloroethane	6.6	0.10	0.073		17	0.26	0.19	2	2/8/22 22:57		BRF
Chloroform	0.25	0.10	0.024		1.2	0.49	0.12	2	2/8/22 22:57		BRF
Chloromethane	0.17	0.20	0.041	J	0.34	0.41	0.085	2	2/8/22 22:57		BRF
Cyclohexane	ND	0.10	0.066		ND	0.34	0.23	2	2/8/22 22:57		BRF
Dibromochloromethane	ND	0.10	0.034		ND	0.85	0.29	2	2/8/22 22:57		BRF
1,2-Dibromoethane (EDB)	ND	0.10	0.028		ND	0.77	0.22	2	2/8/22 22:57		BRF
1,2-Dichlorobenzene	ND	0.10	0.037		ND	0.60	0.22	2	2/8/22 22:57		BRF
1,3-Dichlorobenzene	ND	0.10	0.024		ND	0.60	0.15	2	2/8/22 22:57		BRF
1,4-Dichlorobenzene	ND	0.10	0.041		ND	0.60	0.24	2	2/8/22 22:57		BRF
Dichlorodifluoromethane (Freon 12)	0.27	0.10	0.031		1.3	0.49	0.15	2	2/8/22 22:57		BRF
1,1-Dichloroethane	0.23	0.10	0.034		0.91	0.40	0.14	2	2/8/22 22:57		BRF
1,2-Dichloroethane	0.16	0.10	0.037		0.63	0.40	0.15	2	2/8/22 22:57		BRF
1,1-Dichloroethylene	ND	0.10	0.039		ND	0.40	0.16	2	2/8/22 22:57		BRF
cis-1,2-Dichloroethylene	ND	0.10	0.034		ND	0.40	0.13	2	2/8/22 22:57		BRF
trans-1,2-Dichloroethylene	ND	0.10	0.035		ND	0.40	0.14	2	2/8/22 22:57		BRF
1,2-Dichloropropane	ND	0.10	0.036		ND	0.46	0.17	2	2/8/22 22:57		BRF
cis-1,3-Dichloropropene	ND	0.10	0.046		ND	0.45	0.21	2	2/8/22 22:57		BRF
trans-1,3-Dichloropropene	ND	0.10	0.031		ND	0.45	0.14	2	2/8/22 22:57		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.035		ND	0.70	0.24	2	2/8/22 22:57		BRF
1,4-Dioxane	ND	1.0	0.068		ND	3.6	0.24	2	2/8/22 22:57		BRF
Ethanol	41	4.0	1.2		77	7.5	2.3	2	2/8/22 22:57		BRF
Ethyl Acetate	ND	1.0	0.59	L-03, V-34	ND UJ	3.6	2.1	2	2/8/22 22:57		BRF
Ethylbenzene	0.14	0.10	0.026		0.60	0.43	0.11	2	2/8/22 22:57		BRF
4-Ethyltoluene	ND	0.10	0.031		ND	0.49	0.15	2	2/8/22 22:57		BRF
Heptane	0.13	0.10	0.041		0.52	0.41	0.17	2	2/8/22 22:57		BRF
Hexachlorobutadiene	ND	0.10	0.056		ND	1.1	0.59	2	2/8/22 22:57		BRF
Hexane	0.70	4.0	0.33	J	2.5	14	1.2	2	2/8/22 22:57		BRF
2-Hexanone (MBK)	ND	0.10	0.050		ND	0.41	0.21	2	2/8/22 22:57		BRF
Isopropanol	3.8	4.0	0.92	J	9.4	9.8	2.3	2	2/8/22 22:57		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.040		ND	0.36	0.14	2	2/8/22 22:57		BRF
Methylene Chloride	0.24	1.0	0.23	J	0.83	3.5	0.80	2	2/8/22 22:57		BRF
4-Methyl-2-pentanone (MIBK)	1.5	0.10	0.051		5.9	0.41	0.21	2	2/8/22 22:57		BRF
Naphthalene	0.084	0.10	0.063	L-05, V-06, J	0.44 J	0.52	0.33	2	2/8/22 22:57		BRF
Propene	ND	4.0	0.33		ND	6.9	0.58	2	2/8/22 22:57		BRF
Styrene	0.13	0.10	0.032		0.54	0.43	0.13	2	2/8/22 22:57		BRF
1,1,2,2-Tetrachloroethane	ND	0.10	0.031		ND	0.69	0.21	2	2/8/22 22:57		BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 1/28/2022
Field Sample #: 22A1637-10
Sample ID: 22A1637-10
 Sample Matrix: Sub Slab
 Sampled: 1/27/2022 08:09

Sample Description/Location: H-120
 Sub Description/Location:
 Canister ID: 1030
 Canister Size: 6 liter
 Flow Controller ID: 3696
 Sample Type: 24 hr

Work Order: 22A1637
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9.5
 Receipt Vacuum(in Hg): -9.1
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	7.9	0.10	0.030		53	0.68	0.20	2	2/8/22 22:57	BRF
Tetrahydrofuran	ND	1.0	0.25		ND	2.9	0.73	2	2/8/22 22:57	BRF
Toluene	6.9	0.10	0.042		26	0.38	0.16	2	2/8/22 22:57	BRF
1,2,4-Trichlorobenzene	ND	0.10	0.070		ND	0.74	0.52	2	2/8/22 22:57	BRF
1,1,1-Trichloroethane	0.26	0.10	0.046		1.4	0.55	0.25	2	2/8/22 22:57	BRF
1,1,2-Trichloroethane	ND	0.10	0.040		ND	0.55	0.22	2	2/8/22 22:57	BRF
Trichloroethylene	0.11	0.10	0.037		0.58	0.54	0.20	2	2/8/22 22:57	BRF
Trichlorofluoromethane (Freon 11)	9.0	0.40	0.040		51	2.2	0.22	2	2/8/22 22:57	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.054	0.40	0.035	J	0.41	3.1	0.27	2	2/8/22 22:57	BRF
1,2,4-Trimethylbenzene	ND	0.10	0.030		ND	0.49	0.15	2	2/8/22 22:57	BRF
1,3,5-Trimethylbenzene	ND	0.10	0.027		ND	0.49	0.13	2	2/8/22 22:57	BRF
Vinyl Acetate	ND	2.0	0.19	V-05	ND UJ	7.0	0.66	2	2/8/22 22:57	BRF
Vinyl Chloride	0.68	0.10	0.040		1.7	0.26	0.10	2	2/8/22 22:57	BRF
m&p-Xylene	0.55	0.20	0.055		2.4	0.87	0.24	2	2/8/22 22:57	BRF
o-Xylene	0.15	0.10	0.027		0.65	0.43	0.12	2	2/8/22 22:57	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	101	70-130	2/8/22 22:57

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 1/28/2022
Field Sample #: 224121-1A-120
Sample ID: 22A1637-11
 Sample Matrix: Indoor air
 Sampled: 1/27/2022 08:10

Sample Description/Location: H-120
 Sub Description/Location:
 Canister ID: 1869
 Canister Size: 6 liter
 Flow Controller ID: 3018
 Sample Type: 24 hr

Work Order: 22A1637
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -8.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	130	8.0	4.8		300	19	11	4	2/10/22	3:09	BRF
Benzene	0.40	0.035	0.0084		1.3	0.11	0.027	0.702	2/8/22	20:05	BRF
Benzyl chloride	ND	0.035	0.016		ND	0.18	0.082	0.702	2/8/22	20:05	BRF
Bromodichloromethane	ND	0.035	0.013		ND	0.24	0.086	0.702	2/8/22	20:05	BRF
Bromoform	ND	0.035	0.013		ND	0.36	0.13	0.702	2/8/22	20:05	BRF
Bromomethane	ND	0.035	0.029		ND	0.14	0.11	0.702	2/8/22	20:05	BRF
1,3-Butadiene	0.11	0.035	0.025		0.24	0.078	0.054	0.702	2/8/22	20:05	BRF
2-Butanone (MEK)	1.1	1.4	0.12	J	3.3	4.1	0.34	0.702	2/8/22	20:05	BRF
Carbon Disulfide	ND	0.35	0.089		ND	1.1	0.28	0.702	2/8/22	20:05	BRF
Carbon Tetrachloride	0.059	0.035	0.011		0.37	0.22	0.067	0.702	2/8/22	20:05	BRF
Chlorobenzene	ND	0.035	0.010		ND	0.16	0.048	0.702	2/8/22	20:05	BRF
Chloroethane	0.11	0.035	0.026		0.28	0.093	0.068	0.702	2/8/22	20:05	BRF
Chloroform	0.019	0.035	0.0085	J	0.093	0.17	0.041	0.702	2/8/22	20:05	BRF
Chloromethane	0.54	0.070	0.014		1.1	0.14	0.030	0.702	2/8/22	20:05	BRF
Cyclohexane	1.2	0.035	0.023		4.0	0.12	0.080	0.702	2/8/22	20:05	BRF
Dibromochloromethane	ND	0.035	0.012		ND	0.30	0.10	0.702	2/8/22	20:05	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.0098		ND	0.27	0.075	0.702	2/8/22	20:05	BRF
1,2-Dichlorobenzene	ND	0.035	0.013		ND	0.21	0.078	0.702	2/8/22	20:05	BRF
1,3-Dichlorobenzene	ND	0.035	0.0085		ND	0.21	0.051	0.702	2/8/22	20:05	BRF
1,4-Dichlorobenzene	ND	0.035	0.014		ND	0.21	0.086	0.702	2/8/22	20:05	BRF
Dichlorodifluoromethane (Freon 12)	0.22	0.035	0.011		1.1	0.17	0.053	0.702	2/8/22	20:05	BRF
1,1-Dichloroethane	ND	0.035	0.012		ND	0.14	0.048	0.702	2/8/22	20:05	BRF
1,2-Dichloroethane	ND	0.035	0.013		ND	0.14	0.052	0.702	2/8/22	20:05	BRF
1,1-Dichloroethylene	ND	0.035	0.014		ND	0.14	0.055	0.702	2/8/22	20:05	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.047	0.702	2/8/22	20:05	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.049	0.702	2/8/22	20:05	BRF
1,2-Dichloropropane	ND	0.035	0.013		ND	0.16	0.059	0.702	2/8/22	20:05	BRF
cis-1,3-Dichloropropene	ND	0.035	0.016		ND	0.16	0.074	0.702	2/8/22	20:05	BRF
trans-1,3-Dichloropropene	ND	0.035	0.011		ND	0.16	0.049	0.702	2/8/22	20:05	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.012		ND	0.25	0.085	0.702	2/8/22	20:05	BRF
1,4-Dioxane	ND	0.35	0.024		ND	1.3	0.086	0.702	2/8/22	20:05	BRF
Ethanol	86	8.0	3.5		160	15	6.6	4	2/10/22	3:09	BRF
Ethyl Acetate	ND	0.35	0.21	L-03, V-34	ND U	1.3	0.75	0.702	2/8/22	20:05	BRF
Ethylbenzene	0.71	0.035	0.0091		3.1	0.15	0.039	0.702	2/8/22	20:05	BRF
4-Ethyltoluene	0.081	0.035	0.011		0.40	0.17	0.053	0.702	2/8/22	20:05	BRF
Heptane	0.42	0.035	0.014		1.7	0.14	0.059	0.702	2/8/22	20:05	BRF
Hexachlorobutadiene	ND	0.035	0.020		ND	0.37	0.21	0.702	2/8/22	20:05	BRF
Hexane	56	8.0	1.0		200	28	3.7	4	2/10/22	3:09	BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.702	2/8/22	20:05	BRF
Isopropanol	16	1.4	0.32		40	3.4	0.79	0.702	2/8/22	20:05	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.014		ND	0.13	0.051	0.702	2/8/22	20:05	BRF
Methylene Chloride	0.62	0.35	0.081		2.2	1.2	0.28	0.702	2/8/22	20:05	BRF
4-Methyl-2-pentanone (MIBK)	19	0.035	0.018		77	0.14	0.074	0.702	2/8/22	20:05	BRF
Naphthalene	0.068	0.035	0.022	L-05, V-06	0.36 J	0.18	0.12	0.702	2/8/22	20:05	BRF
Propene	ND	1.4	0.12		ND	2.4	0.20	0.702	2/8/22	20:05	BRF
Styrene	0.35	0.035	0.011		1.5	0.15	0.047	0.702	2/8/22	20:05	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.011		ND	0.24	0.074	0.702	2/8/22	20:05	BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 1/28/2022
Field Sample #: 22A1637-11
Sample ID: 22A1637-11
 Sample Matrix: Indoor air
 Sampled: 1/27/2022 08:10

Sample Description/Location: H-120
 Sub Description/Location:
 Canister ID: 1869
 Canister Size: 6 liter
 Flow Controller ID: 3018
 Sample Type: 24 hr

Work Order: 22A1637
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -8.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	0.43	0.035	0.010		2.9	0.24	0.070	0.702	2/8/22 20:05		BRF
Tetrahydrofuran	0.34	0.35	0.087	J	1.00	1.0	0.26	0.702	2/8/22 20:05		BRF
Toluene	190	0.20	0.11		710	0.75	0.43	4	2/10/22 3:09		BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND	0.26	0.18	0.702	2/8/22 20:05		BRF
1,1,1-Trichloroethane	ND	0.035	0.016		ND	0.19	0.088	0.702	2/8/22 20:05		BRF
1,1,2-Trichloroethane	ND	0.035	0.014		ND	0.19	0.076	0.702	2/8/22 20:05		BRF
Trichloroethylene	0.028	0.035	0.013	J	0.15	0.19	0.070	0.702	2/8/22 20:05		BRF
Trichlorofluoromethane (Freon 11)	0.74	0.14	0.014		4.1	0.79	0.078	0.702	2/8/22 20:05		BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.055	0.14	0.012	J	0.42	1.1	0.095	0.702	2/8/22 20:05		BRF
1,2,4-Trimethylbenzene	0.26	0.035	0.010		1.3	0.17	0.051	0.702	2/8/22 20:05		BRF
1,3,5-Trimethylbenzene	0.079	0.035	0.0096		0.39	0.17	0.047	0.702	2/8/22 20:05		BRF
Vinyl Acetate	ND	0.70	0.066	V-05	ND	2.5	0.23	0.702	2/8/22 20:05		BRF
Vinyl Chloride	ND	0.035	0.014		ND	0.090	0.036	0.702	2/8/22 20:05		BRF
m&p-Xylene	2.8	0.070	0.019		12	0.30	0.084	0.702	2/8/22 20:05		BRF
o-Xylene	0.78	0.035	0.0094		3.4	0.15	0.041	0.702	2/8/22 20:05		BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	101	70-130	2/10/22 3:09
4-Bromofluorobenzene (1)	101	70-130	2/8/22 20:05

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 1/28/2022
Field Sample #: 224121-OA-120
Sample ID: 22A1637-12
 Sample Matrix: Ambient Air
 Sampled: 1/27/2022 08:25

Sample Description/Location: H-120
 Sub Description/Location:
 Canister ID: 2196
 Canister Size: 6 liter
 Flow Controller ID: 3249
 Sample Type: 24 hr

Work Order: 22A1637
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -6.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	4.6	1.4	0.85		11	3.3	2.0	0.702	2/8/22 20:52		BRF
Benzene	0.27	0.035	0.0084		0.86	0.11	0.027	0.702	2/8/22 20:52		BRF
Benzyl chloride	ND	0.035	0.016		ND	0.18	0.082	0.702	2/8/22 20:52		BRF
Bromodichloromethane	ND	0.035	0.013		ND	0.24	0.086	0.702	2/8/22 20:52		BRF
Bromoform	ND	0.035	0.013		ND	0.36	0.13	0.702	2/8/22 20:52		BRF
Bromomethane	ND	0.035	0.029		ND	0.14	0.11	0.702	2/8/22 20:52		BRF
1,3-Butadiene	0.065	0.035	0.025		0.14	0.078	0.054	0.702	2/8/22 20:52		BRF
2-Butanone (MEK)	0.48	1.4	0.12	J	1.4	4.1	0.34	0.702	2/8/22 20:52		BRF
Carbon Disulfide	ND	0.35	0.089		ND	1.1	0.28	0.702	2/8/22 20:52		BRF
Carbon Tetrachloride	0.059	0.035	0.011		0.37	0.22	0.067	0.702	2/8/22 20:52		BRF
Chlorobenzene	ND	0.035	0.010		ND	0.16	0.048	0.702	2/8/22 20:52		BRF
Chloroethane	ND	0.035	0.026		ND	0.093	0.068	0.702	2/8/22 20:52		BRF
Chloroform	0.018	0.035	0.0085	J	0.086	0.17	0.041	0.702	2/8/22 20:52		BRF
Chloromethane	0.45	0.070	0.014		0.93	0.14	0.030	0.702	2/8/22 20:52		BRF
Cyclohexane	0.11	0.035	0.023		0.37	0.12	0.080	0.702	2/8/22 20:52		BRF
Dibromochloromethane	ND	0.035	0.012		ND	0.30	0.10	0.702	2/8/22 20:52		BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.0098		ND	0.27	0.075	0.702	2/8/22 20:52		BRF
1,2-Dichlorobenzene	ND	0.035	0.013		ND	0.21	0.078	0.702	2/8/22 20:52		BRF
1,3-Dichlorobenzene	ND	0.035	0.0085		ND	0.21	0.051	0.702	2/8/22 20:52		BRF
1,4-Dichlorobenzene	ND	0.035	0.014		ND	0.21	0.086	0.702	2/8/22 20:52		BRF
Dichlorodifluoromethane (Freon 12)	0.25	0.035	0.011		1.3	0.17	0.053	0.702	2/8/22 20:52		BRF
1,1-Dichloroethane	ND	0.035	0.012		ND	0.14	0.048	0.702	2/8/22 20:52		BRF
1,2-Dichloroethane	ND	0.035	0.013		ND	0.14	0.052	0.702	2/8/22 20:52		BRF
1,1-Dichloroethylene	ND	0.035	0.014		ND	0.14	0.055	0.702	2/8/22 20:52		BRF
cis-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.047	0.702	2/8/22 20:52		BRF
trans-1,2-Dichloroethylene	ND	0.035	0.012		ND	0.14	0.049	0.702	2/8/22 20:52		BRF
1,2-Dichloropropane	ND	0.035	0.013		ND	0.16	0.059	0.702	2/8/22 20:52		BRF
cis-1,3-Dichloropropene	ND	0.035	0.016		ND	0.16	0.074	0.702	2/8/22 20:52		BRF
trans-1,3-Dichloropropene	ND	0.035	0.011		ND	0.16	0.049	0.702	2/8/22 20:52		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.012		ND	0.25	0.085	0.702	2/8/22 20:52		BRF
1,4-Dioxane	ND	0.35	0.024		ND	1.3	0.086	0.702	2/8/22 20:52		BRF
Ethanol	15	1.4	0.43		28	2.6	0.80	0.702	2/8/22 20:52		BRF
Ethyl Acetate	ND	0.35	0.21	L-03, V-34	ND	1.3	0.75	0.702	2/8/22 20:52		BRF
Ethylbenzene	0.099	0.035	0.0091		0.43	0.15	0.039	0.702	2/8/22 20:52		BRF
4-Ethyltoluene	0.027	0.035	0.011	J	0.13	0.17	0.053	0.702	2/8/22 20:52		BRF
Heptane	0.082	0.035	0.014		0.34	0.14	0.059	0.702	2/8/22 20:52		BRF
Hexachlorobutadiene	ND	0.035	0.020		ND	0.37	0.21	0.702	2/8/22 20:52		BRF
Hexane	0.28	1.4	0.12	J	0.98	4.9	0.41	0.702	2/8/22 20:52		BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.702	2/8/22 20:52		BRF
Isopropanol	0.71	1.4	0.32	J	1.7	3.4	0.79	0.702	2/8/22 20:52		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.014		ND	0.13	0.051	0.702	2/8/22 20:52		BRF
Methylene Chloride	0.25	0.35	0.081	J	0.86	1.2	0.28	0.702	2/8/22 20:52		BRF
4-Methyl-2-pentanone (MIBK)	0.075	0.035	0.018		0.31	0.14	0.074	0.702	2/8/22 20:52		BRF
Naphthalene	0.024	0.035	0.022	L-05, V-06, J	0.13	0.18	0.12	0.702	2/8/22 20:52		BRF
Propene	ND	1.4	0.12		ND	2.4	0.20	0.702	2/8/22 20:52		BRF
Styrene	0.052	0.035	0.011		0.22	0.15	0.047	0.702	2/8/22 20:52		BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.011		ND	0.24	0.074	0.702	2/8/22 20:52		BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 1/28/2022
Field Sample #: 22A121-OA-120
Sample ID: 22A1637-12
 Sample Matrix: Ambient Air
 Sampled: 1/27/2022 08:25

Sample Description/Location: H-120
 Sub Description/Location:
 Canister ID: 2196
 Canister Size: 6 liter
 Flow Controller ID: 3249
 Sample Type: 24 hr

Work Order: 22A1637
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -6.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	0.29	0.035	0.010		1.9	0.24	0.070	0.702	2/8/22 20:52		BRF
Tetrahydrofuran	ND	0.35	0.087		ND	1.0	0.26	0.702	2/8/22 20:52		BRF
Toluene	2.9	0.035	0.015		11	0.13	0.055	0.702	2/8/22 20:52		BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND	0.26	0.18	0.702	2/8/22 20:52		BRF
1,1,1-Trichloroethane	ND	0.035	0.016		ND	0.19	0.088	0.702	2/8/22 20:52		BRF
1,1,2-Trichloroethane	ND	0.035	0.014		ND	0.19	0.076	0.702	2/8/22 20:52		BRF
Trichloroethylene	0.020	0.035	0.013	J	0.11	0.19	0.070	0.702	2/8/22 20:52		BRF
Trichlorofluoromethane (Freon 11)	0.23	0.14	0.014		1.3	0.79	0.078	0.702	2/8/22 20:52		BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.057	0.14	0.012	J	0.44	1.1	0.095	0.702	2/8/22 20:52		BRF
1,2,4-Trimethylbenzene	0.094	0.035	0.010		0.46	0.17	0.051	0.702	2/8/22 20:52		BRF
1,3,5-Trimethylbenzene	0.027	0.035	0.0096	J	0.13	0.17	0.047	0.702	2/8/22 20:52		BRF
Vinyl Acetate	ND	0.70	0.066	V-05	ND UJ	2.5	0.23	0.702	2/8/22 20:52		BRF
Vinyl Chloride	ND	0.035	0.014		ND	0.090	0.036	0.702	2/8/22 20:52		BRF
m&p-Xylene	0.35	0.070	0.019		1.5	0.30	0.084	0.702	2/8/22 20:52		BRF
o-Xylene	0.11	0.035	0.0094		0.49	0.15	0.041	0.702	2/8/22 20:52		BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	100	70-130	2/8/22 20:52

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VALIDATA

Chemical Services, Inc.

2159 Wynnton Pointe, Duluth, GA 30097

(770) 232-0130

(770) 232-5082 (Fax)

www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY: AECOM Technical Services Northeast, Inc.
PROJECT NAME: Meeker Ave. SVI
CONTRACTED LAB: con-test Analytical Laboratory
QA/QC LEVEL: DUSR
ANALYTICAL METHOD(S): EPA Method TO-15
VALIDATION GUIDELINES: USEPA Region II data validation SOP ((VOA-TO15 HW-31 Rev.6, Analysis of VOCs in Air contained in Canisters by Method TO-15, September 2016), Professional Judgment
SAMPLE MATRIX: Air
TYPES OF ANALYSES: Volatile Organic Compounds (VOC)
DATA REVIEWER(S): Amy L. Hogan
SDG NUMBER: 22B0272
SAMPLING DATE(S): February 1, 2022

SAMPLES:

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>VOC</u>
224121-IAA-104	22B0272-01	X
224121-IAA-104DL	22B0272-01DL	X
224121-IAB-104	22B0272-02	X
224121-IAB-104DL	22B0272-02DL	X
224121-IAB-104MD	22B0272-02MD	X
224121-OA-104	22B02072-03	X
224121-SS-121	22B0272-04	X
224121-IA-121	22B0272-05	X
224121-IA-121DL	22B0272-05DL	X
224121-OA-121	22B0272-06	X
224121-SS-122	22B0272-07	X
224121-IA-122	22B0272-08	X
224121-SS-123	22B0272-09	X
224121-SS-123MD	22B0272-09MD	X
FD-020122	22B0272-10	X
224121-IA-123	22B0272-11	X
224121-IA-123DL1	22B0272-11DL1	X

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>VOC</u>
224121-IA-123DL2	22B0272-11DL2	X
224121-OA-123	22B0272-12	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Con-test Analytical Laboratory – 22B0272

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per EPA Method TO-15.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The Percent Relative Standard Deviation (%RSD) for the standards analyzed on 8/20/21 on instrument SYSJ was 39.6% for 1,2,4-trichlorobenzene, which exceeded the 30% QC limit. The 1,2,4-trichlorobenzene results for the samples, which consisted entirely of non-detects, were qualified as estimated (UJ).

Initial Calibration Verification:

The Percent Differences (%Ds) for the standards run on 8/21/21 at 02:04 on instrument SYSJ exceeded the 30% QC limit for the following compounds:

Vinyl acetate	-32.9%
Ethyl acetate	34.7%

All positive and non-detect results for these compounds in the SDG samples were qualified as

estimated (J) and (UJ).

Continuing Calibration:

The Percent Differences (%Ds) for the standards run on 2/11/22 at 08:42 on instrument SYSJ exceeded the 30% QC limit for the following compounds:

Benzene	34.5%
2-hexanone	51.2%
4-methyl-2-pentanone	41.2%

All positive and non-detect results for these compounds in the associated SDG samples were qualified as estimated (J) and (UJ). The associated SDG samples were: 224121-IAA-104, 224121-IAB-104, 224121-OA-104, 224121-IA-121, 224121-OA-121, 224121-IA-122, FD-020122, 224121-IA-123 and 224121-OA-123.

The Percent Difference (%D) for the standards run on 2/14-21 at 08:57 on instrument SYSJ was -43.7% for vinyl acetate, which exceeded the 30% QC limit. Since the compound was not a target compound for the associated SDG sample analyses, no data qualification was necessary.

The Percent Differences (%Ds) for the standards run on 2/15/21 at 08:55 on instrument SYSJ exceeded the 30% QC limit for the following compounds:

2-hexanone	30.2%
Vinyl acetate	-40.7%

The positive and non-detect results for these compounds in associated SDG samples 224121-SS-121, 224121-SS-122 and 224121-SS-123 were qualified as estimated (J) and (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Canister Blanks:

There were no detects in the canister check blanks for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

Three LCS were analyzed by the laboratory for this SDG. The Percent Recoveries (%Rs) for LCS B301304-BS1 were outside the 70-130% QC limits for the following compounds:

Ethyl acetate	68.6%
2-hexanone	156%
4-methyl-2-pentanone	138%
Vinyl acetate	139%

All positive and non-detect ethyl acetate results for the associated SDG samples were qualified as estimated (J) and (UJ) and the positive results for the other listed compounds in the associated SDG samples were qualified as estimated (J). The associated SDG samples were: 224121-IAA-104, 224121-IAB-104, 224121-OA-104, 224121-IA-121, 224121-OA-121, 224121-IA-122, FD-020122, 224121-IA-123 and 224121-OA-123.

The Percent Recoveries (%Rs) for LCS B301208-BS1 were outside the 70-130% QC limits for the following compounds:

Ethyl acetate	59.9%
Hexachlorobutadiene	63.9%
2-hexanone	132%
1,2,4-trichlorobenzene	61.0%

Since the listed compounds were not target compounds for the associated SDG samples, no data qualification was necessary.

The Percent Recoveries (%Rs) for LCS B301320-BS1 were outside the 70-130% QC limits for the following compounds:

Ethyl acetate	59.6%
Hexachlorobutadiene	64.1%
1,2,4-trichlorobenzene	60.7%

The positive and non-detect results for these compounds in associated SDG samples 224121-SS-121, 224121-SS-122 and 224121-SS-123 were qualified as estimated (J) and (UJ).

IX.) Matrix Duplicate:

Matrix Duplicate analysis was performed using SDG samples 224121-IAB-104 and 224121-SS-123. All criteria were met. No data qualification was necessary.

X.) Field Duplicates:

One set of field duplicate samples (224121-SS-123 / FD-020122) was identified as part of this SDG. The calculable Relative Percent Differences (RPDs) for the first set were:

Acetone	12%
Benzene	2.1%
2-butanone	6.5%
Carbon disulfide	33%
Chloroethane	5.7%
Chloroform	13%
Freon 12	8.7%
1,1-dichloroethane	16%
1,2-dichloroethane	15%
Ethanol	5.8%
Ethyl acetate	20%
Heptane	43%
Isopropanol	3.9%
Tetrachloroethylene	0%
Toluene	8.7%
Freon 11	8.7%
Vinyl chloride	0%

All RPDs were within the 50% QC limit. It was noted by the validator that the vinyl acetate result for 224121-SS-123 was reported at 160 ug/m³ and the vinyl acetate result for the field duplicate FD-020122 was reported as non-detect. Given the significant difference between these two results and citing professional judgment, the validator has qualified the vinyl acetate results for the two samples as estimated (J) and (UJ).

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

The initial analysis acetone result for samples 224121-IA-123 and the initial analysis ethanol results for samples 224121-IAA-104, 224121-IAB-104, 224121-IA-121 and 224121-IA-123 exceeded the linear calibration range. A dilution analysis was performed for each of the listed samples (2 for 224121-IA-123) with all calibration criteria met. Since the Form I for each sample was a composite of the results, no data qualification was necessary.

All other CRQL criteria were met.

Appendix A

Qualified Form Is

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown

Date Received: 2/4/2022

Field Sample #: 224121-IAA-104

Sample ID: 22B0272-01

Sample Matrix: Indoor air

Sampled: 2/1/2022 07:45

Sample Description/Location: H-104

Sub Description/Location:

Canister ID: 1344

Canister Size:

Flow Controller ID: 3571

Sample Type: 6 hr

Work Order: 22B0272

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -11

Receipt Vacuum(in Hg): -8.4

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	Results	ppbv		MDL	Flag/Qual	Results	ug/m3		Dilution	Date/Time		Analyst
		RL	MDL				RL	MDL		Analyzed		
Acetone	ND	1.4	0.84			ND	3.3	2.0	0.698	2/11/22 14:34		BRF
Benzene	0.60	0.035	0.026		V-06	1.9 J	0.11	0.084	0.698	2/11/22 14:34		BRF
Benzyl chloride	ND	0.035	0.031			ND	0.18	0.16	0.698	2/11/22 14:34		BRF
Bromodichloromethane	ND	0.035	0.024			ND	0.23	0.16	0.698	2/11/22 14:34		BRF
Bromoform	ND	0.035	0.024			ND	0.36	0.25	0.698	2/11/22 14:34		BRF
Bromomethane	ND	0.035	0.028			ND	0.14	0.11	0.698	2/11/22 14:34		BRF
1,3-Butadiene	ND	0.035	0.029			ND	0.077	0.065	0.698	2/11/22 14:34		BRF
2-Butanone (MEK)	0.39	1.4	0.37		J	1.1	4.1	1.1	0.698	2/11/22 14:34		BRF
Carbon Disulfide	ND	0.35	0.032			ND	1.1	0.10	0.698	2/11/22 14:34		BRF
Carbon Tetrachloride	0.078	0.035	0.028			0.49	0.22	0.17	0.698	2/11/22 14:34		BRF
Chlorobenzene	ND	0.035	0.023			ND	0.16	0.11	0.698	2/11/22 14:34		BRF
Chloroethane	ND	0.035	0.025			ND	0.092	0.067	0.698	2/11/22 14:34		BRF
Chloroform	0.045	0.035	0.033			0.22	0.17	0.16	0.698	2/11/22 14:34		BRF
Chloromethane	0.60	0.070	0.028			1.2	0.14	0.057	0.698	2/11/22 14:34		BRF
Cyclohexane	0.098	0.035	0.023			0.34	0.12	0.079	0.698	2/11/22 14:34		BRF
Dibromochloromethane	ND	0.035	0.023			ND	0.30	0.20	0.698	2/11/22 14:34		BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021			ND	0.27	0.16	0.698	2/11/22 14:34		BRF
1,2-Dichlorobenzene	ND	0.035	0.020			ND	0.21	0.12	0.698	2/11/22 14:34		BRF
1,3-Dichlorobenzene	ND	0.035	0.019			ND	0.21	0.12	0.698	2/11/22 14:34		BRF
1,4-Dichlorobenzene	ND	0.035	0.023			ND	0.21	0.14	0.698	2/11/22 14:34		BRF
Dichlorodifluoromethane (Freon 12)	0.47	0.035	0.034			2.3	0.17	0.17	0.698	2/11/22 14:34		BRF
1,1-Dichloroethane	ND	0.035	0.030			ND	0.14	0.12	0.698	2/11/22 14:34		BRF
1,2-Dichloroethane	ND	0.035	0.032			ND	0.14	0.13	0.698	2/11/22 14:34		BRF
1,1-Dichloroethylene	ND	0.035	0.027			ND	0.14	0.11	0.698	2/11/22 14:34		BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025			ND	0.14	0.10	0.698	2/11/22 14:34		BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027			ND	0.14	0.11	0.698	2/11/22 14:34		BRF
1,2-Dichloropropane	ND	0.035	0.019			ND	0.16	0.087	0.698	2/11/22 14:34		BRF
cis-1,3-Dichloropropene	ND	0.035	0.018			ND	0.16	0.082	0.698	2/11/22 14:34		BRF
trans-1,3-Dichloropropene	ND	0.035	0.018			ND	0.16	0.081	0.698	2/11/22 14:34		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034			ND	0.24	0.24	0.698	2/11/22 14:34		BRF
1,4-Dioxane	ND	0.35	0.029			ND	1.3	0.10	0.698	2/11/22 14:34		BRF
Ethanol	230	40	18			430	75	33	20	2/14/22 21:10		BRF
Ethyl Acetate	2.4	0.35	0.18		L-03, V-34	8.6 J	1.3	0.64	0.698	2/11/22 14:34		BRF
Ethylbenzene	1.0	0.035	0.020			4.5	0.15	0.088	0.698	2/11/22 14:34		BRF
4-Ethyltoluene	0.066	0.035	0.021			0.33	0.17	0.11	0.698	2/11/22 14:34		BRF
Heptane	0.19	0.035	0.022			0.77	0.14	0.091	0.698	2/11/22 14:34		BRF
Hexachlorobutadiene	ND	0.035	0.029			ND	0.37	0.31	0.698	2/11/22 14:34		BRF
Hexane	0.31	1.4	0.18		J	1.1	4.9	0.64	0.698	2/11/22 14:34		BRF
2-Hexanone (MBK)	ND	0.070	0.018			ND UJ	0.29	0.072	0.698	2/11/22 14:34		BRF
Isopropanol	12	1.4	0.24			29	3.4	0.59	0.698	2/11/22 14:34		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027			ND	0.13	0.097	0.698	2/11/22 14:34		BRF
Methylene Chloride	0.52	0.35	0.16			1.8	1.2	0.56	0.698	2/11/22 14:34		BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018			ND UJ	0.14	0.073	0.698	2/11/22 14:34		BRF
Naphthalene	0.091	0.035	0.022			0.48	0.18	0.12	0.698	2/11/22 14:34		BRF
Propene	ND	1.4	0.31			ND	2.4	0.53	0.698	2/11/22 14:34		BRF
Styrene	1.5	0.035	0.018			6.2	0.15	0.078	0.698	2/11/22 14:34		BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019			ND	0.24	0.13	0.698	2/11/22 14:34		BRF

ALH 2/23/22

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdow

Date Received: 2/4/2022

Field Sample #: 224121-IAA-104

Sample ID: 22B0272-01

Sample Matrix: Indoor air

Sampled: 2/1/2022 07:45

Sample Description/Location: H-104

Sub Description/Location:

Canister ID: 1344

Canister Size:

Flow Controller ID: 3571

Sample Type: 6 hr

Work Order: 22B0272

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -11

Receipt Vacuum(in Hg): -8.4

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	Results	ppbv		Flag/Qual	Results	ug/m3		Dilution	Date/Time	
		RL	MDL			RL	MDL		Analyzed	Analyst
Tetrachloroethylene	2.0	0.035	0.027	V-04	14	0.24	0.18	0.698	2/11/22 14:34	BRF
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	2/11/22 14:34	BRF
Toluene	1.3	0.035	0.020		4.9	0.13	0.075	0.698	2/11/22 14:34	BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024		ND UJ	0.52	0.18	0.698	2/11/22 14:34	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	2/11/22 14:34	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	2/11/22 14:34	BRF
Trichloroethylene	0.031	0.035	0.024	J	0.17	0.19	0.13	0.698	2/11/22 14:34	BRF
Trichlorofluoromethane (Freon 11)	0.21	0.14	0.041	J	1.2	0.78	0.23	0.698	2/11/22 14:34	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.068	0.14	0.039		0.52	1.1	0.30	0.698	2/11/22 14:34	BRF
1,2,4-Trimethylbenzene	0.29	0.035	0.015		1.4	0.17	0.076	0.698	2/11/22 14:34	BRF
1,3,5-Trimethylbenzene	0.10	0.035	0.018		0.51	0.17	0.091	0.698	2/11/22 14:34	BRF
Vinyl Acetate	ND	0.70	0.19		ND UJ	2.5	0.66	0.698	2/11/22 14:34	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	2/11/22 14:34	BRF
m&p-Xylene	2.2	0.070	0.039		9.4	0.30	0.17	0.698	2/11/22 14:34	BRF
o-Xylene	0.80	0.035	0.018		3.5	0.15	0.078	0.698	2/11/22 14:34	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	93.2	70-130	2/11/22 14:34
4-Bromofluorobenzene (1)	84.7	70-130	2/14/22 21:10

ALH 2/23/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/4/2022
Field Sample #: 224121-IAB-104
Sample ID: 22B0272-02
 Sample Matrix: Indoor air
 Sampled: 2/1/2022 07:46

Sample Description/Location: H-104
 Sub Description/Location:
 Canister ID: 2226
 Canister Size:
 Flow Controller ID: 3639
 Sample Type: 6 hr

Work Order: 22B0272
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed		
Acetone	11	1.4	0.84			27	3.3	2.0	0.698	2/11/22 15:36	BRF
Benzene	0.62	0.035	0.026		V-06	2.0 J	0.11	0.084	0.698	2/11/22 15:36	BRF
Benzyl chloride	ND	0.035	0.031			ND	0.18	0.16	0.698	2/11/22 15:36	BRF
Bromodichloromethane	ND	0.035	0.024			ND	0.23	0.16	0.698	2/11/22 15:36	BRF
Bromoform	ND	0.035	0.024			ND	0.36	0.25	0.698	2/11/22 15:36	BRF
Bromomethane	ND	0.035	0.028			ND	0.14	0.11	0.698	2/11/22 15:36	BRF
1,3-Butadiene	ND	0.035	0.029			ND	0.077	0.065	0.698	2/11/22 15:36	BRF
2-Butanone (MEK)	0.71	1.4	0.37		J	2.1	4.1	1.1	0.698	2/11/22 15:36	BRF
Carbon Disulfide	ND	0.35	0.032			ND	1.1	0.10	0.698	2/11/22 15:36	BRF
Carbon Tetrachloride	0.090	0.035	0.028			0.57	0.22	0.17	0.698	2/11/22 15:36	BRF
Chlorobenzene	ND	0.035	0.023			ND	0.16	0.11	0.698	2/11/22 15:36	BRF
Chloroethane	ND	0.035	0.025			ND	0.092	0.067	0.698	2/11/22 15:36	BRF
Chloroform	0.045	0.035	0.033			0.22	0.17	0.16	0.698	2/11/22 15:36	BRF
Chloromethane	0.54	0.070	0.028			1.1	0.14	0.057	0.698	2/11/22 15:36	BRF
Cyclohexane	ND	0.035	0.023			ND	0.12	0.079	0.698	2/11/22 15:36	BRF
Dibromochloromethane	ND	0.035	0.023			ND	0.30	0.20	0.698	2/11/22 15:36	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021			ND	0.27	0.16	0.698	2/11/22 15:36	BRF
1,2-Dichlorobenzene	ND	0.035	0.020			ND	0.21	0.12	0.698	2/11/22 15:36	BRF
1,3-Dichlorobenzene	ND	0.035	0.019			ND	0.21	0.12	0.698	2/11/22 15:36	BRF
1,4-Dichlorobenzene	ND	0.035	0.023			ND	0.21	0.14	0.698	2/11/22 15:36	BRF
Dichlorodifluoromethane (Freon 12)	0.46	0.035	0.034			2.3	0.17	0.17	0.698	2/11/22 15:36	BRF
1,1-Dichloroethane	ND	0.035	0.030			ND	0.14	0.12	0.698	2/11/22 15:36	BRF
1,2-Dichloroethane	ND	0.035	0.032			ND	0.14	0.13	0.698	2/11/22 15:36	BRF
1,1-Dichloroethylene	ND	0.035	0.027			ND	0.14	0.11	0.698	2/11/22 15:36	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025			ND	0.14	0.10	0.698	2/11/22 15:36	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027			ND	0.14	0.11	0.698	2/11/22 15:36	BRF
1,2-Dichloropropane	ND	0.035	0.019			ND	0.16	0.087	0.698	2/11/22 15:36	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018			ND	0.16	0.082	0.698	2/11/22 15:36	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018			ND	0.16	0.081	0.698	2/11/22 15:36	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034			ND	0.24	0.24	0.698	2/11/22 15:36	BRF
1,4-Dioxane	ND	0.35	0.029			ND	1.3	0.10	0.698	2/11/22 15:36	BRF
Ethanol	330	40	18			620	75	33	20	2/14/22 21:34	BRF
Ethyl Acetate	2.3	0.35	0.18		L-03, V-34	8.1 J	1.3	0.64	0.698	2/11/22 15:36	BRF
Ethylbenzene	0.35	0.035	0.020			1.5	0.15	0.088	0.698	2/11/22 15:36	BRF
4-Ethyltoluene	0.059	0.035	0.021			0.29	0.17	0.11	0.698	2/11/22 15:36	BRF
Heptane	0.17	0.035	0.022			0.70	0.14	0.091	0.698	2/11/22 15:36	BRF
Hexachlorobutadiene	ND	0.035	0.029			ND	0.37	0.31	0.698	2/11/22 15:36	BRF
Hexane	0.29	1.4	0.18		J	1.0	4.9	0.64	0.698	2/11/22 15:36	BRF
2-Hexanone (MBK)	ND	0.070	0.018			ND UJ	0.29	0.072	0.698	2/11/22 15:36	BRF
Isopropanol	2.4	1.4	0.24			5.8	3.4	0.59	0.698	2/11/22 15:36	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027			ND	0.13	0.097	0.698	2/11/22 15:36	BRF
Methylene Chloride	0.54	0.35	0.16			1.9	1.2	0.56	0.698	2/11/22 15:36	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018			ND UJ	0.14	0.073	0.698	2/11/22 15:36	BRF
Naphthalene	0.17	0.035	0.022			0.88	0.18	0.12	0.698	2/11/22 15:36	BRF
Propene	ND	1.4	0.31			ND	2.4	0.53	0.698	2/11/22 15:36	BRF
Styrene	0.35	0.035	0.018			1.5	0.15	0.078	0.698	2/11/22 15:36	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019			ND	0.24	0.13	0.698	2/11/22 15:36	BRF

ALH 2/23/22

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdow

Date Received: 2/4/2022

Field Sample #: 224121-IAB-104

Sample ID: 22B0272-02

Sample Matrix: Indoor air

Sampled: 2/1/2022 07:46

Sample Description/Location: H-104

Sub Description/Location:

Canister ID: 2226

Canister Size:

Flow Controller ID: 3639

Sample Type: 6 hr

Work Order: 22B0272

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -10

Receipt Vacuum(in Hg): -9

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	Results	ppbv		Flag/Qual	Results	ug/m3		MDL	Dilution	Date/Time		Analyst
		RL	MDL			RL	MDL			Analyzed		
Tetrachloroethylene	2.4	0.035	0.027		16	0.24	0.18	0.698	2/11/22 15:36	BRF		
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	2/11/22 15:36	BRF		
Toluene	1.4	0.035	0.020		5.1	0.13	0.075	0.698	2/11/22 15:36	BRF		
1,2,4-Trichlorobenzene	ND	0.070	0.024	V-04	ND	0.52	0.18	0.698	2/11/22 15:36	BRF		
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	2/11/22 15:36	BRF		
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	2/11/22 15:36	BRF		
Trichloroethylene	0.028	0.035	0.024	J	0.15	0.19	0.13	0.698	2/11/22 15:36	BRF		
Trichlorofluoromethane (Freon 11)	0.22	0.14	0.041		1.2	0.78	0.23	0.698	2/11/22 15:36	BRF		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.068	0.14	0.039	J	0.52	1.1	0.30	0.698	2/11/22 15:36	BRF		
1,2,4-Trimethylbenzene	0.20	0.035	0.015		0.97	0.17	0.076	0.698	2/11/22 15:36	BRF		
1,3,5-Trimethylbenzene	0.063	0.035	0.018		0.31	0.17	0.091	0.698	2/11/22 15:36	BRF		
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.698	2/11/22 15:36	BRF		
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	2/11/22 15:36	BRF		
m&p-Xylene	0.80	0.070	0.039		3.5	0.30	0.17	0.698	2/11/22 15:36	BRF		
o-Xylene	0.33	0.035	0.018		1.4	0.15	0.078	0.698	2/11/22 15:36	BRF		

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	84.4	70-130	2/14/22 21:34
4-Bromofluorobenzene (1)	92.5	70-130	2/11/22 15:36

ALH 2/23/22

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/4/2022
Field Sample #: 224121-OA-104
Sample ID: 22B0272-03
 Sample Matrix: Ambient Air
 Sampled: 2/1/2022 07:50

Sample Description/Location: H-104
 Sub Description/Location:
 Canister ID: 1948
 Canister Size:
 Flow Controller ID: 3553
 Sample Type: 6 hr

Work Order: 22B0272
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -7.5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed		
Acetone	3.6	1.4	0.84			8.5	3.3	2.0	0.698	2/11/22 15:05	BRF
Benzene	0.44	0.035	0.026		V-06	1.4 J	0.11	0.084	0.698	2/11/22 15:05	BRF
Benzyl chloride	ND	0.035	0.031			ND	0.18	0.16	0.698	2/11/22 15:05	BRF
Bromodichloromethane	ND	0.035	0.024			ND	0.23	0.16	0.698	2/11/22 15:05	BRF
Bromoform	ND	0.035	0.024			ND	0.36	0.25	0.698	2/11/22 15:05	BRF
Bromomethane	ND	0.035	0.028			ND	0.14	0.11	0.698	2/11/22 15:05	BRF
1,3-Butadiene	ND	0.035	0.029			ND	0.077	0.065	0.698	2/11/22 15:05	BRF
2-Butanone (MEK)	0.48	1.4	0.37		J	1.4	4.1	1.1	0.698	2/11/22 15:05	BRF
Carbon Disulfide	ND	0.35	0.032			ND	1.1	0.10	0.698	2/11/22 15:05	BRF
Carbon Tetrachloride	0.097	0.035	0.028			0.61	0.22	0.17	0.698	2/11/22 15:05	BRF
Chlorobenzene	ND	0.035	0.023			ND	0.16	0.11	0.698	2/11/22 15:05	BRF
Chloroethane	ND	0.035	0.025			ND	0.092	0.067	0.698	2/11/22 15:05	BRF
Chloroform	ND	0.035	0.033			ND	0.17	0.16	0.698	2/11/22 15:05	BRF
Chloromethane	0.51	0.070	0.028			1.1	0.14	0.057	0.698	2/11/22 15:05	BRF
Cyclohexane	0.082	0.035	0.023			0.28	0.12	0.079	0.698	2/11/22 15:05	BRF
Dibromochloromethane	ND	0.035	0.023			ND	0.30	0.20	0.698	2/11/22 15:05	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021			ND	0.27	0.16	0.698	2/11/22 15:05	BRF
1,2-Dichlorobenzene	ND	0.035	0.020			ND	0.21	0.12	0.698	2/11/22 15:05	BRF
1,3-Dichlorobenzene	ND	0.035	0.019			ND	0.21	0.12	0.698	2/11/22 15:05	BRF
1,4-Dichlorobenzene	ND	0.035	0.023			ND	0.21	0.14	0.698	2/11/22 15:05	BRF
Dichlorodifluoromethane (Freon 12)	0.47	0.035	0.034			2.3	0.17	0.17	0.698	2/11/22 15:05	BRF
1,1-Dichloroethane	ND	0.035	0.030			ND	0.14	0.12	0.698	2/11/22 15:05	BRF
1,2-Dichloroethane	ND	0.035	0.032			ND	0.14	0.13	0.698	2/11/22 15:05	BRF
1,1-Dichloroethylene	ND	0.035	0.027			ND	0.14	0.11	0.698	2/11/22 15:05	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025			ND	0.14	0.10	0.698	2/11/22 15:05	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027			ND	0.14	0.11	0.698	2/11/22 15:05	BRF
1,2-Dichloropropane	ND	0.035	0.019			ND	0.16	0.087	0.698	2/11/22 15:05	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018			ND	0.16	0.082	0.698	2/11/22 15:05	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018			ND	0.16	0.081	0.698	2/11/22 15:05	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034			ND	0.24	0.24	0.698	2/11/22 15:05	BRF
1,4-Dioxane	ND	0.35	0.029			ND	1.3	0.10	0.698	2/11/22 15:05	BRF
Ethanol	12	1.4	0.62			23	2.6	1.2	0.698	2/11/22 15:05	BRF
Ethyl Acetate	2.0	0.35	0.18		L-03, V-34	7.1 J	1.3	0.64	0.698	2/11/22 15:05	BRF
Ethylbenzene	0.11	0.035	0.020			0.48	0.15	0.088	0.698	2/11/22 15:05	BRF
4-Ethyltoluene	0.041	0.035	0.021			0.20	0.17	0.11	0.698	2/11/22 15:05	BRF
Heptane	0.14	0.035	0.022			0.59	0.14	0.091	0.698	2/11/22 15:05	BRF
Hexachlorobutadiene	ND	0.035	0.029			ND	0.37	0.31	0.698	2/11/22 15:05	BRF
Hexane	0.20	1.4	0.18		J	0.70	4.9	0.64	0.698	2/11/22 15:05	BRF
2-Hexanone (MBK)	ND	0.070	0.018			ND UJ	0.29	0.072	0.698	2/11/22 15:05	BRF
Isopropanol	0.96	1.4	0.24		J	2.4	3.4	0.59	0.698	2/11/22 15:05	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027			ND	0.13	0.097	0.698	2/11/22 15:05	BRF
Methylene Chloride	0.56	0.35	0.16			1.9	1.2	0.56	0.698	2/11/22 15:05	BRF
4-Methyl-2-pentanone (MIBK)	0.071	0.035	0.018		L-05, V-06	0.29 J	0.14	0.073	0.698	2/11/22 15:05	BRF
Naphthalene	0.033	0.035	0.022		J	0.17	0.18	0.12	0.698	2/11/22 15:05	BRF
Propene	ND	1.4	0.31			ND	2.4	0.53	0.698	2/11/22 15:05	BRF
Styrene	0.026	0.035	0.018		J	0.11	0.15	0.078	0.698	2/11/22 15:05	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019			ND	0.24	0.13	0.698	2/11/22 15:05	BRF

ALH 2/23/22

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown

Date Received: 2/4/2022

Field Sample #: 224121-OA-104

Sample ID: 22B0272-03

Sample Matrix: Ambient Air

Sampled: 2/1/2022 07:50

Sample Description/Location: H-104

Sub Description/Location:

Canister ID: 1948

Canister Size:

Flow Controller ID: 3553

Sample Type: 6 hr

Work Order: 22B0272

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -10

Receipt Vacuum(in Hg): -7.5

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	0.85	0.035	0.027	V-04	5.8	0.24	0.18	0.698	2/11/22 15:05	BRF
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	2/11/22 15:05	BRF
Toluene	1.0	0.035	0.020		3.8	0.13	0.075	0.698	2/11/22 15:05	BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024		ND UJ	0.52	0.18	0.698	2/11/22 15:05	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	2/11/22 15:05	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	2/11/22 15:05	BRF
Trichloroethylene	ND	0.035	0.024	J	ND	0.19	0.13	0.698	2/11/22 15:05	BRF
Trichlorofluoromethane (Freon 11)	0.22	0.14	0.041		1.2	0.78	0.23	0.698	2/11/22 15:05	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.061	0.14	0.039		0.47	1.1	0.30	0.698	2/11/22 15:05	BRF
1,2,4-Trimethylbenzene	0.15	0.035	0.015		0.76	0.17	0.076	0.698	2/11/22 15:05	BRF
1,3,5-Trimethylbenzene	0.052	0.035	0.018		0.25	0.17	0.091	0.698	2/11/22 15:05	BRF
Vinyl Acetate	0.25	0.70	0.19		L-05, V-35, J	0.89 J	2.5	0.66	0.698	2/11/22 15:05
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	2/11/22 15:05	BRF
m&p-Xylene	0.32	0.070	0.039		1.4	0.30	0.17	0.698	2/11/22 15:05	BRF
o-Xylene	0.13	0.035	0.018		0.58	0.15	0.078	0.698	2/11/22 15:05	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	91.4	70-130	2/11/22 15:05

ALH 2/23/22

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/4/2022
Field Sample #: 224121-SS-121
Sample ID: 22B0272-04
 Sample Matrix: Sub Slab
 Sampled: 2/1/2022 09:16

Sample Description/Location: H-121
 Sub Description/Location:
 Canister ID: 2001
 Canister Size:
 Flow Controller ID: 3488
 Sample Type: 6 hr

Work Order: 22B0272
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -8.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed		
Acetone	19	4.0	2.4			46	9.5	5.7	2	2/15/22 21:26	BRF
Benzene	0.85	0.10	0.076			2.7	0.32	0.24	2	2/15/22 21:26	BRF
Benzyl chloride	ND	0.10	0.088			ND	0.52	0.46	2	2/15/22 21:26	BRF
Bromodichloromethane	ND	0.10	0.070			ND	0.67	0.47	2	2/15/22 21:26	BRF
Bromoform	ND	0.10	0.068			ND	1.0	0.70	2	2/15/22 21:26	BRF
Bromomethane	ND	0.10	0.082			ND	0.39	0.32	2	2/15/22 21:26	BRF
1,3-Butadiene	ND	0.10	0.084			ND	0.22	0.19	2	2/15/22 21:26	BRF
2-Butanone (MEK)	7.0	4.0	1.1			21	12	3.1	2	2/15/22 21:26	BRF
Carbon Disulfide	0.28	1.0	0.092	J		0.87	3.1	0.29	2	2/15/22 21:26	BRF
Carbon Tetrachloride	ND	0.10	0.080			ND	0.63	0.50	2	2/15/22 21:26	BRF
Chlorobenzene	ND	0.10	0.066			ND	0.46	0.31	2	2/15/22 21:26	BRF
Chloroethane	17	0.10	0.073			45	0.26	0.19	2	2/15/22 21:26	BRF
Chloroform	0.46	0.10	0.095			2.2	0.49	0.46	2	2/15/22 21:26	BRF
Chloromethane	0.59	0.20	0.079			1.2	0.41	0.16	2	2/15/22 21:26	BRF
Cyclohexane	1.9	0.10	0.066			6.6	0.34	0.23	2	2/15/22 21:26	BRF
Dibromochloromethane	ND	0.10	0.066			ND	0.85	0.56	2	2/15/22 21:26	BRF
1,2-Dibromoethane (EDB)	ND	0.10	0.060			ND	0.77	0.46	2	2/15/22 21:26	BRF
1,2-Dichlorobenzene	ND	0.10	0.057			ND	0.60	0.35	2	2/15/22 21:26	BRF
1,3-Dichlorobenzene	ND	0.10	0.055			ND	0.60	0.33	2	2/15/22 21:26	BRF
1,4-Dichlorobenzene	ND	0.10	0.065			ND	0.60	0.39	2	2/15/22 21:26	BRF
Dichlorodifluoromethane (Freon 12)	0.46	0.10	0.098			2.3	0.49	0.48	2	2/15/22 21:26	BRF
1,1-Dichloroethane	0.84	0.10	0.087			3.4	0.40	0.35	2	2/15/22 21:26	BRF
1,2-Dichloroethane	0.83	0.10	0.091			3.4	0.40	0.37	2	2/15/22 21:26	BRF
1,1-Dichloroethylene	ND	0.10	0.076			ND	0.40	0.30	2	2/15/22 21:26	BRF
cis-1,2-Dichloroethylene	ND	0.10	0.073			ND	0.40	0.29	2	2/15/22 21:26	BRF
trans-1,2-Dichloroethylene	ND	0.10	0.079			ND	0.40	0.31	2	2/15/22 21:26	BRF
1,2-Dichloropropane	ND	0.10	0.054			ND	0.46	0.25	2	2/15/22 21:26	BRF
cis-1,3-Dichloropropene	ND	0.10	0.052			ND	0.45	0.24	2	2/15/22 21:26	BRF
trans-1,3-Dichloropropene	ND	0.10	0.051			ND	0.45	0.23	2	2/15/22 21:26	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098			ND	0.70	0.69	2	2/15/22 21:26	BRF
1,4-Dioxane	ND	1.0	0.083			ND	3.6	0.30	2	2/15/22 21:26	BRF
Ethanol	32	4.0	1.8			60	7.5	3.3	2	2/15/22 21:26	BRF
Ethyl Acetate	3.1	1.0	0.51	L-03, V-34		11 J	3.6	1.8	2	2/15/22 21:26	BRF
Ethylbenzene	0.53	0.10	0.058			2.3	0.43	0.25	2	2/15/22 21:26	BRF
4-Ethyltoluene	ND	0.10	0.061			ND	0.49	0.30	2	2/15/22 21:26	BRF
Heptane	2.2	0.10	0.064			9.0	0.41	0.26	2	2/15/22 21:26	BRF
Hexachlorobutadiene	ND	0.10	0.082	L-03		ND UJ	1.1	0.88	2	2/15/22 21:26	BRF
Hexane	2.4	4.0	0.52	J		8.6	14	1.8	2	2/15/22 21:26	BRF
2-Hexanone (MBK)	ND	0.20	0.050			ND UJ	0.82	0.21	2	2/15/22 21:26	BRF
Isopropanol	2.3	4.0	0.69	J		5.6	9.8	1.7	2	2/15/22 21:26	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.077			ND	0.36	0.28	2	2/15/22 21:26	BRF
Methylene Chloride	ND	1.0	0.46			ND	3.5	1.6	2	2/15/22 21:26	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.051			ND	0.41	0.21	2	2/15/22 21:26	BRF
Naphthalene	ND	0.10	0.063			ND	0.52	0.33	2	2/15/22 21:26	BRF
Propene	ND	4.0	0.88			ND	6.9	1.5	2	2/15/22 21:26	BRF
Styrene	ND	0.10	0.053			ND	0.43	0.22	2	2/15/22 21:26	BRF
1,1,2,2-Tetrachloroethane	ND	0.10	0.054			ND	0.69	0.37	2	2/15/22 21:26	BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/4/2022
Field Sample #: 224121-SS-121
Sample ID: 22B0272-04
 Sample Matrix: Sub Slab
 Sampled: 2/1/2022 09:16

Sample Description/Location: H-121
 Sub Description/Location:
 Canister ID: 2001
 Canister Size:
 Flow Controller ID: 3488
 Sample Type: 6 hr

Work Order: 22B0272
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -8.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	0.21	0.10	0.076	L-03, V-04	1.4	0.68	0.52	2	2/15/22 21:26	BRF	
Tetrahydrofuran	ND	1.0	0.16		ND	2.9	0.48	2	2/15/22 21:26	BRF	
Toluene	2.5	0.10	0.057		9.4	0.38	0.22	2	2/15/22 21:26	BRF	
1,2,4-Trichlorobenzene	ND	0.20	0.070		ND UJ	1.5	0.52	2	2/15/22 21:26	BRF	
1,1,1-Trichloroethane	ND	0.10	0.079		ND	0.55	0.43	2	2/15/22 21:26	BRF	
1,1,2-Trichloroethane	ND	0.10	0.070		ND	0.55	0.38	2	2/15/22 21:26	BRF	
Trichloroethylene	ND	0.10	0.067	J	ND	0.54	0.36	2	2/15/22 21:26	BRF	
Trichlorofluoromethane (Freon 11)	0.22	0.40	0.12		1.3	2.2	0.66	2	2/15/22 21:26	BRF	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	0.11		ND	3.1	0.85	2	2/15/22 21:26	BRF	
1,2,4-Trimethylbenzene	0.11	0.10	0.044	V-05	0.53	0.49	0.22	2	2/15/22 21:26	BRF	
1,3,5-Trimethylbenzene	ND	0.10	0.053		ND	0.49	0.26	2	2/15/22 21:26	BRF	
Vinyl Acetate	ND	2.0	0.54		ND UJ	7.0	1.9	2	2/15/22 21:26	BRF	
Vinyl Chloride	1.7	0.10	0.090		4.5	0.26	0.23	2	2/15/22 21:26	BRF	
m&p-Xylene	1.2	0.20	0.11		5.2	0.87	0.49	2	2/15/22 21:26	BRF	
o-Xylene	0.52	0.10	0.051		2.3	0.43	0.22	2	2/15/22 21:26	BRF	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	93.7	70-130	2/15/22 21:26

ALH 2/23/22

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/4/2022
Field Sample #: 224121-IA-121
Sample ID: 22B0272-05
 Sample Matrix: Indoor air
 Sampled: 2/1/2022 09:17

Sample Description/Location: H-121
 Sub Description/Location:
 Canister ID: 1691
 Canister Size:
 Flow Controller ID: 3685
 Sample Type: 6 hr

Work Order: 22B0272
 Initial Vacuum(in Hg): -27
 Final Vacuum(in Hg): -7
 Receipt Vacuum(in Hg): -6.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	4.4	1.4	0.84		10	3.3	2.0	0.698	2/11/22 16:07	BRF
Benzene	1.3	0.035	0.026	V-06	4.1 J	0.11	0.084	0.698	2/11/22 16:07	BRF
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.698	2/11/22 16:07	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	2/11/22 16:07	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	2/11/22 16:07	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	2/11/22 16:07	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	2/11/22 16:07	BRF
2-Butanone (MEK)	0.82	1.4	0.37	J	2.4	4.1	1.1	0.698	2/11/22 16:07	BRF
Carbon Disulfide	0.057	0.35	0.032	J	0.18	1.1	0.10	0.698	2/11/22 16:07	BRF
Carbon Tetrachloride	0.076	0.035	0.028		0.48	0.22	0.17	0.698	2/11/22 16:07	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	2/11/22 16:07	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	2/11/22 16:07	BRF
Chloroform	0.26	0.035	0.033		1.3	0.17	0.16	0.698	2/11/22 16:07	BRF
Chloromethane	0.53	0.070	0.028		1.1	0.14	0.057	0.698	2/11/22 16:07	BRF
Cyclohexane	2.0	0.035	0.023		6.9	0.12	0.079	0.698	2/11/22 16:07	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	2/11/22 16:07	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	2/11/22 16:07	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	2/11/22 16:07	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	2/11/22 16:07	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	2/11/22 16:07	BRF
Dichlorodifluoromethane (Freon 12)	0.45	0.035	0.034		2.2	0.17	0.17	0.698	2/11/22 16:07	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	2/11/22 16:07	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	2/11/22 16:07	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	2/11/22 16:07	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	2/11/22 16:07	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	2/11/22 16:07	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	2/11/22 16:07	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	2/11/22 16:07	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	2/11/22 16:07	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	2/11/22 16:07	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	2/11/22 16:07	BRF
Ethanol	65	8.0	3.5		120	15	6.6	4	2/14/22 22:22	BRF
Ethyl Acetate	0.68	0.35	0.18	L-03, V-34	2.4 J	1.3	0.64	0.698	2/11/22 16:07	BRF
Ethylbenzene	2.1	0.035	0.020		9.3	0.15	0.088	0.698	2/11/22 16:07	BRF
4-Ethyltoluene	1.1	0.035	0.021		5.2	0.17	0.11	0.698	2/11/22 16:07	BRF
Heptane	2.7	0.035	0.022		11	0.14	0.091	0.698	2/11/22 16:07	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	2/11/22 16:07	BRF
Hexane	1.9	1.4	0.18		6.6	4.9	0.64	0.698	2/11/22 16:07	BRF
2-Hexanone (MBK)	ND	0.070	0.018		ND UJ	0.29	0.072	0.698	2/11/22 16:07	BRF
Isopropanol	1.7	1.4	0.24		4.1	3.4	0.59	0.698	2/11/22 16:07	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	2/11/22 16:07	BRF
Methylene Chloride	0.39	0.35	0.16		1.4	1.2	0.56	0.698	2/11/22 16:07	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND UJ	0.14	0.073	0.698	2/11/22 16:07	BRF
Naphthalene	0.092	0.035	0.022		0.48	0.18	0.12	0.698	2/11/22 16:07	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	2/11/22 16:07	BRF
Styrene	0.046	0.035	0.018		0.20	0.15	0.078	0.698	2/11/22 16:07	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	2/11/22 16:07	BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdow
 Date Received: 2/4/2022
Field Sample #: 224121-IA-121
Sample ID: 22B0272-05
 Sample Matrix: Indoor air
 Sampled: 2/1/2022 09:17

Sample Description/Location: H-121
 Sub Description/Location:
 Canister ID: 1691
 Canister Size:
 Flow Controller ID: 3685
 Sample Type: 6 hr

Work Order: 22B0272
 Initial Vacuum(in Hg): -27
 Final Vacuum(in Hg): -7
 Receipt Vacuum(in Hg): -6.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	0.078	0.035	0.027	V-04	0.53	0.24	0.18	0.698	2/11/22 16:07	BRF
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	2/11/22 16:07	BRF
Toluene	5.4	0.035	0.020		21	0.13	0.075	0.698	2/11/22 16:07	BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024		ND UJ	0.52	0.18	0.698	2/11/22 16:07	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	2/11/22 16:07	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	2/11/22 16:07	BRF
Trichloroethylene	0.032	0.035	0.024	J	0.17	0.19	0.13	0.698	2/11/22 16:07	BRF
Trichlorofluoromethane (Freon 11)	0.21	0.14	0.041	J	1.2	0.78	0.23	0.698	2/11/22 16:07	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.065	0.14	0.039		0.50	1.1	0.30	0.698	2/11/22 16:07	BRF
1,2,4-Trimethylbenzene	4.3	0.035	0.015		21	0.17	0.076	0.698	2/11/22 16:07	BRF
1,3,5-Trimethylbenzene	1.3	0.035	0.018	ND UJ	6.3	0.17	0.091	0.698	2/11/22 16:07	BRF
Vinyl Acetate	ND	0.70	0.19		2.5	0.66	0.698	2/11/22 16:07	BRF	
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	2/11/22 16:07	BRF
m&p-Xylene	7.1	0.070	0.039		31	0.30	0.17	0.698	2/11/22 16:07	BRF
o-Xylene	3.0	0.035	0.018		13	0.15	0.078	0.698	2/11/22 16:07	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	95.7	70-130	2/11/22 16:07
4-Bromofluorobenzene (1)	91.0	70-130	2/14/22 22:22

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/4/2022
Field Sample #: 224121-OA-121
Sample ID: 22B0272-06
 Sample Matrix: Ambient Air
 Sampled: 2/1/2022 09:19

Sample Description/Location: H-121
 Sub Description/Location:
 Canister ID: 1966
 Canister Size:
 Flow Controller ID: 3671
 Sample Type: 6 hr

Work Order: 22B0272
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -8.3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	4.4	1.4	0.84	V-06	10	3.3	2.0	0.698	2/11/22 16:38	BRF
Benzene	0.48	0.035	0.026		1.5 J	0.11	0.084	0.698	2/11/22 16:38	BRF
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.698	2/11/22 16:38	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	2/11/22 16:38	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	2/11/22 16:38	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	2/11/22 16:38	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	2/11/22 16:38	BRF
2-Butanone (MEK)	0.40	1.4	0.37		J	1.2	4.1	1.1	0.698	2/11/22 16:38
Carbon Disulfide	ND	0.35	0.032	L-03, V-34, J	ND	1.1	0.10	0.698	2/11/22 16:38	BRF
Carbon Tetrachloride	0.084	0.035	0.028		0.53	0.22	0.17	0.698	2/11/22 16:38	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	2/11/22 16:38	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	2/11/22 16:38	BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	2/11/22 16:38	BRF
Chloromethane	0.55	0.070	0.028		1.1	0.14	0.057	0.698	2/11/22 16:38	BRF
Cyclohexane	0.11	0.035	0.023		0.38	0.12	0.079	0.698	2/11/22 16:38	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	2/11/22 16:38	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	2/11/22 16:38	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	2/11/22 16:38	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	2/11/22 16:38	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	2/11/22 16:38	BRF
Dichlorodifluoromethane (Freon 12)	0.46	0.035	0.034		2.3	0.17	0.17	0.698	2/11/22 16:38	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	2/11/22 16:38	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	2/11/22 16:38	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	2/11/22 16:38	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	2/11/22 16:38	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	2/11/22 16:38	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	2/11/22 16:38	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	2/11/22 16:38	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018	ND	0.16	0.081	0.698	2/11/22 16:38	BRF	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034	ND	0.24	0.24	0.698	2/11/22 16:38	BRF	
1,4-Dioxane	ND	0.35	0.029	ND	1.3	0.10	0.698	2/11/22 16:38	BRF	
Ethanol	20	1.4	0.62	37	2.6	1.2	0.698	2/11/22 16:38	BRF	
Ethyl Acetate	0.30	0.35	0.18	L-03, V-34, J	1.1 J	1.3	0.64	0.698	2/11/22 16:38	BRF
Ethylbenzene	0.14	0.035	0.020		0.59	0.15	0.088	0.698	2/11/22 16:38	BRF
4-Ethyltoluene	0.031	0.035	0.021	J	0.15	0.17	0.11	0.698	2/11/22 16:38	BRF
Heptane	0.16	0.035	0.022	J	0.67	0.14	0.091	0.698	2/11/22 16:38	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	2/11/22 16:38	BRF
Hexane	0.27	1.4	0.18	J	0.95	4.9	0.64	0.698	2/11/22 16:38	BRF
2-Hexanone (MBK)	ND	0.070	0.018	J	NDUJ	0.29	0.072	0.698	2/11/22 16:38	BRF
Isopropanol	1.6	1.4	0.24		4.0	3.4	0.59	0.698	2/11/22 16:38	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027	J	ND	0.13	0.097	0.698	2/11/22 16:38	BRF
Methylene Chloride	0.49	0.35	0.16		1.7	1.2	0.56	0.698	2/11/22 16:38	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018	J	NDUJ	0.14	0.073	0.698	2/11/22 16:38	BRF
Naphthalene	ND	0.035	0.022		ND	0.18	0.12	0.698	2/11/22 16:38	BRF
Propene	ND	1.4	0.31	J	ND	2.4	0.53	0.698	2/11/22 16:38	BRF
Styrene	0.031	0.035	0.018		0.13	0.15	0.078	0.698	2/11/22 16:38	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019	J	ND	0.24	0.13	0.698	2/11/22 16:38	BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown

Date Received: 2/4/2022

Field Sample #: 224121-OA-121

Sample ID: 22B0272-06

Sample Matrix: Ambient Air

Sampled: 2/1/2022 09:19

Sample Description/Location: H-121

Sub Description/Location:

Canister ID: 1966

Canister Size:

Flow Controller ID: 3671

Sample Type: 6 hr

Work Order: 22B0272

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -8

Receipt Vacuum(in Hg): -8.3

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	0.076	0.035	0.027	V-04	0.52	0.24	0.18	0.698	2/11/22 16:38	BRF
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	2/11/22 16:38	BRF
Toluene	1.2	0.035	0.020		4.3	0.13	0.075	0.698	2/11/22 16:38	BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024		ND UJ	0.52	0.18	0.698	2/11/22 16:38	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	2/11/22 16:38	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	2/11/22 16:38	BRF
Trichloroethylene	ND	0.035	0.024	J	ND	0.19	0.13	0.698	2/11/22 16:38	BRF
Trichlorofluoromethane (Freon 11)	0.22	0.14	0.041		1.2	0.78	0.23	0.698	2/11/22 16:38	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.076	0.14	0.039		0.58	1.1	0.30	0.698	2/11/22 16:38	BRF
1,2,4-Trimethylbenzene	0.11	0.035	0.015		0.56	0.17	0.076	0.698	2/11/22 16:38	BRF
1,3,5-Trimethylbenzene	0.035	0.035	0.018		0.17	0.17	0.091	0.698	2/11/22 16:38	BRF
Vinyl Acetate	ND	0.70	0.19		ND UJ	2.5	0.66	0.698	2/11/22 16:38	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	2/11/22 16:38	BRF
m&p-Xylene	0.41	0.070	0.039		1.8	0.30	0.17	0.698	2/11/22 16:38	BRF
o-Xylene	0.16	0.035	0.018	0.68	0.15	0.078	0.698	2/11/22 16:38	BRF	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	92.5	70-130	2/11/22 16:38

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/4/2022
Field Sample #: 224121-SS-122
Sample ID: 22B0272-07
 Sample Matrix: Sub Slab
 Sampled: 2/1/2022 11:17

Sample Description/Location: H-122
 Sub Description/Location:
 Canister ID: 1923
 Canister Size:
 Flow Controller ID: 3068
 Sample Type: 6 hr

Work Order: 22B0272
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -7
 Receipt Vacuum(in Hg): -5.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed	Analyst	
Acetone	19	4.0	2.4			45	9.5	5.7	2	2/15/22 21:52	BRF
Benzene	ND	0.10	0.076			ND	0.32	0.24	2	2/15/22 21:52	BRF
Benzyl chloride	ND	0.10	0.088			ND	0.52	0.46	2	2/15/22 21:52	BRF
Bromodichloromethane	ND	0.10	0.070			ND	0.67	0.47	2	2/15/22 21:52	BRF
Bromoform	ND	0.10	0.068			ND	1.0	0.70	2	2/15/22 21:52	BRF
Bromomethane	ND	0.10	0.082			ND	0.39	0.32	2	2/15/22 21:52	BRF
1,3-Butadiene	ND	0.10	0.084			ND	0.22	0.19	2	2/15/22 21:52	BRF
2-Butanone (MEK)	5.9	4.0	1.1			18	12	3.1	2	2/15/22 21:52	BRF
Carbon Disulfide	ND	1.0	0.092			ND	3.1	0.29	2	2/15/22 21:52	BRF
Carbon Tetrachloride	ND	0.10	0.080			ND	0.63	0.50	2	2/15/22 21:52	BRF
Chlorobenzene	ND	0.10	0.066			ND	0.46	0.31	2	2/15/22 21:52	BRF
Chloroethane	11	0.10	0.073			29	0.26	0.19	2	2/15/22 21:52	BRF
Chloroform	0.52	0.10	0.095			2.5	0.49	0.46	2	2/15/22 21:52	BRF
Chloromethane	0.43	0.20	0.079			0.88	0.41	0.16	2	2/15/22 21:52	BRF
Cyclohexane	ND	0.10	0.066			ND	0.34	0.23	2	2/15/22 21:52	BRF
Dibromochloromethane	ND	0.10	0.066			ND	0.85	0.56	2	2/15/22 21:52	BRF
1,2-Dibromoethane (EDB)	ND	0.10	0.060			ND	0.77	0.46	2	2/15/22 21:52	BRF
1,2-Dichlorobenzene	ND	0.10	0.057			ND	0.60	0.35	2	2/15/22 21:52	BRF
1,3-Dichlorobenzene	ND	0.10	0.055			ND	0.60	0.33	2	2/15/22 21:52	BRF
1,4-Dichlorobenzene	ND	0.10	0.065			ND	0.60	0.39	2	2/15/22 21:52	BRF
Dichlorodifluoromethane (Freon 12)	0.43	0.10	0.098			2.1	0.49	0.48	2	2/15/22 21:52	BRF
1,1-Dichloroethane	0.59	0.10	0.087			2.4	0.40	0.35	2	2/15/22 21:52	BRF
1,2-Dichloroethane	0.64	0.10	0.091			2.6	0.40	0.37	2	2/15/22 21:52	BRF
1,1-Dichloroethylene	ND	0.10	0.076			ND	0.40	0.30	2	2/15/22 21:52	BRF
cis-1,2-Dichloroethylene	ND	0.10	0.073			ND	0.40	0.29	2	2/15/22 21:52	BRF
trans-1,2-Dichloroethylene	ND	0.10	0.079			ND	0.40	0.31	2	2/15/22 21:52	BRF
1,2-Dichloropropane	ND	0.10	0.054			ND	0.46	0.25	2	2/15/22 21:52	BRF
cis-1,3-Dichloropropene	ND	0.10	0.052			ND	0.45	0.24	2	2/15/22 21:52	BRF
trans-1,3-Dichloropropene	ND	0.10	0.051			ND	0.45	0.23	2	2/15/22 21:52	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098			ND	0.70	0.69	2	2/15/22 21:52	BRF
1,4-Dioxane	ND	1.0	0.083			ND	3.6	0.30	2	2/15/22 21:52	BRF
Ethanol	34	4.0	1.8			65	7.5	3.3	2	2/15/22 21:52	BRF
Ethyl Acetate	1.7	1.0	0.51	L-03, V-34		6.0 J	3.6	1.8	2	2/15/22 21:52	BRF
Ethylbenzene	ND	0.10	0.058			ND	0.43	0.25	2	2/15/22 21:52	BRF
4-Ethyltoluene	ND	0.10	0.061			ND	0.49	0.30	2	2/15/22 21:52	BRF
Heptane	0.47	0.10	0.064			1.9	0.41	0.26	2	2/15/22 21:52	BRF
Hexachlorobutadiene	ND	0.10	0.082	L-03		ND UJ	1.1	0.88	2	2/15/22 21:52	BRF
Hexane	0.73	4.0	0.52	J		2.6	14	1.8	2	2/15/22 21:52	BRF
2-Hexanone (MBK)	ND	0.20	0.050			ND UJ	0.82	0.21	2	2/15/22 21:52	BRF
Isopropanol	3.5	4.0	0.69	J		8.7	9.8	1.7	2	2/15/22 21:52	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.077			ND	0.36	0.28	2	2/15/22 21:52	BRF
Methylene Chloride	ND	1.0	0.46			ND	3.5	1.6	2	2/15/22 21:52	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.051			ND	0.41	0.21	2	2/15/22 21:52	BRF
Naphthalene	ND	0.10	0.063			ND	0.52	0.33	2	2/15/22 21:52	BRF
Propene	1.4	4.0	0.88	J		2.5	6.9	1.5	2	2/15/22 21:52	BRF
Styrene	ND	0.10	0.053			ND	0.43	0.22	2	2/15/22 21:52	BRF
1,1,2,2-Tetrachloroethane	ND	0.10	0.054			ND	0.69	0.37	2	2/15/22 21:52	BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown

Date Received: 2/4/2022

Field Sample #: 224121-SS-122

Sample ID: 22B0272-07

Sample Matrix: Sub Slab

Sampled: 2/1/2022 11:17

Sample Description/Location: H-122

Sub Description/Location:

Canister ID: 1923

Canister Size:

Flow Controller ID: 3068

Sample Type: 6 hr

Work Order: 22B0272

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -7

Receipt Vacuum(in Hg): -5.4

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	5.6	0.10	0.076	L-03, V-04	38	0.68	0.52	2	2/15/22 21:52	BRF
Tetrahydrofuran	ND	1.0	0.16		ND	2.9	0.48	2	2/15/22 21:52	BRF
Toluene	0.76	0.10	0.057		2.9	0.38	0.22	2	2/15/22 21:52	BRF
1,2,4-Trichlorobenzene	ND	0.20	0.070		ND UJ	1.5	0.52	2	2/15/22 21:52	BRF
1,1,1-Trichloroethane	ND	0.10	0.079		ND	0.55	0.43	2	2/15/22 21:52	BRF
1,1,2-Trichloroethane	ND	0.10	0.070		ND	0.55	0.38	2	2/15/22 21:52	BRF
Trichloroethylene	0.35	0.10	0.067	J	1.9	0.54	0.36	2	2/15/22 21:52	BRF
Trichlorofluoromethane (Freon 11)	0.20	0.40	0.12		1.1	2.2	0.66	2	2/15/22 21:52	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	0.11		ND	3.1	0.85	2	2/15/22 21:52	BRF
1,2,4-Trimethylbenzene	ND	0.10	0.044	V-05	ND	0.49	0.22	2	2/15/22 21:52	BRF
1,3,5-Trimethylbenzene	ND	0.10	0.053		ND	0.49	0.26	2	2/15/22 21:52	BRF
Vinyl Acetate	ND	2.0	0.54		ND UJ	7.0	1.9	2	2/15/22 21:52	BRF
Vinyl Chloride	1.2	0.10	0.090		3.0	0.26	0.23	2	2/15/22 21:52	BRF
m&p-Xylene	ND	0.20	0.11		ND	0.87	0.49	2	2/15/22 21:52	BRF
o-Xylene	ND	0.10	0.051		ND	0.43	0.22	2	2/15/22 21:52	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	95.8	70-130	2/15/22 21:52

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/4/2022
Field Sample #: 224121-1A-122
Sample ID: 22B0272-08
 Sample Matrix: Indoor air
 Sampled: 2/1/2022 11:18

Sample Description/Location: H-122
 Sub Description/Location:
 Canister ID: 1024
 Canister Size:
 Flow Controller ID: 3537
 Sample Type: 6 hr

Work Order: 22B0272
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -9.3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time			
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	Analyst	
Acetone	4.6	1.4	0.84	V-06	11	3.3	2.0	0.698	2/11/22 17:09	BRF	
Benzene	0.54	0.035	0.026		1.7 J	0.11	0.084	0.698	2/11/22 17:09	BRF	
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.698	2/11/22 17:09	BRF	
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	2/11/22 17:09	BRF	
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	2/11/22 17:09	BRF	
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	2/11/22 17:09	BRF	
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	2/11/22 17:09	BRF	
2-Butanone (MEK)	0.41	1.4	0.37		J	1.2	4.1	1.1	0.698	2/11/22 17:09	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	2/11/22 17:09	BRF	
Carbon Tetrachloride	0.080	0.035	0.028		0.50	0.22	0.17	0.698	2/11/22 17:09	BRF	
Chlorobenzene	ND	0.035	0.023	ND	0.16	0.11	0.698	2/11/22 17:09	BRF		
Chloroethane	ND	0.035	0.025	ND	0.092	0.067	0.698	2/11/22 17:09	BRF		
Chloroform	0.068	0.035	0.033	0.33	0.17	0.16	0.698	2/11/22 17:09	BRF		
Chloromethane	0.51	0.070	0.028	1.1	0.14	0.057	0.698	2/11/22 17:09	BRF		
Cyclohexane	0.12	0.035	0.023	0.40	0.12	0.079	0.698	2/11/22 17:09	BRF		
Dibromochloromethane	ND	0.035	0.023	ND	0.30	0.20	0.698	2/11/22 17:09	BRF		
1,2-Dibromoethane (EDB)	ND	0.035	0.021	ND	0.27	0.16	0.698	2/11/22 17:09	BRF		
1,2-Dichlorobenzene	ND	0.035	0.020	ND	0.21	0.12	0.698	2/11/22 17:09	BRF		
1,3-Dichlorobenzene	ND	0.035	0.019	ND	0.21	0.12	0.698	2/11/22 17:09	BRF		
1,4-Dichlorobenzene	ND	0.035	0.023	ND	0.21	0.14	0.698	2/11/22 17:09	BRF		
Dichlorodifluoromethane (Freon 12)	0.45	0.035	0.034	2.2	0.17	0.17	0.698	2/11/22 17:09	BRF		
1,1-Dichloroethane	ND	0.035	0.030	ND	0.14	0.12	0.698	2/11/22 17:09	BRF		
1,2-Dichloroethane	ND	0.035	0.032	ND	0.14	0.13	0.698	2/11/22 17:09	BRF		
1,1-Dichloroethylene	ND	0.035	0.027	ND	0.14	0.11	0.698	2/11/22 17:09	BRF		
cis-1,2-Dichloroethylene	ND	0.035	0.025	ND	0.14	0.10	0.698	2/11/22 17:09	BRF		
trans-1,2-Dichloroethylene	ND	0.035	0.027	ND	0.14	0.11	0.698	2/11/22 17:09	BRF		
1,2-Dichloropropane	ND	0.035	0.019	ND	0.16	0.087	0.698	2/11/22 17:09	BRF		
cis-1,3-Dichloropropene	ND	0.035	0.018	ND	0.16	0.082	0.698	2/11/22 17:09	BRF		
trans-1,3-Dichloropropene	ND	0.035	0.018	ND	0.16	0.081	0.698	2/11/22 17:09	BRF		
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034	ND	0.24	0.24	0.698	2/11/22 17:09	BRF		
1,4-Dioxane	ND	0.35	0.029	ND	1.3	0.10	0.698	2/11/22 17:09	BRF		
Ethanol	20	1.4	0.62	37	2.6	1.2	0.698	2/11/22 17:09	BRF		
Ethyl Acetate	0.29	0.35	0.18	L-03, V-34, J	1.0 J	1.3	0.64	0.698	2/11/22 17:09	BRF	
Ethylbenzene	0.17	0.035	0.020	0.72	0.15	0.088	0.698	2/11/22 17:09	BRF		
4-Ethyltoluene	0.087	0.035	0.021	0.43	0.17	0.11	0.698	2/11/22 17:09	BRF		
Heptane	0.20	0.035	0.022	0.83	0.14	0.091	0.698	2/11/22 17:09	BRF		
Hexachlorobutadiene	ND	0.035	0.029	ND	0.37	0.31	0.698	2/11/22 17:09	BRF		
Hexane	0.35	1.4	0.18	J	1.2	4.9	0.64	0.698	2/11/22 17:09	BRF	
2-Hexanone (MBK)	ND	0.070	0.018	ND J	0.29	0.072	0.698	2/11/22 17:09	BRF		
Isopropanol	1.8	1.4	0.24	4.3	3.4	0.59	0.698	2/11/22 17:09	BRF		
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027	ND	0.13	0.097	0.698	2/11/22 17:09	BRF		
Methylene Chloride	0.62	0.35	0.16	2.2	1.2	0.56	0.698	2/11/22 17:09	BRF		
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018	ND UJ	0.14	0.073	0.698	2/11/22 17:09	BRF		
Naphthalene	0.027	0.035	0.022	J	0.14	0.18	0.12	0.698	2/11/22 17:09	BRF	
Propene	ND	1.4	0.31	ND	2.4	0.53	0.698	2/11/22 17:09	BRF		
Styrene	0.036	0.035	0.018	0.15	0.15	0.078	0.698	2/11/22 17:09	BRF		
1,1,2,2-Tetrachloroethane	ND	0.035	0.019	ND	0.24	0.13	0.698	2/11/22 17:09	BRF		

ALH 2/23/22

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdow

Date Received: 2/4/2022

Field Sample #: 224121-IA-122

Sample ID: 22B0272-08

Sample Matrix: Indoor air

Sampled: 2/1/2022 11:18

Sample Description/Location: H-122

Sub Description/Location:

Canister ID: 1024

Canister Size:

Flow Controller ID: 3537

Sample Type: 6 hr

Work Order: 22B0272

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -10

Receipt Vacuum(in Hg): -9.3

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	Results	ppbv		Flag/Qual	Results	ug/m3		MDL	Dilution	Date/Time		Analyst
		RL	MDL			RL	MDL			Analyzed		
Tetrachloroethylene	0.074	0.035	0.027		0.50	0.24	0.18	0.698	2/11/22 17:09	BRF		
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	2/11/22 17:09	BRF		
Toluene	1.3	0.035	0.020		4.7	0.13	0.075	0.698	2/11/22 17:09	BRF		
1,2,4-Trichlorobenzene	ND	0.070	0.024	V-04	ND	0.52	0.18	0.698	2/11/22 17:09	BRF		
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	2/11/22 17:09	BRF		
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	2/11/22 17:09	BRF		
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.698	2/11/22 17:09	BRF		
Trichlorofluoromethane (Freon 11)	0.21	0.14	0.041		1.2	0.78	0.23	0.698	2/11/22 17:09	BRF		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.074	0.14	0.039	J	0.57	1.1	0.30	0.698	2/11/22 17:09	BRF		
1,2,4-Trimethylbenzene	0.24	0.035	0.015		1.2	0.17	0.076	0.698	2/11/22 17:09	BRF		
1,3,5-Trimethylbenzene	0.087	0.035	0.018		0.43	0.17	0.091	0.698	2/11/22 17:09	BRF		
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.698	2/11/22 17:09	BRF		
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	2/11/22 17:09	BRF		
m&p-Xylene	0.55	0.070	0.039		2.4	0.30	0.17	0.698	2/11/22 17:09	BRF		
o-Xylene	0.22	0.035	0.018		0.95	0.15	0.078	0.698	2/11/22 17:09	BRF		

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	92.8	70-130	2/11/22 17:09

ALH 2/23/22

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/4/2022
Field Sample #: 224121-SS-123
Sample ID: 22B0272-09
 Sample Matrix: Sub Slab
 Sampled: 2/1/2022 16:48

Sample Description/Location: H-123
 Sub Description/Location:
 Canister ID: 1264
 Canister Size:
 Flow Controller ID: 3261
 Sample Type: 6 hr

Work Order: 22B0272
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -7
 Receipt Vacuum(in Hg): -7.3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed		
Acetone	17	4.0	2.4			39	9.5	5.7	2	2/15/22 22:18	BRF
Benzene	0.31	0.10	0.076			0.98	0.32	0.24	2	2/15/22 22:18	BRF
Benzyl chloride	ND	0.10	0.088			ND	0.52	0.46	2	2/15/22 22:18	BRF
Bromodichloromethane	ND	0.10	0.070			ND	0.67	0.47	2	2/15/22 22:18	BRF
Bromoform	ND	0.10	0.068			ND	1.0	0.70	2	2/15/22 22:18	BRF
Bromomethane	ND	0.10	0.082			ND	0.39	0.32	2	2/15/22 22:18	BRF
1,3-Butadiene	ND	0.10	0.084			ND	0.22	0.19	2	2/15/22 22:18	BRF
2-Butanone (MEK)	4.9	4.0	1.1			15	12	3.1	2	2/15/22 22:18	BRF
Carbon Disulfide	0.30	1.0	0.092	J		0.93	3.1	0.29	2	2/15/22 22:18	BRF
Carbon Tetrachloride	ND	0.10	0.080			ND	0.63	0.50	2	2/15/22 22:18	BRF
Chlorobenzene	ND	0.10	0.066			ND	0.46	0.31	2	2/15/22 22:18	BRF
Chloroethane	6.6	0.10	0.073			18	0.26	0.19	2	2/15/22 22:18	BRF
Chloroform	0.42	0.10	0.095			2.1	0.49	0.46	2	2/15/22 22:18	BRF
Chloromethane	ND	0.20	0.079			ND	0.41	0.16	2	2/15/22 22:18	BRF
Cyclohexane	ND	0.10	0.066			ND	0.34	0.23	2	2/15/22 22:18	BRF
Dibromochloromethane	ND	0.10	0.066			ND	0.85	0.56	2	2/15/22 22:18	BRF
1,2-Dibromoethane (EDB)	ND	0.10	0.060			ND	0.77	0.46	2	2/15/22 22:18	BRF
1,2-Dichlorobenzene	ND	0.10	0.057			ND	0.60	0.35	2	2/15/22 22:18	BRF
1,3-Dichlorobenzene	ND	0.10	0.055			ND	0.60	0.33	2	2/15/22 22:18	BRF
1,4-Dichlorobenzene	ND	0.10	0.065			ND	0.60	0.39	2	2/15/22 22:18	BRF
Dichlorodifluoromethane (Freon 12)	2.3	0.10	0.098			12	0.49	0.48	2	2/15/22 22:18	BRF
1,1-Dichloroethane	0.83	0.10	0.087			3.4	0.40	0.35	2	2/15/22 22:18	BRF
1,2-Dichloroethane	1.3	0.10	0.091			5.4	0.40	0.37	2	2/15/22 22:18	BRF
1,1-Dichloroethylene	ND	0.10	0.076			ND	0.40	0.30	2	2/15/22 22:18	BRF
cis-1,2-Dichloroethylene	ND	0.10	0.073			ND	0.40	0.29	2	2/15/22 22:18	BRF
trans-1,2-Dichloroethylene	ND	0.10	0.079			ND	0.40	0.31	2	2/15/22 22:18	BRF
1,2-Dichloropropane	ND	0.10	0.054			ND	0.46	0.25	2	2/15/22 22:18	BRF
cis-1,3-Dichloropropene	ND	0.10	0.052			ND	0.45	0.24	2	2/15/22 22:18	BRF
trans-1,3-Dichloropropene	ND	0.10	0.051			ND	0.45	0.23	2	2/15/22 22:18	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098			ND	0.70	0.69	2	2/15/22 22:18	BRF
1,4-Dioxane	ND	1.0	0.083			ND	3.6	0.30	2	2/15/22 22:18	BRF
Ethanol	27	4.0	1.8			50	7.5	3.3	2	2/15/22 22:18	BRF
Ethyl Acetate	1.9	1.0	0.51	L-03, V-34		7.0 J	3.6	1.8	2	2/15/22 22:18	BRF
Ethylbenzene	ND	0.10	0.058			ND	0.43	0.25	2	2/15/22 22:18	BRF
4-Ethyltoluene	ND	0.10	0.061			ND	0.49	0.30	2	2/15/22 22:18	BRF
Heptane	0.27	0.10	0.064			1.1	0.41	0.26	2	2/15/22 22:18	BRF
Hexachlorobutadiene	ND	0.10	0.082	L-03		ND UJ	1.1	0.88	2	2/15/22 22:18	BRF
Hexane	ND	4.0	0.52			ND	14	1.8	2	2/15/22 22:18	BRF
2-Hexanone (MBK)	ND	0.20	0.050			ND UJ	0.82	0.21	2	2/15/22 22:18	BRF
Isopropanol	2.0	4.0	0.69	J		5.0	9.8	1.7	2	2/15/22 22:18	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.077			ND	0.36	0.28	2	2/15/22 22:18	BRF
Methylene Chloride	ND	1.0	0.46			ND	3.5	1.6	2	2/15/22 22:18	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.051			ND	0.41	0.21	2	2/15/22 22:18	BRF
Naphthalene	ND	0.10	0.063			ND	0.52	0.33	2	2/15/22 22:18	BRF
Propene	ND	4.0	0.88			ND	6.9	1.5	2	2/15/22 22:18	BRF
Styrene	ND	0.10	0.053			ND	0.43	0.22	2	2/15/22 22:18	BRF
1,1,2,2-Tetrachloroethane	ND	0.10	0.054			ND	0.69	0.37	2	2/15/22 22:18	BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown

Date Received: 2/4/2022

Field Sample #: 224121-SS-123

Sample ID: 22B0272-09

Sample Matrix: Sub Slab

Sampled: 2/1/2022 16:48

Sample Description/Location: H-123

Sub Description/Location:

Canister ID: 1264

Canister Size:

Flow Controller ID: 3261

Sample Type: 6 hr

Work Order: 22B0272

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -7

Receipt Vacuum(in Hg): -7.3

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	1.0	0.10	0.076	V-04, L-03	6.8	0.68	0.52	2	2/15/22 22:18	BRF
Tetrahydrofuran	ND	1.0	0.16		ND	2.9	0.48	2	2/15/22 22:18	BRF
Toluene	0.32	0.10	0.057		1.2	0.38	0.22	2	2/15/22 22:18	BRF
1,2,4-Trichlorobenzene	ND	0.20	0.070		ND UJ	1.5	0.52	2	2/15/22 22:18	BRF
1,1,1-Trichloroethane	ND	0.10	0.079		ND	0.55	0.43	2	2/15/22 22:18	BRF
1,1,2-Trichloroethane	ND	0.10	0.070		ND	0.55	0.38	2	2/15/22 22:18	BRF
Trichloroethylene	ND	0.10	0.067	J	ND	0.54	0.36	2	2/15/22 22:18	BRF
Trichlorofluoromethane (Freon 11)	0.19	0.40	0.12		1.1	2.2	0.66	2	2/15/22 22:18	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	0.11		ND	3.1	0.85	2	2/15/22 22:18	BRF
1,2,4-Trimethylbenzene	ND	0.10	0.044		ND	0.49	0.22	2	2/15/22 22:18	BRF
1,3,5-Trimethylbenzene	ND	0.10	0.053		ND	0.49	0.26	2	2/15/22 22:18	BRF
Vinyl Acetate	45	2.0	0.54		V-05, V-35	160 J	7.0	1.9	2	2/15/22 22:18
Vinyl Chloride	0.48	0.10	0.090		1.2	0.26	0.23	2	2/15/22 22:18	BRF
m&p-Xylene	ND	0.20	0.11		ND	0.87	0.49	2	2/15/22 22:18	BRF
o-Xylene	ND	0.10	0.051		ND	0.43	0.22	2	2/15/22 22:18	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	94.4	70-130	2/15/22 22:18

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/4/2022
Field Sample #: FD-020122
Sample ID: 22B0272-10
 Sample Matrix: Air
 Sampled: 2/1/2022 00:00

Sample Description/Location: FD-1
 Sub Description/Location:
 Canister ID: 1259
 Canister Size:
 Flow Controller ID: 3261
 Sample Type: 6 hr

Work Order: 22B0272
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -7
 Receipt Vacuum(in Hg): -7.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed		
Acetone	19	1.4	0.84			44	3.3	2.0	0.698	2/11/22 17:41	BRF
Benzene	0.30	0.035	0.026		V-06	0.96 J	0.11	0.084	0.698	2/11/22 17:41	BRF
Benzyl chloride	ND	0.035	0.031			ND	0.18	0.16	0.698	2/11/22 17:41	BRF
Bromodichloromethane	ND	0.035	0.024			ND	0.23	0.16	0.698	2/11/22 17:41	BRF
Bromoform	ND	0.035	0.024			ND	0.36	0.25	0.698	2/11/22 17:41	BRF
Bromomethane	ND	0.035	0.028			ND	0.14	0.11	0.698	2/11/22 17:41	BRF
1,3-Butadiene	ND	0.035	0.029			ND	0.077	0.065	0.698	2/11/22 17:41	BRF
2-Butanone (MEK)	5.4	1.4	0.37			16	4.1	1.1	0.698	2/11/22 17:41	BRF
Carbon Disulfide	0.43	0.35	0.032			1.3	1.1	0.10	0.698	2/11/22 17:41	BRF
Carbon Tetrachloride	0.052	0.035	0.028			0.32	0.22	0.17	0.698	2/11/22 17:41	BRF
Chlorobenzene	ND	0.035	0.023			ND	0.16	0.11	0.698	2/11/22 17:41	BRF
Chloroethane	6.5	0.035	0.025			17	0.092	0.067	0.698	2/11/22 17:41	BRF
Chloroform	0.48	0.035	0.033			2.4	0.17	0.16	0.698	2/11/22 17:41	BRF
Chloromethane	0.49	0.070	0.028			1.0	0.14	0.057	0.698	2/11/22 17:41	BRF
Cyclohexane	ND	0.035	0.023			ND	0.12	0.079	0.698	2/11/22 17:41	BRF
Dibromochloromethane	ND	0.035	0.023			ND	0.30	0.20	0.698	2/11/22 17:41	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021			ND	0.27	0.16	0.698	2/11/22 17:41	BRF
1,2-Dichlorobenzene	ND	0.035	0.020			ND	0.21	0.12	0.698	2/11/22 17:41	BRF
1,3-Dichlorobenzene	ND	0.035	0.019			ND	0.21	0.12	0.698	2/11/22 17:41	BRF
1,4-Dichlorobenzene	ND	0.035	0.023			ND	0.21	0.14	0.698	2/11/22 17:41	BRF
Dichlorodifluoromethane (Freon 12)	2.3	0.035	0.034			11	0.17	0.17	0.698	2/11/22 17:41	BRF
1,1-Dichloroethane	1.0	0.035	0.030			4.0	0.14	0.12	0.698	2/11/22 17:41	BRF
1,2-Dichloroethane	1.6	0.035	0.032			6.3	0.14	0.13	0.698	2/11/22 17:41	BRF
1,1-Dichloroethylene	ND	0.035	0.027			ND	0.14	0.11	0.698	2/11/22 17:41	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025			ND	0.14	0.10	0.698	2/11/22 17:41	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027			ND	0.14	0.11	0.698	2/11/22 17:41	BRF
1,2-Dichloropropane	ND	0.035	0.019			ND	0.16	0.087	0.698	2/11/22 17:41	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018			ND	0.16	0.082	0.698	2/11/22 17:41	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018			ND	0.16	0.081	0.698	2/11/22 17:41	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034			ND	0.24	0.24	0.698	2/11/22 17:41	BRF
1,4-Dioxane	ND	0.35	0.029			ND	1.3	0.10	0.698	2/11/22 17:41	BRF
Ethanol	28	1.4	0.62			53	2.6	1.2	0.698	2/11/22 17:41	BRF
Ethyl Acetate	2.4	0.35	0.18		L-03, V-34	8.6 J	1.3	0.64	0.698	2/11/22 17:41	BRF
Ethylbenzene	ND	0.035	0.020			ND	0.15	0.088	0.698	2/11/22 17:41	BRF
4-Ethyltoluene	ND	0.035	0.021			ND	0.17	0.11	0.698	2/11/22 17:41	BRF
Heptane	0.35	0.035	0.022			1.4	0.14	0.091	0.698	2/11/22 17:41	BRF
Hexachlorobutadiene	ND	0.035	0.029			ND	0.37	0.31	0.698	2/11/22 17:41	BRF
Hexane	0.49	1.4	0.18		J	1.7	4.9	0.64	0.698	2/11/22 17:41	BRF
2-Hexanone (MBK)	ND	0.070	0.018			ND UJ	0.29	0.072	0.698	2/11/22 17:41	BRF
Isopropanol	2.1	1.4	0.24			5.2	3.4	0.59	0.698	2/11/22 17:41	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027			ND	0.13	0.097	0.698	2/11/22 17:41	BRF
Methylene Chloride	0.19	0.35	0.16		J	0.65	1.2	0.56	0.698	2/11/22 17:41	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018			ND UJ	0.14	0.073	0.698	2/11/22 17:41	BRF
Naphthalene	ND	0.035	0.022			ND	0.18	0.12	0.698	2/11/22 17:41	BRF
Propene	ND	1.4	0.31			ND	2.4	0.53	0.698	2/11/22 17:41	BRF
Styrene	ND	0.035	0.018			ND	0.15	0.078	0.698	2/11/22 17:41	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019			ND	0.24	0.13	0.698	2/11/22 17:41	BRF

ALH 2/23/22

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown

Date Received: 2/4/2022

Field Sample #: FD-020122

Sample ID: 22B0272-10

Sample Matrix: Air

Sampled: 2/1/2022 00:00

Sample Description/Location: FD-1

Sub Description/Location:

Canister ID: 1259

Canister Size:

Flow Controller ID: 3261

Sample Type: 6 hr

Work Order: 22B0272

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -7

Receipt Vacuum(in Hg): -7.2

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	Results	ppbv		Flag/Qual	Results	ug/m3		Dilution	Date/Time	
		RL	MDL			RL	MDL		Analyzed	Analyst
Tetrachloroethylene	1.0	0.035	0.027	V-04	6.8	0.24	0.18	0.698	2/11/22 17:41	BRF
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	2/11/22 17:41	BRF
Toluene	0.30	0.035	0.020		1.1	0.13	0.075	0.698	2/11/22 17:41	BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024		ND UJ	0.52	0.18	0.698	2/11/22 17:41	BRF
1,1,1-Trichloroethane	0.075	0.035	0.027		0.41	0.19	0.15	0.698	2/11/22 17:41	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	2/11/22 17:41	BRF
Trichloroethylene	0.024	0.035	0.024	J	0.13	0.19	0.13	0.698	2/11/22 17:41	BRF
Trichlorofluoromethane (Freon 11)	0.21	0.14	0.041	J	1.2	0.78	0.23	0.698	2/11/22 17:41	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.063	0.14	0.039		0.49	1.1	0.30	0.698	2/11/22 17:41	BRF
1,2,4-Trimethylbenzene	ND	0.035	0.015		ND	0.17	0.076	0.698	2/11/22 17:41	BRF
1,3,5-Trimethylbenzene	ND	0.035	0.018		ND	0.17	0.091	0.698	2/11/22 17:41	BRF
Vinyl Acetate	ND	0.70	0.19		ND UJ	2.5	0.66	0.698	2/11/22 17:41	BRF
Vinyl Chloride	0.47	0.035	0.031		1.2	0.089	0.080	0.698	2/11/22 17:41	BRF
m&p-Xylene	ND	0.070	0.039		ND	0.30	0.17	0.698	2/11/22 17:41	BRF
o-Xylene	ND	0.035	0.018		ND	0.15	0.078	0.698	2/11/22 17:41	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	93.8	70-130	2/11/22 17:41

ALH 2/23/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/4/2022
Field Sample #: 224121-IA-123
Sample ID: 22B0272-11
 Sample Matrix: Indoor air
 Sampled: 2/1/2022 16:49

Sample Description/Location: H-123
 Sub Description/Location:
 Canister ID: 1958
 Canister Size:
 Flow Controller ID: 3519
 Sample Type: 6 hr

Work Order: 22B0272
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -8.8
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed		
Acetone	85	8.0	4.8			200	19	11	4	2/14/22 22:47	BRF
Benzene	0.68	0.035	0.026		V-06	2.2 J	0.11	0.084	0.698	2/11/22 18:12	BRF
Benzyl chloride	ND	0.035	0.031			ND	0.18	0.16	0.698	2/11/22 18:12	BRF
Bromodichloromethane	ND	0.035	0.024			ND	0.23	0.16	0.698	2/11/22 18:12	BRF
Bromoform	ND	0.035	0.024			ND	0.36	0.25	0.698	2/11/22 18:12	BRF
Bromomethane	ND	0.035	0.028			ND	0.14	0.11	0.698	2/11/22 18:12	BRF
1,3-Butadiene	ND	0.035	0.029			ND	0.077	0.065	0.698	2/11/22 18:12	BRF
2-Butanone (MEK)	0.74	1.4	0.37		J	2.2	4.1	1.1	0.698	2/11/22 18:12	BRF
Carbon Disulfide	0.063	0.35	0.032		J	0.20	1.1	0.10	0.698	2/11/22 18:12	BRF
Carbon Tetrachloride	0.088	0.035	0.028			0.55	0.22	0.17	0.698	2/11/22 18:12	BRF
Chlorobenzene	ND	0.035	0.023			ND	0.16	0.11	0.698	2/11/22 18:12	BRF
Chloroethane	ND	0.035	0.025			ND	0.092	0.067	0.698	2/11/22 18:12	BRF
Chloroform	0.35	0.035	0.033			1.7	0.17	0.16	0.698	2/11/22 18:12	BRF
Chloromethane	0.60	0.070	0.028			1.2	0.14	0.057	0.698	2/11/22 18:12	BRF
Cyclohexane	0.14	0.035	0.023			0.49	0.12	0.079	0.698	2/11/22 18:12	BRF
Dibromochloromethane	ND	0.035	0.023			ND	0.30	0.20	0.698	2/11/22 18:12	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021			ND	0.27	0.16	0.698	2/11/22 18:12	BRF
1,2-Dichlorobenzene	ND	0.035	0.020			ND	0.21	0.12	0.698	2/11/22 18:12	BRF
1,3-Dichlorobenzene	ND	0.035	0.019			ND	0.21	0.12	0.698	2/11/22 18:12	BRF
1,4-Dichlorobenzene	ND	0.035	0.023			ND	0.21	0.14	0.698	2/11/22 18:12	BRF
Dichlorodifluoromethane (Freon 12)	0.48	0.035	0.034			2.4	0.17	0.17	0.698	2/11/22 18:12	BRF
1,1-Dichloroethane	ND	0.035	0.030			ND	0.14	0.12	0.698	2/11/22 18:12	BRF
1,2-Dichloroethane	ND	0.035	0.032			ND	0.14	0.13	0.698	2/11/22 18:12	BRF
1,1-Dichloroethylene	ND	0.035	0.027			ND	0.14	0.11	0.698	2/11/22 18:12	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025			ND	0.14	0.10	0.698	2/11/22 18:12	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027			ND	0.14	0.11	0.698	2/11/22 18:12	BRF
1,2-Dichloropropane	ND	0.035	0.019			ND	0.16	0.087	0.698	2/11/22 18:12	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018			ND	0.16	0.082	0.698	2/11/22 18:12	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018			ND	0.16	0.081	0.698	2/11/22 18:12	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034			ND	0.24	0.24	0.698	2/11/22 18:12	BRF
1,4-Dioxane	ND	0.35	0.029			ND	1.3	0.10	0.698	2/11/22 18:12	BRF
Ethanol	240	20	8.8			440	38	17	10	2/14/22 23:11	BRF
Ethyl Acetate	0.89	0.35	0.18		L-03, V-34	3.2 J	1.3	0.64	0.698	2/11/22 18:12	BRF
Ethylbenzene	0.20	0.035	0.020			0.85	0.15	0.088	0.698	2/11/22 18:12	BRF
4-Ethyltoluene	0.065	0.035	0.021			0.32	0.17	0.11	0.698	2/11/22 18:12	BRF
Heptane	0.25	0.035	0.022			1.0	0.14	0.091	0.698	2/11/22 18:12	BRF
Hexachlorobutadiene	ND	0.035	0.029			ND	0.37	0.31	0.698	2/11/22 18:12	BRF
Hexane	0.39	1.4	0.18		J	1.4	4.9	0.64	0.698	2/11/22 18:12	BRF
2-Hexanone (MBK)	ND	0.070	0.018			ND UJ	0.29	0.072	0.698	2/11/22 18:12	BRF
Isopropanol	2.9	1.4	0.24			7.1	3.4	0.59	0.698	2/11/22 18:12	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027			ND	0.13	0.097	0.698	2/11/22 18:12	BRF
Methylene Chloride	0.65	0.35	0.16			2.3	1.2	0.56	0.698	2/11/22 18:12	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018			ND UJ	0.14	0.073	0.698	2/11/22 18:12	BRF
Naphthalene	0.040	0.035	0.022			0.21	0.18	0.12	0.698	2/11/22 18:12	BRF
Propene	ND	1.4	0.31			ND	2.4	0.53	0.698	2/11/22 18:12	BRF
Styrene	0.21	0.035	0.018			0.89	0.15	0.078	0.698	2/11/22 18:12	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019			ND	0.24	0.13	0.698	2/11/22 18:12	BRF

ALH 2/23/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/4/2022
Field Sample #: 224121-IA-123
Sample ID: 22B0272-11
 Sample Matrix: Indoor air
 Sampled: 2/1/2022 16:49

Sample Description/Location: H-123
 Sub Description/Location:
 Canister ID: 1958
 Canister Size:
 Flow Controller ID: 3519
 Sample Type: 6 hr

Work Order: 22B0272
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -8.8
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	
Tetrachloroethylene	0.12	0.035	0.027	V-04	0.78	0.24	0.18	0.698	2/11/22 18:12	BRF
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	2/11/22 18:12	BRF
Toluene	1.8	0.035	0.020		6.7	0.13	0.075	0.698	2/11/22 18:12	BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024		ND UJ	0.52	0.18	0.698	2/11/22 18:12	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	2/11/22 18:12	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	2/11/22 18:12	BRF
Trichloroethylene	0.19	0.035	0.024	J	1.00	0.19	0.13	0.698	2/11/22 18:12	BRF
Trichlorofluoromethane (Freon 11)	0.24	0.14	0.041		1.4	0.78	0.23	0.698	2/11/22 18:12	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.066	0.14	0.039		0.50	1.1	0.30	0.698	2/11/22 18:12	BRF
1,2,4-Trimethylbenzene	0.29	0.035	0.015		1.4	0.17	0.076	0.698	2/11/22 18:12	BRF
1,3,5-Trimethylbenzene	0.077	0.035	0.018		0.38	0.17	0.091	0.698	2/11/22 18:12	BRF
Vinyl Acetate	ND	0.70	0.19		ND UJ	2.5	0.66	0.698	2/11/22 18:12	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	2/11/22 18:12	BRF
m&p-Xylene	0.62	0.070	0.039		2.7	0.30	0.17	0.698	2/11/22 18:12	BRF
o-Xylene	0.23	0.035	0.018	1.0	0.15	0.078	0.698	2/11/22 18:12	BRF	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	85.9	70-130	2/14/22 23:11
4-Bromofluorobenzene (1)	89.6	70-130	2/14/22 22:47
4-Bromofluorobenzene (1)	92.8	70-130	2/11/22 18:12

ALH 2/23/22

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/4/2022
Field Sample #: 224121-OA-123
Sample ID: 22B0272-12
 Sample Matrix: Ambient Air
 Sampled: 2/1/2022 16:50

Sample Description/Location: H-123
 Sub Description/Location:
 Canister ID: 1012
 Canister Size:
 Flow Controller ID: 3510
 Sample Type: 6 hr

Work Order: 22B0272
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -8.1
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed		
Acetone	11	1.4	0.84			26	3.3	2.0	0.698	2/11/22 18:43	BRF
Benzene	0.73	0.035	0.026		V-06	2.3 J	0.11	0.084	0.698	2/11/22 18:43	BRF
Benzyl chloride	ND	0.035	0.031			ND	0.18	0.16	0.698	2/11/22 18:43	BRF
Bromodichloromethane	ND	0.035	0.024			ND	0.23	0.16	0.698	2/11/22 18:43	BRF
Bromoform	ND	0.035	0.024			ND	0.36	0.25	0.698	2/11/22 18:43	BRF
Bromomethane	ND	0.035	0.028			ND	0.14	0.11	0.698	2/11/22 18:43	BRF
1,3-Butadiene	ND	0.035	0.029			ND	0.077	0.065	0.698	2/11/22 18:43	BRF
2-Butanone (MEK)	ND	1.4	0.37			ND	4.1	1.1	0.698	2/11/22 18:43	BRF
Carbon Disulfide	ND	0.35	0.032			ND	1.1	0.10	0.698	2/11/22 18:43	BRF
Carbon Tetrachloride	0.089	0.035	0.028			0.56	0.22	0.17	0.698	2/11/22 18:43	BRF
Chlorobenzene	ND	0.035	0.023			ND	0.16	0.11	0.698	2/11/22 18:43	BRF
Chloroethane	ND	0.035	0.025			ND	0.092	0.067	0.698	2/11/22 18:43	BRF
Chloroform	ND	0.035	0.033			ND	0.17	0.16	0.698	2/11/22 18:43	BRF
Chloromethane	0.53	0.070	0.028			1.1	0.14	0.057	0.698	2/11/22 18:43	BRF
Cyclohexane	0.16	0.035	0.023			0.56	0.12	0.079	0.698	2/11/22 18:43	BRF
Dibromochloromethane	ND	0.035	0.023			ND	0.30	0.20	0.698	2/11/22 18:43	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021			ND	0.27	0.16	0.698	2/11/22 18:43	BRF
1,2-Dichlorobenzene	ND	0.035	0.020			ND	0.21	0.12	0.698	2/11/22 18:43	BRF
1,3-Dichlorobenzene	ND	0.035	0.019			ND	0.21	0.12	0.698	2/11/22 18:43	BRF
1,4-Dichlorobenzene	ND	0.035	0.023			ND	0.21	0.14	0.698	2/11/22 18:43	BRF
Dichlorodifluoromethane (Freon 12)	0.45	0.035	0.034			2.2	0.17	0.17	0.698	2/11/22 18:43	BRF
1,1-Dichloroethane	ND	0.035	0.030			ND	0.14	0.12	0.698	2/11/22 18:43	BRF
1,2-Dichloroethane	ND	0.035	0.032			ND	0.14	0.13	0.698	2/11/22 18:43	BRF
1,1-Dichloroethylene	ND	0.035	0.027			ND	0.14	0.11	0.698	2/11/22 18:43	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025			ND	0.14	0.10	0.698	2/11/22 18:43	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027			ND	0.14	0.11	0.698	2/11/22 18:43	BRF
1,2-Dichloropropane	ND	0.035	0.019			ND	0.16	0.087	0.698	2/11/22 18:43	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018			ND	0.16	0.082	0.698	2/11/22 18:43	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018			ND	0.16	0.081	0.698	2/11/22 18:43	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034			ND	0.24	0.24	0.698	2/11/22 18:43	BRF
1,4-Dioxane	ND	0.35	0.029			ND	1.3	0.10	0.698	2/11/22 18:43	BRF
Ethanol	19	1.4	0.62			37	2.6	1.2	0.698	2/11/22 18:43	BRF
Ethyl Acetate	0.43	0.35	0.18		L-03, V-34	1.5 J	1.3	0.64	0.698	2/11/22 18:43	BRF
Ethylbenzene	0.16	0.035	0.020			0.69	0.15	0.088	0.698	2/11/22 18:43	BRF
4-Ethyltoluene	0.036	0.035	0.021			0.17	0.17	0.11	0.698	2/11/22 18:43	BRF
Heptane	0.23	0.035	0.022			0.95	0.14	0.091	0.698	2/11/22 18:43	BRF
Hexachlorobutadiene	ND	0.035	0.029			ND	0.37	0.31	0.698	2/11/22 18:43	BRF
Hexane	0.27	1.4	0.18		J	0.94	4.9	0.64	0.698	2/11/22 18:43	BRF
2-Hexanone (MBK)	ND	0.070	0.018			ND UJ	0.29	0.072	0.698	2/11/22 18:43	BRF
Isopropanol	1.6	1.4	0.24			4.0	3.4	0.59	0.698	2/11/22 18:43	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027			ND	0.13	0.097	0.698	2/11/22 18:43	BRF
Methylene Chloride	0.50	0.35	0.16			1.8	1.2	0.56	0.698	2/11/22 18:43	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018			ND UJ	0.14	0.073	0.698	2/11/22 18:43	BRF
Naphthalene	ND	0.035	0.022			ND	0.18	0.12	0.698	2/11/22 18:43	BRF
Propene	ND	1.4	0.31			ND	2.4	0.53	0.698	2/11/22 18:43	BRF
Styrene	0.15	0.035	0.018			0.64	0.15	0.078	0.698	2/11/22 18:43	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019			ND	0.24	0.13	0.698	2/11/22 18:43	BRF

ALH 2/23/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/4/2022
Field Sample #: 224121-OA-123
Sample ID: 22B0272-12
 Sample Matrix: Ambient Air
 Sampled: 2/1/2022 16:50

Sample Description/Location: H-123
 Sub Description/Location:
 Canister ID: 1012
 Canister Size:
 Flow Controller ID: 3510
 Sample Type: 6 hr

Work Order: 22B0272
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -8.1
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	Analyst
Tetrachloroethylene	0.11	0.035	0.027	V-04	0.77	0.24	0.18	0.698	2/11/22 18:43	BRF
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	2/11/22 18:43	BRF
Toluene	2.1	0.035	0.020		8.1	0.13	0.075	0.698	2/11/22 18:43	BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024		ND UJ	0.52	0.18	0.698	2/11/22 18:43	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	2/11/22 18:43	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	2/11/22 18:43	BRF
Trichloroethylene	0.17	0.035	0.024	J	0.94	0.19	0.13	0.698	2/11/22 18:43	BRF
Trichlorofluoromethane (Freon 11)	0.20	0.14	0.041		1.1	0.78	0.23	0.698	2/11/22 18:43	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.059	0.14	0.039		0.45	1.1	0.30	0.698	2/11/22 18:43	BRF
1,2,4-Trimethylbenzene	0.14	0.035	0.015		0.71	0.17	0.076	0.698	2/11/22 18:43	BRF
1,3,5-Trimethylbenzene	0.042	0.035	0.018		0.21	0.17	0.091	0.698	2/11/22 18:43	BRF
Vinyl Acetate	ND	0.70	0.19		ND UJ	2.5	0.66	0.698	2/11/22 18:43	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	2/11/22 18:43	BRF
m&p-Xylene	0.50	0.070	0.039		2.2	0.30	0.17	0.698	2/11/22 18:43	BRF
o-Xylene	0.19	0.035	0.018	0.84	0.15	0.078	0.698	2/11/22 18:43	BRF	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	92.3	70-130	2/11/22 18:43

ALH 2/23/22

VALIDATA

Chemical Services, Inc.

2159 Wynnton Pointe, Duluth, GA 30097

(770) 232-0130

(770) 232-5082 (Fax)

www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY: AECOM Technical Services Northeast, Inc.
PROJECT NAME: Meeker Ave. SVI
CONTRACTED LAB: con-test Analytical Laboratory
QA/QC LEVEL: DUSR
ANALYTICAL METHOD(S): EPA Method TO-15
VALIDATION GUIDELINES: USEPA Region II data validation SOP ((VOA-TO15 HW-31 Rev.6, Analysis of VOCs in Air contained in Canisters by Method TO-15, September 2016), Professional Judgment
SAMPLE MATRIX: Air
TYPES OF ANALYSES: Volatile Organic Compounds (VOC)
DATA REVIEWER(S): Amy L. Hogan
SDG NUMBER: 22B0438
SAMPLING DATE(S): February 3, 2022

SAMPLES:

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>VOC</u>
224121-SS-04-09	22B0438-01	X
224121-SS-04-09MD	22B0438-01MD	X
224121-IA-04-09	22B0438-02	X
224121-OA-04-09	22B0438-03	X
224121-SS-124	22B0438-04	X
224121-IA-124	22B0438-05	X
224121-IA-124DL	22B0438-05DL	X
224121-OA-124	22B0438-06	X
224121-SS-125	22B0438-07	X
224121-IA-125	22B0438-08	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Con-test Analytical Laboratory – 22B0438

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per EPA Method TO-15.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The Percent Relative Standard Deviation (%RSD) for the standards analyzed on 8/20/21 on instrument SYSJ was 39.6% for 1,2,4-trichlorobenzene, which exceeded the 30% QC limit. The 1,2,4-trichlorobenzene results for the samples, which consisted entirely of non-detects, were qualified as estimated (UJ).

Initial Calibration Verification:

The Percent Differences (%Ds) for the standards run on 8/21/21 at 02:04 on instrument SYSJ exceeded the 30% QC limit for the following compounds:

Vinyl acetate	-32.9%
Ethyl acetate	34.7%

All positive and non-detect results for these compounds in the SDG samples were qualified as

estimated (J) and (UJ).

Continuing Calibration:

The Percent Differences (%Ds) for the standards run on 2/16/22 at 08:39 on instrument SYSJ exceeded the 30% QC limit for the following compounds:

2-hexanone	36.0%
Vinyl acetate	-40.0%

All positive and non-detect results for these compounds in the initial analyses of the SDG samples were qualified as estimated (J) and (UJ).

The Percent Differences (%Ds) for the standards run on 2/17/21 at 08:52 on instrument SYSJ exceeded the 30% QC limit for the following compounds:

1,2,4-trichlorobenzene	-33.7%
Vinyl acetate	-47.3%

Since the listed compounds were not target compounds for the associated dilution analysis, no data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Canister Blanks:

There were no detects in the canister check blanks for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

Two LCS were analyzed by the laboratory for this SDG. The Percent Recoveries (%Rs) for LCS B301423-BS1 were outside the 70-130% QC limits for the following compounds:

Ethyl acetate	65.0%
2-hexanone	134%
1,2,4-trichlorobenzene	68.9%

All positive 2-hexanone results for the SDG samples were qualified as estimated (J) and all positive and non-detect results for ethyl acetate and 1,2,4-trichlorobenzene for the SDG samples were qualified as estimated (J) and (UJ).

The Percent Recoveries (%Rs) for LCS B301512-BS1 were outside the 70-130% QC limits for the following compounds:

Ethyl acetate	57.4%
Hexachlorobutadiene	61.8%
Isopropanol	64.9%
1,2,4-trichlorobenzene	60.6%

Since the listed compounds were not target compounds for the associated SDG sample analysis, no data qualification was necessary.

IX.) Matrix Duplicate:

Matrix Duplicate analysis was performed using SDG sample 224121-SS-04-09. All criteria were met. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

The initial analysis ethanol result for sample 22421-IA-124 exceeded the linear calibration range. A dilution analysis was performed for the listed sample with all calibration criteria met. Since the Form I for the sample was a composite of the results, no data qualification was necessary.

All other CRQL criteria were met.

Appendix A

Qualified Form Is

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown

Date Received: 2/7/2022

Field Sample #: 224121-SS-04-09

Sample ID: 22B0438-01

Sample Matrix: Sub Slab

Sampled: 2/3/2022 08:12

Sample Description/Location: H-04-09

Sub Description/Location:

Canister ID: 1945

Canister Size: 6 liter

Flow Controller ID: 3044

Sample Type: 24 hr

Work Order: 22B0438

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -8

Receipt Vacuum(in Hg): -8

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time			
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed	Analyst		
Acetone	4.6	4.0	2.4			11	9.5	5.7	2	2/16/22 20:27	BRF	
Benzene	0.15	0.10	0.076			0.47	0.32	0.24	2	2/16/22 20:27	BRF	
Benzyl chloride	ND	0.10	0.088			ND	0.52	0.46	2	2/16/22 20:27	BRF	
Bromodichloromethane	ND	0.10	0.070			ND	0.67	0.47	2	2/16/22 20:27	BRF	
Bromoform	ND	0.10	0.068			ND	1.0	0.70	2	2/16/22 20:27	BRF	
Bromomethane	ND	0.10	0.082			ND	0.39	0.32	2	2/16/22 20:27	BRF	
1,3-Butadiene	ND	0.10	0.084			ND	0.22	0.19	2	2/16/22 20:27	BRF	
2-Butanone (MEK)	ND	4.0	1.1			ND	12	3.1	2	2/16/22 20:27	BRF	
Carbon Disulfide	ND	1.0	0.092			ND	3.1	0.29	2	2/16/22 20:27	BRF	
Carbon Tetrachloride	ND	0.10	0.080			ND	0.63	0.50	2	2/16/22 20:27	BRF	
Chlorobenzene	ND	0.10	0.066			ND	0.46	0.31	2	2/16/22 20:27	BRF	
Chloroethane	1.2	0.10	0.073			3.2	0.26	0.19	2	2/16/22 20:27	BRF	
Chloroform	0.12	0.10	0.095			0.57	0.49	0.46	2	2/16/22 20:27	BRF	
Chloromethane	ND	0.20	0.079			ND	0.41	0.16	2	2/16/22 20:27	BRF	
Cyclohexane	ND	0.10	0.066			ND	0.34	0.23	2	2/16/22 20:27	BRF	
Dibromochloromethane	ND	0.10	0.066			ND	0.85	0.56	2	2/16/22 20:27	BRF	
1,2-Dibromoethane (EDB)	ND	0.10	0.060			ND	0.77	0.46	2	2/16/22 20:27	BRF	
1,2-Dichlorobenzene	ND	0.10	0.057			ND	0.60	0.35	2	2/16/22 20:27	BRF	
1,3-Dichlorobenzene	ND	0.10	0.055			ND	0.60	0.33	2	2/16/22 20:27	BRF	
1,4-Dichlorobenzene	ND	0.10	0.065			ND	0.60	0.39	2	2/16/22 20:27	BRF	
Dichlorodifluoromethane (Freon 12)	0.51	0.10	0.098			2.5	0.49	0.48	2	2/16/22 20:27	BRF	
1,1-Dichloroethane	0.20	0.10	0.087			0.82	0.40	0.35	2	2/16/22 20:27	BRF	
1,2-Dichloroethane	0.24	0.10	0.091			0.97	0.40	0.37	2	2/16/22 20:27	BRF	
1,1-Dichloroethylene	ND	0.10	0.076			ND	0.40	0.30	2	2/16/22 20:27	BRF	
cis-1,2-Dichloroethylene	ND	0.10	0.073			ND	0.40	0.29	2	2/16/22 20:27	BRF	
trans-1,2-Dichloroethylene	ND	0.10	0.079			ND	0.40	0.31	2	2/16/22 20:27	BRF	
1,2-Dichloropropane	ND	0.10	0.054			ND	0.46	0.25	2	2/16/22 20:27	BRF	
cis-1,3-Dichloropropene	ND	0.10	0.052			ND	0.45	0.24	2	2/16/22 20:27	BRF	
trans-1,3-Dichloropropene	ND	0.10	0.051			ND	0.45	0.23	2	2/16/22 20:27	BRF	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098			ND	0.70	0.69	2	2/16/22 20:27	BRF	
1,4-Dioxane	ND	1.0	0.083			ND	3.6	0.30	2	2/16/22 20:27	BRF	
Ethanol	11	4.0	1.8			20	7.5	3.3	2	2/16/22 20:27	BRF	
Ethyl Acetate	ND	1.0	0.51	L-03, V-34	ND	UJ	3.6	1.8	2	2/16/22 20:27	BRF	
Ethylbenzene	ND	0.10	0.058		ND	0.43	0.25	2	2/16/22 20:27	BRF		
4-Ethyltoluene	ND	0.10	0.061		ND	0.49	0.30	2	2/16/22 20:27	BRF		
Heptane	0.12	0.10	0.064		0.48	0.41	0.26	2	2/16/22 20:27	BRF		
Hexachlorobutadiene	ND	0.10	0.082			ND	1.1	0.88	2	2/16/22 20:27	BRF	
Hexane	ND	4.0	0.52			ND	14	1.8	2	2/16/22 20:27	BRF	
2-Hexanone (MBK)	ND	0.20	0.050			ND	UJ	0.82	0.21	2	2/16/22 20:27	BRF
Isopropanol	ND	4.0	0.69			ND	9.8	1.7	2	2/16/22 20:27	BRF	
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.077			ND	0.36	0.28	2	2/16/22 20:27	BRF	
Methylene Chloride	ND	1.0	0.46			ND	3.5	1.6	2	2/16/22 20:27	BRF	
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.051			ND	0.41	0.21	2	2/16/22 20:27	BRF	
Naphthalene	ND	0.10	0.063			ND	0.52	0.33	2	2/16/22 20:27	BRF	
Propene	ND	4.0	0.88			ND	6.9	1.5	2	2/16/22 20:27	BRF	
Styrene	ND	0.10	0.053			ND	0.43	0.22	2	2/16/22 20:27	BRF	
1,1,2,2-Tetrachloroethane	ND	0.10	0.054			ND	0.69	0.37	2	2/16/22 20:27	BRF	

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdow

Date Received: 2/7/2022

Field Sample #: 224121-SS-04-09

Sample ID: 22B0438-01

Sample Matrix: Sub Slab

Sampled: 2/3/2022 08:12

Sample Description/Location: H-04-09

Sub Description/Location:

Canister ID: 1945

Canister Size: 6 liter

Flow Controller ID: 3044

Sample Type: 24 hr

Work Order: 22B0438

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -8

Receipt Vacuum(in Hg): -8

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	0.15	0.10	0.076	V-04, L-03	1.0	0.68	0.52	2	2/16/22 20:27	BRF
Tetrahydrofuran	ND	1.0	0.16		ND	2.9	0.48	2	2/16/22 20:27	BRF
Toluene	0.26	0.10	0.057		0.99	0.38	0.22	2	2/16/22 20:27	BRF
1,2,4-Trichlorobenzene	ND	0.20	0.070		ND UJ	1.5	0.52	2	2/16/22 20:27	BRF
1,1,1-Trichloroethane	ND	0.10	0.079		ND	0.55	0.43	2	2/16/22 20:27	BRF
1,1,2-Trichloroethane	ND	0.10	0.070		ND	0.55	0.38	2	2/16/22 20:27	BRF
Trichloroethylene	ND	0.10	0.067	J	ND	0.54	0.36	2	2/16/22 20:27	BRF
Trichlorofluoromethane (Freon 11)	0.22	0.40	0.12		1.2	2.2	0.66	2	2/16/22 20:27	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	0.11		ND	3.1	0.85	2	2/16/22 20:27	BRF
1,2,4-Trimethylbenzene	ND	0.10	0.044		ND	0.49	0.22	2	2/16/22 20:27	BRF
1,3,5-Trimethylbenzene	ND	0.10	0.053	V-05	ND	0.49	0.26	2	2/16/22 20:27	BRF
Vinyl Acetate	2.1	2.0	0.54		7.4 J	7.0	1.9	2	2/16/22 20:27	BRF
Vinyl Chloride	ND	0.10	0.090		ND	0.26	0.23	2	2/16/22 20:27	BRF
m&p-Xylene	0.15	0.20	0.11		J	0.64	0.87	0.49	2	2/16/22 20:27
o-Xylene	ND	0.10	0.051		ND	0.43	0.22	2	2/16/22 20:27	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	94.4	70-130	2/16/22 20:27

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown

Date Received: 2/7/2022

Field Sample #: 224121-IA-04-09

Sample ID: 22B0438-02

Sample Matrix: Indoor air

Sampled: 2/3/2022 08:16

Sample Description/Location: H-04-09

Sub Description/Location:

Canister ID: 1181

Canister Size: 6 liter

Flow Controller ID: 3595

Sample Type: 24 hr

Work Order: 22B0438

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -12.5

Receipt Vacuum(in Hg): -12.3

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	8.1	1.6	0.97		19	3.8	2.3	0.8	2/16/22 13:47	BRF
Benzene	0.61	0.040	0.030		1.9	0.13	0.097	0.8	2/16/22 13:47	BRF
Benzyl chloride	ND	0.040	0.035		ND	0.21	0.18	0.8	2/16/22 13:47	BRF
Bromodichloromethane	ND	0.040	0.028		ND	0.27	0.19	0.8	2/16/22 13:47	BRF
Bromoform	ND	0.040	0.027		ND	0.41	0.28	0.8	2/16/22 13:47	BRF
Bromomethane	ND	0.040	0.033		ND	0.16	0.13	0.8	2/16/22 13:47	BRF
1,3-Butadiene	ND	0.040	0.034		ND	0.088	0.074	0.8	2/16/22 13:47	BRF
2-Butanone (MEK)	0.58	1.6	0.43	J	1.7	4.7	1.3	0.8	2/16/22 13:47	BRF
Carbon Disulfide	ND	0.40	0.037		ND	1.2	0.12	0.8	2/16/22 13:47	BRF
Carbon Tetrachloride	0.085	0.040	0.032		0.53	0.25	0.20	0.8	2/16/22 13:47	BRF
Chlorobenzene	ND	0.040	0.027		ND	0.18	0.12	0.8	2/16/22 13:47	BRF
Chloroethane	ND	0.040	0.029		ND	0.11	0.077	0.8	2/16/22 13:47	BRF
Chloroform	0.058	0.040	0.038		0.28	0.20	0.19	0.8	2/16/22 13:47	BRF
Chloromethane	0.56	0.080	0.032		1.2	0.17	0.066	0.8	2/16/22 13:47	BRF
Cyclohexane	ND	0.040	0.026		ND	0.14	0.091	0.8	2/16/22 13:47	BRF
Dibromochloromethane	ND	0.040	0.026		ND	0.34	0.23	0.8	2/16/22 13:47	BRF
1,2-Dibromoethane (EDB)	ND	0.040	0.024		ND	0.31	0.19	0.8	2/16/22 13:47	BRF
1,2-Dichlorobenzene	ND	0.040	0.023		ND	0.24	0.14	0.8	2/16/22 13:47	BRF
1,3-Dichlorobenzene	ND	0.040	0.022		ND	0.24	0.13	0.8	2/16/22 13:47	BRF
1,4-Dichlorobenzene	0.74	0.040	0.026		4.5	0.24	0.16	0.8	2/16/22 13:47	BRF
Dichlorodifluoromethane (Freon 12)	0.47	0.040	0.039		2.3	0.20	0.19	0.8	2/16/22 13:47	BRF
1,1-Dichloroethane	ND	0.040	0.035		ND	0.16	0.14	0.8	2/16/22 13:47	BRF
1,2-Dichloroethane	ND	0.040	0.036		ND	0.16	0.15	0.8	2/16/22 13:47	BRF
1,1-Dichloroethylene	ND	0.040	0.030		ND	0.16	0.12	0.8	2/16/22 13:47	BRF
cis-1,2-Dichloroethylene	ND	0.040	0.029		ND	0.16	0.12	0.8	2/16/22 13:47	BRF
trans-1,2-Dichloroethylene	ND	0.040	0.031		ND	0.16	0.12	0.8	2/16/22 13:47	BRF
1,2-Dichloropropane	ND	0.040	0.022		ND	0.18	0.10	0.8	2/16/22 13:47	BRF
cis-1,3-Dichloropropene	ND	0.040	0.021		ND	0.18	0.094	0.8	2/16/22 13:47	BRF
trans-1,3-Dichloropropene	ND	0.040	0.020		ND	0.18	0.093	0.8	2/16/22 13:47	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.040	0.039		ND	0.28	0.28	0.8	2/16/22 13:47	BRF
1,4-Dioxane	ND	0.40	0.033		ND	1.4	0.12	0.8	2/16/22 13:47	BRF
Ethanol	32	1.6	0.71		61	3.0	1.3	0.8	2/16/22 13:47	BRF
Ethyl Acetate	0.29	0.40	0.20	L-03, V-34, J	1.0 J	1.4	0.73	0.8	2/16/22 13:47	BRF
Ethylbenzene	0.69	0.040	0.023		3.0	0.17	0.10	0.8	2/16/22 13:47	BRF
4-Ethyltoluene	0.046	0.040	0.025		0.23	0.20	0.12	0.8	2/16/22 13:47	BRF
Heptane	0.42	0.040	0.026		1.7	0.16	0.10	0.8	2/16/22 13:47	BRF
Hexachlorobutadiene	ND	0.040	0.033		ND	0.43	0.35	0.8	2/16/22 13:47	BRF
Hexane	1.2	1.6	0.21	J	4.1	5.6	0.73	0.8	2/16/22 13:47	BRF
2-Hexanone (MBK)	ND	0.080	0.020		ND UJ	0.33	0.082	0.8	2/16/22 13:47	BRF
Isopropanol	1.9	1.6	0.28		4.7	3.9	0.68	0.8	2/16/22 13:47	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.040	0.031		ND	0.14	0.11	0.8	2/16/22 13:47	BRF
Methylene Chloride	0.38	0.40	0.19	J	1.3	1.4	0.64	0.8	2/16/22 13:47	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.040	0.021		ND	0.16	0.084	0.8	2/16/22 13:47	BRF
Naphthalene	0.070	0.040	0.025		0.37	0.21	0.13	0.8	2/16/22 13:47	BRF
Propene	ND	1.6	0.35		ND	2.8	0.61	0.8	2/16/22 13:47	BRF
Styrene	0.059	0.040	0.021		0.25	0.17	0.090	0.8	2/16/22 13:47	BRF
1,1,2,2-Tetrachloroethane	ND	0.040	0.022		ND	0.27	0.15	0.8	2/16/22 13:47	BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/7/2022
Field Sample #: 224121-IA-04-09
Sample ID: 22B0438-02
 Sample Matrix: Indoor air
 Sampled: 2/3/2022 08:16

Sample Description/Location: H-04-09
 Sub Description/Location:
 Canister ID: 1181
 Canister Size: 6 liter
 Flow Controller ID: 3595
 Sample Type: 24 hr

Work Order: 22B0438
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -12.5
 Receipt Vacuum(in Hg): -12.3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	0.10	0.040	0.031	L-03, V-04	0.68	0.27	0.21	0.8	2/16/22 13:47	BRF
Tetrahydrofuran	ND	0.40	0.066		ND	1.2	0.19	0.8	2/16/22 13:47	BRF
Toluene	1.6	0.040	0.023		5.9	0.15	0.086	0.8	2/16/22 13:47	BRF
1,2,4-Trichlorobenzene	ND	0.080	0.028		ND UJ	0.59	0.21	0.8	2/16/22 13:47	BRF
1,1,1-Trichloroethane	ND	0.040	0.031		ND	0.22	0.17	0.8	2/16/22 13:47	BRF
1,1,2-Trichloroethane	ND	0.040	0.028		ND	0.22	0.15	0.8	2/16/22 13:47	BRF
Trichloroethylene	ND	0.040	0.027	J	ND	0.21	0.14	0.8	2/16/22 13:47	BRF
Trichlorofluoromethane (Freon 11)	0.21	0.16	0.047		1.2	0.90	0.27	0.8	2/16/22 13:47	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.070	0.16	0.044		0.53	1.2	0.34	0.8	2/16/22 13:47	BRF
1,2,4-Trimethylbenzene	0.17	0.040	0.018		0.82	0.20	0.087	0.8	2/16/22 13:47	BRF
1,3,5-Trimethylbenzene	0.050	0.040	0.021		0.24	0.20	0.10	0.8	2/16/22 13:47	BRF
Vinyl Acetate	ND	0.80	0.21		V-05	ND UJ	2.8	0.76	0.8	2/16/22 13:47
Vinyl Chloride	ND	0.040	0.036		ND	0.10	0.092	0.8	2/16/22 13:47	BRF
m&p-Xylene	2.6	0.080	0.045		11	0.35	0.19	0.8	2/16/22 13:47	BRF
o-Xylene	0.41	0.040	0.020		1.8	0.17	0.089	0.8	2/16/22 13:47	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	93.8	70-130	2/16/22 13:47

ALH 2/28/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/7/2022
Field Sample #: 224121-OA-04-09
Sample ID: 22B0438-03
 Sample Matrix: Ambient Air
 Sampled: 2/3/2022 08:17

Sample Description/Location: H-04-09
 Sub Description/Location:
 Canister ID: 2017
 Canister Size: 6 liter
 Flow Controller ID: 3472
 Sample Type: 24 hr

Work Order: 22B0438
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -11
 Receipt Vacuum(in Hg): -10.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	
Acetone	6.7	1.4	0.84		16	3.3	2.0	0.698	2/16/22 14:18	BRF
Benzene	0.57	0.035	0.026		1.8	0.11	0.084	0.698	2/16/22 14:18	BRF
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.698	2/16/22 14:18	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	2/16/22 14:18	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	2/16/22 14:18	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	2/16/22 14:18	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	2/16/22 14:18	BRF
2-Butanone (MEK)	0.53	1.4	0.37	J	1.6	4.1	1.1	0.698	2/16/22 14:18	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	2/16/22 14:18	BRF
Carbon Tetrachloride	0.087	0.035	0.028		0.54	0.22	0.17	0.698	2/16/22 14:18	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	2/16/22 14:18	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	2/16/22 14:18	BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	2/16/22 14:18	BRF
Chloromethane	0.56	0.070	0.028		1.2	0.14	0.057	0.698	2/16/22 14:18	BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.079	0.698	2/16/22 14:18	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	2/16/22 14:18	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	2/16/22 14:18	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	2/16/22 14:18	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	2/16/22 14:18	BRF
1,4-Dichlorobenzene	0.068	0.035	0.023		0.41	0.21	0.14	0.698	2/16/22 14:18	BRF
Dichlorodifluoromethane (Freon 12)	0.48	0.035	0.034		2.4	0.17	0.17	0.698	2/16/22 14:18	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	2/16/22 14:18	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	2/16/22 14:18	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	2/16/22 14:18	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	2/16/22 14:18	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	2/16/22 14:18	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	2/16/22 14:18	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	2/16/22 14:18	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	2/16/22 14:18	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	2/16/22 14:18	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	2/16/22 14:18	BRF
Ethanol	15	1.4	0.62		29	2.6	1.2	0.698	2/16/22 14:18	BRF
Ethyl Acetate	0.23	0.35	0.18	L-03, V-34, J	0.83 J	1.3	0.64	0.698	2/16/22 14:18	BRF
Ethylbenzene	0.12	0.035	0.020		0.50	0.15	0.088	0.698	2/16/22 14:18	BRF
4-Ethyltoluene	0.034	0.035	0.021	J	0.17	0.17	0.11	0.698	2/16/22 14:18	BRF
Heptane	0.19	0.035	0.022		0.76	0.14	0.091	0.698	2/16/22 14:18	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	2/16/22 14:18	BRF
Hexane	0.27	1.4	0.18	J	0.97	4.9	0.64	0.698	2/16/22 14:18	BRF
2-Hexanone (MBK)	ND	0.070	0.018		ND UJ	0.29	0.072	0.698	2/16/22 14:18	BRF
Isopropanol	1.4	1.4	0.24		3.5	3.4	0.59	0.698	2/16/22 14:18	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	2/16/22 14:18	BRF
Methylene Chloride	0.36	0.35	0.16		1.3	1.2	0.56	0.698	2/16/22 14:18	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	2/16/22 14:18	BRF
Naphthalene	0.034	0.035	0.022	J	0.18	0.18	0.12	0.698	2/16/22 14:18	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	2/16/22 14:18	BRF
Styrene	0.042	0.035	0.018		0.18	0.15	0.078	0.698	2/16/22 14:18	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	2/16/22 14:18	BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/7/2022
Field Sample #: 224121-OA-04-09
Sample ID: 22B0438-03
 Sample Matrix: Ambient Air
 Sampled: 2/3/2022 08:17

Sample Description/Location: H-04-09
 Sub Description/Location:
 Canister ID: 2017
 Canister Size: 6 liter
 Flow Controller ID: 3472
 Sample Type: 24 hr

Work Order: 22B0438
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -11
 Receipt Vacuum(in Hg): -10.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	Analyst
Tetrachloroethylene	0.10	0.035	0.027	L-03, V-04	0.70	0.24	0.18	0.698	2/16/22 14:18	BRF
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	2/16/22 14:18	BRF
Toluene	1.1	0.035	0.020		4.2	0.13	0.075	0.698	2/16/22 14:18	BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024		ND UJ	0.52	0.18	0.698	2/16/22 14:18	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	2/16/22 14:18	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	2/16/22 14:18	BRF
Trichloroethylene	ND	0.035	0.024	J	ND	0.19	0.13	0.698	2/16/22 14:18	BRF
Trichlorofluoromethane (Freon 11)	0.22	0.14	0.041		1.2	0.78	0.23	0.698	2/16/22 14:18	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.073	0.14	0.039		0.56	1.1	0.30	0.698	2/16/22 14:18	BRF
1,2,4-Trimethylbenzene	0.12	0.035	0.015		0.57	0.17	0.076	0.698	2/16/22 14:18	BRF
1,3,5-Trimethylbenzene	0.037	0.035	0.018		0.18	0.17	0.091	0.698	2/16/22 14:18	BRF
Vinyl Acetate	ND	0.70	0.19		V-05	ND UJ	2.5	0.66	0.698	2/16/22 14:18
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	2/16/22 14:18	BRF
m&p-Xylene	0.40	0.070	0.039		1.7	0.30	0.17	0.698	2/16/22 14:18	BRF
o-Xylene	0.14	0.035	0.018		0.63	0.15	0.078	0.698	2/16/22 14:18	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	93.4	70-130	2/16/22 14:18

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/7/2022
Field Sample #: 224121-SS-124
Sample ID: 22B0438-04
 Sample Matrix: Sub Slab
 Sampled: 2/3/2022 11:47

Sample Description/Location: H-124
 Sub Description/Location:
 Canister ID: 2140
 Canister Size: 6 liter
 Flow Controller ID: 3503
 Sample Type: 24 hr

Work Order: 22B0438
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -10
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed		
Acetone	7.1	4.0	2.4			17	9.5	5.7	2	2/16/22 21:18	BRF
Benzene	ND	0.10	0.076			ND	0.32	0.24	2	2/16/22 21:18	BRF
Benzyl chloride	ND	0.10	0.088			ND	0.52	0.46	2	2/16/22 21:18	BRF
Bromodichloromethane	ND	0.10	0.070			ND	0.67	0.47	2	2/16/22 21:18	BRF
Bromoform	ND	0.10	0.068			ND	1.0	0.70	2	2/16/22 21:18	BRF
Bromomethane	ND	0.10	0.082			ND	0.39	0.32	2	2/16/22 21:18	BRF
1,3-Butadiene	ND	0.10	0.084			ND	0.22	0.19	2	2/16/22 21:18	BRF
2-Butanone (MEK)	1.4	4.0	1.1	J		4.1	12	3.1	2	2/16/22 21:18	BRF
Carbon Disulfide	ND	1.0	0.092			ND	3.1	0.29	2	2/16/22 21:18	BRF
Carbon Tetrachloride	ND	0.10	0.080			ND	0.63	0.50	2	2/16/22 21:18	BRF
Chlorobenzene	ND	0.10	0.066			ND	0.46	0.31	2	2/16/22 21:18	BRF
Chloroethane	0.72	0.10	0.073			1.9	0.26	0.19	2	2/16/22 21:18	BRF
Chloroform	ND	0.10	0.095			ND	0.49	0.46	2	2/16/22 21:18	BRF
Chloromethane	ND	0.20	0.079			ND	0.41	0.16	2	2/16/22 21:18	BRF
Cyclohexane	ND	0.10	0.066			ND	0.34	0.23	2	2/16/22 21:18	BRF
Dibromochloromethane	ND	0.10	0.066			ND	0.85	0.56	2	2/16/22 21:18	BRF
1,2-Dibromoethane (EDB)	ND	0.10	0.060			ND	0.77	0.46	2	2/16/22 21:18	BRF
1,2-Dichlorobenzene	ND	0.10	0.057			ND	0.60	0.35	2	2/16/22 21:18	BRF
1,3-Dichlorobenzene	ND	0.10	0.055			ND	0.60	0.33	2	2/16/22 21:18	BRF
1,4-Dichlorobenzene	ND	0.10	0.065			ND	0.60	0.39	2	2/16/22 21:18	BRF
Dichlorodifluoromethane (Freon 12)	0.49	0.10	0.098			2.4	0.49	0.48	2	2/16/22 21:18	BRF
1,1-Dichloroethane	ND	0.10	0.087			ND	0.40	0.35	2	2/16/22 21:18	BRF
1,2-Dichloroethane	ND	0.10	0.091			ND	0.40	0.37	2	2/16/22 21:18	BRF
1,1-Dichloroethylene	ND	0.10	0.076			ND	0.40	0.30	2	2/16/22 21:18	BRF
cis-1,2-Dichloroethylene	ND	0.10	0.073			ND	0.40	0.29	2	2/16/22 21:18	BRF
trans-1,2-Dichloroethylene	ND	0.10	0.079			ND	0.40	0.31	2	2/16/22 21:18	BRF
1,2-Dichloropropane	ND	0.10	0.054			ND	0.46	0.25	2	2/16/22 21:18	BRF
cis-1,3-Dichloropropene	ND	0.10	0.052			ND	0.45	0.24	2	2/16/22 21:18	BRF
trans-1,3-Dichloropropene	ND	0.10	0.051			ND	0.45	0.23	2	2/16/22 21:18	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098			ND	0.70	0.69	2	2/16/22 21:18	BRF
1,4-Dioxane	ND	1.0	0.083			ND	3.6	0.30	2	2/16/22 21:18	BRF
Ethanol	13	4.0	1.8			24	7.5	3.3	2	2/16/22 21:18	BRF
Ethyl Acetate	ND	1.0	0.51	L-03, V-34		ND UJ	3.6	1.8	2	2/16/22 21:18	BRF
Ethylbenzene	ND	0.10	0.058			ND	0.43	0.25	2	2/16/22 21:18	BRF
4-Ethyltoluene	ND	0.10	0.061			ND	0.49	0.30	2	2/16/22 21:18	BRF
Heptane	ND	0.10	0.064			ND	0.41	0.26	2	2/16/22 21:18	BRF
Hexachlorobutadiene	ND	0.10	0.082			ND	1.1	0.88	2	2/16/22 21:18	BRF
Hexane	ND	4.0	0.52			ND	14	1.8	2	2/16/22 21:18	BRF
2-Hexanone (MBK)	ND	0.20	0.050			ND UJ	0.82	0.21	2	2/16/22 21:18	BRF
Isopropanol	1.3	4.0	0.69	J		3.3	9.8	1.7	2	2/16/22 21:18	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.077			ND	0.36	0.28	2	2/16/22 21:18	BRF
Methylene Chloride	ND	1.0	0.46			ND	3.5	1.6	2	2/16/22 21:18	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.051			ND	0.41	0.21	2	2/16/22 21:18	BRF
Naphthalene	ND	0.10	0.063			ND	0.52	0.33	2	2/16/22 21:18	BRF
Propene	ND	4.0	0.88			ND	6.9	1.5	2	2/16/22 21:18	BRF
Styrene	ND	0.10	0.053			ND	0.43	0.22	2	2/16/22 21:18	BRF
1,1,2,2-Tetrachloroethane	ND	0.10	0.054			ND	0.69	0.37	2	2/16/22 21:18	BRF

ALH 2/28/22

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown

Sample Description/Location: H-124

Work Order: 22B0438

Date Received: 2/7/2022

Sub Description/Location:

Initial Vacuum(in Hg): -30

Field Sample #: 224121-SS-124

Canister ID: 2140

Final Vacuum(in Hg): -9

Sample ID: 22B0438-04

Canister Size: 6 liter

Receipt Vacuum(in Hg): -10

Sample Matrix: Sub Slab

Flow Controller ID: 3503

Flow Controller Type: Fixed-Orifice

Sampled: 2/3/2022 11:47

Sample Type: 24 hr

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	0.26	0.10	0.076	L-03, V-04	1.8	0.68	0.52	2	2/16/22 21:18	BRF
Tetrahydrofuran	ND	1.0	0.16		ND	2.9	0.48	2	2/16/22 21:18	BRF
Toluene	0.13	0.10	0.057		0.49	0.38	0.22	2	2/16/22 21:18	BRF
1,2,4-Trichlorobenzene	ND	0.20	0.070		ND UJ	1.5	0.52	2	2/16/22 21:18	BRF
1,1,1-Trichloroethane	ND	0.10	0.079		ND	0.55	0.43	2	2/16/22 21:18	BRF
1,1,2-Trichloroethane	ND	0.10	0.070		ND	0.55	0.38	2	2/16/22 21:18	BRF
Trichloroethylene	ND	0.10	0.067	J	ND	0.54	0.36	2	2/16/22 21:18	BRF
Trichlorofluoromethane (Freon 11)	0.22	0.40	0.12		1.2	2.2	0.66	2	2/16/22 21:18	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	0.11		ND	3.1	0.85	2	2/16/22 21:18	BRF
1,2,4-Trimethylbenzene	ND	0.10	0.044		ND	0.49	0.22	2	2/16/22 21:18	BRF
1,3,5-Trimethylbenzene	ND	0.10	0.053	V-05	ND	0.49	0.26	2	2/16/22 21:18	BRF
Vinyl Acetate	ND	2.0	0.54		ND UJ	7.0	1.9	2	2/16/22 21:18	BRF
Vinyl Chloride	ND	0.10	0.090		ND	0.26	0.23	2	2/16/22 21:18	BRF
m&p-Xylene	ND	0.20	0.11		ND	0.87	0.49	2	2/16/22 21:18	BRF
o-Xylene	ND	0.10	0.051		ND	0.43	0.22	2	2/16/22 21:18	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	93.1	70-130	2/16/22 21:18

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown

Sample Description/Location: H-124

Work Order: 22B0438

Date Received: 2/7/2022

Sub Description/Location:

Initial Vacuum(in Hg): -30

Field Sample #: 224121-IA-124

Canister ID: 1989

Final Vacuum(in Hg): -10

Sample ID: 22B0438-05

Canister Size: 6 liter

Receipt Vacuum(in Hg): -9.9

Sample Matrix: Indoor air

Flow Controller ID: 3363

Flow Controller Type: Fixed-Orifice

Sampled: 2/3/2022 11:48

Sample Type: 24 hr

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	17	1.4	0.84		41	3.3	2.0	0.698	2/16/22 14:50	BRF
Benzene	0.63	0.035	0.026		2.0	0.11	0.084	0.698	2/16/22 14:50	BRF
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.698	2/16/22 14:50	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	2/16/22 14:50	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	2/16/22 14:50	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	2/16/22 14:50	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	2/16/22 14:50	BRF
2-Butanone (MEK)	0.68	1.4	0.37	J	2.0	4.1	1.1	0.698	2/16/22 14:50	BRF
Carbon Disulfide	0.037	0.35	0.032	J	0.12	1.1	0.10	0.698	2/16/22 14:50	BRF
Carbon Tetrachloride	0.089	0.035	0.028		0.56	0.22	0.17	0.698	2/16/22 14:50	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	2/16/22 14:50	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	2/16/22 14:50	BRF
Chloroform	0.16	0.035	0.033		0.76	0.17	0.16	0.698	2/16/22 14:50	BRF
Chloromethane	0.73	0.070	0.028		1.5	0.14	0.057	0.698	2/16/22 14:50	BRF
Cyclohexane	0.31	0.035	0.023		1.1	0.12	0.079	0.698	2/16/22 14:50	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	2/16/22 14:50	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	2/16/22 14:50	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	2/16/22 14:50	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	2/16/22 14:50	BRF
1,4-Dichlorobenzene	0.066	0.035	0.023		0.40	0.21	0.14	0.698	2/16/22 14:50	BRF
Dichlorodifluoromethane (Freon 12)	0.46	0.035	0.034		2.3	0.17	0.17	0.698	2/16/22 14:50	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	2/16/22 14:50	BRF
1,2-Dichloroethane	0.055	0.035	0.032		0.22	0.14	0.13	0.698	2/16/22 14:50	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	2/16/22 14:50	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	2/16/22 14:50	BRF
trans-1,2-Dichloroethylene	0.10	0.035	0.027		0.40	0.14	0.11	0.698	2/16/22 14:50	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	2/16/22 14:50	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	2/16/22 14:50	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	2/16/22 14:50	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	2/16/22 14:50	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	2/16/22 14:50	BRF
Ethanol	170	8.0	3.5		320	15	6.6	4	2/17/22 15:22	BRF
Ethyl Acetate	1.3	0.35	0.18	L-03, V-34	4.7 J	1.3	0.64	0.698	2/16/22 14:50	BRF
Ethylbenzene	0.29	0.035	0.020		1.2	0.15	0.088	0.698	2/16/22 14:50	BRF
4-Ethyltoluene	0.085	0.035	0.021		0.42	0.17	0.11	0.698	2/16/22 14:50	BRF
Heptane	0.38	0.035	0.022		1.5	0.14	0.091	0.698	2/16/22 14:50	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	2/16/22 14:50	BRF
Hexane	0.97	1.4	0.18	J	3.4	4.9	0.64	0.698	2/16/22 14:50	BRF
2-Hexanone (MBK)	ND	0.070	0.018		ND UJ	0.29	0.072	0.698	2/16/22 14:50	BRF
Isopropanol	2.4	1.4	0.24		5.9	3.4	0.59	0.698	2/16/22 14:50	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	2/16/22 14:50	BRF
Methylene Chloride	0.44	0.35	0.16		1.5	1.2	0.56	0.698	2/16/22 14:50	BRF
4-Methyl-2-pentanone (MIBK)	0.22	0.035	0.018		0.91	0.14	0.073	0.698	2/16/22 14:50	BRF
Naphthalene	0.068	0.035	0.022		0.36	0.18	0.12	0.698	2/16/22 14:50	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	2/16/22 14:50	BRF
Styrene	0.14	0.035	0.018		0.58	0.15	0.078	0.698	2/16/22 14:50	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	2/16/22 14:50	BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/7/2022
Field Sample #: 224121-IA-124
Sample ID: 22B0438-05
 Sample Matrix: Indoor air
 Sampled: 2/3/2022 11:48

Sample Description/Location: H-124
 Sub Description/Location:
 Canister ID: 1989
 Canister Size: 6 liter
 Flow Controller ID: 3363
 Sample Type: 24 hr

Work Order: 22B0438
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -9.9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	Analyst
Tetrachloroethylene	0.17	0.035	0.027	L-03, V-04	1.1	0.24	0.18	0.698	2/16/22 14:50	BRF
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	2/16/22 14:50	BRF
Toluene	3.3	0.035	0.020		12	0.13	0.075	0.698	2/16/22 14:50	BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024		ND UJ	0.52	0.18	0.698	2/16/22 14:50	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	2/16/22 14:50	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	2/16/22 14:50	BRF
Trichloroethylene	0.15	0.035	0.024	J	0.81	0.19	0.13	0.698	2/16/22 14:50	BRF
Trichlorofluoromethane (Freon 11)	0.21	0.14	0.041		1.2	0.78	0.23	0.698	2/16/22 14:50	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.073	0.14	0.039		0.56	1.1	0.30	0.698	2/16/22 14:50	BRF
1,2,4-Trimethylbenzene	0.32	0.035	0.015		1.6	0.17	0.076	0.698	2/16/22 14:50	BRF
1,3,5-Trimethylbenzene	0.095	0.035	0.018		0.47	0.17	0.091	0.698	2/16/22 14:50	BRF
Vinyl Acetate	ND	0.70	0.19		V-05	ND UJ	2.5	0.66	0.698	2/16/22 14:50
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	2/16/22 14:50	BRF
m&p-Xylene	0.94	0.070	0.039		4.1	0.30	0.17	0.698	2/16/22 14:50	BRF
o-Xylene	0.37	0.035	0.018		1.6	0.15	0.078	0.698	2/16/22 14:50	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	94.1	70-130	2/17/22 15:22
4-Bromofluorobenzene (1)	95.0	70-130	2/16/22 14:50

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/7/2022
Field Sample #: 224121-OA-124
Sample ID: 22B0438-06
 Sample Matrix: Ambient Air
 Sampled: 2/3/2022 11:49

Sample Description/Location: H-124
 Sub Description/Location:
 Canister ID: 1831
 Canister Size: 6 liter
 Flow Controller ID: 3463
 Sample Type: 24 hr

Work Order: 22B0438
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -8.3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	7.9	1.4	0.84		19	3.3	2.0	0.698	2/16/22 15:21		BRF
Benzene	0.42	0.035	0.026		1.3	0.11	0.084	0.698	2/16/22 15:21		BRF
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.698	2/16/22 15:21		BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	2/16/22 15:21		BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	2/16/22 15:21		BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	2/16/22 15:21		BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	2/16/22 15:21		BRF
2-Butanone (MEK)	0.64	1.4	0.37	J	1.9	4.1	1.1	0.698	2/16/22 15:21		BRF
Carbon Disulfide	0.23	0.35	0.032	J	0.71	1.1	0.10	0.698	2/16/22 15:21		BRF
Carbon Tetrachloride	0.087	0.035	0.028		0.54	0.22	0.17	0.698	2/16/22 15:21		BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	2/16/22 15:21		BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	2/16/22 15:21		BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	2/16/22 15:21		BRF
Chloromethane	0.63	0.070	0.028		1.3	0.14	0.057	0.698	2/16/22 15:21		BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.079	0.698	2/16/22 15:21		BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	2/16/22 15:21		BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	2/16/22 15:21		BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	2/16/22 15:21		BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	2/16/22 15:21		BRF
1,4-Dichlorobenzene	0.059	0.035	0.023		0.36	0.21	0.14	0.698	2/16/22 15:21		BRF
Dichlorodifluoromethane (Freon 12)	0.49	0.035	0.034		2.4	0.17	0.17	0.698	2/16/22 15:21		BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	2/16/22 15:21		BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	2/16/22 15:21		BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	2/16/22 15:21		BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	2/16/22 15:21		BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	2/16/22 15:21		BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	2/16/22 15:21		BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	2/16/22 15:21		BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	2/16/22 15:21		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	2/16/22 15:21		BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	2/16/22 15:21		BRF
Ethanol	22	1.4	0.62		41	2.6	1.2	0.698	2/16/22 15:21		BRF
Ethyl Acetate	0.26	0.35	0.18	L-03, V-34, J	0.93 J	1.3	0.64	0.698	2/16/22 15:21		BRF
Ethylbenzene	0.14	0.035	0.020		0.60	0.15	0.088	0.698	2/16/22 15:21		BRF
4-Ethyltoluene	0.031	0.035	0.021	J	0.15	0.17	0.11	0.698	2/16/22 15:21		BRF
Heptane	0.18	0.035	0.022		0.75	0.14	0.091	0.698	2/16/22 15:21		BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	2/16/22 15:21		BRF
Hexane	0.32	1.4	0.18	J	1.1	4.9	0.64	0.698	2/16/22 15:21		BRF
2-Hexanone (MBK)	ND	0.070	0.018		ND UJ	0.29	0.072	0.698	2/16/22 15:21		BRF
Isopropanol	2.7	1.4	0.24		6.7	3.4	0.59	0.698	2/16/22 15:21		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	2/16/22 15:21		BRF
Methylene Chloride	0.37	0.35	0.16		1.3	1.2	0.56	0.698	2/16/22 15:21		BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	2/16/22 15:21		BRF
Naphthalene	0.032	0.035	0.022	J	0.17	0.18	0.12	0.698	2/16/22 15:21		BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	2/16/22 15:21		BRF
Styrene	0.058	0.035	0.018		0.25	0.15	0.078	0.698	2/16/22 15:21		BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	2/16/22 15:21		BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown

Date Received: 2/7/2022

Field Sample #: 224121-OA-124
Sample ID: 22B0438-06

Sample Matrix: Ambient Air

Sampled: 2/3/2022 11:49

Sample Description/Location: H-124

Sub Description/Location:

Canister ID: 1831

Canister Size: 6 liter

Flow Controller ID: 3463

Sample Type: 24 hr

Work Order: 22B0438

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -9

Receipt Vacuum(in Hg): -8.3

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	0.13	0.035	0.027		0.90	0.24	0.18	0.698	2/16/22 15:21		BRF
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	2/16/22 15:21		BRF
Toluene	1.3	0.035	0.020		4.8	0.13	0.075	0.698	2/16/22 15:21		BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024	L-03, V-04	ND UJ	0.52	0.18	0.698	2/16/22 15:21		BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	2/16/22 15:21		BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	2/16/22 15:21		BRF
Trichloroethylene	0.052	0.035	0.024		0.28	0.19	0.13	0.698	2/16/22 15:21		BRF
Trichlorofluoromethane (Freon 11)	0.22	0.14	0.041		1.2	0.78	0.23	0.698	2/16/22 15:21		BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.073	0.14	0.039	J	0.56	1.1	0.30	0.698	2/16/22 15:21		BRF
1,2,4-Trimethylbenzene	0.14	0.035	0.015		0.69	0.17	0.076	0.698	2/16/22 15:21		BRF
1,3,5-Trimethylbenzene	0.047	0.035	0.018		0.23	0.17	0.091	0.698	2/16/22 15:21		BRF
Vinyl Acetate	ND	0.70	0.19	V-05	ND UJ	2.5	0.66	0.698	2/16/22 15:21		BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	2/16/22 15:21		BRF
m&p-Xylene	0.48	0.070	0.039		2.1	0.30	0.17	0.698	2/16/22 15:21		BRF
o-Xylene	0.17	0.035	0.018		0.72	0.15	0.078	0.698	2/16/22 15:21		BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	93.6	70-130	2/16/22 15:21

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/7/2022
Field Sample #: 224121-SS-125
Sample ID: 22B0438-07
 Sample Matrix: Sub Slab
 Sampled: 2/3/2022 14:20

Sample Description/Location: H-125
 Sub Description/Location:
 Canister ID: 1856
 Canister Size: 6 liter
 Flow Controller ID: 3490
 Sample Type: 24 hr

Work Order: 22B0438
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -9.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Acetone	16	4.0	2.4		38	9.5	5.7	2	2/16/22 21:44	BRF
Benzene	ND	0.10	0.076		ND	0.32	0.24	2	2/16/22 21:44	BRF
Benzyl chloride	ND	0.10	0.088		ND	0.52	0.46	2	2/16/22 21:44	BRF
Bromodichloromethane	ND	0.10	0.070		ND	0.67	0.47	2	2/16/22 21:44	BRF
Bromoform	ND	0.10	0.068		ND	1.0	0.70	2	2/16/22 21:44	BRF
Bromomethane	ND	0.10	0.082		ND	0.39	0.32	2	2/16/22 21:44	BRF
1,3-Butadiene	ND	0.10	0.084		ND	0.22	0.19	2	2/16/22 21:44	BRF
2-Butanone (MEK)	8.4	4.0	1.1		25	12	3.1	2	2/16/22 21:44	BRF
Carbon Disulfide	0.21	1.0	0.092	J	0.64	3.1	0.29	2	2/16/22 21:44	BRF
Carbon Tetrachloride	ND	0.10	0.080		ND	0.63	0.50	2	2/16/22 21:44	BRF
Chlorobenzene	ND	0.10	0.066		ND	0.46	0.31	2	2/16/22 21:44	BRF
Chloroethane	7.5	0.10	0.073		20	0.26	0.19	2	2/16/22 21:44	BRF
Chloroform	0.59	0.10	0.095		2.9	0.49	0.46	2	2/16/22 21:44	BRF
Chloromethane	ND	0.20	0.079		ND	0.41	0.16	2	2/16/22 21:44	BRF
Cyclohexane	ND	0.10	0.066		ND	0.34	0.23	2	2/16/22 21:44	BRF
Dibromochloromethane	ND	0.10	0.066		ND	0.85	0.56	2	2/16/22 21:44	BRF
1,2-Dibromoethane (EDB)	ND	0.10	0.060		ND	0.77	0.46	2	2/16/22 21:44	BRF
1,2-Dichlorobenzene	ND	0.10	0.057		ND	0.60	0.35	2	2/16/22 21:44	BRF
1,3-Dichlorobenzene	ND	0.10	0.055		ND	0.60	0.33	2	2/16/22 21:44	BRF
1,4-Dichlorobenzene	ND	0.10	0.065		ND	0.60	0.39	2	2/16/22 21:44	BRF
Dichlorodifluoromethane (Freon 12)	0.54	0.10	0.098		2.7	0.49	0.48	2	2/16/22 21:44	BRF
1,1-Dichloroethane	1.4	0.10	0.087		5.9	0.40	0.35	2	2/16/22 21:44	BRF
1,2-Dichloroethane	1.8	0.10	0.091		7.4	0.40	0.37	2	2/16/22 21:44	BRF
1,1-Dichloroethylene	ND	0.10	0.076		ND	0.40	0.30	2	2/16/22 21:44	BRF
cis-1,2-Dichloroethylene	ND	0.10	0.073		ND	0.40	0.29	2	2/16/22 21:44	BRF
trans-1,2-Dichloroethylene	ND	0.10	0.079		ND	0.40	0.31	2	2/16/22 21:44	BRF
1,2-Dichloropropane	ND	0.10	0.054		ND	0.46	0.25	2	2/16/22 21:44	BRF
cis-1,3-Dichloropropene	ND	0.10	0.052		ND	0.45	0.24	2	2/16/22 21:44	BRF
trans-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	2/16/22 21:44	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098		ND	0.70	0.69	2	2/16/22 21:44	BRF
1,4-Dioxane	ND	1.0	0.083		ND	3.6	0.30	2	2/16/22 21:44	BRF
Ethanol	31	4.0	1.8		59	7.5	3.3	2	2/16/22 21:44	BRF
Ethyl Acetate	2.0	1.0	0.51	L-03, V-34	7.3 J	3.6	1.8	2	2/16/22 21:44	BRF
Ethylbenzene	ND	0.10	0.058		ND	0.43	0.25	2	2/16/22 21:44	BRF
4-Ethyltoluene	ND	0.10	0.061		ND	0.49	0.30	2	2/16/22 21:44	BRF
Heptane	0.38	0.10	0.064		1.6	0.41	0.26	2	2/16/22 21:44	BRF
Hexachlorobutadiene	ND	0.10	0.082		ND	1.1	0.88	2	2/16/22 21:44	BRF
Hexane	0.54	4.0	0.52	J	1.9	14	1.8	2	2/16/22 21:44	BRF
2-Hexanone (MBK)	ND	0.20	0.050		ND UJ	0.82	0.21	2	2/16/22 21:44	BRF
Isopropanol	3.3	4.0	0.69	J	8.1	9.8	1.7	2	2/16/22 21:44	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.077		ND	0.36	0.28	2	2/16/22 21:44	BRF
Methylene Chloride	ND	1.0	0.46		ND	3.5	1.6	2	2/16/22 21:44	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.051		ND	0.41	0.21	2	2/16/22 21:44	BRF
Naphthalene	ND	0.10	0.063		ND	0.52	0.33	2	2/16/22 21:44	BRF
Propene	ND	4.0	0.88		ND	6.9	1.5	2	2/16/22 21:44	BRF
Styrene	ND	0.10	0.053		ND	0.43	0.22	2	2/16/22 21:44	BRF
1,1,2,2-Tetrachloroethane	ND	0.10	0.054		ND	0.69	0.37	2	2/16/22 21:44	BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/7/2022
Field Sample #: 224121-SS-125
Sample ID: 22B0438-07
 Sample Matrix: Sub Slab
 Sampled: 2/3/2022 14:20

Sample Description/Location: H-125
 Sub Description/Location:
 Canister ID: 1856
 Canister Size: 6 liter
 Flow Controller ID: 3490
 Sample Type: 24 hr

Work Order: 22B0438
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -9.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	0.13	0.10	0.076	L-03, V-04	0.85	0.68	0.52	2	2/16/22	21:44	BRF
Tetrahydrofuran	ND	1.0	0.16		ND	2.9	0.48	2	2/16/22	21:44	BRF
Toluene	0.53	0.10	0.057		2.0	0.38	0.22	2	2/16/22	21:44	BRF
1,2,4-Trichlorobenzene	ND	0.20	0.070		ND UJ	1.5	0.52	2	2/16/22	21:44	BRF
1,1,1-Trichloroethane	ND	0.10	0.079		ND	0.55	0.43	2	2/16/22	21:44	BRF
1,1,2-Trichloroethane	ND	0.10	0.070		ND	0.55	0.38	2	2/16/22	21:44	BRF
Trichloroethylene	ND	0.10	0.067		ND	0.54	0.36	2	2/16/22	21:44	BRF
Trichlorofluoromethane (Freon 11)	0.21	0.40	0.12	J	1.2	2.2	0.66	2	2/16/22	21:44	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	0.11		ND	3.1	0.85	2	2/16/22	21:44	BRF
1,2,4-Trimethylbenzene	ND	0.10	0.044		ND	0.49	0.22	2	2/16/22	21:44	BRF
1,3,5-Trimethylbenzene	ND	0.10	0.053		ND	0.49	0.26	2	2/16/22	21:44	BRF
Vinyl Acetate	ND	2.0	0.54	V-05	ND UJ	7.0	1.9	2	2/16/22	21:44	BRF
Vinyl Chloride	0.41	0.10	0.090		1.0	0.26	0.23	2	2/16/22	21:44	BRF
m&p-Xylene	0.20	0.20	0.11		0.87	0.87	0.49	2	2/16/22	21:44	BRF
o-Xylene	0.10	0.10	0.051		0.43	0.43	0.22	2	2/16/22	21:44	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	96.1	70-130	2/16/22 21:44

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/7/2022
Field Sample #: 224121-1A-125
Sample ID: 22B0438-08
 Sample Matrix: Indoor air
 Sampled: 2/3/2022 14:21

Sample Description/Location: H-125
 Sub Description/Location:
 Canister ID: 1928
 Canister Size: 6 liter
 Flow Controller ID: 3644
 Sample Type: 24 hr

Work Order: 22B0438
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -11
 Receipt Vacuum(in Hg): -11
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	5.6	1.4	0.84		13	3.3	2.0	0.698	2/16/22 15:52	BRF
Benzene	0.43	0.035	0.026		1.4	0.11	0.084	0.698	2/16/22 15:52	BRF
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.698	2/16/22 15:52	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	2/16/22 15:52	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	2/16/22 15:52	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	2/16/22 15:52	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	2/16/22 15:52	BRF
2-Butanone (MEK)	0.42	1.4	0.37	J	1.2	4.1	1.1	0.698	2/16/22 15:52	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	2/16/22 15:52	BRF
Carbon Tetrachloride	0.083	0.035	0.028		0.52	0.22	0.17	0.698	2/16/22 15:52	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	2/16/22 15:52	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	2/16/22 15:52	BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	2/16/22 15:52	BRF
Chloromethane	0.52	0.070	0.028		1.1	0.14	0.057	0.698	2/16/22 15:52	BRF
Cyclohexane	0.10	0.035	0.023		0.35	0.12	0.079	0.698	2/16/22 15:52	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	2/16/22 15:52	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	2/16/22 15:52	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	2/16/22 15:52	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	2/16/22 15:52	BRF
1,4-Dichlorobenzene	0.055	0.035	0.023		0.33	0.21	0.14	0.698	2/16/22 15:52	BRF
Dichlorodifluoromethane (Freon 12)	0.48	0.035	0.034		2.4	0.17	0.17	0.698	2/16/22 15:52	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	2/16/22 15:52	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	2/16/22 15:52	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	2/16/22 15:52	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	2/16/22 15:52	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	2/16/22 15:52	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	2/16/22 15:52	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	2/16/22 15:52	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	2/16/22 15:52	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	2/16/22 15:52	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	2/16/22 15:52	BRF
Ethanol	14	1.4	0.62		27	2.6	1.2	0.698	2/16/22 15:52	BRF
Ethyl Acetate	0.26	0.35	0.18	L-03, V-34, J	0.94 J	1.3	0.64	0.698	2/16/22 15:52	BRF
Ethylbenzene	0.17	0.035	0.020		0.75	0.15	0.088	0.698	2/16/22 15:52	BRF
4-Ethyltoluene	0.15	0.035	0.021		0.72	0.17	0.11	0.698	2/16/22 15:52	BRF
Heptane	0.19	0.035	0.022		0.78	0.14	0.091	0.698	2/16/22 15:52	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	2/16/22 15:52	BRF
Hexane	0.39	1.4	0.18	J	1.4	4.9	0.64	0.698	2/16/22 15:52	BRF
2-Hexanone (MBK)	ND	0.070	0.018		ND UJ	0.29	0.072	0.698	2/16/22 15:52	BRF
Isopropanol	1.2	1.4	0.24	J	2.9	3.4	0.59	0.698	2/16/22 15:52	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	2/16/22 15:52	BRF
Methylene Chloride	0.40	0.35	0.16		1.4	1.2	0.56	0.698	2/16/22 15:52	BRF
4-Methyl-2-pentanone (MIBK)	0.065	0.035	0.018		0.27	0.14	0.073	0.698	2/16/22 15:52	BRF
Naphthalene	0.037	0.035	0.022		0.19	0.18	0.12	0.698	2/16/22 15:52	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	2/16/22 15:52	BRF
Styrene	0.056	0.035	0.018		0.24	0.15	0.078	0.698	2/16/22 15:52	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	2/16/22 15:52	BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/7/2022
Field Sample #: 224121-IA-125
Sample ID: 22B0438-08
 Sample Matrix: Indoor air
 Sampled: 2/3/2022 14:21

Sample Description/Location: H-125
 Sub Description/Location:
 Canister ID: 1928
 Canister Size: 6 liter
 Flow Controller ID: 3644
 Sample Type: 24 hr

Work Order: 22B0438
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -11
 Receipt Vacuum(in Hg): -11
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	0.11	0.035	0.027	L-03, V-04	0.77	0.24	0.18	0.698	2/16/22 15:52	BRF
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	2/16/22 15:52	BRF
Toluene	1.2	0.035	0.020		4.4	0.13	0.075	0.698	2/16/22 15:52	BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024		ND UJ	0.52	0.18	0.698	2/16/22 15:52	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	2/16/22 15:52	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	2/16/22 15:52	BRF
Trichloroethylene	0.027	0.035	0.024	J	0.15	0.19	0.13	0.698	2/16/22 15:52	BRF
Trichlorofluoromethane (Freon 11)	0.23	0.14	0.041		1.3	0.78	0.23	0.698	2/16/22 15:52	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.067	0.14	0.039	J	0.51	1.1	0.30	0.698	2/16/22 15:52	BRF
1,2,4-Trimethylbenzene	0.48	0.035	0.015		2.4	0.17	0.076	0.698	2/16/22 15:52	BRF
1,3,5-Trimethylbenzene	0.17	0.035	0.018		0.82	0.17	0.091	0.698	2/16/22 15:52	BRF
Vinyl Acetate	ND	0.70	0.19	V-05	ND UJ	2.5	0.66	0.698	2/16/22 15:52	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	2/16/22 15:52	BRF
m&p-Xylene	0.57	0.070	0.039		2.5	0.30	0.17	0.698	2/16/22 15:52	BRF
o-Xylene	0.25	0.035	0.018		1.1	0.15	0.078	0.698	2/16/22 15:52	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	93.4	70-130	2/16/22 15:52

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VALIDATA

Chemical Services, Inc.

2159 Wynnton Pointe, Duluth, GA 30097

(770) 232-0130

(770) 232-5082 (Fax)

www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY: AECOM Technical Services Northeast, Inc.
PROJECT NAME: Meeker Ave. SVI
CONTRACTED LAB: con-test Analytical Laboratory
QA/QC LEVEL: DUSR
ANALYTICAL METHOD(S): EPA Method TO-15
VALIDATION GUIDELINES: USEPA Region II data validation SOP ((VOA-TO15 HW-31 Rev.6, Analysis of VOCs in Air contained in Canisters by Method TO-15, September 2016), Professional Judgment

SAMPLE MATRIX: Air
TYPES OF ANALYSES: Volatile Organic Compounds (VOC)
DATA REVIEWER(S): Amy L. Hogan
SDG NUMBER: 22B0443
SAMPLING DATE(S): February 5, 2022

SAMPLES:

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>VOC</u>
224121-SS-126	22B0443-01	X
224121-SS-126MD	22B0443-01MD	X
224121-IA-126	22B0443-02	X
224121-OA-126	22B0443-03	X
224121-SS-07	22B0443-04	X
224121-IA-07	22B0443-05	X
224121-IA-07DL	22B0443-05DL	X
224121-SS-127	22B0443-06	X
224121-IA-127	22B0443-07	X
224121-IA-127DL	22B0443-07DL	X
224121-OA-127	22B0443-08	X
224121-SS-21-09	22B0443-09	X
224121-IA-21-09	22B0443-10	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Con-test Analytical Laboratory – 22B0443

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per EPA Method TO-15.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

The Percent Differences (%Ds) for the standards run on 2/8/22 at 16:58 on instrument SYSG exceeded the 30% QC limit for the following compounds:

Vinyl acetate	-39.4%
Ethyl acetate	35.4%

All positive and non-detect results for these compounds in the SDG samples were qualified as estimated (J) and (UJ).

Continuing Calibration:

The Percent Difference (%D) for the standards run on 2/16/22 at 10:26 on instrument SYSG was -33.6% for vinyl acetate, which exceeded the 30% QC limit. All positive and non-detect results for this compound in the SDG samples were qualified as estimated (J) and (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Canister Blanks:

There were no detects in the canister check blanks for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

Two LCS were analyzed by the laboratory for this SDG. The Percent Recoveries (%Rs) for LCS B301437-BS1 were outside the 70-130% QC limits for the following compounds:

Ethyl acetate	68.6%
Vinyl acetate	137%

All positive vinyl acetate results for the SDG samples were qualified as estimated (J) and all positive and non-detect ethyl acetate results for the SDG samples were qualified as estimated (J) and (UJ).

IX.) Matrix Duplicate:

Matrix Duplicate analysis was performed using SDG sample 224121-SS-126. All criteria were met. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

The initial analysis ethanol result for samples 224121-IA-07 and 224121-IA-127 exceeded the linear calibration range. A dilution analysis was performed for the listed samples with all calibration criteria met. Since the Form I for each of the samples was a composite of the results, no data qualification was necessary.

All other CRQL criteria were met.

Appendix A

Qualified Form Is

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown

Date Received: 2/8/2022

Field Sample #: 224121-SS-126

Sample ID: 22B0443-01

Sample Matrix: Sub Slab

Sampled: 2/5/2022 09:12

Sample Description/Location: H-126

Sub Description/Location:

Canister ID: 1663

Canister Size: 6 liter

Flow Controller ID: 3492

Sample Type: 24 hr

Work Order: 22B0443

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -15

Receipt Vacuum(in Hg): -14.4

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: >20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	
Acetone	23	4.0	2.4		55	9.5	5.7	2	2/16/22 20:10	BRF
Benzene	0.39	0.10	0.076		1.2	0.32	0.24	2	2/16/22 20:10	BRF
Benzyl chloride	ND	0.10	0.088		ND	0.52	0.46	2	2/16/22 20:10	BRF
Bromodichloromethane	ND	0.10	0.070		ND	0.67	0.47	2	2/16/22 20:10	BRF
Bromoform	ND	0.10	0.068		ND	1.0	0.70	2	2/16/22 20:10	BRF
Bromomethane	ND	0.10	0.082		ND	0.39	0.32	2	2/16/22 20:10	BRF
1,3-Butadiene	ND	0.10	0.084		ND	0.22	0.19	2	2/16/22 20:10	BRF
2-Butanone (MEK)	4.3	4.0	1.1		13	12	3.1	2	2/16/22 20:10	BRF
Carbon Disulfide	28	1.0	0.092		87	3.1	0.29	2	2/16/22 20:10	BRF
Carbon Tetrachloride	ND	0.10	0.080		ND	0.63	0.50	2	2/16/22 20:10	BRF
Chlorobenzene	ND	0.10	0.066		ND	0.46	0.31	2	2/16/22 20:10	BRF
Chloroethane	13	0.10	0.073		35	0.26	0.19	2	2/16/22 20:10	BRF
Chloroform	0.66	0.10	0.095		3.2	0.49	0.46	2	2/16/22 20:10	BRF
Chloromethane	0.39	0.20	0.079		0.80	0.41	0.16	2	2/16/22 20:10	BRF
Cyclohexane	ND	0.10	0.066		ND	0.34	0.23	2	2/16/22 20:10	BRF
Dibromochloromethane	ND	0.10	0.066		ND	0.85	0.56	2	2/16/22 20:10	BRF
1,2-Dibromoethane (EDB)	ND	0.10	0.060		ND	0.77	0.46	2	2/16/22 20:10	BRF
1,2-Dichlorobenzene	ND	0.10	0.057		ND	0.60	0.35	2	2/16/22 20:10	BRF
1,3-Dichlorobenzene	ND	0.10	0.055		ND	0.60	0.33	2	2/16/22 20:10	BRF
1,4-Dichlorobenzene	ND	0.10	0.065		ND	0.60	0.39	2	2/16/22 20:10	BRF
Dichlorodifluoromethane (Freon 12)	0.32	0.10	0.098		1.6	0.49	0.48	2	2/16/22 20:10	BRF
1,1-Dichloroethane	1.8	0.10	0.087		7.4	0.40	0.35	2	2/16/22 20:10	BRF
1,2-Dichloroethane	1.8	0.10	0.091		7.4	0.40	0.37	2	2/16/22 20:10	BRF
1,1-Dichloroethylene	ND	0.10	0.076		ND	0.40	0.30	2	2/16/22 20:10	BRF
cis-1,2-Dichloroethylene	ND	0.10	0.073		ND	0.40	0.29	2	2/16/22 20:10	BRF
trans-1,2-Dichloroethylene	ND	0.10	0.079		ND	0.40	0.31	2	2/16/22 20:10	BRF
1,2-Dichloropropane	ND	0.10	0.054		ND	0.46	0.25	2	2/16/22 20:10	BRF
cis-1,3-Dichloropropene	ND	0.10	0.052		ND	0.45	0.24	2	2/16/22 20:10	BRF
trans-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	2/16/22 20:10	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098		ND	0.70	0.69	2	2/16/22 20:10	BRF
1,4-Dioxane	ND	1.0	0.083		ND	3.6	0.30	2	2/16/22 20:10	BRF
Ethanol	8.6	4.0	1.8		16	7.5	3.3	2	2/16/22 20:10	BRF
Ethyl Acetate	ND	1.0	0.51	L-03, V-34	ND	3.6	1.8	2	2/16/22 20:10	BRF
Ethylbenzene	ND	0.10	0.058		ND	0.43	0.25	2	2/16/22 20:10	BRF
4-Ethyltoluene	ND	0.10	0.061		ND	0.49	0.30	2	2/16/22 20:10	BRF
Heptane	0.33	0.10	0.064		1.4	0.41	0.26	2	2/16/22 20:10	BRF
Hexachlorobutadiene	ND	0.10	0.082		ND	1.1	0.88	2	2/16/22 20:10	BRF
Hexane	1.0	4.0	0.52	J	3.7	14	1.8	2	2/16/22 20:10	BRF
2-Hexanone (MBK)	ND	0.10	0.050		ND	0.41	0.21	2	2/16/22 20:10	BRF
Isopropanol	14	4.0	0.69		34	9.8	1.7	2	2/16/22 20:10	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.077		ND	0.36	0.28	2	2/16/22 20:10	BRF
Methylene Chloride	ND	1.0	0.46		ND	3.5	1.6	2	2/16/22 20:10	BRF
4-Methyl-2-pentanone (MIBK)	0.11	0.10	0.051		0.45	0.41	0.21	2	2/16/22 20:10	BRF
Naphthalene	ND	0.10	0.063		ND	0.52	0.33	2	2/16/22 20:10	BRF
Propene	1.9	4.0	0.88	J	3.2	6.9	1.5	2	2/16/22 20:10	BRF
Styrene	ND	0.10	0.053		ND	0.43	0.22	2	2/16/22 20:10	BRF
1,1,2,2-Tetrachloroethane	ND	0.10	0.054		ND	0.69	0.37	2	2/16/22 20:10	BRF

ALH 2/28/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/8/2022
Field Sample #: 224121-SS-126
Sample ID: 22B0443-01
 Sample Matrix: Sub Slab
 Sampled: 2/5/2022 09:12

Sample Description/Location: H-126
 Sub Description/Location:
 Canister ID: 1663
 Canister Size: 6 liter
 Flow Controller ID: 3492
 Sample Type: 24 hr

Work Order: 22B0443
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -15
 Receipt Vacuum(in Hg): -14.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: >20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	1.6	0.10	0.076		11	0.68	0.52	2	2/16/22 20:10		BRF
Tetrahydrofuran	ND	1.0	0.16		ND	2.9	0.48	2	2/16/22 20:10		BRF
Toluene	0.43	0.10	0.057		1.6	0.38	0.22	2	2/16/22 20:10		BRF
1,2,4-Trichlorobenzene	ND	0.10	0.070		ND	0.74	0.52	2	2/16/22 20:10		BRF
1,1,1-Trichloroethane	ND	0.10	0.079		ND	0.55	0.43	2	2/16/22 20:10		BRF
1,1,2-Trichloroethane	ND	0.10	0.070		ND	0.55	0.38	2	2/16/22 20:10		BRF
Trichloroethylene	ND	0.10	0.067		ND	0.54	0.36	2	2/16/22 20:10		BRF
Trichlorofluoromethane (Freon 11)	0.44	0.40	0.12		2.5	2.2	0.66	2	2/16/22 20:10		BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	0.11		ND	3.1	0.85	2	2/16/22 20:10		BRF
1,2,4-Trimethylbenzene	0.12	0.10	0.044		0.58	0.49	0.22	2	2/16/22 20:10		BRF
1,3,5-Trimethylbenzene	ND	0.10	0.053		ND	0.49	0.26	2	2/16/22 20:10		BRF
Vinyl Acetate	ND	2.0	0.54	V-05	ND UJ	7.0	1.9	2	2/16/22 20:10		BRF
Vinyl Chloride	0.57	0.10	0.090		1.5	0.26	0.23	2	2/16/22 20:10		BRF
m&p-Xylene	ND	0.20	0.11		ND	0.87	0.49	2	2/16/22 20:10		BRF
o-Xylene	ND	0.10	0.051		ND	0.43	0.22	2	2/16/22 20:10		BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	104	70-130	2/16/22 20:10

ALH 2/28/22

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/8/2022
Field Sample #: 224121-IA-126
Sample ID: 22B0443-02
 Sample Matrix: Indoor air
 Sampled: 2/5/2022 09:13

Sample Description/Location: H-126
 Sub Description/Location:
 Canister ID: 1179
 Canister Size: 6 liter
 Flow Controller ID: 3124
 Sample Type: 24 hr

Work Order: 22B0443
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	6.3	1.4	0.85		15	3.3	2.0	0.702	2/16/22 15:31	BRF
Benzene	0.15	0.035	0.027		0.49	0.11	0.085	0.702	2/16/22 15:31	BRF
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.702	2/16/22 15:31	BRF
Bromodichloromethane	ND	0.035	0.025		ND	0.24	0.16	0.702	2/16/22 15:31	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.702	2/16/22 15:31	BRF
Bromomethane	ND	0.035	0.029		ND	0.14	0.11	0.702	2/16/22 15:31	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.078	0.065	0.702	2/16/22 15:31	BRF
2-Butanone (MEK)	0.58	1.4	0.37	J	1.7	4.1	1.1	0.702	2/16/22 15:31	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.702	2/16/22 15:31	BRF
Carbon Tetrachloride	0.046	0.035	0.028		0.29	0.22	0.18	0.702	2/16/22 15:31	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.702	2/16/22 15:31	BRF
Chloroethane	ND	0.035	0.026		ND	0.093	0.068	0.702	2/16/22 15:31	BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.702	2/16/22 15:31	BRF
Chloromethane	0.49	0.070	0.028		1.0	0.14	0.058	0.702	2/16/22 15:31	BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.080	0.702	2/16/22 15:31	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.702	2/16/22 15:31	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.702	2/16/22 15:31	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.702	2/16/22 15:31	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.702	2/16/22 15:31	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.702	2/16/22 15:31	BRF
Dichlorodifluoromethane (Freon 12)	0.21	0.035	0.034		1.1	0.17	0.17	0.702	2/16/22 15:31	BRF
1,1-Dichloroethane	ND	0.035	0.031		ND	0.14	0.12	0.702	2/16/22 15:31	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.702	2/16/22 15:31	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.702	2/16/22 15:31	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.10	0.702	2/16/22 15:31	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.028		ND	0.14	0.11	0.702	2/16/22 15:31	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.088	0.702	2/16/22 15:31	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	2/16/22 15:31	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	2/16/22 15:31	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.035		ND	0.25	0.24	0.702	2/16/22 15:31	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.702	2/16/22 15:31	BRF
Ethanol	24	1.4	0.62		46	2.6	1.2	0.702	2/16/22 15:31	BRF
Ethyl Acetate	ND	0.35	0.18	L-03, V-34	ND UJ	1.3	0.64	0.702	2/16/22 15:31	BRF
Ethylbenzene	0.048	0.035	0.020		0.21	0.15	0.089	0.702	2/16/22 15:31	BRF
4-Ethyltoluene	0.048	0.035	0.022		0.23	0.17	0.11	0.702	2/16/22 15:31	BRF
Heptane	0.14	0.035	0.022		0.59	0.14	0.092	0.702	2/16/22 15:31	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.702	2/16/22 15:31	BRF
Hexane	0.22	1.4	0.18	J	0.76	4.9	0.64	0.702	2/16/22 15:31	BRF
2-Hexanone (MBK)	0.085	0.035	0.018		0.35	0.14	0.072	0.702	2/16/22 15:31	BRF
Isopropanol	2.8	1.4	0.24		6.9	3.4	0.60	0.702	2/16/22 15:31	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.098	0.702	2/16/22 15:31	BRF
Methylene Chloride	0.26	0.35	0.16	J	0.89	1.2	0.57	0.702	2/16/22 15:31	BRF
4-Methyl-2-pentanone (MIBK)	0.071	0.035	0.018		0.29	0.14	0.074	0.702	2/16/22 15:31	BRF
Naphthalene	0.048	0.035	0.022		0.25	0.18	0.12	0.702	2/16/22 15:31	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.702	2/16/22 15:31	BRF
Styrene	0.020	0.035	0.018	J	0.087	0.15	0.079	0.702	2/16/22 15:31	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.702	2/16/22 15:31	BRF

ALH 2/28/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/8/2022
Field Sample #: 224121-IA-126
Sample ID: 22B0443-02
 Sample Matrix: Indoor air
 Sampled: 2/5/2022 09:13

Sample Description/Location: H-126
 Sub Description/Location:
 Canister ID: 1179
 Canister Size: 6 liter
 Flow Controller ID: 3124
 Sample Type: 24 hr

Work Order: 22B0443
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	Results	ppbv		Flag/Qual	Results	ug/m3		Dilution	Date/Time	
		RL	MDL			RL	MDL		Analyzed	Analyst
Tetrachloroethylene	ND	0.035	0.027	J	ND	0.24	0.18	0.702	2/16/22 15:31	BRF
Tetrahydrofuran	ND	0.35	0.058		ND	1.0	0.17	0.702	2/16/22 15:31	BRF
Toluene	0.50	0.035	0.020		1.9	0.13	0.076	0.702	2/16/22 15:31	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND	0.26	0.18	0.702	2/16/22 15:31	BRF
1,1,1-Trichloroethane	ND	0.035	0.028		ND	0.19	0.15	0.702	2/16/22 15:31	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.702	2/16/22 15:31	BRF
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.702	2/16/22 15:31	BRF
Trichlorofluoromethane (Freon 11)	0.23	0.14	0.041		1.3	0.79	0.23	0.702	2/16/22 15:31	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.062	0.14	0.039		0.47	1.1	0.30	0.702	2/16/22 15:31	BRF
1,2,4-Trimethylbenzene	0.11	0.035	0.016		0.53	0.17	0.076	0.702	2/16/22 15:31	BRF
1,3,5-Trimethylbenzene	0.046	0.035	0.019	0.22	0.17	0.091	0.702	2/16/22 15:31	BRF	
Vinyl Acetate	ND	0.70	0.19	V-05	ND UJ	2.5	0.66	0.702	2/16/22 15:31	BRF
Vinyl Chloride	ND	0.035	0.032	ND	0.090	0.081	0.702	2/16/22 15:31	BRF	
m&p-Xylene	0.16	0.070	0.039	0.68	0.30	0.17	0.702	2/16/22 15:31	BRF	
o-Xylene	0.053	0.035	0.018	0.23	0.15	0.078	0.702	2/16/22 15:31	BRF	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	103	70-130	2/16/22 15:31

ALH 2/28/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/8/2022
Field Sample #: 224121-OA-126
Sample ID: 22B0443-03
 Sample Matrix: Ambient Air
 Sampled: 2/5/2022 09:15

Sample Description/Location: H-126
 Sub Description/Location:
 Canister ID: 2201
 Canister Size: 6 liter
 Flow Controller ID: 3521
 Sample Type: 24 hr

Work Order: 22B0443
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -6.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	3.8	1.4	0.85		9.0	3.3	2.0	0.702	2/16/22 16:18		BRF
Benzene	0.15	0.035	0.027		0.48	0.11	0.085	0.702	2/16/22 16:18		BRF
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.702	2/16/22 16:18		BRF
Bromodichloromethane	ND	0.035	0.025		ND	0.24	0.16	0.702	2/16/22 16:18		BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.702	2/16/22 16:18		BRF
Bromomethane	ND	0.035	0.029		ND	0.14	0.11	0.702	2/16/22 16:18		BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.078	0.065	0.702	2/16/22 16:18		BRF
2-Butanone (MEK)	ND	1.4	0.37		ND	4.1	1.1	0.702	2/16/22 16:18		BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.702	2/16/22 16:18		BRF
Carbon Tetrachloride	0.079	0.035	0.028		0.49	0.22	0.18	0.702	2/16/22 16:18		BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.702	2/16/22 16:18		BRF
Chloroethane	ND	0.035	0.026		ND	0.093	0.068	0.702	2/16/22 16:18		BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.702	2/16/22 16:18		BRF
Chloromethane	0.49	0.070	0.028		1.0	0.14	0.058	0.702	2/16/22 16:18		BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.080	0.702	2/16/22 16:18		BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.702	2/16/22 16:18		BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.702	2/16/22 16:18		BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.702	2/16/22 16:18		BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.702	2/16/22 16:18		BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.702	2/16/22 16:18		BRF
Dichlorodifluoromethane (Freon 12)	0.24	0.035	0.034		1.2	0.17	0.17	0.702	2/16/22 16:18		BRF
1,1-Dichloroethane	ND	0.035	0.031		ND	0.14	0.12	0.702	2/16/22 16:18		BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.702	2/16/22 16:18		BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.702	2/16/22 16:18		BRF
cis-1,2-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.10	0.702	2/16/22 16:18		BRF
trans-1,2-Dichloroethylene	ND	0.035	0.028		ND	0.14	0.11	0.702	2/16/22 16:18		BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.088	0.702	2/16/22 16:18		BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	2/16/22 16:18		BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	2/16/22 16:18		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.035		ND	0.25	0.24	0.702	2/16/22 16:18		BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.702	2/16/22 16:18		BRF
Ethanol	7.7	1.4	0.62		15	2.6	1.2	0.702	2/16/22 16:18		BRF
Ethyl Acetate	ND	0.35	0.18	L-03, V-34	ND UJ	1.3	0.64	0.702	2/16/22 16:18		BRF
Ethylbenzene	0.034	0.035	0.020	J	0.15	0.15	0.089	0.702	2/16/22 16:18		BRF
4-Ethyltoluene	ND	0.035	0.022		ND	0.17	0.11	0.702	2/16/22 16:18		BRF
Heptane	0.048	0.035	0.022		0.20	0.14	0.092	0.702	2/16/22 16:18		BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.702	2/16/22 16:18		BRF
Hexane	0.18	1.4	0.18	J	0.65	4.9	0.64	0.702	2/16/22 16:18		BRF
2-Hexanone (MBK)	0.034	0.035	0.018	J	0.14	0.14	0.072	0.702	2/16/22 16:18		BRF
Isopropanol	0.40	1.4	0.24	J	0.99	3.4	0.60	0.702	2/16/22 16:18		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.098	0.702	2/16/22 16:18		BRF
Methylene Chloride	0.25	0.35	0.16	J	0.87	1.2	0.57	0.702	2/16/22 16:18		BRF
4-Methyl-2-pentanone (MIBK)	0.019	0.035	0.018	J	0.078	0.14	0.074	0.702	2/16/22 16:18		BRF
Naphthalene	ND	0.035	0.022		ND	0.18	0.12	0.702	2/16/22 16:18		BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.702	2/16/22 16:18		BRF
Styrene	ND	0.035	0.018		ND	0.15	0.079	0.702	2/16/22 16:18		BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.702	2/16/22 16:18		BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/8/2022
Field Sample #: 224121-OA-126
Sample ID: 22B0443-03
 Sample Matrix: Ambient Air
 Sampled: 2/5/2022 09:15

Sample Description/Location: H-126
 Sub Description/Location:
 Canister ID: 2201
 Canister Size: 6 liter
 Flow Controller ID: 3521
 Sample Type: 24 hr

Work Order: 22B0443
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -6.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	Results	ppbv		Flag/Qual	Results	ug/m3		Dilution	Date/Time		Analyst
		RL	MDL			RL	MDL		Analyzed		
Tetrachloroethylene	ND	0.035	0.027		ND	0.24	0.18	0.702	2/16/22 16:18	BRF	
Tetrahydrofuran	ND	0.35	0.058		ND	1.0	0.17	0.702	2/16/22 16:18	BRF	
Toluene	0.19	0.035	0.020		0.73	0.13	0.076	0.702	2/16/22 16:18	BRF	
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND	0.26	0.18	0.702	2/16/22 16:18	BRF	
1,1,1-Trichloroethane	ND	0.035	0.028		ND	0.19	0.15	0.702	2/16/22 16:18	BRF	
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.702	2/16/22 16:18	BRF	
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.702	2/16/22 16:18	BRF	
Trichlorofluoromethane (Freon 11)	0.24	0.14	0.041		1.3	0.79	0.23	0.702	2/16/22 16:18	BRF	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.067	0.14	0.039	J	0.52	1.1	0.30	0.702	2/16/22 16:18	BRF	
1,2,4-Trimethylbenzene	0.021	0.035	0.016	J	0.10	0.17	0.076	0.702	2/16/22 16:18	BRF	
1,3,5-Trimethylbenzene	ND	0.035	0.019		ND	0.17	0.091	0.702	2/16/22 16:18	BRF	
Vinyl Acetate	ND	0.70	0.19	V-05	ND UJ	2.5	0.66	0.702	2/16/22 16:18	BRF	
Vinyl Chloride	ND	0.035	0.032		ND	0.090	0.081	0.702	2/16/22 16:18	BRF	
m&p-Xylene	0.097	0.070	0.039		0.42	0.30	0.17	0.702	2/16/22 16:18	BRF	
o-Xylene	0.034	0.035	0.018	J	0.15	0.15	0.078	0.702	2/16/22 16:18	BRF	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	102	70-130	2/16/22 16:18

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/8/2022
Field Sample #: 224121-SS-07
Sample ID: 22B0443-04
 Sample Matrix: Sub Slab
 Sampled: 2/5/2022 11:07

Sample Description/Location: H-07
 Sub Description/Location:
 Canister ID: 1839
 Canister Size: 6 liter
 Flow Controller ID: 3014
 Sample Type: 24 hr

Work Order: 22B0443
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -9.3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Acetone	95	4.0	2.4		230	9.5	5.7	2	2/16/22 21:35	BRF
Benzene	0.63	0.10	0.076		2.0	0.32	0.24	2	2/16/22 21:35	BRF
Benzyl chloride	ND	0.10	0.088		ND	0.52	0.46	2	2/16/22 21:35	BRF
Bromodichloromethane	ND	0.10	0.070		ND	0.67	0.47	2	2/16/22 21:35	BRF
Bromoform	ND	0.10	0.068		ND	1.0	0.70	2	2/16/22 21:35	BRF
Bromomethane	ND	0.10	0.082		ND	0.39	0.32	2	2/16/22 21:35	BRF
1,3-Butadiene	ND	0.10	0.084		ND	0.22	0.19	2	2/16/22 21:35	BRF
2-Butanone (MEK)	14	4.0	1.1		42	12	3.1	2	2/16/22 21:35	BRF
Carbon Disulfide	0.45	1.0	0.092	J	1.4	3.1	0.29	2	2/16/22 21:35	BRF
Carbon Tetrachloride	ND	0.10	0.080		ND	0.63	0.50	2	2/16/22 21:35	BRF
Chlorobenzene	ND	0.10	0.066		ND	0.46	0.31	2	2/16/22 21:35	BRF
Chloroethane	10	0.10	0.073		26	0.26	0.19	2	2/16/22 21:35	BRF
Chloroform	0.72	0.10	0.095		3.5	0.49	0.46	2	2/16/22 21:35	BRF
Chloromethane	0.49	0.20	0.079		1.0	0.41	0.16	2	2/16/22 21:35	BRF
Cyclohexane	ND	0.10	0.066		ND	0.34	0.23	2	2/16/22 21:35	BRF
Dibromochloromethane	ND	0.10	0.066		ND	0.85	0.56	2	2/16/22 21:35	BRF
1,2-Dibromoethane (EDB)	ND	0.10	0.060		ND	0.77	0.46	2	2/16/22 21:35	BRF
1,2-Dichlorobenzene	ND	0.10	0.057		ND	0.60	0.35	2	2/16/22 21:35	BRF
1,3-Dichlorobenzene	ND	0.10	0.055		ND	0.60	0.33	2	2/16/22 21:35	BRF
1,4-Dichlorobenzene	ND	0.10	0.065		ND	0.60	0.39	2	2/16/22 21:35	BRF
Dichlorodifluoromethane (Freon 12)	0.34	0.10	0.098		1.7	0.49	0.48	2	2/16/22 21:35	BRF
1,1-Dichloroethane	1.7	0.10	0.087		7.0	0.40	0.35	2	2/16/22 21:35	BRF
1,2-Dichloroethane	3.1	0.10	0.091		13	0.40	0.37	2	2/16/22 21:35	BRF
1,1-Dichloroethylene	ND	0.10	0.076		ND	0.40	0.30	2	2/16/22 21:35	BRF
cis-1,2-Dichloroethylene	ND	0.10	0.073		ND	0.40	0.29	2	2/16/22 21:35	BRF
trans-1,2-Dichloroethylene	ND	0.10	0.079		ND	0.40	0.31	2	2/16/22 21:35	BRF
1,2-Dichloropropane	ND	0.10	0.054		ND	0.46	0.25	2	2/16/22 21:35	BRF
cis-1,3-Dichloropropene	ND	0.10	0.052		ND	0.45	0.24	2	2/16/22 21:35	BRF
trans-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	2/16/22 21:35	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098		ND	0.70	0.69	2	2/16/22 21:35	BRF
1,4-Dioxane	ND	1.0	0.083		ND	3.6	0.30	2	2/16/22 21:35	BRF
Ethanol	34	4.0	1.8		65	7.5	3.3	2	2/16/22 21:35	BRF
Ethyl Acetate	3.7	1.0	0.51	L-03, V-34	13 J	3.6	1.8	2	2/16/22 21:35	BRF
Ethylbenzene	ND	0.10	0.058		ND	0.43	0.25	2	2/16/22 21:35	BRF
4-Ethyltoluene	ND	0.10	0.061		ND	0.49	0.30	2	2/16/22 21:35	BRF
Heptane	1.1	0.10	0.064		4.3	0.41	0.26	2	2/16/22 21:35	BRF
Hexachlorobutadiene	ND	0.10	0.082		ND	1.1	0.88	2	2/16/22 21:35	BRF
Hexane	3.4	4.0	0.52	J	12	14	1.8	2	2/16/22 21:35	BRF
2-Hexanone (MBK)	ND	0.10	0.050		ND	0.41	0.21	2	2/16/22 21:35	BRF
Isopropanol	18	4.0	0.69		44	9.8	1.7	2	2/16/22 21:35	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.077		ND	0.36	0.28	2	2/16/22 21:35	BRF
Methylene Chloride	ND	1.0	0.46		ND	3.5	1.6	2	2/16/22 21:35	BRF
4-Methyl-2-pentanone (MIBK)	0.28	0.10	0.051		1.2	0.41	0.21	2	2/16/22 21:35	BRF
Naphthalene	0.090	0.10	0.063	J	0.47	0.52	0.33	2	2/16/22 21:35	BRF
Propene	ND	4.0	0.88		ND	6.9	1.5	2	2/16/22 21:35	BRF
Styrene	0.072	0.10	0.053	J	0.31	0.43	0.22	2	2/16/22 21:35	BRF
1,1,2,2-Tetrachloroethane	ND	0.10	0.054		ND	0.69	0.37	2	2/16/22 21:35	BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/8/2022
Field Sample #: 224121-SS-07
Sample ID: 22B0443-04
 Sample Matrix: Sub Slab
 Sampled: 2/5/2022 11:07

Sample Description/Location: H-07
 Sub Description/Location:
 Canister ID: 1839
 Canister Size: 6 liter
 Flow Controller ID: 3014
 Sample Type: 24 hr

Work Order: 22B0443
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -9.3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed		
Tetrachloroethylene	1.7	0.10	0.076			12	0.68	0.52	2	2/16/22 21:35	BRF
Tetrahydrofuran	ND	1.0	0.16			ND	2.9	0.48	2	2/16/22 21:35	BRF
Toluene	0.89	0.10	0.057			3.3	0.38	0.22	2	2/16/22 21:35	BRF
1,2,4-Trichlorobenzene	ND	0.10	0.070			ND	0.74	0.52	2	2/16/22 21:35	BRF
1,1,1-Trichloroethane	0.99	0.10	0.079			5.4	0.55	0.43	2	2/16/22 21:35	BRF
1,1,2-Trichloroethane	ND	0.10	0.070			ND	0.55	0.38	2	2/16/22 21:35	BRF
Trichloroethylene	0.13	0.10	0.067			0.68	0.54	0.36	2	2/16/22 21:35	BRF
Trichlorofluoromethane (Freon 11)	0.56	0.40	0.12			3.1	2.2	0.66	2	2/16/22 21:35	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	0.11			ND	3.1	0.85	2	2/16/22 21:35	BRF
1,2,4-Trimethylbenzene	0.16	0.10	0.044			0.81	0.49	0.22	2	2/16/22 21:35	BRF
1,3,5-Trimethylbenzene	ND	0.10	0.053			ND	0.49	0.26	2	2/16/22 21:35	BRF
Vinyl Acetate	67	2.0	0.54	L-05, V-05, V-35	240 J	7.0	1.9	2	2	2/16/22 21:35	BRF
Vinyl Chloride	0.45	0.10	0.090		1.2	0.26	0.23	2	2/16/22 21:35	BRF	
m&p-Xylene	0.29	0.20	0.11		1.3	0.87	0.49	2	2/16/22 21:35	BRF	
o-Xylene	0.10	0.10	0.051		0.44	0.43	0.22	2	2/16/22 21:35	BRF	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	104	70-130	2/16/22 21:35

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/8/2022
Field Sample #: 224121-IA-07
Sample ID: 22B0443-05
 Sample Matrix: Indoor air
 Sampled: 2/5/2022 11:08

Sample Description/Location: H-07
 Sub Description/Location:
 Canister ID: 1666
 Canister Size: 6 liter
 Flow Controller ID: 3499
 Sample Type: 24 hr

Work Order: 22B0443
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -10.3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	
Acetone	10	1.4	0.85		25	3.3	2.0	0.702	2/16/22 17:05	BRF
Benzene	0.30	0.035	0.027		0.95	0.11	0.085	0.702	2/16/22 17:05	BRF
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.702	2/16/22 17:05	BRF
Bromodichloromethane	ND	0.035	0.025		ND	0.24	0.16	0.702	2/16/22 17:05	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.702	2/16/22 17:05	BRF
Bromomethane	ND	0.035	0.029		ND	0.14	0.11	0.702	2/16/22 17:05	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.078	0.065	0.702	2/16/22 17:05	BRF
2-Butanone (MEK)	0.59	1.4	0.37	J	1.7	4.1	1.1	0.702	2/16/22 17:05	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.702	2/16/22 17:05	BRF
Carbon Tetrachloride	0.071	0.035	0.028		0.45	0.22	0.18	0.702	2/16/22 17:05	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.702	2/16/22 17:05	BRF
Chloroethane	ND	0.035	0.026		ND	0.093	0.068	0.702	2/16/22 17:05	BRF
Chloroform	0.039	0.035	0.033		0.19	0.17	0.16	0.702	2/16/22 17:05	BRF
Chloromethane	0.50	0.070	0.028		1.0	0.14	0.058	0.702	2/16/22 17:05	BRF
Cyclohexane	0.37	0.035	0.023		1.3	0.12	0.080	0.702	2/16/22 17:05	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.702	2/16/22 17:05	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.702	2/16/22 17:05	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.702	2/16/22 17:05	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.702	2/16/22 17:05	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.702	2/16/22 17:05	BRF
Dichlorodifluoromethane (Freon 12)	0.20	0.035	0.034		1.00	0.17	0.17	0.702	2/16/22 17:05	BRF
1,1-Dichloroethane	ND	0.035	0.031		ND	0.14	0.12	0.702	2/16/22 17:05	BRF
1,2-Dichloroethane	0.045	0.035	0.032		0.18	0.14	0.13	0.702	2/16/22 17:05	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.702	2/16/22 17:05	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.10	0.702	2/16/22 17:05	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.028		ND	0.14	0.11	0.702	2/16/22 17:05	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.088	0.702	2/16/22 17:05	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	2/16/22 17:05	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	2/16/22 17:05	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.035		ND	0.25	0.24	0.702	2/16/22 17:05	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.702	2/16/22 17:05	BRF
Ethanol	160	8.0	3.5		300	15	6.6	4	2/17/22 20:10	BRF
Ethyl Acetate	0.59	0.35	0.18	L-03, V-34	2.1 J	1.3	0.64	0.702	2/16/22 17:05	BRF
Ethylbenzene	0.20	0.035	0.020		0.85	0.15	0.089	0.702	2/16/22 17:05	BRF
4-Ethyltoluene	0.048	0.035	0.022		0.23	0.17	0.11	0.702	2/16/22 17:05	BRF
Heptane	0.28	0.035	0.022		1.1	0.14	0.092	0.702	2/16/22 17:05	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.702	2/16/22 17:05	BRF
Hexane	0.99	1.4	0.18	J	3.5	4.9	0.64	0.702	2/16/22 17:05	BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.702	2/16/22 17:05	BRF
Isopropanol	7.1	1.4	0.24		17	3.4	0.60	0.702	2/16/22 17:05	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.098	0.702	2/16/22 17:05	BRF
Methylene Chloride	0.76	0.35	0.16		2.6	1.2	0.57	0.702	2/16/22 17:05	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.074	0.702	2/16/22 17:05	BRF
Naphthalene	0.077	0.035	0.022		0.40	0.18	0.12	0.702	2/16/22 17:05	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.702	2/16/22 17:05	BRF
Styrene	0.067	0.035	0.018		0.29	0.15	0.079	0.702	2/16/22 17:05	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.702	2/16/22 17:05	BRF

ALH 2/28/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdow
 Date Received: 2/8/2022
Field Sample #: 224121-IA-07
Sample ID: 22B0443-05
 Sample Matrix: Indoor air
 Sampled: 2/5/2022 11:08

Sample Description/Location: H-07
 Sub Description/Location:
 Canister ID: 1666
 Canister Size: 6 liter
 Flow Controller ID: 3499
 Sample Type: 24 hr

Work Order: 22B0443
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -10.3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	0.16	0.035	0.027	J	1.1	0.24	0.18	0.702	2/16/22 17:05	BRF
Tetrahydrofuran	ND	0.35	0.058		ND	1.0	0.17	0.702	2/16/22 17:05	BRF
Toluene	0.81	0.035	0.020		3.0	0.13	0.076	0.702	2/16/22 17:05	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND	0.26	0.18	0.702	2/16/22 17:05	BRF
1,1,1-Trichloroethane	ND	0.035	0.028		ND	0.19	0.15	0.702	2/16/22 17:05	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.702	2/16/22 17:05	BRF
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.702	2/16/22 17:05	BRF
Trichlorofluoromethane (Freon 11)	0.22	0.14	0.041		1.3	0.79	0.23	0.702	2/16/22 17:05	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.061	0.14	0.039		0.47	1.1	0.30	0.702	2/16/22 17:05	BRF
1,2,4-Trimethylbenzene	0.17	0.035	0.016		0.81	0.17	0.076	0.702	2/16/22 17:05	BRF
1,3,5-Trimethylbenzene	0.046	0.035	0.019	0.23	0.17	0.091	0.702	2/16/22 17:05	BRF	
Vinyl Acetate	ND	0.70	0.19	V-05	ND UJ	2.5	0.66	0.702	2/16/22 17:05	BRF
Vinyl Chloride	ND	0.035	0.032		ND	0.090	0.081	0.702	2/16/22 17:05	BRF
m&p-Xylene	0.60	0.070	0.039		2.6	0.30	0.17	0.702	2/16/22 17:05	BRF
o-Xylene	0.20	0.035	0.018		0.85	0.15	0.078	0.702	2/16/22 17:05	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	102	70-130	2/16/22 17:05
4-Bromofluorobenzene (1)	104	70-130	2/17/22 20:10

ALH 2/28/22

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/8/2022
Field Sample #: 224121-SS-127
Sample ID: 22B0443-06
 Sample Matrix: Sub Slab
 Sampled: 2/5/2022 13:10

Sample Description/Location: H-127
 Sub Description/Location:
 Canister ID: 1478
 Canister Size: 6 liter
 Flow Controller ID: 3522
 Sample Type: 24 hr

Work Order: 22B0443
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -8.1
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed	Analyst	
Acetone	15	4.0	2.4			35	9.5	5.7	2	2/16/22 22:16	BRF
Benzene	0.16	0.10	0.076			0.51	0.32	0.24	2	2/16/22 22:16	BRF
Benzyl chloride	ND	0.10	0.088			ND	0.52	0.46	2	2/16/22 22:16	BRF
Bromodichloromethane	ND	0.10	0.070			ND	0.67	0.47	2	2/16/22 22:16	BRF
Bromoform	ND	0.10	0.068			ND	1.0	0.70	2	2/16/22 22:16	BRF
Bromomethane	ND	0.10	0.082			ND	0.39	0.32	2	2/16/22 22:16	BRF
1,3-Butadiene	ND	0.10	0.084			ND	0.22	0.19	2	2/16/22 22:16	BRF
2-Butanone (MEK)	3.6	4.0	1.1	J		11	12	3.1	2	2/16/22 22:16	BRF
Carbon Disulfide	0.16	1.0	0.092	J		0.50	3.1	0.29	2	2/16/22 22:16	BRF
Carbon Tetrachloride	ND	0.10	0.080			ND	0.63	0.50	2	2/16/22 22:16	BRF
Chlorobenzene	ND	0.10	0.066			ND	0.46	0.31	2	2/16/22 22:16	BRF
Chloroethane	5.4	0.10	0.073			14	0.26	0.19	2	2/16/22 22:16	BRF
Chloroform	0.27	0.10	0.095			1.3	0.49	0.46	2	2/16/22 22:16	BRF
Chloromethane	0.25	0.20	0.079			0.52	0.41	0.16	2	2/16/22 22:16	BRF
Cyclohexane	ND	0.10	0.066			ND	0.34	0.23	2	2/16/22 22:16	BRF
Dibromochloromethane	ND	0.10	0.066			ND	0.85	0.56	2	2/16/22 22:16	BRF
1,2-Dibromoethane (EDB)	ND	0.10	0.060			ND	0.77	0.46	2	2/16/22 22:16	BRF
1,2-Dichlorobenzene	ND	0.10	0.057			ND	0.60	0.35	2	2/16/22 22:16	BRF
1,3-Dichlorobenzene	ND	0.10	0.055			ND	0.60	0.33	2	2/16/22 22:16	BRF
1,4-Dichlorobenzene	ND	0.10	0.065			ND	0.60	0.39	2	2/16/22 22:16	BRF
Dichlorodifluoromethane (Freon 12)	0.35	0.10	0.098			1.8	0.49	0.48	2	2/16/22 22:16	BRF
1,1-Dichloroethane	0.64	0.10	0.087			2.6	0.40	0.35	2	2/16/22 22:16	BRF
1,2-Dichloroethane	0.87	0.10	0.091			3.5	0.40	0.37	2	2/16/22 22:16	BRF
1,1-Dichloroethylene	ND	0.10	0.076			ND	0.40	0.30	2	2/16/22 22:16	BRF
cis-1,2-Dichloroethylene	ND	0.10	0.073			ND	0.40	0.29	2	2/16/22 22:16	BRF
trans-1,2-Dichloroethylene	ND	0.10	0.079			ND	0.40	0.31	2	2/16/22 22:16	BRF
1,2-Dichloropropane	ND	0.10	0.054			ND	0.46	0.25	2	2/16/22 22:16	BRF
cis-1,3-Dichloropropene	ND	0.10	0.052			ND	0.45	0.24	2	2/16/22 22:16	BRF
trans-1,3-Dichloropropene	ND	0.10	0.051			ND	0.45	0.23	2	2/16/22 22:16	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098			ND	0.70	0.69	2	2/16/22 22:16	BRF
1,4-Dioxane	ND	1.0	0.083			ND	3.6	0.30	2	2/16/22 22:16	BRF
Ethanol	16	4.0	1.8			30	7.5	3.3	2	2/16/22 22:16	BRF
Ethyl Acetate	0.82	1.0	0.51	L-03, V-34, J		3.0 J	3.6	1.8	2	2/16/22 22:16	BRF
Ethylbenzene	ND	0.10	0.058			ND	0.43	0.25	2	2/16/22 22:16	BRF
4-Ethyltoluene	ND	0.10	0.061			ND	0.49	0.30	2	2/16/22 22:16	BRF
Heptane	0.17	0.10	0.064			0.70	0.41	0.26	2	2/16/22 22:16	BRF
Hexachlorobutadiene	ND	0.10	0.082			ND	1.1	0.88	2	2/16/22 22:16	BRF
Hexane	0.56	4.0	0.52	J		2.0	14	1.8	2	2/16/22 22:16	BRF
2-Hexanone (MBK)	ND	0.10	0.050			ND	0.41	0.21	2	2/16/22 22:16	BRF
Isopropanol	14	4.0	0.69			34	9.8	1.7	2	2/16/22 22:16	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.077			ND	0.36	0.28	2	2/16/22 22:16	BRF
Methylene Chloride	ND	1.0	0.46			ND	3.5	1.6	2	2/16/22 22:16	BRF
4-Methyl-2-pentanone (MIBK)	0.064	0.10	0.051	J		0.26	0.41	0.21	2	2/16/22 22:16	BRF
Naphthalene	ND	0.10	0.063			ND	0.52	0.33	2	2/16/22 22:16	BRF
Propene	ND	4.0	0.88			ND	6.9	1.5	2	2/16/22 22:16	BRF
Styrene	ND	0.10	0.053			ND	0.43	0.22	2	2/16/22 22:16	BRF
1,1,2,2-Tetrachloroethane	ND	0.10	0.054			ND	0.69	0.37	2	2/16/22 22:16	BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/8/2022
Field Sample #: 224121-SS-127
Sample ID: 22B0443-06
 Sample Matrix: Sub Slab
 Sampled: 2/5/2022 13:10

Sample Description/Location: H-127
 Sub Description/Location:
 Canister ID: 1478
 Canister Size: 6 liter
 Flow Controller ID: 3522
 Sample Type: 24 hr

Work Order: 22B0443
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -8.1
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed		
Tetrachloroethylene	1.9	0.10	0.076			13	0.68	0.52	2	2/16/22 22:16	BRF
Tetrahydrofuran	ND	1.0	0.16			ND	2.9	0.48	2	2/16/22 22:16	BRF
Toluene	0.21	0.10	0.057			0.78	0.38	0.22	2	2/16/22 22:16	BRF
1,2,4-Trichlorobenzene	ND	0.10	0.070			ND	0.74	0.52	2	2/16/22 22:16	BRF
1,1,1-Trichloroethane	1.2	0.10	0.079			6.7	0.55	0.43	2	2/16/22 22:16	BRF
1,1,2-Trichloroethane	ND	0.10	0.070			ND	0.55	0.38	2	2/16/22 22:16	BRF
Trichloroethylene	ND	0.10	0.067			ND	0.54	0.36	2	2/16/22 22:16	BRF
Trichlorofluoromethane (Freon 11)	0.30	0.40	0.12	J		1.7	2.2	0.66	2	2/16/22 22:16	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	0.11			ND	3.1	0.85	2	2/16/22 22:16	BRF
1,2,4-Trimethylbenzene	0.10	0.10	0.044			0.50	0.49	0.22	2	2/16/22 22:16	BRF
1,3,5-Trimethylbenzene	ND	0.10	0.053			ND	0.49	0.26	2	2/16/22 22:16	BRF
Vinyl Acetate	17	2.0	0.54	L-05, V-05, V-35	61 J	7.0	1.9		2	2/16/22 22:16	BRF
Vinyl Chloride	0.31	0.10	0.090			0.79	0.26	0.23	2	2/16/22 22:16	BRF
m&p-Xylene	0.12	0.20	0.11	J		0.50	0.87	0.49	2	2/16/22 22:16	BRF
o-Xylene	0.052	0.10	0.051	J		0.23	0.43	0.22	2	2/16/22 22:16	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	104	70-130	2/16/22 22:16

ALH 2/28/22

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/8/2022
Field Sample #: 224121-IA-127
Sample ID: 22B0443-07
 Sample Matrix: Indoor air
 Sampled: 2/5/2022 13:11

Sample Description/Location: H-127
 Sub Description/Location:
 Canister ID: 1850
 Canister Size: 6 liter
 Flow Controller ID: 3288
 Sample Type: 24 hr

Work Order: 22B0443
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -7.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	
Acetone	9.1	1.4	0.85		22	3.3	2.0	0.702	2/16/22 17:52	BRF
Benzene	0.20	0.035	0.027		0.65	0.11	0.085	0.702	2/16/22 17:52	BRF
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.702	2/16/22 17:52	BRF
Bromodichloromethane	ND	0.035	0.025		ND	0.24	0.16	0.702	2/16/22 17:52	BRF
Bromoform	0.15	0.035	0.024		1.6	0.36	0.25	0.702	2/16/22 17:52	BRF
Bromomethane	0.41	0.035	0.029		1.6	0.14	0.11	0.702	2/16/22 17:52	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.078	0.065	0.702	2/16/22 17:52	BRF
2-Butanone (MEK)	0.55	1.4	0.37	J	1.6	4.1	1.1	0.702	2/16/22 17:52	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.702	2/16/22 17:52	BRF
Carbon Tetrachloride	0.077	0.035	0.028		0.49	0.22	0.18	0.702	2/16/22 17:52	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.702	2/16/22 17:52	BRF
Chloroethane	ND	0.035	0.026		ND	0.093	0.068	0.702	2/16/22 17:52	BRF
Chloroform	0.051	0.035	0.033		0.25	0.17	0.16	0.702	2/16/22 17:52	BRF
Chloromethane	0.54	0.070	0.028		1.1	0.14	0.058	0.702	2/16/22 17:52	BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.080	0.702	2/16/22 17:52	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.702	2/16/22 17:52	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.702	2/16/22 17:52	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.702	2/16/22 17:52	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.702	2/16/22 17:52	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.702	2/16/22 17:52	BRF
Dichlorodifluoromethane (Freon 12)	0.24	0.035	0.034		1.2	0.17	0.17	0.702	2/16/22 17:52	BRF
1,1-Dichloroethane	ND	0.035	0.031		ND	0.14	0.12	0.702	2/16/22 17:52	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.702	2/16/22 17:52	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.702	2/16/22 17:52	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.10	0.702	2/16/22 17:52	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.028		ND	0.14	0.11	0.702	2/16/22 17:52	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.088	0.702	2/16/22 17:52	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	2/16/22 17:52	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	2/16/22 17:52	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.035		ND	0.25	0.24	0.702	2/16/22 17:52	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.702	2/16/22 17:52	BRF
Ethanol	120	8.0	3.5		220	15	6.6	4	2/17/22 20:50	BRF
Ethyl Acetate	0.31	0.35	0.18	L-03, V-34, J	1.1 J	1.3	0.64	0.702	2/16/22 17:52	BRF
Ethylbenzene	0.18	0.035	0.020		0.77	0.15	0.089	0.702	2/16/22 17:52	BRF
4-Ethyltoluene	0.033	0.035	0.022	J	0.16	0.17	0.11	0.702	2/16/22 17:52	BRF
Heptane	0.14	0.035	0.022		0.57	0.14	0.092	0.702	2/16/22 17:52	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.702	2/16/22 17:52	BRF
Hexane	0.29	1.4	0.18	J	1.0	4.9	0.64	0.702	2/16/22 17:52	BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.702	2/16/22 17:52	BRF
Isopropanol	5.9	1.4	0.24		14	3.4	0.60	0.702	2/16/22 17:52	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.098	0.702	2/16/22 17:52	BRF
Methylene Chloride	ND	0.35	0.16		ND	1.2	0.57	0.702	2/16/22 17:52	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.074	0.702	2/16/22 17:52	BRF
Naphthalene	0.027	0.035	0.022	J	0.14	0.18	0.12	0.702	2/16/22 17:52	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.702	2/16/22 17:52	BRF
Styrene	0.045	0.035	0.018		0.19	0.15	0.079	0.702	2/16/22 17:52	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.702	2/16/22 17:52	BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdow
 Date Received: 2/8/2022
Field Sample #: 224121-IA-127
Sample ID: 22B0443-07
 Sample Matrix: Indoor air
 Sampled: 2/5/2022 13:11

Sample Description/Location: H-127
 Sub Description/Location:
 Canister ID: 1850
 Canister Size: 6 liter
 Flow Controller ID: 3288
 Sample Type: 24 hr

Work Order: 22B0443
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -7.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	0.039	0.035	0.027		0.27	0.24	0.18	0.702	2/16/22 17:52	BRF
Tetrahydrofuran	ND	0.35	0.058		ND	1.0	0.17	0.702	2/16/22 17:52	BRF
Toluene	0.84	0.035	0.020		3.2	0.13	0.076	0.702	2/16/22 17:52	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND	0.26	0.18	0.702	2/16/22 17:52	BRF
1,1,1-Trichloroethane	ND	0.035	0.028		ND	0.19	0.15	0.702	2/16/22 17:52	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.702	2/16/22 17:52	BRF
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.702	2/16/22 17:52	BRF
Trichlorofluoromethane (Freon 11)	0.24	0.14	0.041		1.3	0.79	0.23	0.702	2/16/22 17:52	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.061	0.14	0.039	J	0.47	1.1	0.30	0.702	2/16/22 17:52	BRF
1,2,4-Trimethylbenzene	0.10	0.035	0.016		0.50	0.17	0.076	0.702	2/16/22 17:52	BRF
1,3,5-Trimethylbenzene	0.029	0.035	0.019	J	0.14	0.17	0.091	0.702	2/16/22 17:52	BRF
Vinyl Acetate	ND	0.70	0.19	V-05	ND UJ	2.5	0.66	0.702	2/16/22 17:52	BRF
Vinyl Chloride	ND	0.035	0.032		ND	0.090	0.081	0.702	2/16/22 17:52	BRF
m&p-Xylene	0.78	0.070	0.039		3.4	0.30	0.17	0.702	2/16/22 17:52	BRF
o-Xylene	0.23	0.035	0.018		1.0	0.15	0.078	0.702	2/16/22 17:52	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	103	70-130	2/16/22 17:52
4-Bromofluorobenzene (1)	105	70-130	2/17/22 20:50

ALH 2/28/22

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/8/2022
Field Sample #: 224121-OA-127
Sample ID: 22B0443-08
 Sample Matrix: Ambient Air
 Sampled: 2/5/2022 13:13

Sample Description/Location: H-127
 Sub Description/Location:
 Canister ID: 1634
 Canister Size: 6 liter
 Flow Controller ID: 3679
 Sample Type: 24 hr

Work Order: 22B0443
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -7
 Receipt Vacuum(in Hg): -5.3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	3.6	1.4	0.85		8.5	3.3	2.0	0.702	2/16/22 18:39	BRF
Benzene	0.16	0.035	0.027		0.50	0.11	0.085	0.702	2/16/22 18:39	BRF
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.702	2/16/22 18:39	BRF
Bromodichloromethane	ND	0.035	0.025		ND	0.24	0.16	0.702	2/16/22 18:39	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.702	2/16/22 18:39	BRF
Bromomethane	ND	0.035	0.029		ND	0.14	0.11	0.702	2/16/22 18:39	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.078	0.065	0.702	2/16/22 18:39	BRF
2-Butanone (MEK)	0.38	1.4	0.37	J	1.1	4.1	1.1	0.702	2/16/22 18:39	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.702	2/16/22 18:39	BRF
Carbon Tetrachloride	0.068	0.035	0.028		0.43	0.22	0.18	0.702	2/16/22 18:39	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.702	2/16/22 18:39	BRF
Chloroethane	ND	0.035	0.026		ND	0.093	0.068	0.702	2/16/22 18:39	BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.702	2/16/22 18:39	BRF
Chloromethane	0.49	0.070	0.028		1.0	0.14	0.058	0.702	2/16/22 18:39	BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.080	0.702	2/16/22 18:39	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.702	2/16/22 18:39	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.702	2/16/22 18:39	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.702	2/16/22 18:39	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.702	2/16/22 18:39	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.702	2/16/22 18:39	BRF
Dichlorodifluoromethane (Freon 12)	0.26	0.035	0.034		1.3	0.17	0.17	0.702	2/16/22 18:39	BRF
1,1-Dichloroethane	ND	0.035	0.031		ND	0.14	0.12	0.702	2/16/22 18:39	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.702	2/16/22 18:39	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.702	2/16/22 18:39	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.10	0.702	2/16/22 18:39	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.028		ND	0.14	0.11	0.702	2/16/22 18:39	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.088	0.702	2/16/22 18:39	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	2/16/22 18:39	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	2/16/22 18:39	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.035		ND	0.25	0.24	0.702	2/16/22 18:39	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.702	2/16/22 18:39	BRF
Ethanol	7.1	1.4	0.62		13	2.6	1.2	0.702	2/16/22 18:39	BRF
Ethyl Acetate	ND	0.35	0.18	L-03, V-34	NDUJ	1.3	0.64	0.702	2/16/22 18:39	BRF
Ethylbenzene	0.025	0.035	0.020	J	0.11	0.15	0.089	0.702	2/16/22 18:39	BRF
4-Ethyltoluene	ND	0.035	0.022		ND	0.17	0.11	0.702	2/16/22 18:39	BRF
Heptane	0.032	0.035	0.022	J	0.13	0.14	0.092	0.702	2/16/22 18:39	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.702	2/16/22 18:39	BRF
Hexane	ND	1.4	0.18		ND	4.9	0.64	0.702	2/16/22 18:39	BRF
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.702	2/16/22 18:39	BRF
Isopropanol	4.0	1.4	0.24		9.7	3.4	0.60	0.702	2/16/22 18:39	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.098	0.702	2/16/22 18:39	BRF
Methylene Chloride	ND	0.35	0.16		ND	1.2	0.57	0.702	2/16/22 18:39	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.074	0.702	2/16/22 18:39	BRF
Naphthalene	ND	0.035	0.022		ND	0.18	0.12	0.702	2/16/22 18:39	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.702	2/16/22 18:39	BRF
Styrene	ND	0.035	0.018		ND	0.15	0.079	0.702	2/16/22 18:39	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.702	2/16/22 18:39	BRF

ALH 2/28/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown

Date Received: 2/8/2022

Field Sample #: 224121-OA-127

Sample ID: 22B0443-08

Sample Matrix: Ambient Air

Sampled: 2/5/2022 13:13

Sample Description/Location: H-127

Sub Description/Location:

Canister ID: 1634

Canister Size: 6 liter

Flow Controller ID: 3679

Sample Type: 24 hr

Work Order: 22B0443

Initial Vacuum(in Hg): -29

Final Vacuum(in Hg): -7

Receipt Vacuum(in Hg): -5.3

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	Analyst
Tetrachloroethylene	0.034	0.035	0.027	J	0.23	0.24	0.18	0.702	2/16/22 18:39	BRF
Tetrahydrofuran	ND	0.35	0.058		ND	1.0	0.17	0.702	2/16/22 18:39	BRF
Toluene	0.20	0.035	0.020		0.77	0.13	0.076	0.702	2/16/22 18:39	BRF
1,2,4-Trichlorobenzene	ND	0.035	0.024		ND	0.26	0.18	0.702	2/16/22 18:39	BRF
1,1,1-Trichloroethane	ND	0.035	0.028		ND	0.19	0.15	0.702	2/16/22 18:39	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.702	2/16/22 18:39	BRF
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.702	2/16/22 18:39	BRF
Trichlorofluoromethane (Freon 11)	0.23	0.14	0.041		1.3	0.79	0.23	0.702	2/16/22 18:39	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.061	0.14	0.039	J	0.47	1.1	0.30	0.702	2/16/22 18:39	BRF
1,2,4-Trimethylbenzene	0.044	0.035	0.016		0.21	0.17	0.076	0.702	2/16/22 18:39	BRF
1,3,5-Trimethylbenzene	ND	0.035	0.019		ND	0.17	0.091	0.702	2/16/22 18:39	BRF
Vinyl Acetate	ND	0.70	0.19	V-05	ND UJ	2.5	0.66	0.702	2/16/22 18:39	BRF
Vinyl Chloride	ND	0.035	0.032		ND	0.090	0.081	0.702	2/16/22 18:39	BRF
m&p-Xylene	0.074	0.070	0.039		0.32	0.30	0.17	0.702	2/16/22 18:39	BRF
o-Xylene	0.029	0.035	0.018	J	0.12	0.15	0.078	0.702	2/16/22 18:39	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	104	70-130	2/16/22 18:39

ALH 2/28/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown

Date Received: 2/8/2022

Field Sample #: 224121-SS-21-09

Sample ID: 22B0443-09

Sample Matrix: Sub Slab

Sampled: 2/5/2022 15:25

Sample Description/Location: H-21-09

Sub Description/Location:

Canister ID: 1223

Canister Size: 6 liter

Flow Controller ID: 3670

Sample Type: 24 hr

Work Order: 22B0443

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -12.5

Receipt Vacuum(in Hg): -11.6

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed	Analyst	
Acetone	31	4.0	2.4			73	9.5	5.7	2	2/16/22 22:59	BRF
Benzene	ND	0.10	0.076			ND	0.32	0.24	2	2/16/22 22:59	BRF
Benzyl chloride	ND	0.10	0.088			ND	0.52	0.46	2	2/16/22 22:59	BRF
Bromodichloromethane	ND	0.10	0.070			ND	0.67	0.47	2	2/16/22 22:59	BRF
Bromoform	ND	0.10	0.068			ND	1.0	0.70	2	2/16/22 22:59	BRF
Bromomethane	ND	0.10	0.082			ND	0.39	0.32	2	2/16/22 22:59	BRF
1,3-Butadiene	ND	0.10	0.084			ND	0.22	0.19	2	2/16/22 22:59	BRF
2-Butanone (MEK)	6.1	4.0	1.1			18	12	3.1	2	2/16/22 22:59	BRF
Carbon Disulfide	0.11	1.0	0.092	J		0.35	3.1	0.29	2	2/16/22 22:59	BRF
Carbon Tetrachloride	ND	0.10	0.080			ND	0.63	0.50	2	2/16/22 22:59	BRF
Chlorobenzene	ND	0.10	0.066			ND	0.46	0.31	2	2/16/22 22:59	BRF
Chloroethane	1.7	0.10	0.073			4.5	0.26	0.19	2	2/16/22 22:59	BRF
Chloroform	1.1	0.10	0.095			5.1	0.49	0.46	2	2/16/22 22:59	BRF
Chloromethane	0.23	0.20	0.079			0.47	0.41	0.16	2	2/16/22 22:59	BRF
Cyclohexane	ND	0.10	0.066			ND	0.34	0.23	2	2/16/22 22:59	BRF
Dibromochloromethane	ND	0.10	0.066			ND	0.85	0.56	2	2/16/22 22:59	BRF
1,2-Dibromoethane (EDB)	ND	0.10	0.060			ND	0.77	0.46	2	2/16/22 22:59	BRF
1,2-Dichlorobenzene	ND	0.10	0.057			ND	0.60	0.35	2	2/16/22 22:59	BRF
1,3-Dichlorobenzene	ND	0.10	0.055			ND	0.60	0.33	2	2/16/22 22:59	BRF
1,4-Dichlorobenzene	0.12	0.10	0.065			0.72	0.60	0.39	2	2/16/22 22:59	BRF
Dichlorodifluoromethane (Freon 12)	0.52	0.10	0.098			2.6	0.49	0.48	2	2/16/22 22:59	BRF
1,1-Dichloroethane	0.42	0.10	0.087			1.7	0.40	0.35	2	2/16/22 22:59	BRF
1,2-Dichloroethane	0.88	0.10	0.091			3.6	0.40	0.37	2	2/16/22 22:59	BRF
1,1-Dichloroethylene	ND	0.10	0.076			ND	0.40	0.30	2	2/16/22 22:59	BRF
cis-1,2-Dichloroethylene	ND	0.10	0.073			ND	0.40	0.29	2	2/16/22 22:59	BRF
trans-1,2-Dichloroethylene	ND	0.10	0.079			ND	0.40	0.31	2	2/16/22 22:59	BRF
1,2-Dichloropropane	ND	0.10	0.054			ND	0.46	0.25	2	2/16/22 22:59	BRF
cis-1,3-Dichloropropene	ND	0.10	0.052			ND	0.45	0.24	2	2/16/22 22:59	BRF
trans-1,3-Dichloropropene	ND	0.10	0.051			ND	0.45	0.23	2	2/16/22 22:59	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098			ND	0.70	0.69	2	2/16/22 22:59	BRF
1,4-Dioxane	ND	1.0	0.083			ND	3.6	0.30	2	2/16/22 22:59	BRF
Ethanol	29	4.0	1.8			54	7.5	3.3	2	2/16/22 22:59	BRF
Ethyl Acetate	1.1	1.0	0.51	L-03, V-34		4.0 J	3.6	1.8	2	2/16/22 22:59	BRF
Ethylbenzene	0.16	0.10	0.058			0.70	0.43	0.25	2	2/16/22 22:59	BRF
4-Ethyltoluene	0.16	0.10	0.061			0.77	0.49	0.30	2	2/16/22 22:59	BRF
Heptane	0.33	0.10	0.064			1.4	0.41	0.26	2	2/16/22 22:59	BRF
Hexachlorobutadiene	ND	0.10	0.082			ND	1.1	0.88	2	2/16/22 22:59	BRF
Hexane	0.56	4.0	0.52	J		2.0	14	1.8	2	2/16/22 22:59	BRF
2-Hexanone (MBK)	ND	0.10	0.050			ND	0.41	0.21	2	2/16/22 22:59	BRF
Isopropanol	13	4.0	0.69			31	9.8	1.7	2	2/16/22 22:59	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.077			ND	0.36	0.28	2	2/16/22 22:59	BRF
Methylene Chloride	ND	1.0	0.46			ND	3.5	1.6	2	2/16/22 22:59	BRF
4-Methyl-2-pentanone (MIBK)	0.11	0.10	0.051			0.47	0.41	0.21	2	2/16/22 22:59	BRF
Naphthalene	1.2	0.10	0.063			6.5	0.52	0.33	2	2/16/22 22:59	BRF
Propene	ND	4.0	0.88			ND	6.9	1.5	2	2/16/22 22:59	BRF
Styrene	0.076	0.10	0.053	J		0.32	0.43	0.22	2	2/16/22 22:59	BRF
1,1,2,2-Tetrachloroethane	ND	0.10	0.054			ND	0.69	0.37	2	2/16/22 22:59	BRF

ALH 2/28/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/8/2022
Field Sample #: 224121-SS-21-09
Sample ID: 22B0443-09
 Sample Matrix: Sub Slab
 Sampled: 2/5/2022 15:25

Sample Description/Location: H-21-09
 Sub Description/Location:
 Canister ID: 1223
 Canister Size: 6 liter
 Flow Controller ID: 3670
 Sample Type: 24 hr

Work Order: 22B0443
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -12.5
 Receipt Vacuum(in Hg): -11.6
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	15	0.10	0.076		100	0.68	0.52	2	2/16/22 22:59	BRF
Tetrahydrofuran	ND	1.0	0.16		ND	2.9	0.48	2	2/16/22 22:59	BRF
Toluene	2.0	0.10	0.057		7.6	0.38	0.22	2	2/16/22 22:59	BRF
1,2,4-Trichlorobenzene	ND	0.10	0.070		ND	0.74	0.52	2	2/16/22 22:59	BRF
1,1,1-Trichloroethane	0.57	0.10	0.079		3.1	0.55	0.43	2	2/16/22 22:59	BRF
1,1,2-Trichloroethane	ND	0.10	0.070		ND	0.55	0.38	2	2/16/22 22:59	BRF
Trichloroethylene	0.82	0.10	0.067		4.4	0.54	0.36	2	2/16/22 22:59	BRF
Trichlorofluoromethane (Freon 11)	0.29	0.40	0.12	J	1.6	2.2	0.66	2	2/16/22 22:59	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	0.11		ND	3.1	0.85	2	2/16/22 22:59	BRF
1,2,4-Trimethylbenzene	0.42	0.10	0.044		2.1	0.49	0.22	2	2/16/22 22:59	BRF
1,3,5-Trimethylbenzene	0.17	0.10	0.053		0.84	0.49	0.26	2	2/16/22 22:59	BRF
Vinyl Acetate	12	2.0	0.54	L-05, V-05, V-35	43 J	7.0	1.9	2	2/16/22 22:59	BRF
Vinyl Chloride	ND	0.10	0.090		ND	0.26	0.23	2	2/16/22 22:59	BRF
m&p-Xylene	0.33	0.20	0.11		1.4	0.87	0.49	2	2/16/22 22:59	BRF
o-Xylene	0.18	0.10	0.051		0.80	0.43	0.22	2	2/16/22 22:59	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	105	70-130	2/16/22 22:59

ALH 2/28/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/8/2022
Field Sample #: 224121-IA-21-09
Sample ID: 22B0443-10
 Sample Matrix: Indoor air
 Sampled: 2/5/2022 15:26

Sample Description/Location: H-21-09
 Sub Description/Location:
 Canister ID: 1749
 Canister Size: 6 liter
 Flow Controller ID: 3091
 Sample Type: 24 hr

Work Order: 22B0443
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -23
 Receipt Vacuum(in Hg): -22.9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: >20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed		
Acetone	11	4.0	2.4			27	9.5	5.7	2	2/16/22 19:28	BRF
Benzene	0.26	0.10	0.076			0.82	0.32	0.24	2	2/16/22 19:28	BRF
Benzyl chloride	ND	0.10	0.088			ND	0.52	0.46	2	2/16/22 19:28	BRF
Bromodichloromethane	ND	0.10	0.070			ND	0.67	0.47	2	2/16/22 19:28	BRF
Bromoform	ND	0.10	0.068			ND	1.0	0.70	2	2/16/22 19:28	BRF
Bromomethane	ND	0.10	0.082			ND	0.39	0.32	2	2/16/22 19:28	BRF
1,3-Butadiene	0.17	0.10	0.084			0.37	0.22	0.19	2	2/16/22 19:28	BRF
2-Butanone (MEK)	1.5	4.0	1.1	J		4.3	12	3.1	2	2/16/22 19:28	BRF
Carbon Disulfide	ND	1.0	0.092			ND	3.1	0.29	2	2/16/22 19:28	BRF
Carbon Tetrachloride	ND	0.10	0.080			ND	0.63	0.50	2	2/16/22 19:28	BRF
Chlorobenzene	ND	0.10	0.066			ND	0.46	0.31	2	2/16/22 19:28	BRF
Chloroethane	ND	0.10	0.073			ND	0.26	0.19	2	2/16/22 19:28	BRF
Chloroform	ND	0.10	0.095			ND	0.49	0.46	2	2/16/22 19:28	BRF
Chloromethane	0.55	0.20	0.079			1.1	0.41	0.16	2	2/16/22 19:28	BRF
Cyclohexane	ND	0.10	0.066			ND	0.34	0.23	2	2/16/22 19:28	BRF
Dibromochloromethane	ND	0.10	0.066			ND	0.85	0.56	2	2/16/22 19:28	BRF
1,2-Dibromoethane (EDB)	ND	0.10	0.060			ND	0.77	0.46	2	2/16/22 19:28	BRF
1,2-Dichlorobenzene	ND	0.10	0.057			ND	0.60	0.35	2	2/16/22 19:28	BRF
1,3-Dichlorobenzene	ND	0.10	0.055			ND	0.60	0.33	2	2/16/22 19:28	BRF
1,4-Dichlorobenzene	ND	0.10	0.065			ND	0.60	0.39	2	2/16/22 19:28	BRF
Dichlorodifluoromethane (Freon 12)	0.53	0.10	0.098			2.6	0.49	0.48	2	2/16/22 19:28	BRF
1,1-Dichloroethane	ND	0.10	0.087			ND	0.40	0.35	2	2/16/22 19:28	BRF
1,2-Dichloroethane	ND	0.10	0.091			ND	0.40	0.37	2	2/16/22 19:28	BRF
1,1-Dichloroethylene	ND	0.10	0.076			ND	0.40	0.30	2	2/16/22 19:28	BRF
cis-1,2-Dichloroethylene	ND	0.10	0.073			ND	0.40	0.29	2	2/16/22 19:28	BRF
trans-1,2-Dichloroethylene	ND	0.10	0.079			ND	0.40	0.31	2	2/16/22 19:28	BRF
1,2-Dichloropropane	ND	0.10	0.054			ND	0.46	0.25	2	2/16/22 19:28	BRF
cis-1,3-Dichloropropene	ND	0.10	0.052			ND	0.45	0.24	2	2/16/22 19:28	BRF
trans-1,3-Dichloropropene	ND	0.10	0.051			ND	0.45	0.23	2	2/16/22 19:28	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098			ND	0.70	0.69	2	2/16/22 19:28	BRF
1,4-Dioxane	ND	1.0	0.083			ND	3.6	0.30	2	2/16/22 19:28	BRF
Ethanol	81	4.0	1.8			150	7.5	3.3	2	2/16/22 19:28	BRF
Ethyl Acetate	ND	1.0	0.51	L-03, V-34		ND UJ	3.6	1.8	2	2/16/22 19:28	BRF
Ethylbenzene	0.064	0.10	0.058	J		0.28	0.43	0.25	2	2/16/22 19:28	BRF
4-Ethyltoluene	ND	0.10	0.061			ND	0.49	0.30	2	2/16/22 19:28	BRF
Heptane	0.14	0.10	0.064			0.58	0.41	0.26	2	2/16/22 19:28	BRF
Hexachlorobutadiene	ND	0.10	0.082			ND	1.1	0.88	2	2/16/22 19:28	BRF
Hexane	0.81	4.0	0.52	J		2.9	14	1.8	2	2/16/22 19:28	BRF
2-Hexanone (MBK)	ND	0.10	0.050			ND	0.41	0.21	2	2/16/22 19:28	BRF
Isopropanol	14	4.0	0.69			35	9.8	1.7	2	2/16/22 19:28	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.077			ND	0.36	0.28	2	2/16/22 19:28	BRF
Methylene Chloride	0.99	1.0	0.46	J		3.4	3.5	1.6	2	2/16/22 19:28	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.051			ND	0.41	0.21	2	2/16/22 19:28	BRF
Naphthalene	ND	0.10	0.063			ND	0.52	0.33	2	2/16/22 19:28	BRF
Propene	ND	4.0	0.88			ND	6.9	1.5	2	2/16/22 19:28	BRF
Styrene	0.054	0.10	0.053	J		0.23	0.43	0.22	2	2/16/22 19:28	BRF
1,1,2,2-Tetrachloroethane	ND	0.10	0.054			ND	0.69	0.37	2	2/16/22 19:28	BRF

ALH 2/28/22

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown

Date Received: 2/8/2022

Field Sample #: 224121-IA-21-09
Sample ID: 22B0443-10

Sample Matrix: Indoor air

Sampled: 2/5/2022 15:26

Sample Description/Location: H-21-09

Sub Description/Location:

Canister ID: 1749

Canister Size: 6 liter

Flow Controller ID: 3091

Sample Type: 24 hr

Work Order: 22B0443

Initial Vacuum(in Hg): -29

Final Vacuum(in Hg): -23

Receipt Vacuum(in Hg): -22.9

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: >20%

EPA TO-15

Analyte	Results	ppbv		Flag/Qual	Results	ug/m3		Dilution	Date/Time		Analyst
		RL	MDL			RL	MDL		Analyzed		
Tetrachloroethylene	ND	0.10	0.076		ND	0.68	0.52	2	2/16/22 19:28	BRF	
Tetrahydrofuran	ND	1.0	0.16		ND	2.9	0.48	2	2/16/22 19:28	BRF	
Toluene	0.55	0.10	0.057		2.1	0.38	0.22	2	2/16/22 19:28	BRF	
1,2,4-Trichlorobenzene	ND	0.10	0.070		ND	0.74	0.52	2	2/16/22 19:28	BRF	
1,1,1-Trichloroethane	ND	0.10	0.079		ND	0.55	0.43	2	2/16/22 19:28	BRF	
1,1,2-Trichloroethane	ND	0.10	0.070		ND	0.55	0.38	2	2/16/22 19:28	BRF	
Trichloroethylene	ND	0.10	0.067		ND	0.54	0.36	2	2/16/22 19:28	BRF	
Trichlorofluoromethane (Freon 11)	0.23	0.40	0.12	J	1.3	2.2	0.66	2	2/16/22 19:28	BRF	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.16	0.40	0.11	J	1.2	3.1	0.85	2	2/16/22 19:28	BRF	
1,2,4-Trimethylbenzene	0.21	0.10	0.044		1.0	0.49	0.22	2	2/16/22 19:28	BRF	
1,3,5-Trimethylbenzene	0.062	0.10	0.053	J	0.30	0.49	0.26	2	2/16/22 19:28	BRF	
Vinyl Acetate	ND	2.0	0.54	V-05	ND UJ	7.0	1.9	2	2/16/22 19:28	BRF	
Vinyl Chloride	ND	0.10	0.090		ND	0.26	0.23	2	2/16/22 19:28	BRF	
m&p-Xylene	0.22	0.20	0.11		0.94	0.87	0.49	2	2/16/22 19:28	BRF	
o-Xylene	0.090	0.10	0.051	J	0.39	0.43	0.22	2	2/16/22 19:28	BRF	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	103	70-130	2/16/22 19:28

ALH 2/28/22

VALIDATA

Chemical Services, Inc.

2159 Wynnton Pointe, Duluth, GA 30097

(770) 232-0130

(770) 232-5082 (Fax)

www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY: AECOM Technical Services Northeast, Inc.
PROJECT NAME: Meeker Ave. SVI
CONTRACTED LAB: con-test Analytical Laboratory
QA/QC LEVEL: DUSR
ANALYTICAL METHOD(S): EPA Method TO-15
VALIDATION GUIDELINES: USEPA Region II data validation SOP ((VOA-TO15 HW-31 Rev.6, Analysis of VOCs in Air contained in Canisters by Method TO-15, September 2016), Professional Judgment
SAMPLE MATRIX: Air
TYPES OF ANALYSES: Volatile Organic Compounds (VOC)
DATA REVIEWER(S): Amy L. Hogan
SDG NUMBER: 22B0445
SAMPLING DATE(S): February 7, 2022

SAMPLES:

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>VOC</u>
224121-SSA-128	22B0445-01	X
224121-SSA-128DL	22B0445-01DL	X
224121-IAA-128	22B0445-02	X
224121-IAA-128DL	22B0445-02DL	X
224121-SSB-128	22B0445-03	X
FD-020722-1	22B0445-04	X
224121-IAB-128	22B0445-05	X
224121-IAB-128DL	22B0445-05DL	X
FD-020722-2	22B0445-06	X
FD-020722-2DL	22B0445-06DL	X
224121-OA-128	22B0445-07	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Con-test Analytical Laboratory – 22B0445

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per EPA Method TO-15.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The Percent Relative Standard Deviation (%RSD) for the standards analyzed on 8/20/21 on instrument SYSJ was 39.6% for 1,2,4-trichlorobenzene, which exceeded the 30% QC limit. The 1,2,4-trichlorobenzene results for the samples, which consisted entirely of non-detects, were qualified as estimated (UJ).

Initial Calibration Verification:

The Percent Differences (%Ds) for the standards run on 8/21/21 at 02:04 on instrument SYSJ exceeded the 30% QC limit for the following compounds:

Vinyl acetate	-32.9%
Ethyl acetate	34.7%

All positive and non-detect results for these compounds in the SDG samples were qualified as

estimated (J) and (UJ).

Continuing Calibration:

The Percent Differences (%Ds) for the standards run on 2/16/22 at 08:39 on instrument SYSJ exceeded the 30% QC limit for the following compounds:

2-hexanone	36.0%
Vinyl acetate	-40.0%

All positive and non-detect results for these compounds in the initial analyses of the SDG samples were qualified as estimated (J) and (UJ).

The Percent Differences (%Ds) for the standards run on 2/17/21 at 08:52 on instrument SYSJ exceeded the 30% QC limit for the following compounds:

1,2,4-trichlorobenzene	-33.7%
Vinyl acetate	-47.3%

Since the listed compounds were not target compounds for the associated dilution analysis, no data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Canister Blanks:

There were no detects in the canister check blanks for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

Two LCS were analyzed by the laboratory for this SDG. The Percent Recoveries (%Rs) for LCS B301423-BS1 were outside the 70-130% QC limits for the following compounds:

Ethyl acetate	65.0%
2-hexanone	134%
1,2,4-trichlorobenzene	68.9%

All positive 2-hexanone results for the SDG samples were qualified as estimated (J) and all positive and non-detect results for ethyl acetate and 1,2,4-trichlorobenzene for the SDG samples were qualified as estimated (J) and (UJ).

The Percent Recoveries (%Rs) for LCS B301512-BS1 were outside the 70-130% QC limits for the following compounds:

Ethyl acetate	57.4%
Hexachlorobutadiene	61.8%
Isopropanol	64.9%
1,2,4-trichlorobenzene	60.6%

Since the listed compounds were not target compounds for the associated SDG sample analysis, no data qualification was necessary.

IX.) Matrix Duplicate:

Matrix Duplicate analysis data was not submitted for this SDG. Data qualification based on the absence of MD data was not required. No data qualification was necessary.

X.) Field Duplicates:

Two sets of field duplicate samples (224121-SSB-128 / FD-0202722-1 and 224121-IAB-128 / FD-0202722-2) were identified as part of this SDG. The calculable Relative Percent Differences (RPDs) for the first set were:

Acetone	37%
Benzene	0%
1,3-butadiene	5.7%
2-butanone	11%
Caron disulfide	1.6%
Carbon tetrachloride	17%
Chloroethane	5.7%
Chloroform	0%
Chloromethane	62%
Cyclohexane	1.7%
Freon 12	2.7%
1,1-dichloroethane	4.1%
1,2-dichloroethane	18%
Ethanol	4.4%
Ethylbenzene	4.2%
Heptane	2.2%
Hexane	9.5%
Isopropanol	1.9%
Tetrachloroethylene	0%
Toluene	4.4%
1,1,1-trichloroethane	3.8%

Trichloroethylene	13%
Freon 11	3.5%
Vinyl chloride	6.9%
M,p-xylene	1.6%
o-xylene	17%

The RPD for chloromethane exceeded the 50% QC limit. The positive chloromethane results for the two samples were qualified as estimated (J).

The calculable Relative Percent Differences (RPDs) for the second set were:

Acetone	56%
Benzene	0%
1,3-butadiene	7.2%
2-butanone	2.7%
Carbon tetrachloride	11%
Chloroform	1.6%
Chloromethane	8.7%
Cyclohexane	0%
Freon 12	0%
Ethanol	0%
Ethyl acetate	3.4%
Ethylbenzene	0%
4-ethyltoluene	3.4%
Heptane	1.3%
Hexane	0%
Isopropanol	6.7%
Methylene chloride	7.4%
Naphthalene	7.4%
Styrene	1.2%
Tetrachloroethylene	23%
Toluene	2.3%
Freon 11	6.5%
Freon 113	11%
1,2,4-trimethylbenzene	1.1%
1,3,5-trimethylbenzene	3.6%
M,p-xylene	0%
o-xylene	0%

The RPD for acetone exceeded the 50% QC limit. The positive acetone results for the two samples were qualified as estimated (J).

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

The initial analysis 1,1,1-trichloroethane result for sample 224121-SSA-128, ethanol results for samples 224121-IAA-128, 224121-IAB-128 and FD-020722-2 and propene for sample 224121-IAA-128 exceeded the linear calibration range. A dilution analysis was performed for the listed samples with all calibration criteria met. Since the Form I for each of the samples was a composite of the results, no data qualification was necessary.

All other CRQL criteria were met.

Appendix A

Qualified Form Is

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown

Date Received: 2/8/2022

Field Sample #: 224121-SSA-128

Sample ID: 22B0445-01

Sample Matrix: Sub Slab

Sampled: 2/7/2022 07:40

Sample Description/Location: H-126

Sub Description/Location:

Canister ID: 2144

Canister Size: 6 liter

Flow Controller ID: 3207

Sample Type: 8 hr

Work Order: 22B0445

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -7

Receipt Vacuum(in Hg): -7

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	
Acetone	37	4.0	2.4		87	9.5	5.7	2	2/16/22 22:36	BRF
Benzene	0.79	0.10	0.076		2.5	0.32	0.24	2	2/16/22 22:36	BRF
Benzyl chloride	ND	0.10	0.088		ND	0.52	0.46	2	2/16/22 22:36	BRF
Bromodichloromethane	0.63	0.10	0.070		4.2	0.67	0.47	2	2/16/22 22:36	BRF
Bromoform	ND	0.10	0.068		ND	1.0	0.70	2	2/16/22 22:36	BRF
Bromomethane	ND	0.10	0.082		ND	0.39	0.32	2	2/16/22 22:36	BRF
1,3-Butadiene	0.70	0.10	0.084		1.5	0.22	0.19	2	2/16/22 22:36	BRF
2-Butanone (MEK)	1.9	4.0	1.1	J	5.7	12	3.1	2	2/16/22 22:36	BRF
Carbon Disulfide	1.3	1.0	0.092		3.9	3.1	0.29	2	2/16/22 22:36	BRF
Carbon Tetrachloride	ND	0.10	0.080		ND	0.63	0.50	2	2/16/22 22:36	BRF
Chlorobenzene	ND	0.10	0.066		ND	0.46	0.31	2	2/16/22 22:36	BRF
Chloroethane	3.9	0.10	0.073		10	0.26	0.19	2	2/16/22 22:36	BRF
Chloroform	37	0.10	0.095		180	0.49	0.46	2	2/16/22 22:36	BRF
Chloromethane	ND	0.20	0.079		ND	0.41	0.16	2	2/16/22 22:36	BRF
Cyclohexane	0.48	0.10	0.066		1.6	0.34	0.23	2	2/16/22 22:36	BRF
Dibromochloromethane	ND	0.10	0.066		ND	0.85	0.56	2	2/16/22 22:36	BRF
1,2-Dibromoethane (EDB)	ND	0.10	0.060		ND	0.77	0.46	2	2/16/22 22:36	BRF
1,2-Dichlorobenzene	ND	0.10	0.057		ND	0.60	0.35	2	2/16/22 22:36	BRF
1,3-Dichlorobenzene	ND	0.10	0.055		ND	0.60	0.33	2	2/16/22 22:36	BRF
1,4-Dichlorobenzene	ND	0.10	0.065		ND	0.60	0.39	2	2/16/22 22:36	BRF
Dichlorodifluoromethane (Freon 12)	4.3	0.10	0.098		21	0.49	0.48	2	2/16/22 22:36	BRF
1,1-Dichloroethane	12	0.10	0.087		48	0.40	0.35	2	2/16/22 22:36	BRF
1,2-Dichloroethane	0.30	0.10	0.091		1.2	0.40	0.37	2	2/16/22 22:36	BRF
1,1-Dichloroethylene	ND	0.10	0.076		ND	0.40	0.30	2	2/16/22 22:36	BRF
cis-1,2-Dichloroethylene	ND	0.10	0.073		ND	0.40	0.29	2	2/16/22 22:36	BRF
trans-1,2-Dichloroethylene	ND	0.10	0.079		ND	0.40	0.31	2	2/16/22 22:36	BRF
1,2-Dichloropropane	ND	0.10	0.054		ND	0.46	0.25	2	2/16/22 22:36	BRF
cis-1,3-Dichloropropene	ND	0.10	0.052		ND	0.45	0.24	2	2/16/22 22:36	BRF
trans-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	2/16/22 22:36	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098		ND	0.70	0.69	2	2/16/22 22:36	BRF
1,4-Dioxane	ND	1.0	0.083		ND	3.6	0.30	2	2/16/22 22:36	BRF
Ethanol	12	4.0	1.8		22	7.5	3.3	2	2/16/22 22:36	BRF
Ethyl Acetate	ND	1.0	0.51	L-03, V-34	ND UJ	3.6	1.8	2	2/16/22 22:36	BRF
Ethylbenzene	0.068	0.10	0.058	J	0.30	0.43	0.25	2	2/16/22 22:36	BRF
4-Ethyltoluene	ND	0.10	0.061		ND	0.49	0.30	2	2/16/22 22:36	BRF
Heptane	0.41	0.10	0.064		1.7	0.41	0.26	2	2/16/22 22:36	BRF
Hexachlorobutadiene	ND	0.10	0.082		ND	1.1	0.88	2	2/16/22 22:36	BRF
Hexane	ND	4.0	0.52		ND	14	1.8	2	2/16/22 22:36	BRF
2-Hexanone (MBK)	ND	0.20	0.050		ND UJ	0.82	0.21	2	2/16/22 22:36	BRF
Isopropanol	1.1	4.0	0.69	J	2.7	9.8	1.7	2	2/16/22 22:36	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.077		ND	0.36	0.28	2	2/16/22 22:36	BRF
Methylene Chloride	ND	1.0	0.46		ND	3.5	1.6	2	2/16/22 22:36	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.051		ND	0.41	0.21	2	2/16/22 22:36	BRF
Naphthalene	ND	0.10	0.063		ND	0.52	0.33	2	2/16/22 22:36	BRF
Propene	ND	4.0	0.88		ND	6.9	1.5	2	2/16/22 22:36	BRF
Styrene	ND	0.10	0.053		ND	0.43	0.22	2	2/16/22 22:36	BRF
1,1,2,2-Tetrachloroethane	ND	0.10	0.054		ND	0.69	0.37	2	2/16/22 22:36	BRF

ALH 2/28/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown

Date Received: 2/8/2022

Field Sample #: 224121-SSA-128

Sample ID: 22B0445-01

Sample Matrix: Sub Slab

Sampled: 2/7/2022 07:40

Sample Description/Location: H-126

Sub Description/Location:

Canister ID: 2144

Canister Size: 6 liter

Flow Controller ID: 3207

Sample Type: 8 hr

Work Order: 22B0445

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -7

Receipt Vacuum(in Hg): -7

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	1.4	0.10	0.076	L-03, V-04	9.7	0.68	0.52	2	2/16/22	22:36	BRF
Tetrahydrofuran	ND	1.0	0.16		ND	2.9	0.48	2	2/16/22	22:36	BRF
Toluene	0.71	0.10	0.057		2.7	0.38	0.22	2	2/16/22	22:36	BRF
1,2,4-Trichlorobenzene	ND	0.20	0.070		ND ^{UJ}	1.5	0.52	2	2/16/22	22:36	BRF
1,1,1-Trichloroethane	180	0.50	0.39		990	2.7	2.1	10	2/16/22	23:01	BRF
1,1,2-Trichloroethane	ND	0.10	0.070		ND	0.55	0.38	2	2/16/22	22:36	BRF
Trichloroethylene	0.80	0.10	0.067	J	4.3	0.54	0.36	2	2/16/22	22:36	BRF
Trichlorofluoromethane (Freon 11)	5.1	0.40	0.12		29	2.2	0.66	2	2/16/22	22:36	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.21	0.40	0.11		1.6	3.1	0.85	2	2/16/22	22:36	BRF
1,2,4-Trimethylbenzene	ND	0.10	0.044		ND	0.49	0.22	2	2/16/22	22:36	BRF
1,3,5-Trimethylbenzene	ND	0.10	0.053		ND	0.49	0.26	2	2/16/22	22:36	BRF
Vinyl Acetate	ND	2.0	0.54		V-05	ND ^{UJ}	7.0	1.9	2	2/16/22	22:36
Vinyl Chloride	0.25	0.10	0.090	J	0.63	0.26	0.23	2	2/16/22	22:36	BRF
m&p-Xylene	0.16	0.20	0.11		0.70	0.87	0.49	2	2/16/22	22:36	BRF
o-Xylene	0.074	0.10	0.051		0.32	0.43	0.22	2	2/16/22	22:36	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	91.8	70-130	2/16/22 22:36
4-Bromofluorobenzene (1)	87.6	70-130	2/16/22 23:01

ALH 2/28/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/8/2022
Field Sample #: 224121-IAA-128
Sample ID: 22B0445-02
 Sample Matrix: Indoor air
 Sampled: 2/7/2022 07:41

Sample Description/Location: H-126
 Sub Description/Location:
 Canister ID: 2207
 Canister Size: 6 liter
 Flow Controller ID: 3635
 Sample Type: 8 hr

Work Order: 22B0445
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -8.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	ND	1.4	0.84		ND	3.3	2.0	0.698	2/16/22 16:23		BRF
Benzene	12	0.035	0.026		39	0.11	0.084	0.698	2/16/22 16:23		BRF
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.698	2/16/22 16:23		BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	2/16/22 16:23		BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	2/16/22 16:23		BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	2/16/22 16:23		BRF
1,3-Butadiene	3.6	0.035	0.029		7.9	0.077	0.065	0.698	2/16/22 16:23		BRF
2-Butanone (MEK)	1.7	1.4	0.37		5.0	4.1	1.1	0.698	2/16/22 16:23		BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	2/16/22 16:23		BRF
Carbon Tetrachloride	0.16	0.035	0.028		0.99	0.22	0.17	0.698	2/16/22 16:23		BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	2/16/22 16:23		BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	2/16/22 16:23		BRF
Chloroform	1.1	0.035	0.033		5.5	0.17	0.16	0.698	2/16/22 16:23		BRF
Chloromethane	0.57	0.070	0.028		1.2	0.14	0.057	0.698	2/16/22 16:23		BRF
Cyclohexane	3.0	0.035	0.023		10	0.12	0.079	0.698	2/16/22 16:23		BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	2/16/22 16:23		BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	2/16/22 16:23		BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	2/16/22 16:23		BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	2/16/22 16:23		BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	2/16/22 16:23		BRF
Dichlorodifluoromethane (Freon 12)	0.47	0.035	0.034		2.3	0.17	0.17	0.698	2/16/22 16:23		BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	2/16/22 16:23		BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	2/16/22 16:23		BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	2/16/22 16:23		BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	2/16/22 16:23		BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	2/16/22 16:23		BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	2/16/22 16:23		BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	2/16/22 16:23		BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	2/16/22 16:23		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	2/16/22 16:23		BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	2/16/22 16:23		BRF
Ethanol	61	8.0	3.5		120	15	6.6	4	2/17/22 15:46		BRF
Ethyl Acetate	1.6	0.35	0.18	L-03, V-34	5.7 J	1.3	0.64	0.698	2/16/22 16:23		BRF
Ethylbenzene	5.1	0.035	0.020		22	0.15	0.088	0.698	2/16/22 16:23		BRF
4-Ethyltoluene	1.4	0.035	0.021		7.0	0.17	0.11	0.698	2/16/22 16:23		BRF
Heptane	3.9	0.035	0.022		16	0.14	0.091	0.698	2/16/22 16:23		BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	2/16/22 16:23		BRF
Hexane	6.9	1.4	0.18		24	4.9	0.64	0.698	2/16/22 16:23		BRF
2-Hexanone (MBK)	ND	0.070	0.018		ND UJ	0.29	0.072	0.698	2/16/22 16:23		BRF
Isopropanol	7.9	1.4	0.24		19	3.4	0.59	0.698	2/16/22 16:23		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	2/16/22 16:23		BRF
Methylene Chloride	0.66	0.35	0.16		2.3	1.2	0.56	0.698	2/16/22 16:23		BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	2/16/22 16:23		BRF
Naphthalene	0.74	0.035	0.022		3.9	0.18	0.12	0.698	2/16/22 16:23		BRF
Propene	61	8.0	1.8		100	14	3.0	4	2/17/22 15:46		BRF
Styrene	2.3	0.035	0.018		10	0.15	0.078	0.698	2/16/22 16:23		BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	2/16/22 16:23		BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/8/2022
Field Sample #: 224121-IAA-128
Sample ID: 22B0445-02
 Sample Matrix: Indoor air
 Sampled: 2/7/2022 07:41

Sample Description/Location: H-126
 Sub Description/Location:
 Canister ID: 2207
 Canister Size: 6 liter
 Flow Controller ID: 3635
 Sample Type: 8 hr

Work Order: 22B0445
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -8.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	0.096	0.035	0.027	L-03, V-04	0.65	0.24	0.18	0.698	2/16/22 16:23	BRF
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	2/16/22 16:23	BRF
Toluene	21	0.035	0.020		81	0.13	0.075	0.698	2/16/22 16:23	BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024		ND UJ	0.52	0.18	0.698	2/16/22 16:23	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	2/16/22 16:23	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	2/16/22 16:23	BRF
Trichloroethylene	ND	0.035	0.024	J	ND	0.19	0.13	0.698	2/16/22 16:23	BRF
Trichlorofluoromethane (Freon 11)	0.30	0.14	0.041		1.7	0.78	0.23	0.698	2/16/22 16:23	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.071	0.14	0.039		0.55	1.1	0.30	0.698	2/16/22 16:23	BRF
1,2,4-Trimethylbenzene	4.9	0.035	0.015		24	0.17	0.076	0.698	2/16/22 16:23	BRF
1,3,5-Trimethylbenzene	1.4	0.035	0.018		6.8	0.17	0.091	0.698	2/16/22 16:23	BRF
Vinyl Acetate	ND	0.70	0.19		V-05	ND UJ	2.5	0.66	0.698	2/16/22 16:23
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	2/16/22 16:23	BRF
m&p-Xylene	17	0.070	0.039		72	0.30	0.17	0.698	2/16/22 16:23	BRF
o-Xylene	6.0	0.035	0.018		26	0.15	0.078	0.698	2/16/22 16:23	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	97.4	70-130	2/16/22 16:23
4-Bromofluorobenzene (1)	96.5	70-130	2/17/22 15:46

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/8/2022
Field Sample #: 224121-SSB-128
Sample ID: 22B0445-03
 Sample Matrix: Sub Slab
 Sampled: 2/7/2022 07:42

Sample Description/Location: H-126
 Sub Description/Location:
 Canister ID: 1697
 Canister Size: 6 liter
 Flow Controller ID: 4642
 Sample Type: 8 hr

Work Order: 22B0445
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -8.5
 Receipt Vacuum(in Hg): -8.5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Acetone	28	4.0	2.4		68	9.5	5.7	2	2/16/22 22:10	BRF
Benzene	4.1	0.10	0.076		13	0.32	0.24	2	2/16/22 22:10	BRF
Benzyl chloride	ND	0.10	0.088		ND	0.52	0.46	2	2/16/22 22:10	BRF
Bromodichloromethane	ND	0.10	0.070		ND	0.67	0.47	2	2/16/22 22:10	BRF
Bromoform	ND	0.10	0.068		ND	1.0	0.70	2	2/16/22 22:10	BRF
Bromomethane	ND	0.10	0.082		ND	0.39	0.32	2	2/16/22 22:10	BRF
1,3-Butadiene	1.6	0.10	0.084		3.4	0.22	0.19	2	2/16/22 22:10	BRF
2-Butanone (MEK)	1.4	4.0	1.1	J	4.1	12	3.1	2	2/16/22 22:10	BRF
Carbon Disulfide	2.1	1.0	0.092		6.5	3.1	0.29	2	2/16/22 22:10	BRF
Carbon Tetrachloride	0.12	0.10	0.080		0.78	0.63	0.50	2	2/16/22 22:10	BRF
Chlorobenzene	ND	0.10	0.066		ND	0.46	0.31	2	2/16/22 22:10	BRF
Chloroethane	6.8	0.10	0.073		18	0.26	0.19	2	2/16/22 22:10	BRF
Chloroform	1.0	0.10	0.095		4.9	0.49	0.46	2	2/16/22 22:10	BRF
Chloromethane	0.50	0.20	0.079		1.0 J	0.41	0.16	2	2/16/22 22:10	BRF
Cyclohexane	1.8	0.10	0.066		6.1	0.34	0.23	2	2/16/22 22:10	BRF
Dibromochloromethane	ND	0.10	0.066		ND	0.85	0.56	2	2/16/22 22:10	BRF
1,2-Dibromoethane (EDB)	ND	0.10	0.060		ND	0.77	0.46	2	2/16/22 22:10	BRF
1,2-Dichlorobenzene	ND	0.10	0.057		ND	0.60	0.35	2	2/16/22 22:10	BRF
1,3-Dichlorobenzene	ND	0.10	0.055		ND	0.60	0.33	2	2/16/22 22:10	BRF
1,4-Dichlorobenzene	ND	0.10	0.065		ND	0.60	0.39	2	2/16/22 22:10	BRF
Dichlorodifluoromethane (Freon 12)	0.75	0.10	0.098		3.7	0.49	0.48	2	2/16/22 22:10	BRF
1,1-Dichloroethane	0.25	0.10	0.087		1.0	0.40	0.35	2	2/16/22 22:10	BRF
1,2-Dichloroethane	0.20	0.10	0.091		0.79	0.40	0.37	2	2/16/22 22:10	BRF
1,1-Dichloroethylene	ND	0.10	0.076		ND	0.40	0.30	2	2/16/22 22:10	BRF
cis-1,2-Dichloroethylene	ND	0.10	0.073		ND	0.40	0.29	2	2/16/22 22:10	BRF
trans-1,2-Dichloroethylene	ND	0.10	0.079		ND	0.40	0.31	2	2/16/22 22:10	BRF
1,2-Dichloropropane	ND	0.10	0.054		ND	0.46	0.25	2	2/16/22 22:10	BRF
cis-1,3-Dichloropropene	ND	0.10	0.052		ND	0.45	0.24	2	2/16/22 22:10	BRF
trans-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	2/16/22 22:10	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098		ND	0.70	0.69	2	2/16/22 22:10	BRF
1,4-Dioxane	ND	1.0	0.083		ND	3.6	0.30	2	2/16/22 22:10	BRF
Ethanol	24	4.0	1.8		45	7.5	3.3	2	2/16/22 22:10	BRF
Ethyl Acetate	ND	1.0	0.51	L-03, V-34	ND UJ	3.6	1.8	2	2/16/22 22:10	BRF
Ethylbenzene	0.11	0.10	0.058		0.47	0.43	0.25	2	2/16/22 22:10	BRF
4-Ethyltoluene	ND	0.10	0.061		ND	0.49	0.30	2	2/16/22 22:10	BRF
Heptane	1.1	0.10	0.064		4.7	0.41	0.26	2	2/16/22 22:10	BRF
Hexachlorobutadiene	ND	0.10	0.082		ND	1.1	0.88	2	2/16/22 22:10	BRF
Hexane	3.1	4.0	0.52	J	11	14	1.8	2	2/16/22 22:10	BRF
2-Hexanone (MBK)	ND	0.20	0.050		ND UJ	0.82	0.21	2	2/16/22 22:10	BRF
Isopropanol	2.0	4.0	0.69	J	5.0	9.8	1.7	2	2/16/22 22:10	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.077		ND	0.36	0.28	2	2/16/22 22:10	BRF
Methylene Chloride	ND	1.0	0.46		ND	3.5	1.6	2	2/16/22 22:10	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.051		ND	0.41	0.21	2	2/16/22 22:10	BRF
Naphthalene	ND	0.10	0.063		ND	0.52	0.33	2	2/16/22 22:10	BRF
Propene	ND	4.0	0.88		ND	6.9	1.5	2	2/16/22 22:10	BRF
Styrene	ND	0.10	0.053		ND	0.43	0.22	2	2/16/22 22:10	BRF
1,1,2,2-Tetrachloroethane	ND	0.10	0.054		ND	0.69	0.37	2	2/16/22 22:10	BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/8/2022
Field Sample #: 224121-SSB-128
Sample ID: 22B0445-03
 Sample Matrix: Sub Slab
 Sampled: 2/7/2022 07:42

Sample Description/Location: H-126
 Sub Description/Location:
 Canister ID: 1697
 Canister Size: 6 liter
 Flow Controller ID: 4642
 Sample Type: 8 hr

Work Order: 22B0445
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -8.5
 Receipt Vacuum(in Hg): -8.5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	0.088	0.10	0.076	J	0.60	0.68	0.52	2	2/16/22 22:10	BRF
Tetrahydrofuran	ND	1.0	0.16		ND	2.9	0.48	2	2/16/22 22:10	BRF
Toluene	1.9	0.10	0.057		7.0	0.38	0.22	2	2/16/22 22:10	BRF
1,2,4-Trichlorobenzene	ND	0.20	0.070	L-03, V-04	ND UJ	1.5	0.52	2	2/16/22 22:10	BRF
1,1,1-Trichloroethane	5.0	0.10	0.079		27	0.55	0.43	2	2/16/22 22:10	BRF
1,1,2-Trichloroethane	ND	0.10	0.070		ND	0.55	0.38	2	2/16/22 22:10	BRF
Trichloroethylene	0.090	0.10	0.067	J	0.48	0.54	0.36	2	2/16/22 22:10	BRF
Trichlorofluoromethane (Freon 11)	0.51	0.40	0.12		2.9	2.2	0.66	2	2/16/22 22:10	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	0.11		ND	3.1	0.85	2	2/16/22 22:10	BRF
1,2,4-Trimethylbenzene	ND	0.10	0.044		ND	0.49	0.22	2	2/16/22 22:10	BRF
1,3,5-Trimethylbenzene	ND	0.10	0.053		ND	0.49	0.26	2	2/16/22 22:10	BRF
Vinyl Acetate	ND	2.0	0.54	V-05	ND UJ	7.0	1.9	2	2/16/22 22:10	BRF
Vinyl Chloride	0.61	0.10	0.090		1.5	0.26	0.23	2	2/16/22 22:10	BRF
m&p-Xylene	0.15	0.20	0.11	J	0.63	0.87	0.49	2	2/16/22 22:10	BRF
o-Xylene	0.074	0.10	0.051	J	0.32	0.43	0.22	2	2/16/22 22:10	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	92.1	70-130	2/16/22 22:10

ALH 2/28/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/8/2022
Field Sample #: FD-020722-1
Sample ID: 22B0445-04
 Sample Matrix: Air
 Sampled: 2/7/2022 00:00

Sample Description/Location: H-126
 Sub Description/Location:
 Canister ID: 1722
 Canister Size: 6 liter
 Flow Controller ID: 4642
 Sample Type: 8 hr

Work Order: 22B0445
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -8.5
 Receipt Vacuum(in Hg): -8.5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	20	1.4	0.84		47	3.3	2.0	0.698	2/16/22 16:55		BRF
Benzene	4.0	0.035	0.026		13	0.11	0.084	0.698	2/16/22 16:55		BRF
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.698	2/16/22 16:55		BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	2/16/22 16:55		BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	2/16/22 16:55		BRF
Bromomethane	0.077	0.035	0.028		0.30	0.14	0.11	0.698	2/16/22 16:55		BRF
1,3-Butadiene	1.6	0.035	0.029		3.6	0.077	0.065	0.698	2/16/22 16:55		BRF
2-Butanone (MEK)	1.6	1.4	0.37		4.6	4.1	1.1	0.698	2/16/22 16:55		BRF
Carbon Disulfide	2.0	0.35	0.032		6.4	1.1	0.10	0.698	2/16/22 16:55		BRF
Carbon Tetrachloride	0.10	0.035	0.028		0.66	0.22	0.17	0.698	2/16/22 16:55		BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	2/16/22 16:55		BRF
Chloroethane	6.5	0.035	0.025		17	0.092	0.067	0.698	2/16/22 16:55		BRF
Chloroform	1.0	0.035	0.033		4.9	0.17	0.16	0.698	2/16/22 16:55		BRF
Chloromethane	0.92	0.070	0.028		1.9 J	0.14	0.057	0.698	2/16/22 16:55		BRF
Cyclohexane	1.8	0.035	0.023		6.0	0.12	0.079	0.698	2/16/22 16:55		BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	2/16/22 16:55		BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	2/16/22 16:55		BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	2/16/22 16:55		BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	2/16/22 16:55		BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	2/16/22 16:55		BRF
Dichlorodifluoromethane (Freon 12)	0.72	0.035	0.034		3.6	0.17	0.17	0.698	2/16/22 16:55		BRF
1,1-Dichloroethane	0.24	0.035	0.030		0.96	0.14	0.12	0.698	2/16/22 16:55		BRF
1,2-Dichloroethane	0.24	0.035	0.032		0.95	0.14	0.13	0.698	2/16/22 16:55		BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	2/16/22 16:55		BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	2/16/22 16:55		BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	2/16/22 16:55		BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	2/16/22 16:55		BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	2/16/22 16:55		BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	2/16/22 16:55		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	2/16/22 16:55		BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	2/16/22 16:55		BRF
Ethanol	25	1.4	0.62		47	2.6	1.2	0.698	2/16/22 16:55		BRF
Ethyl Acetate	ND	0.35	0.18	L-03, V-34	ND UJ	1.3	0.64	0.698	2/16/22 16:55		BRF
Ethylbenzene	0.11	0.035	0.020		0.49	0.15	0.088	0.698	2/16/22 16:55		BRF
4-Ethyltoluene	ND	0.035	0.021		ND	0.17	0.11	0.698	2/16/22 16:55		BRF
Heptane	1.1	0.035	0.022		4.6	0.14	0.091	0.698	2/16/22 16:55		BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	2/16/22 16:55		BRF
Hexane	2.8	1.4	0.18		10.0	4.9	0.64	0.698	2/16/22 16:55		BRF
2-Hexanone (MBK)	ND	0.070	0.018		ND UJ	0.29	0.072	0.698	2/16/22 16:55		BRF
Isopropanol	2.1	1.4	0.24		5.1	3.4	0.59	0.698	2/16/22 16:55		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	2/16/22 16:55		BRF
Methylene Chloride	0.27	0.35	0.16	J	0.92	1.2	0.56	0.698	2/16/22 16:55		BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	2/16/22 16:55		BRF
Naphthalene	ND	0.035	0.022		ND	0.18	0.12	0.698	2/16/22 16:55		BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	2/16/22 16:55		BRF
Styrene	ND	0.035	0.018		ND	0.15	0.078	0.698	2/16/22 16:55		BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	2/16/22 16:55		BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/8/2022
Field Sample #: FD-020722-1
Sample ID: 22B0445-04
 Sample Matrix: Air
 Sampled: 2/7/2022 00:00

Sample Description/Location: H-126
 Sub Description/Location:
 Canister ID: 1722
 Canister Size: 6 liter
 Flow Controller ID: 4642
 Sample Type: 8 hr

Work Order: 22B0445
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -8.5
 Receipt Vacuum(in Hg): -8.5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	0.089	0.035	0.027	L-03, V-04	0.60	0.24	0.18	0.698	2/16/22 16:55	BRF
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	2/16/22 16:55	BRF
Toluene	1.8	0.035	0.020		6.7	0.13	0.075	0.698	2/16/22 16:55	BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024		ND UJ	0.52	0.18	0.698	2/16/22 16:55	BRF
1,1,1-Trichloroethane	4.8	0.035	0.027		26	0.19	0.15	0.698	2/16/22 16:55	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	2/16/22 16:55	BRF
Trichloroethylene	0.077	0.035	0.024	J	0.42	0.19	0.13	0.698	2/16/22 16:55	BRF
Trichlorofluoromethane (Freon 11)	0.49	0.14	0.041		2.8	0.78	0.23	0.698	2/16/22 16:55	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.075	0.14	0.039		0.57	1.1	0.30	0.698	2/16/22 16:55	BRF
1,2,4-Trimethylbenzene	ND	0.035	0.015		ND	0.17	0.076	0.698	2/16/22 16:55	BRF
1,3,5-Trimethylbenzene	ND	0.035	0.018		ND	0.17	0.091	0.698	2/16/22 16:55	BRF
Vinyl Acetate	ND	0.70	0.19		V-05	ND UJ	2.5	0.66	0.698	2/16/22 16:55
Vinyl Chloride	0.56	0.035	0.031		1.4	0.089	0.080	0.698	2/16/22 16:55	BRF
m&p-Xylene	0.15	0.070	0.039		0.64	0.30	0.17	0.698	2/16/22 16:55	BRF
o-Xylene	0.087	0.035	0.018		0.38	0.15	0.078	0.698	2/16/22 16:55	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	94.0	70-130	2/16/22 16:55

ALH 2/28/22

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/8/2022
Field Sample #: 224121-IAB-128
Sample ID: 22B0445-05
 Sample Matrix: Indoor air
 Sampled: 2/7/2022 07:44

Sample Description/Location: H-126
 Sub Description/Location:
 Canister ID: 1955
 Canister Size: 6 liter
 Flow Controller ID: 3634
 Sample Type: 8 hr

Work Order: 22B0445
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -8.1
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed		
Acetone	5.5	1.4	0.84			13 J	3.3	2.0	0.698	2/16/22 17:26	BRF
Benzene	6.2	0.035	0.026			20	0.11	0.084	0.698	2/16/22 17:26	BRF
Benzyl chloride	ND	0.035	0.031			ND	0.18	0.16	0.698	2/16/22 17:26	BRF
Bromodichloromethane	ND	0.035	0.024			ND	0.23	0.16	0.698	2/16/22 17:26	BRF
Bromoform	ND	0.035	0.024			ND	0.36	0.25	0.698	2/16/22 17:26	BRF
Bromomethane	ND	0.035	0.028			ND	0.14	0.11	0.698	2/16/22 17:26	BRF
1,3-Butadiene	2.0	0.035	0.029			4.3	0.077	0.065	0.698	2/16/22 17:26	BRF
2-Butanone (MEK)	1.3	1.4	0.37	J		3.8	4.1	1.1	0.698	2/16/22 17:26	BRF
Carbon Disulfide	ND	0.35	0.032			ND	1.1	0.10	0.698	2/16/22 17:26	BRF
Carbon Tetrachloride	0.16	0.035	0.028			0.98	0.22	0.17	0.698	2/16/22 17:26	BRF
Chlorobenzene	ND	0.035	0.023			ND	0.16	0.11	0.698	2/16/22 17:26	BRF
Chloroethane	ND	0.035	0.025			ND	0.092	0.067	0.698	2/16/22 17:26	BRF
Chloroform	1.3	0.035	0.033			6.3	0.17	0.16	0.698	2/16/22 17:26	BRF
Chloromethane	0.57	0.070	0.028			1.2	0.14	0.057	0.698	2/16/22 17:26	BRF
Cyclohexane	2.1	0.035	0.023			7.3	0.12	0.079	0.698	2/16/22 17:26	BRF
Dibromochloromethane	ND	0.035	0.023			ND	0.30	0.20	0.698	2/16/22 17:26	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021			ND	0.27	0.16	0.698	2/16/22 17:26	BRF
1,2-Dichlorobenzene	ND	0.035	0.020			ND	0.21	0.12	0.698	2/16/22 17:26	BRF
1,3-Dichlorobenzene	ND	0.035	0.019			ND	0.21	0.12	0.698	2/16/22 17:26	BRF
1,4-Dichlorobenzene	0.036	0.035	0.023			0.21	0.21	0.14	0.698	2/16/22 17:26	BRF
Dichlorodifluoromethane (Freon 12)	0.46	0.035	0.034			2.3	0.17	0.17	0.698	2/16/22 17:26	BRF
1,1-Dichloroethane	ND	0.035	0.030			ND	0.14	0.12	0.698	2/16/22 17:26	BRF
1,2-Dichloroethane	ND	0.035	0.032			ND	0.14	0.13	0.698	2/16/22 17:26	BRF
1,1-Dichloroethylene	ND	0.035	0.027			ND	0.14	0.11	0.698	2/16/22 17:26	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025			ND	0.14	0.10	0.698	2/16/22 17:26	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027			ND	0.14	0.11	0.698	2/16/22 17:26	BRF
1,2-Dichloropropane	ND	0.035	0.019			ND	0.16	0.087	0.698	2/16/22 17:26	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018			ND	0.16	0.082	0.698	2/16/22 17:26	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018			ND	0.16	0.081	0.698	2/16/22 17:26	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034			ND	0.24	0.24	0.698	2/16/22 17:26	BRF
1,4-Dioxane	ND	0.35	0.029			ND	1.3	0.10	0.698	2/16/22 17:26	BRF
Ethanol	110	8.0	3.5			220	15	6.6	4	2/17/22 16:11	BRF
Ethyl Acetate	1.6	0.35	0.18	L-03, V-34		5.8 J	1.3	0.64	0.698	2/16/22 17:26	BRF
Ethylbenzene	2.7	0.035	0.020			12	0.15	0.088	0.698	2/16/22 17:26	BRF
4-Ethyltoluene	0.58	0.035	0.021			2.9	0.17	0.11	0.698	2/16/22 17:26	BRF
Heptane	1.9	0.035	0.022			8.0	0.14	0.091	0.698	2/16/22 17:26	BRF
Hexachlorobutadiene	ND	0.035	0.029			ND	0.37	0.31	0.698	2/16/22 17:26	BRF
Hexane	3.5	1.4	0.18			12	4.9	0.64	0.698	2/16/22 17:26	BRF
2-Hexanone (MBK)	ND	0.070	0.018			ND UJ	0.29	0.072	0.698	2/16/22 17:26	BRF
Isopropanol	13	1.4	0.24			31	3.4	0.59	0.698	2/16/22 17:26	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027			ND	0.13	0.097	0.698	2/16/22 17:26	BRF
Methylene Chloride	0.26	0.35	0.16	J		0.91	1.2	0.56	0.698	2/16/22 17:26	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018			ND	0.14	0.073	0.698	2/16/22 17:26	BRF
Naphthalene	0.27	0.035	0.022			1.4	0.18	0.12	0.698	2/16/22 17:26	BRF
Propene	ND	1.4	0.31			ND	2.4	0.53	0.698	2/16/22 17:26	BRF
Styrene	2.0	0.035	0.018			8.5	0.15	0.078	0.698	2/16/22 17:26	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019			ND	0.24	0.13	0.698	2/16/22 17:26	BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdow
 Date Received: 2/8/2022
Field Sample #: 224121-IAB-128
Sample ID: 22B0445-05
 Sample Matrix: Indoor air
 Sampled: 2/7/2022 07:44

Sample Description/Location: H-126
 Sub Description/Location:
 Canister ID: 1955
 Canister Size: 6 liter
 Flow Controller ID: 3634
 Sample Type: 8 hr

Work Order: 22B0445
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -8.1
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	Analyst
Tetrachloroethylene	0.087	0.035	0.027	L-03, V-04	0.59	0.24	0.18	0.698	2/16/22 17:26	BRF
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	2/16/22 17:26	BRF
Toluene	12	0.035	0.020		45	0.13	0.075	0.698	2/16/22 17:26	BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024		ND UJ	0.52	0.18	0.698	2/16/22 17:26	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	2/16/22 17:26	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	2/16/22 17:26	BRF
Trichloroethylene	ND	0.035	0.024	J	ND	0.19	0.13	0.698	2/16/22 17:26	BRF
Trichlorofluoromethane (Freon 11)	0.29	0.14	0.041		1.6	0.78	0.23	0.698	2/16/22 17:26	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.076	0.14	0.039		0.58	1.1	0.30	0.698	2/16/22 17:26	BRF
1,2,4-Trimethylbenzene	1.9	0.035	0.015		9.4	0.17	0.076	0.698	2/16/22 17:26	BRF
1,3,5-Trimethylbenzene	0.56	0.035	0.018		2.7	0.17	0.091	0.698	2/16/22 17:26	BRF
Vinyl Acetate	ND	0.70	0.19		V-05	ND UJ	2.5	0.66	0.698	2/16/22 17:26
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	2/16/22 17:26	BRF
m&p-Xylene	9.0	0.070	0.039		39	0.30	0.17	0.698	2/16/22 17:26	BRF
o-Xylene	3.2	0.035	0.018		14	0.15	0.078	0.698	2/16/22 17:26	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	95.0	70-130	2/16/22 17:26
4-Bromofluorobenzene (1)	95.2	70-130	2/17/22 16:11

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/8/2022
Field Sample #: FD-020722-2
Sample ID: 22B0445-06
 Sample Matrix: Air
 Sampled: 2/7/2022 00:00

Sample Description/Location: H-126
 Sub Description/Location:
 Canister ID: 1971
 Canister Size: 6 liter
 Flow Controller ID: 3697
 Sample Type: 8 hr

Work Order: 22B0445
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	Analyst
Acetone	9.8	1.4	0.84		23 J	3.3	2.0	0.698	2/16/22 17:57	BRF
Benzene	6.1	0.035	0.026		20	0.11	0.084	0.698	2/16/22 17:57	BRF
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.698	2/16/22 17:57	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	2/16/22 17:57	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	2/16/22 17:57	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	2/16/22 17:57	BRF
1,3-Butadiene	1.8	0.035	0.029		4.0	0.077	0.065	0.698	2/16/22 17:57	BRF
2-Butanone (MEK)	1.3	1.4	0.37	J	3.7	4.1	1.1	0.698	2/16/22 17:57	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	2/16/22 17:57	BRF
Carbon Tetrachloride	0.17	0.035	0.028		1.1	0.22	0.17	0.698	2/16/22 17:57	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	2/16/22 17:57	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	2/16/22 17:57	BRF
Chloroform	1.3	0.035	0.033		6.4	0.17	0.16	0.698	2/16/22 17:57	BRF
Chloromethane	0.53	0.070	0.028		1.1	0.14	0.057	0.698	2/16/22 17:57	BRF
Cyclohexane	2.1	0.035	0.023		7.3	0.12	0.079	0.698	2/16/22 17:57	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	2/16/22 17:57	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	2/16/22 17:57	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	2/16/22 17:57	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	2/16/22 17:57	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	2/16/22 17:57	BRF
Dichlorodifluoromethane (Freon 12)	0.46	0.035	0.034		2.3	0.17	0.17	0.698	2/16/22 17:57	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	2/16/22 17:57	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	2/16/22 17:57	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	2/16/22 17:57	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	2/16/22 17:57	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	2/16/22 17:57	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	2/16/22 17:57	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	2/16/22 17:57	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	2/16/22 17:57	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	2/16/22 17:57	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	2/16/22 17:57	BRF
Ethanol	120	8.0	3.5		220	15	6.6	4	2/17/22 16:35	BRF
Ethyl Acetate	1.7	0.35	0.18	L-03, V-34	6.0 J	1.3	0.64	0.698	2/16/22 17:57	BRF
Ethylbenzene	2.8	0.035	0.020		12	0.15	0.088	0.698	2/16/22 17:57	BRF
4-Ethyltoluene	0.60	0.035	0.021		3.0	0.17	0.11	0.698	2/16/22 17:57	BRF
Heptane	1.9	0.035	0.022		7.9	0.14	0.091	0.698	2/16/22 17:57	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	2/16/22 17:57	BRF
Hexane	3.3	1.4	0.18		12	4.9	0.64	0.698	2/16/22 17:57	BRF
2-Hexanone (MBK)	ND	0.070	0.018		ND UJ	0.29	0.072	0.698	2/16/22 17:57	BRF
Isopropanol	12	1.4	0.24		29	3.4	0.59	0.698	2/16/22 17:57	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	2/16/22 17:57	BRF
Methylene Chloride	0.28	0.35	0.16	J	0.98	1.2	0.56	0.698	2/16/22 17:57	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	2/16/22 17:57	BRF
Naphthalene	0.24	0.035	0.022		1.3	0.18	0.12	0.698	2/16/22 17:57	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	2/16/22 17:57	BRF
Styrene	2.0	0.035	0.018		8.4	0.15	0.078	0.698	2/16/22 17:57	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	2/16/22 17:57	BRF

ALH 2/28/22

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/8/2022
Field Sample #: FD-020722-2
Sample ID: 22B0445-06
 Sample Matrix: Air
 Sampled: 2/7/2022 00:00

Sample Description/Location: H-126
 Sub Description/Location:
 Canister ID: 1971
 Canister Size: 6 liter
 Flow Controller ID: 3697
 Sample Type: 8 hr

Work Order: 22B0445
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	0.11	0.035	0.027	L-03, V-04	0.74	0.24	0.18	0.698	2/16/22 17:57	BRF
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	2/16/22 17:57	BRF
Toluene	12	0.035	0.020		44	0.13	0.075	0.698	2/16/22 17:57	BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024		ND UJ	0.52	0.18	0.698	2/16/22 17:57	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	2/16/22 17:57	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	2/16/22 17:57	BRF
Trichloroethylene	ND	0.035	0.024	J	ND	0.19	0.13	0.698	2/16/22 17:57	BRF
Trichlorofluoromethane (Freon 11)	0.27	0.14	0.041		1.5	0.78	0.23	0.698	2/16/22 17:57	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.068	0.14	0.039		0.52	1.1	0.30	0.698	2/16/22 17:57	BRF
1,2,4-Trimethylbenzene	1.9	0.035	0.015		9.5	0.17	0.076	0.698	2/16/22 17:57	BRF
1,3,5-Trimethylbenzene	0.57	0.035	0.018		2.8	0.17	0.091	0.698	2/16/22 17:57	BRF
Vinyl Acetate	ND	0.70	0.19		V-05	ND UJ	2.5	0.66	0.698	2/16/22 17:57
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	2/16/22 17:57	BRF
m&p-Xylene	9.0	0.070	0.039		39	0.30	0.17	0.698	2/16/22 17:57	BRF
o-Xylene	3.2	0.035	0.018		14	0.15	0.078	0.698	2/16/22 17:57	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	93.7	70-130	2/17/22 16:35
4-Bromofluorobenzene (1)	96.4	70-130	2/16/22 17:57

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/8/2022
Field Sample #: 224121-OA-128
Sample ID: 22B0445-07
 Sample Matrix: Ambient Air
 Sampled: 2/7/2022 07:45

Sample Description/Location: H-126
 Sub Description/Location:
 Canister ID: 1828
 Canister Size: 6 liter
 Flow Controller ID: 3638
 Sample Type: 8 hr

Work Order: 22B0445
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -6.8
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	
Acetone	5.8	1.4	0.84		14	3.3	2.0	0.698	2/16/22 18:28	BRF
Benzene	0.64	0.035	0.026		2.0	0.11	0.084	0.698	2/16/22 18:28	BRF
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.698	2/16/22 18:28	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	2/16/22 18:28	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	2/16/22 18:28	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	2/16/22 18:28	BRF
1,3-Butadiene	0.17	0.035	0.029		0.38	0.077	0.065	0.698	2/16/22 18:28	BRF
2-Butanone (MEK)	2.2	1.4	0.37		6.5	4.1	1.1	0.698	2/16/22 18:28	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	2/16/22 18:28	BRF
Carbon Tetrachloride	0.075	0.035	0.028		0.47	0.22	0.17	0.698	2/16/22 18:28	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	2/16/22 18:28	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	2/16/22 18:28	BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	2/16/22 18:28	BRF
Chloromethane	0.57	0.070	0.028		1.2	0.14	0.057	0.698	2/16/22 18:28	BRF
Cyclohexane	0.11	0.035	0.023		0.38	0.12	0.079	0.698	2/16/22 18:28	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	2/16/22 18:28	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	2/16/22 18:28	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	2/16/22 18:28	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	2/16/22 18:28	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	2/16/22 18:28	BRF
Dichlorodifluoromethane (Freon 12)	0.46	0.035	0.034		2.3	0.17	0.17	0.698	2/16/22 18:28	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	2/16/22 18:28	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	2/16/22 18:28	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	2/16/22 18:28	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	2/16/22 18:28	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	2/16/22 18:28	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	2/16/22 18:28	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	2/16/22 18:28	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	2/16/22 18:28	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	2/16/22 18:28	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	2/16/22 18:28	BRF
Ethanol	18	1.4	0.62		34	2.6	1.2	0.698	2/16/22 18:28	BRF
Ethyl Acetate	1.7	0.35	0.18	L-03, V-34	6.1 J	1.3	0.64	0.698	2/16/22 18:28	BRF
Ethylbenzene	1.8	0.035	0.020		7.7	0.15	0.088	0.698	2/16/22 18:28	BRF
4-Ethyltoluene	0.036	0.035	0.021		0.18	0.17	0.11	0.698	2/16/22 18:28	BRF
Heptane	0.21	0.035	0.022		0.86	0.14	0.091	0.698	2/16/22 18:28	BRF
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.698	2/16/22 18:28	BRF
Hexane	0.28	1.4	0.18	J	1.0	4.9	0.64	0.698	2/16/22 18:28	BRF
2-Hexanone (MBK)	ND	0.070	0.018		ND UJ	0.29	0.072	0.698	2/16/22 18:28	BRF
Isopropanol	1.4	1.4	0.24		3.5	3.4	0.59	0.698	2/16/22 18:28	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	2/16/22 18:28	BRF
Methylene Chloride	0.26	0.35	0.16	J	0.90	1.2	0.56	0.698	2/16/22 18:28	BRF
4-Methyl-2-pentanone (MIBK)	0.21	0.035	0.018		0.85	0.14	0.073	0.698	2/16/22 18:28	BRF
Naphthalene	0.039	0.035	0.022		0.20	0.18	0.12	0.698	2/16/22 18:28	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	2/16/22 18:28	BRF
Styrene	0.14	0.035	0.018		0.59	0.15	0.078	0.698	2/16/22 18:28	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	2/16/22 18:28	BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdow
 Date Received: 2/8/2022
Field Sample #: 224121-OA-128
Sample ID: 22B0445-07
 Sample Matrix: Ambient Air
 Sampled: 2/7/2022 07:45

Sample Description/Location: H-126
 Sub Description/Location:
 Canister ID: 1828
 Canister Size: 6 liter
 Flow Controller ID: 3638
 Sample Type: 8 hr

Work Order: 22B0445
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -6.8
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	Analyst
Tetrachloroethylene	0.085	0.035	0.027	L-03, V-04	0.58	0.24	0.18	0.698	2/16/22 18:28	BRF
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	2/16/22 18:28	BRF
Toluene	3.4	0.035	0.020		13	0.13	0.075	0.698	2/16/22 18:28	BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024		ND UJ	0.52	0.18	0.698	2/16/22 18:28	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	2/16/22 18:28	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	2/16/22 18:28	BRF
Trichloroethylene	ND	0.035	0.024	J	ND	0.19	0.13	0.698	2/16/22 18:28	BRF
Trichlorofluoromethane (Freon 11)	0.22	0.14	0.041		1.3	0.78	0.23	0.698	2/16/22 18:28	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.067	0.14	0.039		0.51	1.1	0.30	0.698	2/16/22 18:28	BRF
1,2,4-Trimethylbenzene	0.14	0.035	0.015		0.69	0.17	0.076	0.698	2/16/22 18:28	BRF
1,3,5-Trimethylbenzene	0.040	0.035	0.018		0.20	0.17	0.091	0.698	2/16/22 18:28	BRF
Vinyl Acetate	ND	0.70	0.19		V-05	ND UJ	2.5	0.66	0.698	2/16/22 18:28
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	2/16/22 18:28	BRF
m&p-Xylene	7.0	0.070	0.039		30	0.30	0.17	0.698	2/16/22 18:28	BRF
o-Xylene	1.5	0.035	0.018		6.7	0.15	0.078	0.698	2/16/22 18:28	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	95.3	70-130	2/16/22 18:28

ALH 2/28/22

VALIDATA

Chemical Services, Inc.

2159 Wynnton Pointe, Duluth, GA 30097

(770) 232-0130

(770) 232-5082 (Fax)

www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY: AECOM Technical Services Northeast, Inc.
PROJECT NAME: Meeker Ave. SVI
CONTRACTED LAB: con-test Analytical Laboratory
QA/QC LEVEL: DUSR
ANALYTICAL METHOD(S): EPA Method TO-15
VALIDATION GUIDELINES: USEPA Region II data validation SOP ((VOA-TO15 HW-31 Rev.6, Analysis of VOCs in Air contained in Canisters by Method TO-15, September 2016), Professional Judgment

SAMPLE MATRIX: Air
TYPES OF ANALYSES: Volatile Organic Compounds (VOC)
DATA REVIEWER(S): Amy L. Hogan
SDG NUMBER: 22B0504
SAMPLING DATE(S): February 7, 2022

SAMPLES:

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>VOC</u>
224121-SS-02-09	22B0504-01	X
224121-IA-02-09	22B0504-02	X
224121-SS-27-09	22B0504-03	X
224121-IA-27-09	22B0504-04	X
224121-OA-27-09	22B0504-05	X
224121-SS-16-09	22B0504-06	X
224121-IA-16-09	22B0504-07	X
224121-IA-16-09DL	22B0504-07DL	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Con-test Analytical Laboratory – 22B0504

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per EPA Method TO-15.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The Percent Relative Standard Deviation (%RSD) for the standards analyzed on 8/20/21 on instrument SYSJ was 39.6% for 1,2,4-trichlorobenzene, which exceeded the 30% QC limit. The 1,2,4-trichlorobenzene results for the samples, which consisted entirely of non-detects, were qualified as estimated (UJ).

Initial Calibration Verification:

The Percent Differences (%Ds) for the standards run on 8/21/21 at 02:04 on instrument SYSJ exceeded the 30% QC limit for the following compounds:

Vinyl acetate	-32.9%
Ethyl acetate	34.7%

All positive and non-detect results for these compounds in the SDG samples were qualified as

estimated (J) and (UJ).

Continuing Calibration:

The Percent Differences (%Ds) for the standards run on 2/17/21 at 08:52 on instrument SYSJ exceeded the 30% QC limit for the following compounds:

1,2,4-trichlorobenzene	-33.7%
Vinyl acetate	-47.3%

All positive and non-detect results for these compounds in the SDG samples were qualified as estimated (J) and (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Canister Blanks:

There were no detects in the canister check blanks for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS was analyzed by the laboratory for this SDG. The Percent Recoveries (%Rs) for LCS B301512-BS1 were outside the 70-130% QC limits for the following compounds:

Ethyl acetate	57.4%
Hexachlorobutadiene	61.8%
Isopropanol	64.9%
1,2,4-trichlorobenzene	60.6%

All positive and non-detect results for these compounds in the SDG samples were qualified as estimated (J) and (UJ).

IX.) Matrix Duplicate:

Matrix Duplicate analysis data was not submitted for this SDG. Data qualification based on the absence of MD data was not required. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

The initial analysis ethanol result for sample 2224121-IA-16-09 exceeded the linear calibration range. A dilution analysis was performed for the listed sample with all calibration criteria met. Since the Form I for the sample was a composite of the results, no data qualification was necessary.

All other CRQL criteria were met.

Appendix A

Qualified Form Is

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown

Date Received: 2/9/2022

Field Sample #: 224121-SS-02-09

Sample ID: 22B0504-01

Sample Matrix: Sub Slab

Sampled: 2/7/2022 10:21

Sample Description/Location:

Sub Description/Location:

Canister ID: 1297

Canister Size: 6 liter

Flow Controller ID: 3673

Sample Type: 24 hr

Work Order: 22B0504

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -9

Receipt Vacuum(in Hg): -9.4

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed	Analyst	
Acetone	33	8.0	4.8			78	19	11	4	2/17/22 23:37	BRF
Benzene	ND	0.20	0.15			ND	0.64	0.48	4	2/17/22 23:37	BRF
Benzyl chloride	ND	0.20	0.18			ND	1.0	0.91	4	2/17/22 23:37	BRF
Bromodichloromethane	ND	0.20	0.14			ND	1.3	0.94	4	2/17/22 23:37	BRF
Bromoform	ND	0.20	0.14			ND	2.1	1.4	4	2/17/22 23:37	BRF
Bromomethane	ND	0.20	0.16			ND	0.78	0.63	4	2/17/22 23:37	BRF
1,3-Butadiene	ND	0.20	0.17			ND	0.44	0.37	4	2/17/22 23:37	BRF
2-Butanone (MEK)	9.4	8.0	2.1			28	24	6.3	4	2/17/22 23:37	BRF
Carbon Disulfide	ND	2.0	0.18			ND	6.2	0.58	4	2/17/22 23:37	BRF
Carbon Tetrachloride	ND	0.20	0.16			ND	1.3	1.0	4	2/17/22 23:37	BRF
Chlorobenzene	ND	0.20	0.13			ND	0.92	0.61	4	2/17/22 23:37	BRF
Chloroethane	32	0.20	0.15			84	0.53	0.39	4	2/17/22 23:37	BRF
Chloroform	0.52	0.20	0.19			2.6	0.98	0.93	4	2/17/22 23:37	BRF
Chloromethane	0.54	0.40	0.16			1.1	0.83	0.33	4	2/17/22 23:37	BRF
Cyclohexane	ND	0.20	0.13			ND	0.69	0.46	4	2/17/22 23:37	BRF
Dibromochloromethane	ND	0.20	0.13			ND	1.7	1.1	4	2/17/22 23:37	BRF
1,2-Dibromoethane (EDB)	ND	0.20	0.12			ND	1.5	0.93	4	2/17/22 23:37	BRF
1,2-Dichlorobenzene	ND	0.20	0.11			ND	1.2	0.69	4	2/17/22 23:37	BRF
1,3-Dichlorobenzene	ND	0.20	0.11			ND	1.2	0.67	4	2/17/22 23:37	BRF
1,4-Dichlorobenzene	ND	0.20	0.13			ND	1.2	0.79	4	2/17/22 23:37	BRF
Dichlorodifluoromethane (Freon 12)	0.38	0.20	0.20			1.9	0.99	0.97	4	2/17/22 23:37	BRF
1,1-Dichloroethane	1.5	0.20	0.17			5.9	0.81	0.71	4	2/17/22 23:37	BRF
1,2-Dichloroethane	1.2	0.20	0.18			4.7	0.81	0.73	4	2/17/22 23:37	BRF
1,1-Dichloroethylene	ND	0.20	0.15			ND	0.79	0.60	4	2/17/22 23:37	BRF
cis-1,2-Dichloroethylene	ND	0.20	0.15			ND	0.79	0.58	4	2/17/22 23:37	BRF
trans-1,2-Dichloroethylene	ND	0.20	0.16			ND	0.79	0.62	4	2/17/22 23:37	BRF
1,2-Dichloropropane	ND	0.20	0.11			ND	0.92	0.50	4	2/17/22 23:37	BRF
cis-1,3-Dichloropropene	ND	0.20	0.10			ND	0.91	0.47	4	2/17/22 23:37	BRF
trans-1,3-Dichloropropene	ND	0.20	0.10			ND	0.91	0.46	4	2/17/22 23:37	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.20	0.20			ND	1.4	1.4	4	2/17/22 23:37	BRF
1,4-Dioxane	ND	2.0	0.17			ND	7.2	0.60	4	2/17/22 23:37	BRF
Ethanol	37	8.0	3.5			70	15	6.6	4	2/17/22 23:37	BRF
Ethyl Acetate	3.8	2.0	1.0	L-03, V-34		14 J	7.2	3.6	4	2/17/22 23:37	BRF
Ethylbenzene	ND	0.20	0.12			ND	0.87	0.51	4	2/17/22 23:37	BRF
4-Ethyltoluene	0.14	0.20	0.12	J		0.69	0.98	0.60	4	2/17/22 23:37	BRF
Heptane	1.0	0.20	0.13			4.1	0.82	0.52	4	2/17/22 23:37	BRF
Hexachlorobutadiene	ND	0.20	0.16	L-03		ND UJ	2.1	1.8	4	2/17/22 23:37	BRF
Hexane	1.2	8.0	1.0	J		4.2	28	3.7	4	2/17/22 23:37	BRF
2-Hexanone (MBK)	ND	0.40	0.10			ND	1.6	0.41	4	2/17/22 23:37	BRF
Isopropanol	7.2	8.0	1.4	L-03, J		18 J	20	3.4	4	2/17/22 23:37	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.20	0.15			ND	0.72	0.56	4	2/17/22 23:37	BRF
Methylene Chloride	ND	2.0	0.93			ND	6.9	3.2	4	2/17/22 23:37	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.20	0.10			ND	0.82	0.42	4	2/17/22 23:37	BRF
Naphthalene	ND	0.20	0.13			ND	1.0	0.66	4	2/17/22 23:37	BRF
Propene	ND	8.0	1.8			ND	14	3.0	4	2/17/22 23:37	BRF
Styrene	ND	0.20	0.11			ND	0.85	0.45	4	2/17/22 23:37	BRF
1,1,2,2-Tetrachloroethane	ND	0.20	0.11			ND	1.4	0.74	4	2/17/22 23:37	BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/9/2022
Field Sample #: 224121-SS-02-09
Sample ID: 22B0504-01
 Sample Matrix: Sub Slab
 Sampled: 2/7/2022 10:21

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1297
 Canister Size: 6 liter
 Flow Controller ID: 3673
 Sample Type: 24 hr

Work Order: 22B0504
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -9.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL	Results		RL	MDL	Analyzed				
Tetrachloroethylene	0.16	0.20	0.15	J	1.1	1.4	1.0	4	2/17/22 23:37		BRF	
Tetrahydrofuran	0.94	2.0	0.33	J	2.8	5.9	0.97	4	2/17/22 23:37		BRF	
Toluene	0.62	0.20	0.11		2.3	0.75	0.43	4	2/17/22 23:37		BRF	
1,2,4-Trichlorobenzene	ND	0.40	0.14	V-04, V-05, L-03	ND UJ	3.0	1.0	4	2/17/22 23:37		BRF	
1,1,1-Trichloroethane	ND	0.20	0.16		ND	1.1	0.86	4	2/17/22 23:37		BRF	
1,1,2-Trichloroethane	ND	0.20	0.14		ND	1.1	0.77	4	2/17/22 23:37		BRF	
Trichloroethylene	ND	0.20	0.13		ND	1.1	0.72	4	2/17/22 23:37		BRF	
Trichlorofluoromethane (Freon 11)	ND	0.80	0.24		ND	4.5	1.3	4	2/17/22 23:37		BRF	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.80	0.22		ND	6.1	1.7	4	2/17/22 23:37		BRF	
1,2,4-Trimethylbenzene	2.6	0.20	0.088		13	0.98	0.43	4	2/17/22 23:37		BRF	
1,3,5-Trimethylbenzene	1.3	0.20	0.11		6.2	0.98	0.52	4	2/17/22 23:37		BRF	
Vinyl Acetate	ND	4.0	1.1	V-05	ND UJ	14	3.8	4	2/17/22 23:37		BRF	
Vinyl Chloride	2.1	0.20	0.18		5.4	0.51	0.46	4	2/17/22 23:37		BRF	
m&p-Xylene	ND	0.40	0.22		ND	1.7	0.97	4	2/17/22 23:37		BRF	
o-Xylene	ND	0.20	0.10		ND	0.87	0.44	4	2/17/22 23:37		BRF	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	99.7	70-130	2/17/22 23:37

ALH 2/28/22

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown

Date Received: 2/9/2022

Field Sample #: 224121-IA-02-09

Sample ID: 22B0504-02

Sample Matrix: Indoor air

Sampled: 2/7/2022 10:22

Sample Description/Location:

Sub Description/Location:

Canister ID: 1085

Canister Size: 6 liter

Flow Controller ID: 3104

Sample Type: 24 hr

Work Order: 22B0504

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -8.5

Receipt Vacuum(in Hg): -7.8

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	
Acetone	7.1	1.4	0.84		17	3.3	2.0	0.698	2/17/22 18:19	BRF
Benzene	0.44	0.035	0.026		1.4	0.11	0.084	0.698	2/17/22 18:19	BRF
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.698	2/17/22 18:19	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	2/17/22 18:19	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	2/17/22 18:19	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	2/17/22 18:19	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	2/17/22 18:19	BRF
2-Butanone (MEK)	0.60	1.4	0.37	J	1.8	4.1	1.1	0.698	2/17/22 18:19	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	2/17/22 18:19	BRF
Carbon Tetrachloride	0.062	0.035	0.028		0.39	0.22	0.17	0.698	2/17/22 18:19	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	2/17/22 18:19	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	2/17/22 18:19	BRF
Chloroform	0.052	0.035	0.033		0.26	0.17	0.16	0.698	2/17/22 18:19	BRF
Chloromethane	0.48	0.070	0.028		1.0	0.14	0.057	0.698	2/17/22 18:19	BRF
Cyclohexane	0.15	0.035	0.023		0.51	0.12	0.079	0.698	2/17/22 18:19	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	2/17/22 18:19	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	2/17/22 18:19	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	2/17/22 18:19	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	2/17/22 18:19	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	2/17/22 18:19	BRF
Dichlorodifluoromethane (Freon 12)	0.42	0.035	0.034		2.1	0.17	0.17	0.698	2/17/22 18:19	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	2/17/22 18:19	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	2/17/22 18:19	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	2/17/22 18:19	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	2/17/22 18:19	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	2/17/22 18:19	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	2/17/22 18:19	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	2/17/22 18:19	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	2/17/22 18:19	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	2/17/22 18:19	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	2/17/22 18:19	BRF
Ethanol	16	1.4	0.62		29	2.6	1.2	0.698	2/17/22 18:19	BRF
Ethyl Acetate	0.22	0.35	0.18	L-03, V-34, J	0.79 J	1.3	0.64	0.698	2/17/22 18:19	BRF
Ethylbenzene	0.19	0.035	0.020		0.81	0.15	0.088	0.698	2/17/22 18:19	BRF
4-Ethyltoluene	0.072	0.035	0.021		0.35	0.17	0.11	0.698	2/17/22 18:19	BRF
Heptane	0.20	0.035	0.022		0.81	0.14	0.091	0.698	2/17/22 18:19	BRF
Hexachlorobutadiene	ND	0.035	0.029	L-03	ND UJ	0.37	0.31	0.698	2/17/22 18:19	BRF
Hexane	0.41	1.4	0.18	J	1.4	4.9	0.64	0.698	2/17/22 18:19	BRF
2-Hexanone (MBK)	ND	0.070	0.018		ND	0.29	0.072	0.698	2/17/22 18:19	BRF
Isopropanol	1.6	1.4	0.24	L-03	3.9 J	3.4	0.59	0.698	2/17/22 18:19	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	2/17/22 18:19	BRF
Methylene Chloride	0.34	0.35	0.16	J	1.2	1.2	0.56	0.698	2/17/22 18:19	BRF
4-Methyl-2-pentanone (MIBK)	0.097	0.035	0.018		0.40	0.14	0.073	0.698	2/17/22 18:19	BRF
Naphthalene	0.028	0.035	0.022	J	0.15	0.18	0.12	0.698	2/17/22 18:19	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	2/17/22 18:19	BRF
Styrene	0.12	0.035	0.018		0.52	0.15	0.078	0.698	2/17/22 18:19	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	2/17/22 18:19	BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown

Date Received: 2/9/2022

Field Sample #: 224121-IA-02-09

Sample ID: 22B0504-02

Sample Matrix: Indoor air

Sampled: 2/7/2022 10:22

Sample Description/Location:

Sub Description/Location:

Canister ID: 1085

Canister Size: 6 liter

Flow Controller ID: 3104

Sample Type: 24 hr

Work Order: 22B0504

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -8.5

Receipt Vacuum(in Hg): -7.8

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed		
Tetrachloroethylene	0.15	0.035	0.027			1.0	0.24	0.18	0.698	2/17/22 18:19	BRF
Tetrahydrofuran	0.29	0.35	0.057	J		0.86	1.0	0.17	0.698	2/17/22 18:19	BRF
Toluene	0.93	0.035	0.020			3.5	0.13	0.075	0.698	2/17/22 18:19	BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024	L-03, V-04, V-05	ND UJ	0.52	0.18	0.698	2/17/22 18:19	BRF	
1,1,1-Trichloroethane	ND	0.035	0.027			ND	0.19	0.15	0.698	2/17/22 18:19	BRF
1,1,2-Trichloroethane	ND	0.035	0.025			ND	0.19	0.13	0.698	2/17/22 18:19	BRF
Trichloroethylene	ND	0.035	0.024			ND	0.19	0.13	0.698	2/17/22 18:19	BRF
Trichlorofluoromethane (Freon 11)	0.19	0.14	0.041			1.1	0.78	0.23	0.698	2/17/22 18:19	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.059	0.14	0.039	J		0.45	1.1	0.30	0.698	2/17/22 18:19	BRF
1,2,4-Trimethylbenzene	0.26	0.035	0.015			1.3	0.17	0.076	0.698	2/17/22 18:19	BRF
1,3,5-Trimethylbenzene	0.083	0.035	0.018			0.41	0.17	0.091	0.698	2/17/22 18:19	BRF
Vinyl Acetate	ND	0.70	0.19	V-05	ND UJ	2.5	0.66	0.698	2/17/22 18:19	BRF	
Vinyl Chloride	ND	0.035	0.031			ND	0.089	0.080	0.698	2/17/22 18:19	BRF
m&p-Xylene	0.66	0.070	0.039			2.9	0.30	0.17	0.698	2/17/22 18:19	BRF
o-Xylene	0.22	0.035	0.018			0.97	0.15	0.078	0.698	2/17/22 18:19	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	96.0	70-130	2/17/22 18:19

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/9/2022
Field Sample #: 224121-SS-27-09
Sample ID: 22B0504-03
 Sample Matrix: Sub Slab
 Sampled: 2/7/2022 12:09

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1930
 Canister Size: 6 liter
 Flow Controller ID: 3609
 Sample Type: 24 hr

Work Order: 22B0504
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -9.3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed		
Acetone	14	4.0	2.4			33	9.5	5.7	2	2/17/22 23:11	BRF
Benzene	ND	0.10	0.076			ND	0.32	0.24	2	2/17/22 23:11	BRF
Benzyl chloride	ND	0.10	0.088			ND	0.52	0.46	2	2/17/22 23:11	BRF
Bromodichloromethane	ND	0.10	0.070			ND	0.67	0.47	2	2/17/22 23:11	BRF
Bromoform	ND	0.10	0.068			ND	1.0	0.70	2	2/17/22 23:11	BRF
Bromomethane	ND	0.10	0.082			ND	0.39	0.32	2	2/17/22 23:11	BRF
1,3-Butadiene	ND	0.10	0.084			ND	0.22	0.19	2	2/17/22 23:11	BRF
2-Butanone (MEK)	7.5	4.0	1.1			22	12	3.1	2	2/17/22 23:11	BRF
Carbon Disulfide	0.14	1.0	0.092	J		0.42	3.1	0.29	2	2/17/22 23:11	BRF
Carbon Tetrachloride	ND	0.10	0.080			ND	0.63	0.50	2	2/17/22 23:11	BRF
Chlorobenzene	ND	0.10	0.066			ND	0.46	0.31	2	2/17/22 23:11	BRF
Chloroethane	20	0.10	0.073			52	0.26	0.19	2	2/17/22 23:11	BRF
Chloroform	0.41	0.10	0.095			2.0	0.49	0.46	2	2/17/22 23:11	BRF
Chloromethane	0.48	0.20	0.079			0.99	0.41	0.16	2	2/17/22 23:11	BRF
Cyclohexane	ND	0.10	0.066			ND	0.34	0.23	2	2/17/22 23:11	BRF
Dibromochloromethane	ND	0.10	0.066			ND	0.85	0.56	2	2/17/22 23:11	BRF
1,2-Dibromoethane (EDB)	ND	0.10	0.060			ND	0.77	0.46	2	2/17/22 23:11	BRF
1,2-Dichlorobenzene	ND	0.10	0.057			ND	0.60	0.35	2	2/17/22 23:11	BRF
1,3-Dichlorobenzene	ND	0.10	0.055			ND	0.60	0.33	2	2/17/22 23:11	BRF
1,4-Dichlorobenzene	ND	0.10	0.065			ND	0.60	0.39	2	2/17/22 23:11	BRF
Dichlorodifluoromethane (Freon 12)	0.41	0.10	0.098			2.0	0.49	0.48	2	2/17/22 23:11	BRF
1,1-Dichloroethane	1.1	0.10	0.087			4.5	0.40	0.35	2	2/17/22 23:11	BRF
1,2-Dichloroethane	1.0	0.10	0.091			4.2	0.40	0.37	2	2/17/22 23:11	BRF
1,1-Dichloroethylene	ND	0.10	0.076			ND	0.40	0.30	2	2/17/22 23:11	BRF
cis-1,2-Dichloroethylene	ND	0.10	0.073			ND	0.40	0.29	2	2/17/22 23:11	BRF
trans-1,2-Dichloroethylene	ND	0.10	0.079			ND	0.40	0.31	2	2/17/22 23:11	BRF
1,2-Dichloropropane	ND	0.10	0.054			ND	0.46	0.25	2	2/17/22 23:11	BRF
cis-1,3-Dichloropropene	ND	0.10	0.052			ND	0.45	0.24	2	2/17/22 23:11	BRF
trans-1,3-Dichloropropene	ND	0.10	0.051			ND	0.45	0.23	2	2/17/22 23:11	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098			ND	0.70	0.69	2	2/17/22 23:11	BRF
1,4-Dioxane	ND	1.0	0.083			ND	3.6	0.30	2	2/17/22 23:11	BRF
Ethanol	33	4.0	1.8			62	7.5	3.3	2	2/17/22 23:11	BRF
Ethyl Acetate	3.5	1.0	0.51	L-03, V-34		13 J	3.6	1.8	2	2/17/22 23:11	BRF
Ethylbenzene	ND	0.10	0.058			ND	0.43	0.25	2	2/17/22 23:11	BRF
4-Ethyltoluene	ND	0.10	0.061			ND	0.49	0.30	2	2/17/22 23:11	BRF
Heptane	0.59	0.10	0.064			2.4	0.41	0.26	2	2/17/22 23:11	BRF
Hexachlorobutadiene	ND	0.10	0.082	L-03		ND UJ	1.1	0.88	2	2/17/22 23:11	BRF
Hexane	0.93	4.0	0.52	J		3.3	14	1.8	2	2/17/22 23:11	BRF
2-Hexanone (MBK)	ND	0.20	0.050			ND	0.82	0.21	2	2/17/22 23:11	BRF
Isopropanol	4.4	4.0	0.69	L-03		11 J	9.8	1.7	2	2/17/22 23:11	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.077			ND	0.36	0.28	2	2/17/22 23:11	BRF
Methylene Chloride	ND	1.0	0.46			ND	3.5	1.6	2	2/17/22 23:11	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.051			ND	0.41	0.21	2	2/17/22 23:11	BRF
Naphthalene	ND	0.10	0.063			ND	0.52	0.33	2	2/17/22 23:11	BRF
Propene	ND	4.0	0.88			ND	6.9	1.5	2	2/17/22 23:11	BRF
Styrene	ND	0.10	0.053			ND	0.43	0.22	2	2/17/22 23:11	BRF
1,1,2,2-Tetrachloroethane	ND	0.10	0.054			ND	0.69	0.37	2	2/17/22 23:11	BRF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/9/2022
Field Sample #: 224121-SS-27-09
Sample ID: 22B0504-03
 Sample Matrix: Sub Slab
 Sampled: 2/7/2022 12:09

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1930
 Canister Size: 6 liter
 Flow Controller ID: 3609
 Sample Type: 24 hr

Work Order: 22B0504
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -9.3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL	Flag/Qual	Results	RL	MDL		Analyzed		
Tetrachloroethylene	ND	0.10	0.076	L-03, V-04, V-05	ND	0.68	0.52	2	2/17/22 23:11	BRF	
Tetrahydrofuran	0.86	1.0	0.16		J	2.5	2.9	0.48	2	2/17/22 23:11	BRF
Toluene	0.61	0.10	0.057		2.3	0.38	0.22	2	2/17/22 23:11	BRF	
1,2,4-Trichlorobenzene	ND	0.20	0.070		ND UJ	1.5	0.52	2	2/17/22 23:11	BRF	
1,1,1-Trichloroethane	ND	0.10	0.079	J	ND	0.55	0.43	2	2/17/22 23:11	BRF	
1,1,2-Trichloroethane	ND	0.10	0.070		ND	0.55	0.38	2	2/17/22 23:11	BRF	
Trichloroethylene	ND	0.10	0.067		ND	0.54	0.36	2	2/17/22 23:11	BRF	
Trichlorofluoromethane (Freon 11)	0.20	0.40	0.12		1.1	2.2	0.66	2	2/17/22 23:11	BRF	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	0.11	V-05	ND	3.1	0.85	2	2/17/22 23:11	BRF	
1,2,4-Trimethylbenzene	ND	0.10	0.044		ND	0.49	0.22	2	2/17/22 23:11	BRF	
1,3,5-Trimethylbenzene	ND	0.10	0.053		ND	0.49	0.26	2	2/17/22 23:11	BRF	
Vinyl Acetate	ND	2.0	0.54		ND UJ	7.0	1.9	2	2/17/22 23:11	BRF	
Vinyl Chloride	1.3	0.10	0.090	V-05	3.3	0.26	0.23	2	2/17/22 23:11	BRF	
m&p-Xylene	ND	0.20	0.11		ND	0.87	0.49	2	2/17/22 23:11	BRF	
o-Xylene	ND	0.10	0.051		ND	0.43	0.22	2	2/17/22 23:11	BRF	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	98.2	70-130	2/17/22 23:11

ALH 2/28/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/9/2022
Field Sample #: 224121-1A-27-09
Sample ID: 22B0504-04
 Sample Matrix: Indoor air
 Sampled: 2/7/2022 12:11

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1138
 Canister Size: 6 liter
 Flow Controller ID: 3361
 Sample Type: 24 hr

Work Order: 22B0504
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -9.9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	
Acetone	5.5	1.4	0.84		13	3.3	2.0	0.698	2/17/22 18:50	BRF
Benzene	0.39	0.035	0.026		1.2	0.11	0.084	0.698	2/17/22 18:50	BRF
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.698	2/17/22 18:50	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	2/17/22 18:50	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	2/17/22 18:50	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	2/17/22 18:50	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	2/17/22 18:50	BRF
2-Butanone (MEK)	0.51	1.4	0.37	J	1.5	4.1	1.1	0.698	2/17/22 18:50	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	2/17/22 18:50	BRF
Carbon Tetrachloride	0.029	0.035	0.028	J	0.18	0.22	0.17	0.698	2/17/22 18:50	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	2/17/22 18:50	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	2/17/22 18:50	BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	2/17/22 18:50	BRF
Chloromethane	0.50	0.070	0.028		1.0	0.14	0.057	0.698	2/17/22 18:50	BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.079	0.698	2/17/22 18:50	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	2/17/22 18:50	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	2/17/22 18:50	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	2/17/22 18:50	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	2/17/22 18:50	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	2/17/22 18:50	BRF
Dichlorodifluoromethane (Freon 12)	0.42	0.035	0.034		2.1	0.17	0.17	0.698	2/17/22 18:50	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	2/17/22 18:50	BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	2/17/22 18:50	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	2/17/22 18:50	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	2/17/22 18:50	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	2/17/22 18:50	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	2/17/22 18:50	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	2/17/22 18:50	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	2/17/22 18:50	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	2/17/22 18:50	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	2/17/22 18:50	BRF
Ethanol	30	1.4	0.62		56	2.6	1.2	0.698	2/17/22 18:50	BRF
Ethyl Acetate	ND	0.35	0.18	L-03, V-34	ND UJ	1.3	0.64	0.698	2/17/22 18:50	BRF
Ethylbenzene	0.18	0.035	0.020		0.78	0.15	0.088	0.698	2/17/22 18:50	BRF
4-Ethyltoluene	0.024	0.035	0.021	J	0.12	0.17	0.11	0.698	2/17/22 18:50	BRF
Heptane	0.13	0.035	0.022		0.53	0.14	0.091	0.698	2/17/22 18:50	BRF
Hexachlorobutadiene	ND	0.035	0.029	L-03	ND UJ	0.37	0.31	0.698	2/17/22 18:50	BRF
Hexane	0.18	1.4	0.18	J	0.65	4.9	0.64	0.698	2/17/22 18:50	BRF
2-Hexanone (MBK)	ND	0.070	0.018		ND	0.29	0.072	0.698	2/17/22 18:50	BRF
Isopropanol	0.97	1.4	0.24	L-03, J	2.4 J	3.4	0.59	0.698	2/17/22 18:50	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	2/17/22 18:50	BRF
Methylene Chloride	0.37	0.35	0.16		1.3	1.2	0.56	0.698	2/17/22 18:50	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	2/17/22 18:50	BRF
Naphthalene	0.030	0.035	0.022	J	0.16	0.18	0.12	0.698	2/17/22 18:50	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	2/17/22 18:50	BRF
Styrene	0.042	0.035	0.018		0.18	0.15	0.078	0.698	2/17/22 18:50	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	2/17/22 18:50	BRF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/9/2022
Field Sample #: 224121-IA-27-09
Sample ID: 22B0504-04
 Sample Matrix: Indoor air
 Sampled: 2/7/2022 12:11

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1138
 Canister Size: 6 liter
 Flow Controller ID: 3361
 Sample Type: 24 hr

Work Order: 22B0504
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -9.9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	
Tetrachloroethylene	0.050	0.035	0.027	L-03, V-04, V-05	0.34	0.24	0.18	0.698	2/17/22 18:50	BRF
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	2/17/22 18:50	BRF
Toluene	0.73	0.035	0.020		2.8	0.13	0.075	0.698	2/17/22 18:50	BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024		ND UJ	0.52	0.18	0.698	2/17/22 18:50	BRF
1,1,1-Trichloroethane	ND	0.035	0.027	J	ND	0.19	0.15	0.698	2/17/22 18:50	BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	2/17/22 18:50	BRF
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.698	2/17/22 18:50	BRF
Trichlorofluoromethane (Freon 11)	0.19	0.14	0.041		1.1	0.78	0.23	0.698	2/17/22 18:50	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.087	0.14	0.039	J	0.66	1.1	0.30	0.698	2/17/22 18:50	BRF
1,2,4-Trimethylbenzene	0.089	0.035	0.015		0.44	0.17	0.076	0.698	2/17/22 18:50	BRF
1,3,5-Trimethylbenzene	0.027	0.035	0.018		0.13	0.17	0.091	0.698	2/17/22 18:50	BRF
Vinyl Acetate	ND	0.70	0.19		ND UJ	2.5	0.66	0.698	2/17/22 18:50	BRF
Vinyl Chloride	ND	0.035	0.031	V-05	ND	0.089	0.080	0.698	2/17/22 18:50	BRF
m&p-Xylene	0.56	0.070	0.039		2.4	0.30	0.17	0.698	2/17/22 18:50	BRF
o-Xylene	0.20	0.035	0.018		0.88	0.15	0.078	0.698	2/17/22 18:50	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	96.6	70-130	2/17/22 18:50

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/9/2022
Field Sample #: 224121-OA-27-09
Sample ID: 22B0504-05
 Sample Matrix: Ambient Air
 Sampled: 2/7/2022 12:12

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1201
 Canister Size: 6 liter
 Flow Controller ID: 3251
 Sample Type: 24 hr

Work Order: 22B0504
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -6.1
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	3.0	1.4	0.84		7.2	3.3	2.0	0.698	2/17/22 19:22		BRF
Benzene	0.37	0.035	0.026		1.2	0.11	0.084	0.698	2/17/22 19:22		BRF
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.698	2/17/22 19:22		BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	2/17/22 19:22		BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	2/17/22 19:22		BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	2/17/22 19:22		BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	2/17/22 19:22		BRF
2-Butanone (MEK)	ND	1.4	0.37		ND	4.1	1.1	0.698	2/17/22 19:22		BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	2/17/22 19:22		BRF
Carbon Tetrachloride	0.064	0.035	0.028		0.40	0.22	0.17	0.698	2/17/22 19:22		BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	2/17/22 19:22		BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	2/17/22 19:22		BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	2/17/22 19:22		BRF
Chloromethane	0.53	0.070	0.028		1.1	0.14	0.057	0.698	2/17/22 19:22		BRF
Cyclohexane	0.066	0.035	0.023		0.23	0.12	0.079	0.698	2/17/22 19:22		BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	2/17/22 19:22		BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	2/17/22 19:22		BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	2/17/22 19:22		BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	2/17/22 19:22		BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	2/17/22 19:22		BRF
Dichlorodifluoromethane (Freon 12)	0.42	0.035	0.034		2.1	0.17	0.17	0.698	2/17/22 19:22		BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	2/17/22 19:22		BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	2/17/22 19:22		BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	2/17/22 19:22		BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	2/17/22 19:22		BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	2/17/22 19:22		BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	2/17/22 19:22		BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	2/17/22 19:22		BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	2/17/22 19:22		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	2/17/22 19:22		BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	2/17/22 19:22		BRF
Ethanol	9.7	1.4	0.62		18	2.6	1.2	0.698	2/17/22 19:22		BRF
Ethyl Acetate	ND	0.35	0.18	L-03, V-34	ND UJ	1.3	0.64	0.698	2/17/22 19:22		BRF
Ethylbenzene	0.075	0.035	0.020		0.32	0.15	0.088	0.698	2/17/22 19:22		BRF
4-Ethyltoluene	ND	0.035	0.021		ND	0.17	0.11	0.698	2/17/22 19:22		BRF
Heptane	0.11	0.035	0.022		0.44	0.14	0.091	0.698	2/17/22 19:22		BRF
Hexachlorobutadiene	ND	0.035	0.029	L-03	ND UJ	0.37	0.31	0.698	2/17/22 19:22		BRF
Hexane	ND	1.4	0.18		ND	4.9	0.64	0.698	2/17/22 19:22		BRF
2-Hexanone (MBK)	ND	0.070	0.018		ND	0.29	0.072	0.698	2/17/22 19:22		BRF
Isopropanol	0.83	1.4	0.24	L-03, J	2.0 J	3.4	0.59	0.698	2/17/22 19:22		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	2/17/22 19:22		BRF
Methylene Chloride	0.38	0.35	0.16		1.3	1.2	0.56	0.698	2/17/22 19:22		BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	2/17/22 19:22		BRF
Naphthalene	ND	0.035	0.022		ND	0.18	0.12	0.698	2/17/22 19:22		BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	2/17/22 19:22		BRF
Styrene	0.020	0.035	0.018	J	0.083	0.15	0.078	0.698	2/17/22 19:22		BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	2/17/22 19:22		BRF

ALH 2/28/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/9/2022
Field Sample #: 224121-OA-27-09
Sample ID: 22B0504-05
 Sample Matrix: Ambient Air
 Sampled: 2/7/2022 12:12

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1201
 Canister Size: 6 liter
 Flow Controller ID: 3251
 Sample Type: 24 hr

Work Order: 22B0504
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -6.1
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	0.052	0.035	0.027		0.35	0.24	0.18	0.698	2/17/22 19:22		BRF
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	2/17/22 19:22		BRF
Toluene	0.56	0.035	0.020		2.1	0.13	0.075	0.698	2/17/22 19:22		BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024	L-03, V-04, V-05	ND UJ	0.52	0.18	0.698	2/17/22 19:22		BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	2/17/22 19:22		BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	2/17/22 19:22		BRF
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.698	2/17/22 19:22		BRF
Trichlorofluoromethane (Freon 11)	0.18	0.14	0.041		1.0	0.78	0.23	0.698	2/17/22 19:22		BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.061	0.14	0.039	J	0.47	1.1	0.30	0.698	2/17/22 19:22		BRF
1,2,4-Trimethylbenzene	0.059	0.035	0.015		0.29	0.17	0.076	0.698	2/17/22 19:22		BRF
1,3,5-Trimethylbenzene	0.023	0.035	0.018	J	0.11	0.17	0.091	0.698	2/17/22 19:22		BRF
Vinyl Acetate	ND	0.70	0.19	V-05	ND UJ	2.5	0.66	0.698	2/17/22 19:22		BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	2/17/22 19:22		BRF
m&p-Xylene	0.21	0.070	0.039		0.92	0.30	0.17	0.698	2/17/22 19:22		BRF
o-Xylene	0.085	0.035	0.018		0.37	0.15	0.078	0.698	2/17/22 19:22		BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	95.1	70-130	2/17/22 19:22

ALH 2/28/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/9/2022
Field Sample #: 224121-SS-16-09
Sample ID: 22B0504-06
 Sample Matrix: Sub Slab
 Sampled: 2/7/2022 15:13

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1260
 Canister Size: 6 liter
 Flow Controller ID: 3057
 Sample Type: 24 hr

Work Order: 22B0504
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -9.8
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed		
Acetone	16	4.0	2.4			39	9.5	5.7	2	2/17/22 19:48	BRF
Benzene	0.19	0.10	0.076			0.62	0.32	0.24	2	2/17/22 19:48	BRF
Benzyl chloride	ND	0.10	0.088			ND	0.52	0.46	2	2/17/22 19:48	BRF
Bromodichloromethane	ND	0.10	0.070			ND	0.67	0.47	2	2/17/22 19:48	BRF
Bromoform	ND	0.10	0.068			ND	1.0	0.70	2	2/17/22 19:48	BRF
Bromomethane	ND	0.10	0.082			ND	0.39	0.32	2	2/17/22 19:48	BRF
1,3-Butadiene	ND	0.10	0.084			ND	0.22	0.19	2	2/17/22 19:48	BRF
2-Butanone (MEK)	2.0	4.0	1.1	J		5.9	12	3.1	2	2/17/22 19:48	BRF
Carbon Disulfide	2.2	1.0	0.092			6.9	3.1	0.29	2	2/17/22 19:48	BRF
Carbon Tetrachloride	ND	0.10	0.080			ND	0.63	0.50	2	2/17/22 19:48	BRF
Chlorobenzene	ND	0.10	0.066			ND	0.46	0.31	2	2/17/22 19:48	BRF
Chloroethane	12	0.10	0.073			31	0.26	0.19	2	2/17/22 19:48	BRF
Chloroform	0.16	0.10	0.095			0.79	0.49	0.46	2	2/17/22 19:48	BRF
Chloromethane	0.18	0.20	0.079	J		0.38	0.41	0.16	2	2/17/22 19:48	BRF
Cyclohexane	ND	0.10	0.066			ND	0.34	0.23	2	2/17/22 19:48	BRF
Dibromochloromethane	ND	0.10	0.066			ND	0.85	0.56	2	2/17/22 19:48	BRF
1,2-Dibromoethane (EDB)	ND	0.10	0.060			ND	0.77	0.46	2	2/17/22 19:48	BRF
1,2-Dichlorobenzene	ND	0.10	0.057			ND	0.60	0.35	2	2/17/22 19:48	BRF
1,3-Dichlorobenzene	ND	0.10	0.055			ND	0.60	0.33	2	2/17/22 19:48	BRF
1,4-Dichlorobenzene	ND	0.10	0.065			ND	0.60	0.39	2	2/17/22 19:48	BRF
Dichlorodifluoromethane (Freon 12)	0.40	0.10	0.098			2.0	0.49	0.48	2	2/17/22 19:48	BRF
1,1-Dichloroethane	0.56	0.10	0.087			2.3	0.40	0.35	2	2/17/22 19:48	BRF
1,2-Dichloroethane	0.26	0.10	0.091			1.0	0.40	0.37	2	2/17/22 19:48	BRF
1,1-Dichloroethylene	ND	0.10	0.076			ND	0.40	0.30	2	2/17/22 19:48	BRF
cis-1,2-Dichloroethylene	ND	0.10	0.073			ND	0.40	0.29	2	2/17/22 19:48	BRF
trans-1,2-Dichloroethylene	ND	0.10	0.079			ND	0.40	0.31	2	2/17/22 19:48	BRF
1,2-Dichloropropane	ND	0.10	0.054			ND	0.46	0.25	2	2/17/22 19:48	BRF
cis-1,3-Dichloropropene	ND	0.10	0.052			ND	0.45	0.24	2	2/17/22 19:48	BRF
trans-1,3-Dichloropropene	ND	0.10	0.051			ND	0.45	0.23	2	2/17/22 19:48	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098			ND	0.70	0.69	2	2/17/22 19:48	BRF
1,4-Dioxane	ND	1.0	0.083			ND	3.6	0.30	2	2/17/22 19:48	BRF
Ethanol	10	4.0	1.8			19	7.5	3.3	2	2/17/22 19:48	BRF
Ethyl Acetate	ND	1.0	0.51	L-03, V-34		ND UJ	3.6	1.8	2	2/17/22 19:48	BRF
Ethylbenzene	0.074	0.10	0.058	J		0.32	0.43	0.25	2	2/17/22 19:48	BRF
4-Ethyltoluene	ND	0.10	0.061			ND	0.49	0.30	2	2/17/22 19:48	BRF
Heptane	0.22	0.10	0.064			0.92	0.41	0.26	2	2/17/22 19:48	BRF
Hexachlorobutadiene	ND	0.10	0.082	L-03		ND UJ	1.1	0.88	2	2/17/22 19:48	BRF
Hexane	ND	4.0	0.52			ND	14	1.8	2	2/17/22 19:48	BRF
2-Hexanone (MBK)	ND	0.20	0.050			ND	0.82	0.21	2	2/17/22 19:48	BRF
Isopropanol	0.71	4.0	0.69	L-03, J		1.7 J	9.8	1.7	2	2/17/22 19:48	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.077			ND	0.36	0.28	2	2/17/22 19:48	BRF
Methylene Chloride	ND	1.0	0.46			ND	3.5	1.6	2	2/17/22 19:48	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.051			ND	0.41	0.21	2	2/17/22 19:48	BRF
Naphthalene	ND	0.10	0.063			ND	0.52	0.33	2	2/17/22 19:48	BRF
Propene	ND	4.0	0.88			ND	6.9	1.5	2	2/17/22 19:48	BRF
Styrene	ND	0.10	0.053			ND	0.43	0.22	2	2/17/22 19:48	BRF
1,1,2,2-Tetrachloroethane	ND	0.10	0.054			ND	0.69	0.37	2	2/17/22 19:48	BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown

Date Received: 2/9/2022

Field Sample #: 224121-SS-16-09

Sample ID: 22B0504-06

Sample Matrix: Sub Slab

Sampled: 2/7/2022 15:13

Sample Description/Location:

Sub Description/Location:

Canister ID: 1260

Canister Size: 6 liter

Flow Controller ID: 3057

Sample Type: 24 hr

Work Order: 22B0504

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -10

Receipt Vacuum(in Hg): -9.8

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed		
Tetrachloroethylene	1.2	0.10	0.076			7.8	0.68	0.52	2	2/17/22 19:48	BRF
Tetrahydrofuran	8.9	1.0	0.16			26	2.9	0.48	2	2/17/22 19:48	BRF
Toluene	0.32	0.10	0.057			1.2	0.38	0.22	2	2/17/22 19:48	BRF
1,2,4-Trichlorobenzene	ND	0.20	0.070	L-03, V-04, V-05	ND UJ	1.5	0.52		2	2/17/22 19:48	BRF
1,1,1-Trichloroethane	ND	0.10	0.079			ND	0.55	0.43	2	2/17/22 19:48	BRF
1,1,2-Trichloroethane	ND	0.10	0.070			ND	0.55	0.38	2	2/17/22 19:48	BRF
Trichloroethylene	ND	0.10	0.067			ND	0.54	0.36	2	2/17/22 19:48	BRF
Trichlorofluoromethane (Freon 11)	0.20	0.40	0.12	J		1.1	2.2	0.66	2	2/17/22 19:48	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	0.11			ND	3.1	0.85	2	2/17/22 19:48	BRF
1,2,4-Trimethylbenzene	ND	0.10	0.044			ND	0.49	0.22	2	2/17/22 19:48	BRF
1,3,5-Trimethylbenzene	ND	0.10	0.053			ND	0.49	0.26	2	2/17/22 19:48	BRF
Vinyl Acetate	ND	2.0	0.54	V-05	ND UJ	7.0	1.9		2	2/17/22 19:48	BRF
Vinyl Chloride	0.76	0.10	0.090			1.9	0.26	0.23	2	2/17/22 19:48	BRF
m&p-Xylene	ND	0.20	0.11			ND	0.87	0.49	2	2/17/22 19:48	BRF
o-Xylene	ND	0.10	0.051			ND	0.43	0.22	2	2/17/22 19:48	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	95.6	70-130	2/17/22 19:48

ALH 2/28/22

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown

Date Received: 2/9/2022

Field Sample #: 224121-IA-16-09

Sample ID: 22B0504-07

Sample Matrix: Indoor air

Sampled: 2/7/2022 15:14

Sample Description/Location:

Sub Description/Location:

Canister ID: 1695

Canister Size: 6 liter

Flow Controller ID: 3464

Sample Type: 24 hr

Work Order: 22B0504

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -10

Receipt Vacuum(in Hg): -10.1

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	
Acetone	24	1.4	0.84		58	3.3	2.0	0.698	2/17/22 20:20	BRF
Benzene	0.37	0.035	0.026		1.2	0.11	0.084	0.698	2/17/22 20:20	BRF
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.698	2/17/22 20:20	BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	2/17/22 20:20	BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	2/17/22 20:20	BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	2/17/22 20:20	BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	2/17/22 20:20	BRF
2-Butanone (MEK)	15	1.4	0.37		43	4.1	1.1	0.698	2/17/22 20:20	BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	2/17/22 20:20	BRF
Carbon Tetrachloride	0.082	0.035	0.028		0.51	0.22	0.17	0.698	2/17/22 20:20	BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	2/17/22 20:20	BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	2/17/22 20:20	BRF
Chloroform	0.13	0.035	0.033		0.62	0.17	0.16	0.698	2/17/22 20:20	BRF
Chloromethane	0.43	0.070	0.028		0.88	0.14	0.057	0.698	2/17/22 20:20	BRF
Cyclohexane	0.14	0.035	0.023		0.49	0.12	0.079	0.698	2/17/22 20:20	BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	2/17/22 20:20	BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	2/17/22 20:20	BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	2/17/22 20:20	BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	2/17/22 20:20	BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	2/17/22 20:20	BRF
Dichlorodifluoromethane (Freon 12)	0.39	0.035	0.034		2.0	0.17	0.17	0.698	2/17/22 20:20	BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	2/17/22 20:20	BRF
1,2-Dichloroethane	0.20	0.035	0.032		0.80	0.14	0.13	0.698	2/17/22 20:20	BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	2/17/22 20:20	BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	2/17/22 20:20	BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	2/17/22 20:20	BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	2/17/22 20:20	BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	2/17/22 20:20	BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	2/17/22 20:20	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	2/17/22 20:20	BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	2/17/22 20:20	BRF
Ethanol	47	4.0	1.8		88	7.5	3.3	2	2/18/22 6:59	BRF
Ethyl Acetate	0.26	0.35	0.18	L-03, V-34, J	0.94 J	1.3	0.64	0.698	2/17/22 20:20	BRF
Ethylbenzene	0.44	0.035	0.020		1.9	0.15	0.088	0.698	2/17/22 20:20	BRF
4-Ethyltoluene	0.035	0.035	0.021		0.17	0.17	0.11	0.698	2/17/22 20:20	BRF
Heptane	ND	0.035	0.022		ND	0.14	0.091	0.698	2/17/22 20:20	BRF
Hexachlorobutadiene	ND	0.035	0.029	L-03	ND UJ	0.37	0.31	0.698	2/17/22 20:20	BRF
Hexane	0.19	1.4	0.18	J	0.68	4.9	0.64	0.698	2/17/22 20:20	BRF
2-Hexanone (MBK)	ND	0.070	0.018		ND	0.29	0.072	0.698	2/17/22 20:20	BRF
Isopropanol	6.6	1.4	0.24	L-03	16 J	3.4	0.59	0.698	2/17/22 20:20	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	2/17/22 20:20	BRF
Methylene Chloride	1.3	0.35	0.16		4.7	1.2	0.56	0.698	2/17/22 20:20	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	2/17/22 20:20	BRF
Naphthalene	0.028	0.035	0.022	J	0.15	0.18	0.12	0.698	2/17/22 20:20	BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	2/17/22 20:20	BRF
Styrene	0.068	0.035	0.018		0.29	0.15	0.078	0.698	2/17/22 20:20	BRF
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	2/17/22 20:20	BRF

ALH 2/28/22

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/9/2022
Field Sample #: 224121-IA-16-09
Sample ID: 22B0504-07
 Sample Matrix: Indoor air
 Sampled: 2/7/2022 15:14

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1695
 Canister Size: 6 liter
 Flow Controller ID: 3464
 Sample Type: 24 hr

Work Order: 22B0504
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -10.1
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time			
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	Analyst	
Tetrachloroethylene	0.068	0.035	0.027	L-03, V-04, V-05	0.46	0.24	0.18	0.698	2/17/22	20:20	BRF
Tetrahydrofuran	16	0.35	0.057		48	1.0	0.17	0.698	2/17/22	20:20	BRF
Toluene	6.6	0.035	0.020		25	0.13	0.075	0.698	2/17/22	20:20	BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024		ND UJ	0.52	0.18	0.698	2/17/22	20:20	BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	2/17/22	20:20	BRF
1,1,2-Trichloroethane	ND	0.035	0.025	J	ND	0.19	0.13	0.698	2/17/22	20:20	BRF
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.698	2/17/22	20:20	BRF
Trichlorofluoromethane (Freon 11)	0.19	0.14	0.041		1.0	0.78	0.23	0.698	2/17/22	20:20	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.062	0.14	0.039		0.48	1.1	0.30	0.698	2/17/22	20:20	BRF
1,2,4-Trimethylbenzene	0.15	0.035	0.015		0.72	0.17	0.076	0.698	2/17/22	20:20	BRF
1,3,5-Trimethylbenzene	0.043	0.035	0.018	V-05	0.21	0.17	0.091	0.698	2/17/22	20:20	BRF
Vinyl Acetate	ND	0.70	0.19		ND UJ	2.5	0.66	0.698	2/17/22	20:20	BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	2/17/22	20:20	BRF
m&p-Xylene	2.0	0.070	0.039		8.6	0.30	0.17	0.698	2/17/22	20:20	BRF
o-Xylene	0.76	0.035	0.018		3.3	0.15	0.078	0.698	2/17/22	20:20	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	95.9	70-130	2/18/22 6:59
4-Bromofluorobenzene (1)	97.9	70-130	2/17/22 20:20

ALH 2/28/22

VALIDATA

Chemical Services, Inc.

2159 Wynnton Pointe, Duluth, GA 30097

(770) 232-0130

(770) 232-5082 (Fax)

www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY: AECOM Technical Services Northeast, Inc.
PROJECT NAME: Meeker Ave. SVI
CONTRACTED LAB: con-test Analytical Laboratory
QA/QC LEVEL: DUSR
ANALYTICAL METHOD(S): EPA Method TO-15
VALIDATION GUIDELINES: USEPA Region II data validation SOP ((VOA-TO15 HW-31 Rev.6, Analysis of VOCs in Air contained in Canisters by Method TO-15, September 2016), Professional Judgment

SAMPLE MATRIX: Air
TYPES OF ANALYSES: Volatile Organic Compounds (VOC)
DATA REVIEWER(S): Amy L. Hogan
SDG NUMBER: 22B1135
SAMPLING DATE(S): February 16, 2022

SAMPLES:

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>VOC</u>
224121-SS-44-09	22B1135-01	X
224121-SS-44-09DL	22B1135-01DL	X
FD-021622-1	22B1135-02	X
FD-021622-1DL	22B1135-02DL	X
224121-IA-44-09	22B1135-03	X
224121-IA-44-09DL	22B1135-03DL	X
FD-021622-2	22B1135-04	X
FD-021622-2DL	22B1135-04DL	X
224121-OA-44-09	22B1135-05	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Con-test Analytical Laboratory – 22B1135

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per EPA Method TO-15.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The Percent Relative Standard Deviation (%RSD) for the standards analyzed on 8/20/21 on instrument SYSJ was 39.6% for 1,2,4-trichlorobenzene, which exceeded the 30% QC limit. The 1,2,4-trichlorobenzene results for the samples, which consisted entirely of non-detects, were qualified as estimated (UJ).

Initial Calibration Verification:

The Percent Differences (%Ds) for the standards run on 8/21/21 at 02:04 on instrument SYSJ exceeded the 30% QC limit for the following compounds:

Vinyl acetate	-32.9%
Ethyl acetate	34.7%

All positive and non-detect results for these compounds in the SDG samples were qualified as

estimated (J) and (UJ).

The Percent Difference (%D) for the standards run on 2/25/22 at 00:29 on instrument SYSK was -40.4% for ethanol, which exceeded the 30% QC limit. The ethanol results for samples 224121-SS-44-09, FD-021622-1, 224121-IA-44-09 and FD-021622-2, which were reported from a dilution analysis for each sample, were qualified as estimated (J).

Continuing Calibration:

The Percent Differences (%Ds) for the standards run on 3/3/22 at 11:26 on instrument SYSJ exceeded the 30% QC limit for the following compounds:

Ethyl acetate	-48.1%
Hexachlorobutadiene	-38.2%
MTBE	-35.0%
Naphthalene	-43.8%
1,2,4-trichlorobenzene	-46.8%

All positive and non-detect results for these compounds in the initial analyses of the SDG samples were qualified as estimated (J) and (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Canister Blanks:

There were no detects in the canister check blanks for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

Two LCS were analyzed by the laboratory for this SDG. The Percent Recoveries (%Rs) for LCS B302498-BS1 were outside the 70-130% QC limits for the following compounds:

Ethanol	147%
Ethyl acetate	58.1%
MTBE	69.3%
1,2,4-trichlorobenzene	68.3%

The positive ethanol result for associated sample 224121-OA-44-09 was qualified as estimated (J) and all positive and non-detect results for the ethyl acetate, MTBE and 1,2,4-trichlorobenzene for the SDG samples were qualified as estimated (J) and (UJ).

The Percent Recovery (%R) for LCS B302634-BS1 of 148% for ethanol exceeded the 70-130% QC limits. The positive ethanol results for samples 224121-SS-44-09, FD-021622-1, 224121-IA-44-09 and FD-021622-2, which were reported from a dilution analysis for each sample, were qualified as estimated (J).

IX.) Matrix Duplicate:

Matrix Duplicate analysis data was not submitted for this SDG. Data qualification based on the absence of MD data was not required. No data qualification was necessary.

X.) Field Duplicates:

Two sets of field duplicate samples (224121-SS-44-09 / FD-021622-1 and 224121-IA-44-09 / FD-021622-2) were identified as part of this SDG. The calculable Relative Percent Differences (RPDs) for the first set were:

Acetone	3.2%
2-butanone	9.1%
Caron disulfide	18%
Chloroethane	1.5%
Chloroform	3.5%
Freon 12	4.1%
1,1-dichloroethane	1.5%
1,2-dichloroethane	4.5%
Cis-1,2-dichloroethylene	110%
Ethanol	1.4%
Ethyl acetate	8.3%
Ethylbenzene	45%
Heptane	4.4%
Hexane	8.0%
Isopropanol	3.5%
Tetrachloroethylene	130%
Toluene	4.2%
1,1,1-trichloroethane	110%
Trichloroethylene	120%
Freon 11	15%
1,2,4-trimethylbenzene	4.7%
Vinyl chloride	0%
M,p-xylene	58%

The RPDs cis-1,2-dichloroethylene, tetrachloroethylene, 1,1,1-trichloroethene, trichloroethylene and m,p-xylene exceeded the 50% QC limit. The positive results for these compounds in the two samples were qualified as estimated (J).

The calculable Relative Percent Differences (RPDs) for the second set were:

Acetone	17%
Benzene	35%
Carbon tetrachloride	17%
Chloroform	15%
Freon 12	4.4%
Ethanol	18%
Ethyl acetate	24%
Heptane	63%
Isopropanol	6.9%
Methylene chloride	46%
Tetrachloroethylene	2.4%
Toluene	110%
Freon 11	0%
Freon 113	16%

The RPDs for heptane and toluene exceeded the 50% QC limit. The positive results for these two compounds in the two samples were qualified as estimated (J).

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

The initial analysis ethanol results for samples 224121-SS-44-09, FD-021622-1, 224121-IA-44-09 and FD-021622-2 exceeded the linear calibration range. A dilution analysis was performed for the listed samples with all calibration criteria met. Since the Form I for each of the samples was a composite of the results, no data qualification was necessary.

All other CRQL criteria were met.

Appendix A

Qualified Form Is

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown

Date Received: 2/18/2022

Field Sample #: 224121-SS-44-09

Sample ID: 22B1135-01

Sample Matrix: Sub Slab

Sampled: 2/16/2022 16:17

Sample Description/Location: H-44-09

Sub Description/Location:

Canister ID: 1669

Canister Size: 6 liter

Flow Controller ID: 3593

Sample Type: 24 hr

Work Order: 22B1135

Initial Vacuum(in Hg): -29

Final Vacuum(in Hg): -10

Receipt Vacuum(in Hg): -9.3

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed		
Acetone	40	4.0	2.4			96	9.5	5.7	2	3/3/22 16:28	BRF
Benzene	ND	0.10	0.076			ND	0.32	0.24	2	3/3/22 16:28	BRF
Benzyl chloride	ND	0.10	0.088			ND	0.52	0.46	2	3/3/22 16:28	BRF
Bromodichloromethane	ND	0.10	0.070			ND	0.67	0.47	2	3/3/22 16:28	BRF
Bromoform	ND	0.10	0.068			ND	1.0	0.70	2	3/3/22 16:28	BRF
Bromomethane	ND	0.10	0.082			ND	0.39	0.32	2	3/3/22 16:28	BRF
1,3-Butadiene	ND	0.10	0.084			ND	0.22	0.19	2	3/3/22 16:28	BRF
2-Butanone (MEK)	14	4.0	1.1			42	12	3.1	2	3/3/22 16:28	BRF
Carbon Disulfide	0.40	1.0	0.092	J		1.2	3.1	0.29	2	3/3/22 16:28	BRF
Carbon Tetrachloride	ND	0.10	0.080			ND	0.63	0.50	2	3/3/22 16:28	BRF
Chlorobenzene	ND	0.10	0.066			ND	0.46	0.31	2	3/3/22 16:28	BRF
Chloroethane	25	0.10	0.073			66	0.26	0.19	2	3/3/22 16:28	BRF
Chloroform	0.58	0.10	0.095			2.8	0.49	0.46	2	3/3/22 16:28	BRF
Chloromethane	ND	0.20	0.079			ND	0.41	0.16	2	3/3/22 16:28	BRF
Cyclohexane	ND	0.10	0.066			ND	0.34	0.23	2	3/3/22 16:28	BRF
Dibromochloromethane	ND	0.10	0.066			ND	0.85	0.56	2	3/3/22 16:28	BRF
1,2-Dibromoethane (EDB)	ND	0.10	0.060			ND	0.77	0.46	2	3/3/22 16:28	BRF
1,2-Dichlorobenzene	ND	0.10	0.057			ND	0.60	0.35	2	3/3/22 16:28	BRF
1,3-Dichlorobenzene	ND	0.10	0.055			ND	0.60	0.33	2	3/3/22 16:28	BRF
1,4-Dichlorobenzene	ND	0.10	0.065			ND	0.60	0.39	2	3/3/22 16:28	BRF
Dichlorodifluoromethane (Freon 12)	0.51	0.10	0.098			2.5	0.49	0.48	2	3/3/22 16:28	BRF
1,1-Dichloroethane	1.7	0.10	0.087			6.9	0.40	0.35	2	3/3/22 16:28	BRF
1,2-Dichloroethane	1.6	0.10	0.091			6.5	0.40	0.37	2	3/3/22 16:28	BRF
1,1-Dichloroethylene	ND	0.10	0.076			ND	0.40	0.30	2	3/3/22 16:28	BRF
cis-1,2-Dichloroethylene	0.61	0.10	0.073			2.4 J	0.40	0.29	2	3/3/22 16:28	BRF
trans-1,2-Dichloroethylene	ND	0.10	0.079			ND	0.40	0.31	2	3/3/22 16:28	BRF
1,2-Dichloropropane	ND	0.10	0.054			ND	0.46	0.25	2	3/3/22 16:28	BRF
cis-1,3-Dichloropropene	ND	0.10	0.052			ND	0.45	0.24	2	3/3/22 16:28	BRF
trans-1,3-Dichloropropene	ND	0.10	0.051			ND	0.45	0.23	2	3/3/22 16:28	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098			ND	0.70	0.69	2	3/3/22 16:28	BRF
1,4-Dioxane	ND	1.0	0.083			ND	3.6	0.30	2	3/3/22 16:28	BRF
Ethanol	370	20	8.8	V-35, Z-01		700 J	38	17	10	3/4/22 12:05	BRF
Ethyl Acetate	6.4	1.0	0.51	V-05, L-03, V-34		23 J	3.6	1.8	2	3/3/22 16:28	BRF
Ethylbenzene	0.35	0.10	0.058			1.5	0.43	0.25	2	3/3/22 16:28	BRF
4-Ethyltoluene	ND	0.10	0.061			ND	0.49	0.30	2	3/3/22 16:28	BRF
Heptane	0.54	0.10	0.064			2.2	0.41	0.26	2	3/3/22 16:28	BRF
Hexachlorobutadiene	ND	0.10	0.082	V-05		ND UJ	1.1	0.88	2	3/3/22 16:28	BRF
Hexane	1.1	4.0	0.52	J		3.9	14	1.8	2	3/3/22 16:28	BRF
2-Hexanone (MBK)	ND	0.20	0.050			ND	0.82	0.21	2	3/3/22 16:28	BRF
Isopropanol	12	4.0	0.69			29	9.8	1.7	2	3/3/22 16:28	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.077	V-05, L-03		ND UJ	0.36	0.28	2	3/3/22 16:28	BRF
Methylene Chloride	0.65	1.0	0.46	J		2.3	3.5	1.6	2	3/3/22 16:28	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.051			ND	0.41	0.21	2	3/3/22 16:28	BRF
Naphthalene	ND	0.10	0.063	V-05		ND UJ	0.52	0.33	2	3/3/22 16:28	BRF
Propene	ND	4.0	0.88			ND	6.9	1.5	2	3/3/22 16:28	BRF
Styrene	0.090	0.10	0.053	J		0.38	0.43	0.22	2	3/3/22 16:28	BRF

ALH 3/16/22

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown

Date Received: 2/18/2022

Field Sample #: 224121-SS-44-09

Sample ID: 22B1135-01

Sample Matrix: Sub Slab

Sampled: 2/16/2022 16:17

Sample Description/Location: H-44-09

Sub Description/Location:

Canister ID: 1669

Canister Size: 6 liter

Flow Controller ID: 3593

Sample Type: 24 hr

Work Order: 22B1135

Initial Vacuum(in Hg): -29

Final Vacuum(in Hg): -10

Receipt Vacuum(in Hg): -9.3

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	Results	ppbv		Flag/Qual	Results	ug/m3		Dilution	Date/Time		Analyst
		RL	MDL			RL	MDL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.10	0.054		ND	0.69	0.37	2	3/3/22 16:28		BRF
Tetrachloroethylene	0.39	0.10	0.076		2.7 J	0.68	0.52	2	3/3/22 16:28		BRF
Tetrahydrofuran	ND	1.0	0.16		ND	2.9	0.48	2	3/3/22 16:28		BRF
Toluene	1.3	0.10	0.057		4.9	0.38	0.22	2	3/3/22 16:28		BRF
1,2,4-Trichlorobenzene	ND	0.20	0.070	V-04, V-05, L-03	ND UJ	1.5	0.52	2	3/3/22 16:28		BRF
1,1,1-Trichloroethane	5.6	0.10	0.079		30 J	0.55	0.43	2	3/3/22 16:28		BRF
1,1,2-Trichloroethane	ND	0.10	0.070		ND	0.55	0.38	2	3/3/22 16:28		BRF
Trichloroethylene	4.1	0.10	0.067		22 J	0.54	0.36	2	3/3/22 16:28		BRF
Trichlorofluoromethane (Freon 11)	0.25	0.40	0.12	J	1.4	2.2	0.66	2	3/3/22 16:28		BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	0.11		ND	3.1	0.85	2	3/3/22 16:28		BRF
1,2,4-Trimethylbenzene	0.13	0.10	0.044		0.65	0.49	0.22	2	3/3/22 16:28		BRF
1,3,5-Trimethylbenzene	ND	0.10	0.053		ND	0.49	0.26	2	3/3/22 16:28		BRF
Vinyl Acetate	ND	2.0	0.54		ND UJ	7.0	1.9	2	3/3/22 16:28		BRF
Vinyl Chloride	1.4	0.10	0.090		3.5	0.26	0.23	2	3/3/22 16:28		BRF
m&p-Xylene	1.1	0.20	0.11		4.7 J	0.87	0.49	2	3/3/22 16:28		BRF
o-Xylene	0.44	0.10	0.051		1.9	0.43	0.22	2	3/3/22 16:28		BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	101	70-130	3/3/22 16:28
4-Bromofluorobenzene (1)	91.6	70-130	3/4/22 12:05

ALH 3/16/22

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown

Sample Description/Location: FD-1

Work Order: 22B1135

Date Received: 2/18/2022

Sub Description/Location:

Initial Vacuum(in Hg): -29

Field Sample #: FD-021622-1

Canister ID: 1127

Final Vacuum(in Hg): -10

Sample ID: 22B1135-02

Canister Size: 6 liter

Receipt Vacuum(in Hg): -9.3

Sample Matrix: Air

Flow Controller ID: 3593

Flow Controller Type: Fixed-Orifice

Sampled: 2/16/2022 00:00

Sample Type: 24 hr

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed		
Acetone	39	4.0	2.4			93	9.5	5.7	2	3/3/22 16:54	BRF
Benzene	ND	0.10	0.076			ND	0.32	0.24	2	3/3/22 16:54	BRF
Benzyl chloride	ND	0.10	0.088			ND	0.52	0.46	2	3/3/22 16:54	BRF
Bromodichloromethane	ND	0.10	0.070			ND	0.67	0.47	2	3/3/22 16:54	BRF
Bromoform	ND	0.10	0.068			ND	1.0	0.70	2	3/3/22 16:54	BRF
Bromomethane	ND	0.10	0.082			ND	0.39	0.32	2	3/3/22 16:54	BRF
1,3-Butadiene	ND	0.10	0.084			ND	0.22	0.19	2	3/3/22 16:54	BRF
2-Butanone (MEK)	16	4.0	1.1			46	12	3.1	2	3/3/22 16:54	BRF
Carbon Disulfide	0.34	1.0	0.092	J		1.0	3.1	0.29	2	3/3/22 16:54	BRF
Carbon Tetrachloride	ND	0.10	0.080			ND	0.63	0.50	2	3/3/22 16:54	BRF
Chlorobenzene	ND	0.10	0.066			ND	0.46	0.31	2	3/3/22 16:54	BRF
Chloroethane	25	0.10	0.073			65	0.26	0.19	2	3/3/22 16:54	BRF
Chloroform	0.59	0.10	0.095			2.9	0.49	0.46	2	3/3/22 16:54	BRF
Chloromethane	ND	0.20	0.079			ND	0.41	0.16	2	3/3/22 16:54	BRF
Cyclohexane	ND	0.10	0.066			ND	0.34	0.23	2	3/3/22 16:54	BRF
Dibromochloromethane	ND	0.10	0.066			ND	0.85	0.56	2	3/3/22 16:54	BRF
1,2-Dibromoethane (EDB)	ND	0.10	0.060			ND	0.77	0.46	2	3/3/22 16:54	BRF
1,2-Dichlorobenzene	ND	0.10	0.057			ND	0.60	0.35	2	3/3/22 16:54	BRF
1,3-Dichlorobenzene	ND	0.10	0.055			ND	0.60	0.33	2	3/3/22 16:54	BRF
1,4-Dichlorobenzene	ND	0.10	0.065			ND	0.60	0.39	2	3/3/22 16:54	BRF
Dichlorodifluoromethane (Freon 12)	0.48	0.10	0.098			2.4	0.49	0.48	2	3/3/22 16:54	BRF
1,1-Dichloroethane	1.7	0.10	0.087			6.8	0.40	0.35	2	3/3/22 16:54	BRF
1,2-Dichloroethane	1.7	0.10	0.091			6.8	0.40	0.37	2	3/3/22 16:54	BRF
1,1-Dichloroethylene	ND	0.10	0.076			ND	0.40	0.30	2	3/3/22 16:54	BRF
cis-1,2-Dichloroethylene	0.18	0.10	0.073			0.73 J	0.40	0.29	2	3/3/22 16:54	BRF
trans-1,2-Dichloroethylene	ND	0.10	0.079			ND	0.40	0.31	2	3/3/22 16:54	BRF
1,2-Dichloropropane	ND	0.10	0.054			ND	0.46	0.25	2	3/3/22 16:54	BRF
cis-1,3-Dichloropropene	ND	0.10	0.052			ND	0.45	0.24	2	3/3/22 16:54	BRF
trans-1,3-Dichloropropene	ND	0.10	0.051			ND	0.45	0.23	2	3/3/22 16:54	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098			ND	0.70	0.69	2	3/3/22 16:54	BRF
1,4-Dioxane	ND	1.0	0.083			ND	3.6	0.30	2	3/3/22 16:54	BRF
Ethanol	370	20	8.8	V-35, Z-01		690 J	38	17	10	3/4/22 12:36	BRF
Ethyl Acetate	7.0	1.0	0.51	L-03, V-05, V-34		25 J	3.6	1.8	2	3/3/22 16:54	BRF
Ethylbenzene	0.22	0.10	0.058			0.95	0.43	0.25	2	3/3/22 16:54	BRF
4-Ethyltoluene	ND	0.10	0.061			ND	0.49	0.30	2	3/3/22 16:54	BRF
Heptane	0.57	0.10	0.064			2.3	0.41	0.26	2	3/3/22 16:54	BRF
Hexachlorobutadiene	ND	0.10	0.082	V-05		ND UJ	1.1	0.88	2	3/3/22 16:54	BRF
Hexane	1.0	4.0	0.52	J		3.6	14	1.8	2	3/3/22 16:54	BRF
2-Hexanone (MBK)	ND	0.20	0.050			ND	0.82	0.21	2	3/3/22 16:54	BRF
Isopropanol	11	4.0	0.69			28	9.8	1.7	2	3/3/22 16:54	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.077	L-03, V-05		ND UJ	0.36	0.28	2	3/3/22 16:54	BRF
Methylene Chloride	ND	1.0	0.46			ND	3.5	1.6	2	3/3/22 16:54	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.051			ND	0.41	0.21	2	3/3/22 16:54	BRF
Naphthalene	ND	0.10	0.063	V-05		ND UJ	0.52	0.33	2	3/3/22 16:54	BRF
Propene	ND	4.0	0.88			ND	6.9	1.5	2	3/3/22 16:54	BRF
Styrene	0.080	0.10	0.053	J		0.34	0.43	0.22	2	3/3/22 16:54	BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/18/2022
Field Sample #: FD-021622-1
Sample ID: 22B1135-02
 Sample Matrix: Air
 Sampled: 2/16/2022 00:00

Sample Description/Location: FD-1
 Sub Description/Location:
 Canister ID: 1127
 Canister Size: 6 liter
 Flow Controller ID: 3593
 Sample Type: 24 hr

Work Order: 22B1135
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -9.3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	Results	ppbv		Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
		RL	MDL		Results	RL	MDL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.10	0.054	J	ND	0.69	0.37	2	3/3/22 16:54	BRF	
Tetrachloroethylene	0.090	0.10	0.076		0.61 J	0.68	0.52	2	3/3/22 16:54	BRF	
Tetrahydrofuran	ND	1.0	0.16		ND	2.9	0.48	2	3/3/22 16:54	BRF	
Toluene	1.2	0.10	0.057		4.7	0.38	0.22	2	3/3/22 16:54	BRF	
1,2,4-Trichlorobenzene	ND	0.20	0.070		ND UJ	1.5	0.52	2	3/3/22 16:54	BRF	
				L-03, V-04, V-05							
1,1,1-Trichloroethane	1.6	0.10	0.079	J	8.7 J	0.55	0.43	2	3/3/22 16:54	BRF	
1,1,2-Trichloroethane	ND	0.10	0.070		ND	0.55	0.38	2	3/3/22 16:54	BRF	
Trichloroethylene	1.1	0.10	0.067		5.9 J	0.54	0.36	2	3/3/22 16:54	BRF	
Trichlorofluoromethane (Freon 11)	0.22	0.40	0.12		1.2	2.2	0.66	2	3/3/22 16:54	BRF	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	0.11		ND	3.1	0.85	2	3/3/22 16:54	BRF	
1,2,4-Trimethylbenzene	0.13	0.10	0.044	J	0.62	0.49	0.22	2	3/3/22 16:54	BRF	
1,3,5-Trimethylbenzene	ND	0.10	0.053		ND	0.49	0.26	2	3/3/22 16:54	BRF	
Vinyl Acetate	ND	2.0	0.54		ND UJ	7.0	1.9	2	3/3/22 16:54	BRF	
Vinyl Chloride	1.4	0.10	0.090		3.5	0.26	0.23	2	3/3/22 16:54	BRF	
m&p-Xylene	0.59	0.20	0.11		2.6 J	0.87	0.49	2	3/3/22 16:54	BRF	
o-Xylene	ND	0.10	0.051	J	ND	0.43	0.22	2	3/3/22 16:54	BRF	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	95.0	70-130	3/4/22 12:36
4-Bromofluorobenzene (1)	102	70-130	3/3/22 16:54

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/18/2022
Field Sample #: 224121-IA-44-09
Sample ID: 22B1135-03
 Sample Matrix: Indoor air
 Sampled: 2/16/2022 16:19

Sample Description/Location: H-44-09
 Sub Description/Location:
 Canister ID: 1925
 Canister Size: 6 liter
 Flow Controller ID: 3600
 Sample Type: 24 hr

Work Order: 22B1135
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -12
 Receipt Vacuum(in Hg): -11
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	11	1.6	0.97		26	3.8	2.3	0.8	3/3/22 15:00		BRF
Benzene	0.28	0.040	0.030		0.91	0.13	0.097	0.8	3/3/22 15:00		BRF
Benzyl chloride	ND	0.040	0.035		ND	0.21	0.18	0.8	3/3/22 15:00		BRF
Bromodichloromethane	ND	0.040	0.028		ND	0.27	0.19	0.8	3/3/22 15:00		BRF
Bromoform	ND	0.040	0.027		ND	0.41	0.28	0.8	3/3/22 15:00		BRF
Bromomethane	ND	0.040	0.033		ND	0.16	0.13	0.8	3/3/22 15:00		BRF
1,3-Butadiene	ND	0.040	0.034		ND	0.088	0.074	0.8	3/3/22 15:00		BRF
2-Butanone (MEK)	0.76	1.6	0.43	J	2.3	4.7	1.3	0.8	3/3/22 15:00		BRF
Carbon Disulfide	ND	0.40	0.037		ND	1.2	0.12	0.8	3/3/22 15:00		BRF
Carbon Tetrachloride	0.082	0.040	0.032		0.52	0.25	0.20	0.8	3/3/22 15:00		BRF
Chlorobenzene	ND	0.040	0.027		ND	0.18	0.12	0.8	3/3/22 15:00		BRF
Chloroethane	ND	0.040	0.029		ND	0.11	0.077	0.8	3/3/22 15:00		BRF
Chloroform	0.13	0.040	0.038		0.63	0.20	0.19	0.8	3/3/22 15:00		BRF
Chloromethane	ND	0.080	0.032		ND	0.17	0.066	0.8	3/3/22 15:00		BRF
Cyclohexane	ND	0.040	0.026		ND	0.14	0.091	0.8	3/3/22 15:00		BRF
Dibromochloromethane	ND	0.040	0.026		ND	0.34	0.23	0.8	3/3/22 15:00		BRF
1,2-Dibromoethane (EDB)	ND	0.040	0.024		ND	0.31	0.19	0.8	3/3/22 15:00		BRF
1,2-Dichlorobenzene	ND	0.040	0.023		ND	0.24	0.14	0.8	3/3/22 15:00		BRF
1,3-Dichlorobenzene	ND	0.040	0.022		ND	0.24	0.13	0.8	3/3/22 15:00		BRF
1,4-Dichlorobenzene	0.14	0.040	0.026		0.83	0.24	0.16	0.8	3/3/22 15:00		BRF
Dichlorodifluoromethane (Freon 12)	0.47	0.040	0.039		2.3	0.20	0.19	0.8	3/3/22 15:00		BRF
1,1-Dichloroethane	ND	0.040	0.035		ND	0.16	0.14	0.8	3/3/22 15:00		BRF
1,2-Dichloroethane	ND	0.040	0.036		ND	0.16	0.15	0.8	3/3/22 15:00		BRF
1,1-Dichloroethylene	ND	0.040	0.030		ND	0.16	0.12	0.8	3/3/22 15:00		BRF
cis-1,2-Dichloroethylene	ND	0.040	0.029		ND	0.16	0.12	0.8	3/3/22 15:00		BRF
trans-1,2-Dichloroethylene	ND	0.040	0.031		ND	0.16	0.12	0.8	3/3/22 15:00		BRF
1,2-Dichloropropane	ND	0.040	0.022		ND	0.18	0.10	0.8	3/3/22 15:00		BRF
cis-1,3-Dichloropropene	ND	0.040	0.021		ND	0.18	0.094	0.8	3/3/22 15:00		BRF
trans-1,3-Dichloropropene	ND	0.040	0.020		ND	0.18	0.093	0.8	3/3/22 15:00		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.040	0.039		ND	0.28	0.28	0.8	3/3/22 15:00		BRF
1,4-Dioxane	ND	0.40	0.033		ND	1.4	0.12	0.8	3/3/22 15:00		BRF
Ethanol	950	80	35	V-35, Z-01	1800 J	150	66	40	3/4/22 13:07		BRF
Ethyl Acetate	0.38	0.40	0.20	L-03, V-05, V-34, J	1.4 J	1.4	0.73	0.8	3/3/22 15:00		BRF
Ethylbenzene	0.082	0.040	0.023		0.36	0.17	0.10	0.8	3/3/22 15:00		BRF
4-Ethyltoluene	0.053	0.040	0.025		0.26	0.20	0.12	0.8	3/3/22 15:00		BRF
Heptane	0.15	0.040	0.026		0.63 J	0.16	0.10	0.8	3/3/22 15:00		BRF
Hexachlorobutadiene	ND	0.040	0.033	V-05	ND UJ	0.43	0.35	0.8	3/3/22 15:00		BRF
Hexane	ND	1.6	0.21		ND	5.6	0.73	0.8	3/3/22 15:00		BRF
2-Hexanone (MBK)	ND	0.080	0.020		ND	0.33	0.082	0.8	3/3/22 15:00		BRF
Isopropanol	6.0	1.6	0.28		15	3.9	0.68	0.8	3/3/22 15:00		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.040	0.031	L-03, V-05	ND UJ	0.14	0.11	0.8	3/3/22 15:00		BRF
Methylene Chloride	0.20	0.40	0.19	J	0.69	1.4	0.64	0.8	3/3/22 15:00		BRF
4-Methyl-2-pentanone (MIBK)	ND	0.040	0.021		ND	0.16	0.084	0.8	3/3/22 15:00		BRF
Naphthalene	0.033	0.040	0.025	V-05, J	0.17 J	0.21	0.13	0.8	3/3/22 15:00		BRF
Propene	ND	1.6	0.35		ND	2.8	0.61	0.8	3/3/22 15:00		BRF
Styrene	0.029	0.040	0.021	J	0.12	0.17	0.090	0.8	3/3/22 15:00		BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/18/2022
Field Sample #: 224121-IA-44-09
Sample ID: 22B1135-03
 Sample Matrix: Indoor air
 Sampled: 2/16/2022 16:19

Sample Description/Location: H-44-09
 Sub Description/Location:
 Canister ID: 1925
 Canister Size: 6 liter
 Flow Controller ID: 3600
 Sample Type: 24 hr

Work Order: 22B1135
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -12
 Receipt Vacuum(in Hg): -11
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	Results	ppbv		Flag/Qual	Results	ug/m3		Dilution	Date/Time		Analyst
		RL	MDL			RL	MDL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.040	0.022	L-03, V-04, V-05	ND	0.27	0.15	0.8	3/3/22 15:00	BRF	
Tetrachloroethylene	0.061	0.040	0.031		0.41	0.27	0.21	0.8	3/3/22 15:00	BRF	
Tetrahydrofuran	ND	0.40	0.066		ND	1.2	0.19	0.8	3/3/22 15:00	BRF	
Toluene	0.47	0.040	0.023		1.8 J	0.15	0.086	0.8	3/3/22 15:00	BRF	
1,2,4-Trichlorobenzene	ND	0.080	0.028		ND UJ	0.59	0.21	0.8	3/3/22 15:00	BRF	
1,1,1-Trichloroethane	ND	0.040	0.031	J	ND	0.22	0.17	0.8	3/3/22 15:00	BRF	
1,1,2-Trichloroethane	ND	0.040	0.028		ND	0.22	0.15	0.8	3/3/22 15:00	BRF	
Trichloroethylene	ND	0.040	0.027		ND	0.21	0.14	0.8	3/3/22 15:00	BRF	
Trichlorofluoromethane (Freon 11)	0.23	0.16	0.047		1.3	0.90	0.27	0.8	3/3/22 15:00	BRF	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.068	0.16	0.044		0.52	1.2	0.34	0.8	3/3/22 15:00	BRF	
1,2,4-Trimethylbenzene	0.29	0.040	0.018		1.4	0.20	0.087	0.8	3/3/22 15:00	BRF	
1,3,5-Trimethylbenzene	0.11	0.040	0.021		0.56	0.20	0.10	0.8	3/3/22 15:00	BRF	
Vinyl Acetate	ND	0.80	0.21		NDUJ	2.8	0.76	0.8	3/3/22 15:00	BRF	
Vinyl Chloride	ND	0.040	0.036		ND	0.10	0.092	0.8	3/3/22 15:00	BRF	
m&p-Xylene	0.30	0.080	0.045		1.3	0.35	0.19	0.8	3/3/22 15:00	BRF	
o-Xylene	0.12	0.040	0.020		0.53	0.17	0.089	0.8	3/3/22 15:00	BRF	

Surrogates	% Recovery	% REC Limits
4-Bromofluorobenzene (1)	92.0	70-130
4-Bromofluorobenzene (1)	101	70-130

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/18/2022
Field Sample #: FD-021622-2
Sample ID: 22B1135-04
 Sample Matrix: Air
 Sampled: 2/16/2022 00:00

Sample Description/Location: FD-2
 Sub Description/Location:
 Canister ID: 1386
 Canister Size: 6 liter
 Flow Controller ID: 3058
 Sample Type: 24 hr

Work Order: 22B1135
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -10
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	9.3	1.4	0.84		22	3.3	2.0	0.698	3/3/22 15:31		BRF
Benzene	0.20	0.035	0.026		0.64	0.11	0.084	0.698	3/3/22 15:31		BRF
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.698	3/3/22 15:31		BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	3/3/22 15:31		BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	3/3/22 15:31		BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	3/3/22 15:31		BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	3/3/22 15:31		BRF
2-Butanone (MEK)	ND	1.4	0.37		ND	4.1	1.1	0.698	3/3/22 15:31		BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	3/3/22 15:31		BRF
Carbon Tetrachloride	0.070	0.035	0.028		0.44	0.22	0.17	0.698	3/3/22 15:31		BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	3/3/22 15:31		BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	3/3/22 15:31		BRF
Chloroform	0.11	0.035	0.033		0.54	0.17	0.16	0.698	3/3/22 15:31		BRF
Chloromethane	ND	0.070	0.028		ND	0.14	0.057	0.698	3/3/22 15:31		BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.079	0.698	3/3/22 15:31		BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	3/3/22 15:31		BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	3/3/22 15:31		BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	3/3/22 15:31		BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	3/3/22 15:31		BRF
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	3/3/22 15:31		BRF
Dichlorodifluoromethane (Freon 12)	0.45	0.035	0.034		2.2	0.17	0.17	0.698	3/3/22 15:31		BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	3/3/22 15:31		BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	3/3/22 15:31		BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	3/3/22 15:31		BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	3/3/22 15:31		BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	3/3/22 15:31		BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	3/3/22 15:31		BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	3/3/22 15:31		BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	3/3/22 15:31		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	3/3/22 15:31		BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	3/3/22 15:31		BRF
Ethanol	820	60	26	V-35, Z-01	1500 J	110	50	30	3/4/22 13:38		BRF
Ethyl Acetate	0.30	0.35	0.18	L-03, V-05, V-34, J	1.1 J	1.3	0.64	0.698	3/3/22 15:31		BRF
Ethylbenzene	ND	0.035	0.020		ND	0.15	0.088	0.698	3/3/22 15:31		BRF
4-Ethyltoluene	ND	0.035	0.021		ND	0.17	0.11	0.698	3/3/22 15:31		BRF
Heptane	0.080	0.035	0.022		0.33 J	0.14	0.091	0.698	3/3/22 15:31		BRF
Hexachlorobutadiene	ND	0.035	0.029	V-05	ND UJ	0.37	0.31	0.698	3/3/22 15:31		BRF
Hexane	ND	1.4	0.18		ND	4.9	0.64	0.698	3/3/22 15:31		BRF
2-Hexanone (MBK)	ND	0.070	0.018		ND	0.29	0.072	0.698	3/3/22 15:31		BRF
Isopropanol	5.7	1.4	0.24		14	3.4	0.59	0.698	3/3/22 15:31		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027	L-03, V-05	ND UJ	0.13	0.097	0.698	3/3/22 15:31		BRF
Methylene Chloride	0.30	0.35	0.16	J	1.1	1.2	0.56	0.698	3/3/22 15:31		BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	3/3/22 15:31		BRF
Naphthalene	ND	0.035	0.022	V-05	ND UJ	0.18	0.12	0.698	3/3/22 15:31		BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	3/3/22 15:31		BRF
Styrene	ND	0.035	0.018		ND	0.15	0.078	0.698	3/3/22 15:31		BRF

ALH 3/16/22

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/18/2022
Field Sample #: FD-021622-2
Sample ID: 22B1135-04
 Sample Matrix: Air
 Sampled: 2/16/2022 00:00

Sample Description/Location: FD-2
 Sub Description/Location:
 Canister ID: 1386
 Canister Size: 6 liter
 Flow Controller ID: 3058
 Sample Type: 24 hr

Work Order: 22B1135
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -10
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	Results	ppbv		Flag/Qual	Results	ug/m3		Dilution	Date/Time		Analyst
		RL	MDL			RL	MDL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	3/3/22 15:31		BRF
Tetrachloroethylene	0.062	0.035	0.027		0.42	0.24	0.18	0.698	3/3/22 15:31		BRF
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	3/3/22 15:31		BRF
Toluene	0.14	0.035	0.020		0.52 J	0.13	0.075	0.698	3/3/22 15:31		BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024	L-03, V-04, V-05	ND UJ	0.52	0.18	0.698	3/3/22 15:31		BRF
1,1,1-Trichloroethane	0.066	0.035	0.027		0.36	0.19	0.15	0.698	3/3/22 15:31		BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	3/3/22 15:31		BRF
Trichloroethylene	0.060	0.035	0.024		0.32	0.19	0.13	0.698	3/3/22 15:31		BRF
Trichlorofluoromethane (Freon 11)	0.23	0.14	0.041		1.3	0.78	0.23	0.698	3/3/22 15:31		BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.080	0.14	0.039	J	0.61	1.1	0.30	0.698	3/3/22 15:31		BRF
1,2,4-Trimethylbenzene	ND	0.035	0.015		ND	0.17	0.076	0.698	3/3/22 15:31		BRF
1,3,5-Trimethylbenzene	ND	0.035	0.018		ND	0.17	0.091	0.698	3/3/22 15:31		BRF
Vinyl Acetate	ND	0.70	0.19		ND UJ	2.5	0.66	0.698	3/3/22 15:31		BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	3/3/22 15:31		BRF
m&p-Xylene	ND	0.070	0.039		ND	0.30	0.17	0.698	3/3/22 15:31		BRF
o-Xylene	ND	0.035	0.018		ND	0.15	0.078	0.698	3/3/22 15:31		BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	94.7	70-130	3/3/22 15:31
4-Bromofluorobenzene (1)	90.0	70-130	3/4/22 13:38

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdown
 Date Received: 2/18/2022
Field Sample #: 224121-OA-44-09
Sample ID: 22B1135-05
 Sample Matrix: Ambient Air
 Sampled: 2/16/2022 16:21

Sample Description/Location: H-44-09
 Sub Description/Location:
 Canister ID: 1936
 Canister Size: 6 liter
 Flow Controller ID: 3676
 Sample Type: 24 hr

Work Order: 22B1135
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -8.5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	4.5	1.4	0.84		11	3.3	2.0	0.698	3/3/22 16:02		BRF
Benzene	0.25	0.035	0.026		0.79	0.11	0.084	0.698	3/3/22 16:02		BRF
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.698	3/3/22 16:02		BRF
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	3/3/22 16:02		BRF
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	3/3/22 16:02		BRF
Bromomethane	ND	0.035	0.028		ND	0.14	0.11	0.698	3/3/22 16:02		BRF
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	3/3/22 16:02		BRF
2-Butanone (MEK)	0.67	1.4	0.37	J	2.0	4.1	1.1	0.698	3/3/22 16:02		BRF
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.698	3/3/22 16:02		BRF
Carbon Tetrachloride	0.072	0.035	0.028		0.45	0.22	0.17	0.698	3/3/22 16:02		BRF
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	3/3/22 16:02		BRF
Chloroethane	ND	0.035	0.025		ND	0.092	0.067	0.698	3/3/22 16:02		BRF
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	3/3/22 16:02		BRF
Chloromethane	0.71	0.070	0.028		1.5	0.14	0.057	0.698	3/3/22 16:02		BRF
Cyclohexane	ND	0.035	0.023		ND	0.12	0.079	0.698	3/3/22 16:02		BRF
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	3/3/22 16:02		BRF
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	3/3/22 16:02		BRF
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	3/3/22 16:02		BRF
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	3/3/22 16:02		BRF
1,4-Dichlorobenzene	0.025	0.035	0.023	J	0.15	0.21	0.14	0.698	3/3/22 16:02		BRF
Dichlorodifluoromethane (Freon 12)	0.48	0.035	0.034		2.4	0.17	0.17	0.698	3/3/22 16:02		BRF
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	3/3/22 16:02		BRF
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.698	3/3/22 16:02		BRF
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	3/3/22 16:02		BRF
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	3/3/22 16:02		BRF
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	3/3/22 16:02		BRF
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	3/3/22 16:02		BRF
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	3/3/22 16:02		BRF
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	3/3/22 16:02		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	3/3/22 16:02		BRF
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	3/3/22 16:02		BRF
Ethanol	19	1.4	0.62	L-05	36 J	2.6	1.2	0.698	3/3/22 16:02		BRF
Ethyl Acetate	ND	0.35	0.18	L-03, V-05, V-34	ND UJ	1.3	0.64	0.698	3/3/22 16:02		BRF
Ethylbenzene	0.045	0.035	0.020		0.19	0.15	0.088	0.698	3/3/22 16:02		BRF
4-Ethyltoluene	0.022	0.035	0.021	J	0.11	0.17	0.11	0.698	3/3/22 16:02		BRF
Heptane	0.080	0.035	0.022		0.33	0.14	0.091	0.698	3/3/22 16:02		BRF
Hexachlorobutadiene	ND	0.035	0.029	V-05	ND UJ	0.37	0.31	0.698	3/3/22 16:02		BRF
Hexane	0.19	1.4	0.18	J	0.67	4.9	0.64	0.698	3/3/22 16:02		BRF
2-Hexanone (MBK)	ND	0.070	0.018		ND	0.29	0.072	0.698	3/3/22 16:02		BRF
Isopropanol	1.3	1.4	0.24	J	3.3	3.4	0.59	0.698	3/3/22 16:02		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027	L-03, V-05	ND UJ	0.13	0.097	0.698	3/3/22 16:02		BRF
Methylene Chloride	0.30	0.35	0.16	J	1.0	1.2	0.56	0.698	3/3/22 16:02		BRF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.073	0.698	3/3/22 16:02		BRF
Naphthalene	0.026	0.035	0.022	V-05, J	0.14 J	0.18	0.12	0.698	3/3/22 16:02		BRF
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	3/3/22 16:02		BRF
Styrene	ND	0.035	0.018		ND	0.15	0.078	0.698	3/3/22 16:02		BRF

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ANALYTICAL RESULTS

Project Location: Meeker Avenue Plume Trackdow
 Date Received: 2/18/2022
Field Sample #: 224121-OA-44-09
Sample ID: 22B1135-05
 Sample Matrix: Ambient Air
 Sampled: 2/16/2022 16:21

Sample Description/Location: H-44-09
 Sub Description/Location:
 Canister ID: 1936
 Canister Size: 6 liter
 Flow Controller ID: 3676
 Sample Type: 24 hr

Work Order: 22B1135
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -8.5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	Results	ppbv		Flag/Qual	Results	ug/m3		Dilution	Date/Time		Analyst
		RL	MDL			RL	MDL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	3/3/22 16:02		BRF
Tetrachloroethylene	0.047	0.035	0.027		0.32	0.24	0.18	0.698	3/3/22 16:02		BRF
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	3/3/22 16:02		BRF
Toluene	0.34	0.035	0.020		1.3	0.13	0.075	0.698	3/3/22 16:02		BRF
1,2,4-Trichlorobenzene	ND	0.070	0.024	L-03, V-04, V-05	ND UJ	0.52	0.18	0.698	3/3/22 16:02		BRF
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	3/3/22 16:02		BRF
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	3/3/22 16:02		BRF
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.698	3/3/22 16:02		BRF
Trichlorofluoromethane (Freon 11)	0.22	0.14	0.041		1.3	0.78	0.23	0.698	3/3/22 16:02		BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.070	0.14	0.039	J	0.54	1.1	0.30	0.698	3/3/22 16:02		BRF
1,2,4-Trimethylbenzene	0.081	0.035	0.015		0.40	0.17	0.076	0.698	3/3/22 16:02		BRF
1,3,5-Trimethylbenzene	0.025	0.035	0.018	J	0.12	0.17	0.091	0.698	3/3/22 16:02		BRF
Vinyl Acetate	ND	0.70	0.19		ND UJ	2.5	0.66	0.698	3/3/22 16:02		BRF
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	3/3/22 16:02		BRF
m&p-Xylene	0.15	0.070	0.039		0.67	0.30	0.17	0.698	3/3/22 16:02		BRF
o-Xylene	0.065	0.035	0.018		0.28	0.15	0.078	0.698	3/3/22 16:02		BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	97.4	70-130	3/3/22 16:02

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VALIDATA

Chemical Services, Inc.

2159 Wynnton Pointe, Duluth, GA 30097

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(770) 232-5082 (Fax)

www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY: AECOM Technical Services Northeast, Inc.
PROJECT NAME: Meeker Ave. SVI
CONTRACTED LAB: Merit Laboratories, Inc.
QA/QC LEVEL: DUSR
ANALYTICAL METHOD(S): EPA Method TO-15
VALIDATION GUIDELINES: USEPA Region II data validation SOP (VOA-TO15 HW-31 Rev.6, Analysis of VOCs in Air contained in Canisters by Method TO-15, September 2016), Professional Judgment

SAMPLE MATRIX: Air
TYPES OF ANALYSES: Volatile Organic Compounds (VOC)
DATA REVIEWER(S): Amy L. Hogan
SDG NUMBER: 33024
SAMPLING DATE(S): February 17, 2022

SAMPLES:

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>VOC</u>
224121-IAA-129	S33024.01	X
224121-IAB-129	S33024.02	X
224121-IAB-129DL	S33024.02DL	X
224121-IAC-129	S33024.03	X
224121-IAC-129DL	S33024.03DL	X
224121-IAD-129	S33024.04	X
224121-IAD-129DL	S33024.04DL	X
224121-OA-129	S33024.05	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Merit Laboratories, Inc. – 33024

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per EPA Method TO-15.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

Initial Calibration Verification data was not submitted for this SDG. Data qualification based on the absence of Initial Calibration Verification data was not required. No data qualification was necessary.

Continuing Calibration:

All Continuing Calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were detections in the method blank for 2/21/22 for the following compounds:

Propylene	0.33 ppbv
Acetone	0.16 ppbv
Carbon disulfide	0.02 ppbv
1,4-dichlorobenzene	0.02 ppbv
1,2,4-trichlorobenzene	0.04 ppbv
Naphthalene	0.04 ppbv

Since the blank results were less than the equal to the RL, the positive results for these compounds in associated samples 224121-IAA-129, 224121-IAC-129, 224121-IAD-129 and 224121-OA-129, which were less than the RL, were qualified as undetected (U) with the result being raised to the RL.

There were detections in the method blank for 2/22/22 for the following compounds:

Propylene	0.30 ppbv
Isopropyl alcohol	0.09 ppbv
Carbon disulfide	0.02 ppbv
1,2-dibromoethane	0.01 ppbv
1,3-dichlorobenzene	0.02 ppbv
1,4-dichlorobenzene	0.04 ppbv
1,2,4-trichlorobenzene	0.05 ppbv
Naphthalene	0.05 ppbv

Since the blank results were less than the equal to the RL, the positive results for these compounds in associated sample 224121-IAB-129, which were less than the RL, were qualified as undetected (U) with the result being raised to the RL.

Canister Blanks:

There were no detects in the canister check blanks for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

Two LCS / LCSD sets were analyzed by the laboratory for this SDG. The Percent Recovery (%Rs) for the LCSD on 2/22/22 was 133% for 1,2,4-trichlorobenzene, which exceeded the 70-130% QC limits. Since the result for this compound was non-detect, based on blank

contamination, no data qualification was necessary.

IX.) Matrix Duplicate:

Matrix Duplicate analysis data was not submitted for this SDG. Data qualification based on the absence of MD data was not required. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

The acetone result for sample 224121-IAA-129 exceeded the linear calibration range. The result was qualified as estimated (J).

The acetone, ethanol, hexane, and heptane results for the initial analysis of sample 224121-IAB-129 exceeded the linear calibration range. A dilution analysis of the sample was performed with all calibration criteria met for ethanol, hexane and heptane. The dilution analysis result for acetone still exceeded the linear calibration range. The results for these compounds in the initial analysis were qualified as estimated (J). Citing the linear calibration range exceedances and professional judgment, the validator has determined that the dilution analysis results for these compounds for the sample to be of preferable data quality to the initial analysis results for these compounds.

The acetone, ethanol, hexane, and heptane results for the initial analysis of sample 224121-IAC-129 exceeded the linear calibration range. A dilution analysis of the sample was performed with all calibration criteria met for ethanol, hexane and heptane. The dilution analysis result for acetone still exceeded the linear calibration range. The results for these compounds in the initial analysis were qualified as estimated (J). Citing the linear calibration range exceedances and professional judgment, the validator has determined that the dilution analysis results for these compounds for the sample to be of preferable data quality to the initial analysis results for these compounds.

The acetone, hexane, and heptane results for the initial analysis of sample 224121-IAD-129 exceeded the linear calibration range. A dilution analysis of the sample was performed with all calibration criteria met for hexane and heptane. The dilution analysis result for acetone still exceeded the linear calibration range.. The results for these compounds in the initial analysis were

qualified as estimated (J). Citing the linear calibration range exceedances and professional judgment, the validator has determined that the dilution analysis results for these compounds for the sample to be of preferable data quality to the initial analysis results for these compounds.

All other CRQL criteria were met.

Appendix A

Qualified Form Is



Analytical Laboratory Report

Lab Sample ID: S33024.01

Sample Tag: 224121-IAA-129

Collected Date/Time: 02/17/2022 07:15 - 02/17/2022 14:20

Matrix: Air

COC Reference: A6076

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-6	N/A	02/21/22 13:05	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 02/21/22 18:56, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	219.5	2.0	0.058	ppbv	1	67-64-1	E
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.4	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.040	0.5	0.019	ppbv	1	75-15-0	JB
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.030	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.590	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	3.5	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.030	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	25.0	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	3.2	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	7.7	2.0	0.049	ppbv	1	141-78-6	

E-Concentration exceeds calibration range

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S33024.01 (continued)

Sample Tag: 224121-IAA-129

TO-15, Method: TO-15, Run Date: 02/21/22 18:56, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.110	0.2	0.032	ppbv	1	622-96-8	J
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	16.9	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	9.5	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	0.090	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	2.4	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.6	0.5	0.14	ppbv	1	75-09-2	
2-Butanone (MEK)	1.970	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.050	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	35	0.038	ppbv	1	115-07-1	X
Styrene	0.100	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	0.060	0.5	0.015	ppbv	1	120-82-1	JB
1,2,4-Trimethylbenzene	0.2	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.060	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	Not detected	0.6	0.014	ppbv	1	540-84-1	X
Tert-butyl Alcohol	0.100	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.8	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.100	0.2	0.029	ppbv	1	109-99-9	J
Toluene	27.3	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.180	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	2.1	0.4	0.038	ppbv	1		
o-Xylene	0.6	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	2.6	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 02/21/22 18:56, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	521.4	4.8	0.14	ug/m3	1	67-64-1	-E---J
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	1.3	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	1.6 ---0.12---	1.6	0.059	ug/m3	1	75-15-0	JB--U

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference

E-Concentration exceeds calibration range

ALH 3/17/22



Analytical Laboratory Report

Lab Sample ID: S33024.01 (continued)

Sample Tag: 224121-IAA-129

TO-15, Method: TO-15, Run Date: 02/21/22 18:56, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.15	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	1.22	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	12	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 ~~0.18~~	1.2	0.11	ug/m3	1	106-46-7	JB--U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	47.1	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	14	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	28	7.2	0.18	ug/m3	1	141-78-6	
4-Ethyltoluene	0.541	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	69.3	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	33	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	0.37	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	5.9	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	2.1	1.7	0.49	ug/m3	1	75-09-2	
2-Butanone (MEK)	5.810	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.26~~	1.0	0.052	ug/m3	1	91-20-3	JB--U
Propylene*	Not detected	60	0.065	ug/m3	1	115-07-1	X
Styrene	0.426	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	3.7 ~~0.45~~	3.7	0.11	ug/m3	1	120-82-1	JB--U
1,2,4-Trimethylbenzene	0.98	0.98	0.14	ug/m3	1	95-63-6	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference

ALH 3/17/22



Analytical Laboratory Report

Lab Sample ID: S33024.01 (continued)

Sample Tag: 224121-IAA-129

TO-15, Method: TO-15, Run Date: 02/21/22 18:56, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,3,5-Trimethylbenzene	0.29	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	Not detected	2.8	0.065	ug/m3	1	540-84-1	X
Tert-butyl Alcohol	0.303	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	5.4	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	0.295	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	103	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.01	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	9.1	1.7	0.16	ug/m3	1		
o-Xylene	2.6	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	11	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33024.02
Sample Tag: 224121-IAB-129
Collected Date/Time: 02/17/2022 07:20 - 02/17/2022 14:30
Matrix: Air
COC Reference: A6076

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-7	N/A	02/21/22 13:05	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 02/22/22 21:16, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	1,368.7	2.0	0.058	ppbv	1	67-64-1	E
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	Not detected	0.6	0.019	ppbv	1	71-43-2	JX
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.030	0.5	0.019	ppbv	1	75-15-0	JB
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.040	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.550	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.070	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	6.0	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.030	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	147.9	2.5	0.068	ppbv	1	64-17-5	E
Ethylbenzene	3.3	0.2	0.020	ppbv	1	100-41-4	

E-Concentration exceeds calibration range
J-Estimated value less than reporting limit, but greater than MDL X-Elevated reporting limit due to matrix interference
B-Compound also found in associated method blank

Lab Sample ID: S33024.02 (continued)

Sample Tag: 224121-IAB-129

TO-15, Method: TO-15, Run Date: 02/22/22 21:16, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Ethyl Acetate*	13.2	2.0	0.049	ppbv	1	141-78-6	
4-Ethyltoluene	0.150	0.2	0.032	ppbv	1	622-96-8	J
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	176.6	0.2	0.015	ppbv	1	142-82-5	E
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	167.6	0.2	0.019	ppbv	1	110-54-3	E
2-Hexanone*	0.080	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	7.3	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	2.8	0.5	0.14	ppbv	1	75-09-2	
2-Butanone (MEK)	Not detected	6.8	0.046	ppbv	1	78-93-3	X
4-Methyl-2-pentanone (MIBK)	0.090	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.070	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	315	0.038	ppbv	1	115-07-1	X
Styrene	0.2	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	0.040	0.5	0.015	ppbv	1	120-82-1	JB
1,2,4-Trimethylbenzene	0.4	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.130	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	1.9	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.320	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.9	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	22.4	0.2	0.029	ppbv	1	109-99-9	
Toluene	42.6	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.180	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	2.7	0.4	0.038	ppbv	1		
o-Xylene	0.9	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	3.6	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 02/22/22 21:16, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	3,251.3	4.8	0.14	ug/m3	1	67-64-1	E, J
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	Not detected	1.9	0.061	ug/m3	1	71-43-2	JX
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	

J-Estimated value less than reporting limit, but greater than MDL

E-Concentration exceeds calibration range

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33024.02 (continued)

Sample Tag: 224121-IAB-129

TO-15, Method: TO-15, Run Date: 02/22/22 21:16, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon disulfide	1.6 ~~0.093~~	1.6	0.059	ug/m3	1	75-15-0	~~JB~~ -U
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.20	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	1.14	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.44	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	21	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 ~~0.18~~	1.2	0.11	ug/m3	1	106-46-7	~~JB~~ -U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	278.7	4.7	0.13	ug/m3	1	64-17-5	~~E~~ -J
Ethylbenzene	14	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	47.6	7.2	0.18	ug/m3	1	141-78-6	
4-Ethyltoluene	0.737	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	723.8	0.82	0.061	ug/m3	1	142-82-5	~~E~~ -J
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	590.7	0.70	0.067	ug/m3	1	110-54-3	~~E~~ -J
2-Hexanone*	0.33	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	18	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	9.7	1.7	0.49	ug/m3	1	75-09-2	
2-Butanone (MEK)	Not detected	20	0.14	ug/m3	1	78-93-3	X
4-Methyl-2-pentanone (MIBK)	0.37	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.37~~	1.0	0.052	ug/m3	1	91-20-3	~~JB~~ -U
Propylene*	Not detected	542	0.065	ug/m3	1	115-07-1	X
Styrene	0.85	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	3.7 ~~0.30~~	3.7	0.11	ug/m3	1	120-82-1	~~JB~~ -U

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

E-Concentration exceeds calibration range

X-Elevated reporting limit due to matrix interference

ALH 3/17/22

Lab Sample ID: S33024.02 (continued)

Sample Tag: 224121-IAB-129

TO-15, Method: TO-15, Run Date: 02/22/22 21:16, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2,4-Trimethylbenzene	2.0	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	0.639	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	8.9	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	0.970	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	6.1	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	66.1	0.59	0.086	ug/m3	1	109-99-9	
Toluene	161	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.01	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	12	1.7	0.16	ug/m3	1		
o-Xylene	3.9	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	16	2.6	0.25	ug/m3	1	1330-20-7	

TO-15 (Replicate 01), Method: TO-15, Run Date: 02/23/22 10:15, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	1,260	20	0.58	ppbv	10	67-64-1	YE
1,3-Butadiene	Not detected	20	0.29	ppbv	10	106-99-0	Y
Benzene	Not detected	2	0.19	ppbv	10	71-43-2	Y
Bromodichloromethane	Not detected	2	0.23	ppbv	10	75-27-4	Y
Bromoform	Not detected	2	0.23	ppbv	10	75-25-2	Y
Bromomethane	Not detected	2	0.33	ppbv	10	74-83-9	Y
Vinyl bromide	Not detected	2	0.35	ppbv	10	593-60-2	Y
Benzyl chloride	Not detected	2	0.29	ppbv	10	100-44-7	Y
Carbon disulfide	0.20	5	0.19	ppbv	10	75-15-0	JYB
Chlorobenzene	Not detected	2	0.17	ppbv	10	108-90-7	Y
Chloroethane	Not detected	20	0.46	ppbv	10	75-00-3	Y
Chloroform	Not detected	2	0.20	ppbv	10	67-66-3	Y
Chloromethane	Not detected	20	0.40	ppbv	10	74-87-3	Y
3-Chloropropene	Not detected	20	0.24	ppbv	10	107-05-1	Y
2-Chlorotoluene	Not detected	2	0.24	ppbv	10	95-49-8	Y
Carbon tetrachloride	Not detected	2	0.20	ppbv	10	56-23-5	Y
Cyclohexane	5	2	0.24	ppbv	10	110-82-7	Y
1,1-Dichloroethane	Not detected	2	0.25	ppbv	10	75-34-3	Y
1,1-Dichloroethene	Not detected	2	0.24	ppbv	10	75-35-4	Y
1,2-Dibromoethane	Not detected	2	0.10	ppbv	10	106-93-4	Y
1,2-Dichloroethane	Not detected	2	0.28	ppbv	10	107-06-2	Y
1,2-Dichloropropane	Not detected	2	0.20	ppbv	10	78-87-5	Y
1,4-Dioxane	Not detected	25	0.38	ppbv	10	123-91-1	Y
Dichlorodifluoromethane	0.40	2	0.26	ppbv	10	75-71-8	JY
Dibromochloromethane	Not detected	2	0.17	ppbv	10	124-48-1	Y
trans-1,2-Dichloroethene	Not detected	2	0.21	ppbv	10	156-60-5	Y
cis-1,2-Dichloroethene	Not detected	2	0.23	ppbv	10	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	2	0.20	ppbv	10	10061-01-5	Y
1,3-Dichlorobenzene	Not detected	2	0.20	ppbv	10	541-73-1	Y
1,2-Dichlorobenzene	Not detected	2	0.24	ppbv	10	95-50-1	Y

J-Estimated value less than reporting limit, but greater than MDL

Y-Elevated reporting limit due to high target concentration E-Concentration exceeds calibration range

B-Compound also found in associated method blank

Lab Sample ID: S33024.02 (continued)

Sample Tag: 224121-IAB-129

TO-15 (Replicate 01), Method: TO-15, Run Date: 02/23/22 10:15, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,4-Dichlorobenzene	Not detected	2	0.19	ppbv	10	106-46-7	Y
trans-1,3-Dichloropropene	Not detected	2	0.13	ppbv	10	10061-02-6	Y
Ethanol*	118	25	0.68	ppbv	10	64-17-5	Y
Ethylbenzene	3	2	0.20	ppbv	10	100-41-4	Y
Ethyl Acetate*	9.20	20	0.49	ppbv	10	141-78-6	JY
4-Ethyltoluene	Not detected	2	0.32	ppbv	10	622-96-8	Y
Freon 113	Not detected	2	0.24	ppbv	10	76-13-1	Y
Freon 114	Not detected	2	0.29	ppbv	10	76-14-2	Y
Heptane	163	2	0.15	ppbv	10	142-82-5	Y
Hexachlorobutadiene	Not detected	2	0.29	ppbv	10	87-68-3	Y
Hexane	149	2	0.19	ppbv	10	110-54-3	Y
2-Hexanone*	Not detected	5	0.21	ppbv	10	591-78-6	Y
Isopropyl Alcohol*	Not detected	20	0.76	ppbv	10	67-63-0	Y
Methylene chloride	3.0	5	1.4	ppbv	10	75-09-2	JY
2-Butanone (MEK)	Not detected	20	0.46	ppbv	10	78-93-3	Y
4-Methyl-2-pentanone (MIBK)	Not detected	5	0.17	ppbv	10	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	2	0.10	ppbv	10	1634-04-4	Y
Methyl methacrylate	Not detected	2	0.17	ppbv	10	80-62-6	Y
Naphthalene	0.20	2	0.10	ppbv	10	91-20-3	JYB
Propylene*	Not detected	405	0.38	ppbv	10	115-07-1	YX
Styrene	0.20	2	0.15	ppbv	10	100-42-5	JY
1,1,1-Trichloroethane	Not detected	2	0.17	ppbv	10	71-55-6	Y
1,1,2,2-Tetrachloroethane	Not detected	2	0.14	ppbv	10	79-34-5	Y
1,1,2-Trichloroethane	Not detected	2	0.15	ppbv	10	79-00-5	Y
1,2,4-Trichlorobenzene	Not detected	5	0.15	ppbv	10	120-82-1	Y
1,2,4-Trimethylbenzene	0.30	2	0.29	ppbv	10	95-63-6	JY
1,3,5-Trimethylbenzene	Not detected	2	0.25	ppbv	10	108-67-8	Y
2,2,4-Trimethylpentane	1.70	2	0.14	ppbv	10	540-84-1	JY
Tert-butyl Alcohol	Not detected	10	0.41	ppbv	10	75-65-0	Y
Tetrachloroethene	0.80	2	0.24	ppbv	10	127-18-4	JY
Tetrahydrofuran*	20	2	0.29	ppbv	10	109-99-9	Y
Toluene	36	2	0.13	ppbv	10	108-88-3	Y
Trichloroethene	Not detected	2	0.23	ppbv	10	79-01-6	Y
Trichlorofluoromethane	0.20	2	0.17	ppbv	10	75-69-4	JY
Vinyl chloride	Not detected	2	0.29	ppbv	10	75-01-4	Y
Vinyl acetate	Not detected	20	0.15	ppbv	10	108-05-4	Y
p,m-Xylene	2.10	4	0.38	ppbv	10		JY
o-Xylene	0.60	2	0.20	ppbv	10	95-47-6	JY
Total Xylenes	2.70	6	0.58	ppbv	10	1330-20-7	JY

TO-15 (Replicate 01), Method: TO-15, Run Date: 02/23/22 10:15, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	2,990	48	1.4	ug/m3	10	67-64-1	~~YE~~ J
1,3-Butadiene	Not detected	44	0.64	ug/m3	10	106-99-0	Y
Benzene	Not detected	6.4	0.61	ug/m3	10	71-43-2	Y

Y-Elevated reporting limit due to high target concentration

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference

E-Concentration exceeds calibration range



Analytical Laboratory Report

Lab Sample ID: S33024.02 (continued)

Sample Tag: 224121-IAB-129

TO-15 (Replicate 01), Method: TO-15, Run Date: 02/23/22 10:15, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Bromodichloromethane	Not detected	13	1.5	ug/m3	10	75-27-4	Y
Bromoform	Not detected	21	2.4	ug/m3	10	75-25-2	Y
Bromomethane	Not detected	7.8	1.3	ug/m3	10	74-83-9	Y
Vinyl bromide	Not detected	8.7	1.5	ug/m3	10	593-60-2	Y
Benzyl chloride	Not detected	10	1.5	ug/m3	10	100-44-7	Y
Carbon disulfide	16 ~~0.62~~	16	0.59	ug/m3	10	75-15-0	JYB---U
Chlorobenzene	Not detected	9.2	0.78	ug/m3	10	108-90-7	Y
Chloroethane	Not detected	53	1.2	ug/m3	10	75-00-3	Y
Chloroform	Not detected	9.8	0.98	ug/m3	10	67-66-3	Y
Chloromethane	Not detected	41	0.83	ug/m3	10	74-87-3	Y
3-Chloropropene	Not detected	63	0.75	ug/m3	10	107-05-1	Y
2-Chlorotoluene	Not detected	10	1.2	ug/m3	10	95-49-8	Y
Carbon tetrachloride	Not detected	13	1.3	ug/m3	10	56-23-5	Y
Cyclohexane	17	6.9	0.83	ug/m3	10	110-82-7	Y
1,1-Dichloroethane	Not detected	8.1	1.0	ug/m3	10	75-34-3	Y
1,1-Dichloroethene	Not detected	7.9	0.95	ug/m3	10	75-35-4	Y
1,2-Dibromoethane	Not detected	15	0.77	ug/m3	10	106-93-4	Y
1,2-Dichloroethane	Not detected	8.1	1.1	ug/m3	10	107-06-2	Y
1,2-Dichloropropane	Not detected	9.2	0.92	ug/m3	10	78-87-5	Y
1,4-Dioxane	Not detected	90	1.4	ug/m3	10	123-91-1	Y
Dichlorodifluoromethane	2.0	9.9	1.3	ug/m3	10	75-71-8	JY
Dibromochloromethane	Not detected	17	1.4	ug/m3	10	124-48-1	Y
trans-1,2-Dichloroethene	Not detected	7.9	0.83	ug/m3	10	156-60-5	Y
cis-1,2-Dichloroethene	Not detected	7.9	0.91	ug/m3	10	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	9.1	0.91	ug/m3	10	10061-01-5	Y
1,3-Dichlorobenzene	Not detected	12	1.2	ug/m3	10	541-73-1	Y
1,2-Dichlorobenzene	Not detected	12	1.4	ug/m3	10	95-50-1	Y
1,4-Dichlorobenzene	Not detected	12	1.1	ug/m3	10	106-46-7	Y
trans-1,3-Dichloropropene	Not detected	9.1	0.59	ug/m3	10	10061-02-6	Y
Ethanol*	222	47	1.3	ug/m3	10	64-17-5	Y
Ethylbenzene	13	8.7	0.87	ug/m3	10	100-41-4	Y
Ethyl Acetate*	33.2	72	1.8	ug/m3	10	141-78-6	JY
4-Ethyltoluene	Not detected	9.8	1.6	ug/m3	10	622-96-8	Y
Freon 113	Not detected	15	1.8	ug/m3	10	76-13-1	Y
Freon 114	Not detected	14	2.0	ug/m3	10	76-14-2	Y
Heptane	668	8.2	0.61	ug/m3	10	142-82-5	Y
Hexachlorobutadiene	Not detected	21	3.1	ug/m3	10	87-68-3	Y
Hexane	525	7.0	0.67	ug/m3	10	110-54-3	Y
2-Hexanone*	Not detected	20	0.86	ug/m3	10	591-78-6	Y
Isopropyl Alcohol*	Not detected	49	1.9	ug/m3	10	67-63-0	Y
Methylene chloride	10	17	4.9	ug/m3	10	75-09-2	JY
2-Butanone (MEK)	Not detected	59	1.4	ug/m3	10	78-93-3	Y
4-Methyl-2-pentanone (MIBK)	Not detected	20	0.70	ug/m3	10	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	7.2	0.36	ug/m3	10	1634-04-4	Y
Methyl methacrylate	Not detected	8.2	0.70	ug/m3	10	80-62-6	Y
Naphthalene	10 ~~1.0~~	10	0.52	ug/m3	10	91-20-3	JYB-U
Propylene*	Not detected	697	0.65	ug/m3	10	115-07-1	YX

Y-Elevated reporting limit due to high target concentration

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference

ALH 3/17/22



Analytical Laboratory Report

Lab Sample ID: S33024.02 (continued)
Sample Tag: 224121-IAB-129

TO-15 (Replicate 01), Method: TO-15, Run Date: 02/23/22 10:15, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Styrene	0.85	8.5	0.64	ug/m3	10	100-42-5	JY
1,1,1-Trichloroethane	Not detected	11	0.93	ug/m3	10	71-55-6	Y
1,1,2,2-Tetrachloroethane	Not detected	14	0.96	ug/m3	10	79-34-5	Y
1,1,2-Trichloroethane	Not detected	11	0.82	ug/m3	10	79-00-5	Y
1,2,4-Trichlorobenzene	Not detected	37	1.1	ug/m3	10	120-82-1	Y
1,2,4-Trimethylbenzene	1.5	9.8	1.4	ug/m3	10	95-63-6	JY
1,3,5-Trimethylbenzene	Not detected	9.8	1.2	ug/m3	10	108-67-8	Y
2,2,4-Trimethylpentane	7.94	9.3	0.65	ug/m3	10	540-84-1	JY
Tert-butyl Alcohol	Not detected	30	1.2	ug/m3	10	75-65-0	Y
Tetrachloroethene	5.4	14	1.6	ug/m3	10	127-18-4	JY
Tetrahydrofuran*	59	5.9	0.86	ug/m3	10	109-99-9	Y
Toluene	140	7.5	0.49	ug/m3	10	108-88-3	Y
Trichloroethene	Not detected	11	1.2	ug/m3	10	79-01-6	Y
Trichlorofluoromethane	1.1	11	0.96	ug/m3	10	75-69-4	JY
Vinyl chloride	Not detected	5.1	0.74	ug/m3	10	75-01-4	Y
Vinyl acetate	Not detected	70	0.53	ug/m3	10	108-05-4	Y
p,m-Xylene	9.12	17	1.6	ug/m3	10		JY
o-Xylene	2.6	8.7	0.87	ug/m3	10	95-47-6	JY
Total Xylenes	11.7	26	2.5	ug/m3	10	1330-20-7	JY

J-Estimated value less than reporting limit, but greater than MDL Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S33024.03

Sample Tag: 224121-IAC-129

Collected Date/Time: 02/17/2022 07:25 - 02/17/2022 14:40

Matrix: Air

COC Reference: A6076

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-6	N/A	02/21/22 13:05	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 02/21/22 20:19, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	1,733.8	2.0	0.058	ppbv	1	67-64-1	E
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	Not detected	0.6	0.019	ppbv	1	71-43-2	X
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.060	0.5	0.019	ppbv	1	75-15-0	JB
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.100	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.670	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	Not detected	0.2	0.020	ppbv	1	56-23-5	
Cyclohexane	3.4	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.040	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	731.8	2.5	0.068	ppbv	1	64-17-5	E
Ethylbenzene	0.3	0.2	0.020	ppbv	1	100-41-4	

E-Concentration exceeds calibration range

X-Elevated reporting limit due to matrix interference

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Lab Sample ID: S33024.03 (continued)

Sample Tag: 224121-IAC-129

TO-15, Method: TO-15, Run Date: 02/21/22 20:19, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Ethyl Acetate*	0.890	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.130	0.2	0.032	ppbv	1	622-96-8	J
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	246.1	0.2	0.015	ppbv	1	142-82-5	E
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	228.5	0.2	0.019	ppbv	1	110-54-3	E
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	37.6	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.38	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	Not detected	5.3	0.046	ppbv	1	78-93-3	X
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.060	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	395	0.038	ppbv	1	115-07-1	
Styrene	0.120	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	0.030	0.5	0.015	ppbv	1	120-82-1	JB
1,2,4-Trimethylbenzene	0.4	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.130	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	Not detected	3.0	0.014	ppbv	1	540-84-1	X
Tert-butyl Alcohol	0.440	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.130	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	14.8	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.180	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	1.1	0.4	0.038	ppbv	1		
o-Xylene	0.3	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	1.4	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 02/21/22 20:19, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	4,118.6	4.8	0.14	ug/m3	1	67-64-1	-E-J
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	Not detected	1.9	0.061	ug/m3	1	71-43-2	X
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	

J-Estimated value less than reporting limit, but greater than MDL

E-Concentration exceeds calibration range

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

Lab Sample ID: S33024.03 (continued)

Sample Tag: 224121-IAC-129

TO-15, Method: TO-15, Run Date: 02/21/22 20:19, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon disulfide	1.6 ~~0.19~~	1.6	0.059	ug/m3	1	75-15-0	JB--U
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.488	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	1.38	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	Not detected	1.3	0.13	ug/m3	1	56-23-5	
Cyclohexane	12	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 ~~0.24~~	1.2	0.11	ug/m3	1	106-46-7	JB--U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	1,379	4.7	0.13	ug/m3	1	64-17-5	E--J
Ethylbenzene	1.3	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	3.21	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.639	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	1,009	0.82	0.061	ug/m3	1	142-82-5	E--J
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	805.4	0.70	0.067	ug/m3	1	110-54-3	E--J
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	92.4	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	1.3	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	Not detected	16	0.14	ug/m3	1	78-93-3	X
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.31~~	1.0	0.052	ug/m3	1	91-20-3	JB--J
Propylene*	Not detected	680	0.065	ug/m3	1	115-07-1	
Styrene	0.511	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	3.7 ~~0.22~~	3.7	0.11	ug/m3	1	120-82-1	JB--U

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

E-Concentration exceeds calibration range

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S33024.03 (continued)

Sample Tag: 224121-IAC-129

TO-15, Method: TO-15, Run Date: 02/21/22 20:19, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2,4-Trimethylbenzene	2.0	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	0.639	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	Not detected	14	0.065	ug/m3	1	540-84-1	X
Tert-butyl Alcohol	1.33	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.882	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	55.8	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.01	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	4.8	1.7	0.16	ug/m3	1		
o-Xylene	1.3	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	6.1	2.6	0.25	ug/m3	1	1330-20-7	

TO-15 (Replicate 01), Method: TO-15, Run Date: 02/22/22 11:47, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	1,930	20	0.58	ppbv	10	67-64-1	YE
1,3-Butadiene	Not detected	20	0.29	ppbv	10	106-99-0	Y
Benzene	Not detected	2	0.19	ppbv	10	71-43-2	Y
Bromodichloromethane	Not detected	2	0.23	ppbv	10	75-27-4	Y
Bromoform	Not detected	2	0.23	ppbv	10	75-25-2	Y
Bromomethane	Not detected	2	0.33	ppbv	10	74-83-9	Y
Vinyl bromide	Not detected	2	0.35	ppbv	10	593-60-2	Y
Benzyl chloride	Not detected	2	0.29	ppbv	10	100-44-7	Y
Carbon disulfide	0.20	5	0.19	ppbv	10	75-15-0	JYB
Chlorobenzene	Not detected	2	0.17	ppbv	10	108-90-7	Y
Chloroethane	Not detected	20	0.46	ppbv	10	75-00-3	Y
Chloroform	Not detected	2	0.20	ppbv	10	67-66-3	Y
Chloromethane	Not detected	20	0.40	ppbv	10	74-87-3	Y
3-Chloropropene	Not detected	20	0.24	ppbv	10	107-05-1	Y
2-Chlorotoluene	Not detected	2	0.24	ppbv	10	95-49-8	Y
Carbon tetrachloride	Not detected	2	0.20	ppbv	10	56-23-5	Y
Cyclohexane	3	2	0.24	ppbv	10	110-82-7	Y
1,1-Dichloroethane	Not detected	2	0.25	ppbv	10	75-34-3	Y
1,1-Dichloroethene	Not detected	2	0.24	ppbv	10	75-35-4	Y
1,2-Dibromoethane	Not detected	2	0.10	ppbv	10	106-93-4	Y
1,2-Dichloroethane	Not detected	2	0.28	ppbv	10	107-06-2	Y
1,2-Dichloropropane	Not detected	2	0.20	ppbv	10	78-87-5	Y
1,4-Dioxane	Not detected	25	0.38	ppbv	10	123-91-1	Y
Dichlorodifluoromethane	0.50	2	0.26	ppbv	10	75-71-8	JY
Dibromochloromethane	Not detected	2	0.17	ppbv	10	124-48-1	Y
trans-1,2-Dichloroethene	Not detected	2	0.21	ppbv	10	156-60-5	Y
cis-1,2-Dichloroethene	Not detected	2	0.23	ppbv	10	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	2	0.20	ppbv	10	10061-01-5	Y
1,3-Dichlorobenzene	Not detected	2	0.20	ppbv	10	541-73-1	Y

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration E-Concentration exceeds calibration range

B-Compound also found in associated method blank

Lab Sample ID: S33024.03 (continued)

Sample Tag: 224121-IAC-129

TO-15 (Replicate 01), Method: TO-15, Run Date: 02/22/22 11:47, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dichlorobenzene	Not detected	2	0.24	ppbv	10	95-50-1	Y
1,4-Dichlorobenzene	Not detected	2	0.19	ppbv	10	106-46-7	Y
trans-1,3-Dichloropropene	Not detected	2	0.13	ppbv	10	10061-02-6	Y
Ethanol*	659	25	0.68	ppbv	10	64-17-5	Y
Ethylbenzene	0.30	2	0.20	ppbv	10	100-41-4	JY
Ethyl Acetate*	Not detected	20	0.49	ppbv	10	141-78-6	Y
4-Ethyltoluene	Not detected	2	0.32	ppbv	10	622-96-8	Y
Freon 113	Not detected	2	0.24	ppbv	10	76-13-1	Y
Freon 114	Not detected	2	0.29	ppbv	10	76-14-2	Y
Heptane	242	2	0.15	ppbv	10	142-82-5	Y
Hexachlorobutadiene	Not detected	2	0.29	ppbv	10	87-68-3	Y
Hexane	214	2	0.19	ppbv	10	110-54-3	Y
2-Hexanone*	Not detected	5	0.21	ppbv	10	591-78-6	Y
Isopropyl Alcohol*	40	20	0.76	ppbv	10	67-63-0	Y
Methylene chloride	Not detected	5	1.4	ppbv	10	75-09-2	Y
2-Butanone (MEK)	Not detected	20	0.46	ppbv	10	78-93-3	Y
4-Methyl-2-pentanone (MIBK)	Not detected	5	0.17	ppbv	10	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	2	0.10	ppbv	10	1634-04-4	Y
Methyl methacrylate	Not detected	2	0.17	ppbv	10	80-62-6	Y
Naphthalene	0.10	2	0.10	ppbv	10	91-20-3	JYB
Propylene*	Not detected	545	0.38	ppbv	10	115-07-1	YX
Styrene	Not detected	2	0.15	ppbv	10	100-42-5	Y
1,1,1-Trichloroethane	Not detected	2	0.17	ppbv	10	71-55-6	Y
1,1,2,2-Tetrachloroethane	Not detected	2	0.14	ppbv	10	79-34-5	Y
1,1,2-Trichloroethane	Not detected	2	0.15	ppbv	10	79-00-5	Y
1,2,4-Trichlorobenzene	Not detected	5	0.15	ppbv	10	120-82-1	Y
1,2,4-Trimethylbenzene	0.30	2	0.29	ppbv	10	95-63-6	JY
1,3,5-Trimethylbenzene	Not detected	2	0.25	ppbv	10	108-67-8	Y
2,2,4-Trimethylpentane	Not detected	3	0.14	ppbv	10	540-84-1	YX
Tert-butyl Alcohol	Not detected	10	0.41	ppbv	10	75-65-0	Y
Tetrachloroethene	Not detected	2	0.24	ppbv	10	127-18-4	Y
Tetrahydrofuran*	Not detected	2	0.29	ppbv	10	109-99-9	Y
Toluene	13	2	0.13	ppbv	10	108-88-3	Y
Trichloroethene	Not detected	2	0.23	ppbv	10	79-01-6	Y
Trichlorofluoromethane	0.20	2	0.17	ppbv	10	75-69-4	JY
Vinyl chloride	Not detected	2	0.29	ppbv	10	75-01-4	Y
Vinyl acetate	Not detected	20	0.15	ppbv	10	108-05-4	Y
p,m-Xylene	0.80	4	0.38	ppbv	10		JY
o-Xylene	0.30	2	0.20	ppbv	10	95-47-6	JY
Total Xylenes	1.10	6	0.58	ppbv	10	1330-20-7	JY

TO-15 (Replicate 01), Method: TO-15, Run Date: 02/22/22 11:47, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	4,580	48	1.4	ug/m3	10	67-64-1	YE-J
1,3-Butadiene	Not detected	44	0.64	ug/m3	10	106-99-0	Y

Y-Elevated reporting limit due to high target concentration

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference

E-Concentration exceeds calibration range



Analytical Laboratory Report

Lab Sample ID: S33024.03 (continued)

Sample Tag: 224121-IAC-129

TO-15 (Replicate 01), Method: TO-15, Run Date: 02/22/22 11:47, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzene	Not detected	6.4	0.61	ug/m3	10	71-43-2	Y
Bromodichloromethane	Not detected	13	1.5	ug/m3	10	75-27-4	Y
Bromoform	Not detected	21	2.4	ug/m3	10	75-25-2	Y
Bromomethane	Not detected	7.8	1.3	ug/m3	10	74-83-9	Y
Vinyl bromide	Not detected	8.7	1.5	ug/m3	10	593-60-2	Y
Benzyl chloride	Not detected	10	1.5	ug/m3	10	100-44-7	Y
Carbon disulfide	16 ~~0.62~~	16	0.59	ug/m3	10	75-15-0	~~JYB~~ ---U
Chlorobenzene	Not detected	9.2	0.78	ug/m3	10	108-90-7	Y
Chloroethane	Not detected	53	1.2	ug/m3	10	75-00-3	Y
Chloroform	Not detected	9.8	0.98	ug/m3	10	67-66-3	Y
Chloromethane	Not detected	41	0.83	ug/m3	10	74-87-3	Y
3-Chloropropene	Not detected	63	0.75	ug/m3	10	107-05-1	Y
2-Chlorotoluene	Not detected	10	1.2	ug/m3	10	95-49-8	Y
Carbon tetrachloride	Not detected	13	1.3	ug/m3	10	56-23-5	Y
Cyclohexane	10	6.9	0.83	ug/m3	10	110-82-7	Y
1,1-Dichloroethane	Not detected	8.1	1.0	ug/m3	10	75-34-3	Y
1,1-Dichloroethene	Not detected	7.9	0.95	ug/m3	10	75-35-4	Y
1,2-Dibromoethane	Not detected	15	0.77	ug/m3	10	106-93-4	Y
1,2-Dichloroethane	Not detected	8.1	1.1	ug/m3	10	107-06-2	Y
1,2-Dichloropropane	Not detected	9.2	0.92	ug/m3	10	78-87-5	Y
1,4-Dioxane	Not detected	90	1.4	ug/m3	10	123-91-1	Y
Dichlorodifluoromethane	2.5	9.9	1.3	ug/m3	10	75-71-8	JY
Dibromochloromethane	Not detected	17	1.4	ug/m3	10	124-48-1	Y
trans-1,2-Dichloroethene	Not detected	7.9	0.83	ug/m3	10	156-60-5	Y
cis-1,2-Dichloroethene	Not detected	7.9	0.91	ug/m3	10	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	9.1	0.91	ug/m3	10	10061-01-5	Y
1,3-Dichlorobenzene	Not detected	12	1.2	ug/m3	10	541-73-1	Y
1,2-Dichlorobenzene	Not detected	12	1.4	ug/m3	10	95-50-1	Y
1,4-Dichlorobenzene	Not detected	12	1.1	ug/m3	10	106-46-7	Y
trans-1,3-Dichloropropene	Not detected	9.1	0.59	ug/m3	10	10061-02-6	Y
Ethanol*	1,240	47	1.3	ug/m3	10	64-17-5	Y
Ethylbenzene	1.3	8.7	0.87	ug/m3	10	100-41-4	JY
Ethyl Acetate*	Not detected	72	1.8	ug/m3	10	141-78-6	Y
4-Ethyltoluene	Not detected	9.8	1.6	ug/m3	10	622-96-8	Y
Freon 113	Not detected	15	1.8	ug/m3	10	76-13-1	Y
Freon 114	Not detected	14	2.0	ug/m3	10	76-14-2	Y
Heptane	992	8.2	0.61	ug/m3	10	142-82-5	Y
Hexachlorobutadiene	Not detected	21	3.1	ug/m3	10	87-68-3	Y
Hexane	754	7.0	0.67	ug/m3	10	110-54-3	Y
2-Hexanone*	Not detected	20	0.86	ug/m3	10	591-78-6	Y
Isopropyl Alcohol*	98	49	1.9	ug/m3	10	67-63-0	Y
Methylene chloride	Not detected	17	4.9	ug/m3	10	75-09-2	Y
2-Butanone (MEK)	Not detected	59	1.4	ug/m3	10	78-93-3	Y
4-Methyl-2-pentanone (MIBK)	Not detected	20	0.70	ug/m3	10	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	7.2	0.36	ug/m3	10	1634-04-4	Y
Methyl methacrylate	Not detected	8.2	0.70	ug/m3	10	80-62-6	Y
Naphthalene	10 ~~0.52~~	10	0.52	ug/m3	10	91-20-3	~~JYB~~ ---U
Propylene*	Not detected	938	0.65	ug/m3	10	115-07-1	YX

Y-Elevated reporting limit due to high target concentration

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference

ALH 3/17/22



Analytical Laboratory Report

Lab Sample ID: S33024.03 (continued)
Sample Tag: 224121-IAC-129

TO-15 (Replicate 01), Method: TO-15, Run Date: 02/22/22 11:47, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Styrene	Not detected	8.5	0.64	ug/m3	10	100-42-5	Y
1,1,1-Trichloroethane	Not detected	11	0.93	ug/m3	10	71-55-6	Y
1,1,2,2-Tetrachloroethane	Not detected	14	0.96	ug/m3	10	79-34-5	Y
1,1,2-Trichloroethane	Not detected	11	0.82	ug/m3	10	79-00-5	Y
1,2,4-Trichlorobenzene	Not detected	37	1.1	ug/m3	10	120-82-1	Y
1,2,4-Trimethylbenzene	1.5	9.8	1.4	ug/m3	10	95-63-6	JY
1,3,5-Trimethylbenzene	Not detected	9.8	1.2	ug/m3	10	108-67-8	Y
2,2,4-Trimethylpentane	Not detected	14	0.65	ug/m3	10	540-84-1	YX
Tert-butyl Alcohol	Not detected	30	1.2	ug/m3	10	75-65-0	Y
Tetrachloroethene	Not detected	14	1.6	ug/m3	10	127-18-4	Y
Tetrahydrofuran*	Not detected	5.9	0.86	ug/m3	10	109-99-9	Y
Toluene	49	7.5	0.49	ug/m3	10	108-88-3	Y
Trichloroethene	Not detected	11	1.2	ug/m3	10	79-01-6	Y
Trichlorofluoromethane	1.1	11	0.96	ug/m3	10	75-69-4	JY
Vinyl chloride	Not detected	5.1	0.74	ug/m3	10	75-01-4	Y
Vinyl acetate	Not detected	70	0.53	ug/m3	10	108-05-4	Y
p,m-Xylene	3.5	17	1.6	ug/m3	10		JY
o-Xylene	1.3	8.7	0.87	ug/m3	10	95-47-6	JY
Total Xylenes	4.78	26	2.5	ug/m3	10	1330-20-7	JY

Y-Elevated reporting limit due to high target concentration
J-Estimated value less than reporting limit, but greater than MDL
X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33024.04

Sample Tag: 224121-IAD-129

Collected Date/Time: 02/17/2022 07:35 - 02/17/2022 14:45

Matrix: Air

COC Reference: A6076

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-8	N/A	02/21/22 13:05	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 02/21/22 20:52, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	3,116.2	2.0	0.058	ppbv	1	67-64-1	E
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	Not detected	1.1	0.019	ppbv	1	71-43-2	X
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.070	0.5	0.019	ppbv	1	75-15-0	JB
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.030	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.490	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	8.5	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.040	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	37.4	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	1.6	0.2	0.020	ppbv	1	100-41-4	

E-Concentration exceeds calibration range

X-Elevated reporting limit due to matrix interference

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Lab Sample ID: S33024.04 (continued)

Sample Tag: 224121-IAD-129

TO-15, Method: TO-15, Run Date: 02/21/22 20:52, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Ethyl Acetate*	0.180	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.2	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	421.0	0.2	0.015	ppbv	1	142-82-5	E
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	469.1	0.2	0.019	ppbv	1	110-54-3	E
2-Hexanone*	0.100	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	9.1	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.44	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	Not detected	10.0	0.046	ppbv	1	78-93-3	X
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.070	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	635	0.038	ppbv	1	115-07-1	X
Styrene	0.5	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	0.030	0.5	0.015	ppbv	1	120-82-1	JB
1,2,4-Trimethylbenzene	0.6	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.2	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	Not detected	7.1	0.014	ppbv	1	540-84-1	X
Tert-butyl Alcohol	0.320	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.110	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	80.9	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.180	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	5.7	0.4	0.038	ppbv	1		
o-Xylene	1.4	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	7.1	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 02/21/22 20:52, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	7,402.4	4.8	0.14	ug/m3	1	67-64-1	E
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	Not detected	3.5	0.061	ug/m3	1	71-43-2	X
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	

J-Estimated value less than reporting limit, but greater than MDL

E-Concentration exceeds calibration range

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33024.04 (continued)

Sample Tag: 224121-IAD-129

TO-15, Method: TO-15, Run Date: 02/21/22 20:52, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon disulfide	1.6 ~~0.22~~	1.6	0.059	ug/m3	1	75-15-0	~~JB~~ -U
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.15	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	1.01	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	29	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 ~~0.24~~	1.2	0.11	ug/m3	1	106-46-7	~~JB~~ -U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	70.5	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	6.9	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	0.649	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.98	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	1,725	0.82	0.061	ug/m3	1	142-82-5	~~E~~ -J
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	1,653	0.70	0.067	ug/m3	1	110-54-3	~~E~~ -J
2-Hexanone*	0.410	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	22	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	1.5	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	Not detected	29.5	0.14	ug/m3	1	78-93-3	X
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.37~~	1.0	0.052	ug/m3	1	91-20-3	~~JB~~ -U
Propylene*	Not detected	1,090	0.065	ug/m3	1	115-07-1	X
Styrene	2.1	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	3.7 ~~0.22~~	3.7	0.11	ug/m3	1	120-82-1	~~JB~~ U

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

E-Concentration exceeds calibration range

X-Elevated reporting limit due to matrix interference

ALH 3/17/22

Analytical Laboratory Report

Lab Sample ID: S33024.04 (continued)

Sample Tag: 224121-IAD-129

TO-15, Method: TO-15, Run Date: 02/21/22 20:52, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2,4-Trimethylbenzene	2.9	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	0.98	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	Not detected	33	0.065	ug/m3	1	540-84-1	X
Tert-butyl Alcohol	0.970	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.746	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	305	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.01	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	25	1.7	0.16	ug/m3	1		
o-Xylene	6.1	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	31	2.6	0.25	ug/m3	1	1330-20-7	

TO-15 (Replicate 01), Method: TO-15, Run Date: 02/22/22 12:19, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	5,250	20	0.58	ppbv	10	67-64-1	YE
1,3-Butadiene	Not detected	20	0.29	ppbv	10	106-99-0	Y
Benzene	Not detected	2	0.19	ppbv	10	71-43-2	Y
Bromodichloromethane	Not detected	2	0.23	ppbv	10	75-27-4	Y
Bromoform	Not detected	2	0.23	ppbv	10	75-25-2	Y
Bromomethane	Not detected	2	0.33	ppbv	10	74-83-9	Y
Vinyl bromide	Not detected	2	0.35	ppbv	10	593-60-2	Y
Benzyl chloride	Not detected	2	0.29	ppbv	10	100-44-7	Y
Carbon disulfide	Not detected	5	0.19	ppbv	10	75-15-0	Y
Chlorobenzene	Not detected	2	0.17	ppbv	10	108-90-7	Y
Chloroethane	Not detected	20	0.46	ppbv	10	75-00-3	Y
Chloroform	Not detected	2	0.20	ppbv	10	67-66-3	Y
Chloromethane	Not detected	20	0.40	ppbv	10	74-87-3	Y
3-Chloropropene	Not detected	20	0.24	ppbv	10	107-05-1	Y
2-Chlorotoluene	Not detected	2	0.24	ppbv	10	95-49-8	Y
Carbon tetrachloride	Not detected	2	0.20	ppbv	10	56-23-5	Y
Cyclohexane	8	2	0.24	ppbv	10	110-82-7	Y
1,1-Dichloroethane	Not detected	2	0.25	ppbv	10	75-34-3	Y
1,1-Dichloroethene	Not detected	2	0.24	ppbv	10	75-35-4	Y
1,2-Dibromoethane	Not detected	2	0.10	ppbv	10	106-93-4	Y
1,2-Dichloroethane	Not detected	2	0.28	ppbv	10	107-06-2	Y
1,2-Dichloropropane	Not detected	2	0.20	ppbv	10	78-87-5	Y
1,4-Dioxane	Not detected	25	0.38	ppbv	10	123-91-1	Y
Dichlorodifluoromethane	0.70	2	0.26	ppbv	10	75-71-8	JY
Dibromochloromethane	Not detected	2	0.17	ppbv	10	124-48-1	Y
trans-1,2-Dichloroethene	Not detected	2	0.21	ppbv	10	156-60-5	Y
cis-1,2-Dichloroethene	Not detected	2	0.23	ppbv	10	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	2	0.20	ppbv	10	10061-01-5	Y
1,3-Dichlorobenzene	Not detected	2	0.20	ppbv	10	541-73-1	Y
1,2-Dichlorobenzene	Not detected	2	0.24	ppbv	10	95-50-1	Y

X-Elevated reporting limit due to matrix interference

J-Estimated value less than reporting limit, but greater than MDL

Y-Elevated reporting limit due to high target concentration E-Concentration exceeds calibration range

Lab Sample ID: S33024.04 (continued)

Sample Tag: 224121-IAD-129

TO-15 (Replicate 01), Method: TO-15, Run Date: 02/22/22 12:19, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,4-Dichlorobenzene	Not detected	2	0.19	ppbv	10	106-46-7	Y
trans-1,3-Dichloropropene	Not detected	2	0.13	ppbv	10	10061-02-6	Y
Ethanol*	35	25	0.68	ppbv	10	64-17-5	Y
Ethylbenzene	1.40	2	0.20	ppbv	10	100-41-4	JY
Ethyl Acetate*	Not detected	20	0.49	ppbv	10	141-78-6	Y
4-Ethyltoluene	Not detected	2	0.32	ppbv	10	622-96-8	Y
Freon 113	Not detected	2	0.24	ppbv	10	76-13-1	Y
Freon 114	Not detected	2	0.29	ppbv	10	76-14-2	Y
Heptane	629	2	0.15	ppbv	10	142-82-5	Y
Hexachlorobutadiene	Not detected	2	0.29	ppbv	10	87-68-3	Y
Hexane	522	2	0.19	ppbv	10	110-54-3	Y
2-Hexanone*	Not detected	5	0.21	ppbv	10	591-78-6	Y
Isopropyl Alcohol*	Not detected	20	0.76	ppbv	10	67-63-0	Y
Methylene chloride	Not detected	5	1.4	ppbv	10	75-09-2	Y
2-Butanone (MEK)	Not detected	20	0.46	ppbv	10	78-93-3	Y
4-Methyl-2-pentanone (MIBK)	Not detected	5	0.17	ppbv	10	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	2	0.10	ppbv	10	1634-04-4	Y
Methyl methacrylate	Not detected	2	0.17	ppbv	10	80-62-6	Y
Naphthalene	0.10	2	0.10	ppbv	10	91-20-3	JYB
Propylene*	Not detected	1,310	0.38	ppbv	10	115-07-1	YX
Styrene	0.40	2	0.15	ppbv	10	100-42-5	JY
1,1,1-Trichloroethane	Not detected	2	0.17	ppbv	10	71-55-6	Y
1,1,2,2-Tetrachloroethane	Not detected	2	0.14	ppbv	10	79-34-5	Y
1,1,2-Trichloroethane	Not detected	2	0.15	ppbv	10	79-00-5	Y
1,2,4-Trichlorobenzene	Not detected	5	0.15	ppbv	10	120-82-1	Y
1,2,4-Trimethylbenzene	0.50	2	0.29	ppbv	10	95-63-6	JY
1,3,5-Trimethylbenzene	Not detected	2	0.25	ppbv	10	108-67-8	Y
2,2,4-Trimethylpentane	Not detected	7	0.14	ppbv	10	540-84-1	YX
Tert-butyl Alcohol	Not detected	10	0.41	ppbv	10	75-65-0	Y
Tetrachloroethene	Not detected	2	0.24	ppbv	10	127-18-4	Y
Tetrahydrofuran*	Not detected	2	0.29	ppbv	10	109-99-9	Y
Toluene	76	2	0.13	ppbv	10	108-88-3	Y
Trichloroethene	Not detected	2	0.23	ppbv	10	79-01-6	Y
Trichlorofluoromethane	0.20	2	0.17	ppbv	10	75-69-4	JY
Vinyl chloride	Not detected	2	0.29	ppbv	10	75-01-4	Y
Vinyl acetate	Not detected	20	0.15	ppbv	10	108-05-4	Y
p,m-Xylene	5	4	0.38	ppbv	10		Y
o-Xylene	1.20	2	0.20	ppbv	10	95-47-6	JY
Total Xylenes	6	6	0.58	ppbv	10	1330-20-7	Y

TO-15 (Replicate 01), Method: TO-15, Run Date: 02/22/22 12:19, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	12,500	48	1.4	ug/m3	10	67-64-1	-YE--J
1,3-Butadiene	Not detected	44	0.64	ug/m3	10	106-99-0	Y
Benzene	Not detected	6.4	0.61	ug/m3	10	71-43-2	Y

Y-Elevated reporting limit due to high target concentration

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference

E-Concentration exceeds calibration range

Lab Sample ID: S33024.04 (continued)

Sample Tag: 224121-IAD-129

TO-15 (Replicate 01), Method: TO-15, Run Date: 02/22/22 12:19, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Bromodichloromethane	Not detected	13	1.5	ug/m3	10	75-27-4	Y
Bromoform	Not detected	21	2.4	ug/m3	10	75-25-2	Y
Bromomethane	Not detected	7.8	1.3	ug/m3	10	74-83-9	Y
Vinyl bromide	Not detected	8.7	1.5	ug/m3	10	593-60-2	Y
Benzyl chloride	Not detected	10	1.5	ug/m3	10	100-44-7	Y
Carbon disulfide	Not detected	16	0.59	ug/m3	10	75-15-0	Y
Chlorobenzene	Not detected	9.2	0.78	ug/m3	10	108-90-7	Y
Chloroethane	Not detected	53	1.2	ug/m3	10	75-00-3	Y
Chloroform	Not detected	9.8	0.98	ug/m3	10	67-66-3	Y
Chloromethane	Not detected	41	0.83	ug/m3	10	74-87-3	Y
3-Chloropropene	Not detected	63	0.75	ug/m3	10	107-05-1	Y
2-Chlorotoluene	Not detected	10	1.2	ug/m3	10	95-49-8	Y
Carbon tetrachloride	Not detected	13	1.3	ug/m3	10	56-23-5	Y
Cyclohexane	28	6.9	0.83	ug/m3	10	110-82-7	Y
1,1-Dichloroethane	Not detected	8.1	1.0	ug/m3	10	75-34-3	Y
1,1-Dichloroethene	Not detected	7.9	0.95	ug/m3	10	75-35-4	Y
1,2-Dibromoethane	Not detected	15	0.77	ug/m3	10	106-93-4	Y
1,2-Dichloroethane	Not detected	8.1	1.1	ug/m3	10	107-06-2	Y
1,2-Dichloropropane	Not detected	9.2	0.92	ug/m3	10	78-87-5	Y
1,4-Dioxane	Not detected	90	1.4	ug/m3	10	123-91-1	Y
Dichlorodifluoromethane	3.5	9.9	1.3	ug/m3	10	75-71-8	JY
Dibromochloromethane	Not detected	17	1.4	ug/m3	10	124-48-1	Y
trans-1,2-Dichloroethene	Not detected	7.9	0.83	ug/m3	10	156-60-5	Y
cis-1,2-Dichloroethene	Not detected	7.9	0.91	ug/m3	10	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	9.1	0.91	ug/m3	10	10061-01-5	Y
1,3-Dichlorobenzene	Not detected	12	1.2	ug/m3	10	541-73-1	Y
1,2-Dichlorobenzene	Not detected	12	1.4	ug/m3	10	95-50-1	Y
1,4-Dichlorobenzene	Not detected	12	1.1	ug/m3	10	106-46-7	Y
trans-1,3-Dichloropropene	Not detected	9.1	0.59	ug/m3	10	10061-02-6	Y
Ethanol*	66	47	1.3	ug/m3	10	64-17-5	Y
Ethylbenzene	6.08	8.7	0.87	ug/m3	10	100-41-4	JY
Ethyl Acetate*	Not detected	72	1.8	ug/m3	10	141-78-6	Y
4-Ethyltoluene	Not detected	9.8	1.6	ug/m3	10	622-96-8	Y
Freon 113	Not detected	15	1.8	ug/m3	10	76-13-1	Y
Freon 114	Not detected	14	2.0	ug/m3	10	76-14-2	Y
Heptane	2,580	8.2	0.61	ug/m3	10	142-82-5	Y
Hexachlorobutadiene	Not detected	21	3.1	ug/m3	10	87-68-3	Y
Hexane	1,840	7.0	0.67	ug/m3	10	110-54-3	Y
2-Hexanone*	Not detected	20	0.86	ug/m3	10	591-78-6	Y
Isopropyl Alcohol*	Not detected	49	1.9	ug/m3	10	67-63-0	Y
Methylene chloride	Not detected	17	4.9	ug/m3	10	75-09-2	Y
2-Butanone (MEK)	Not detected	59	1.4	ug/m3	10	78-93-3	Y
4-Methyl-2-pentanone (MIBK)	Not detected	20	0.70	ug/m3	10	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	7.2	0.36	ug/m3	10	1634-04-4	Y
Methyl methacrylate	Not detected	8.2	0.70	ug/m3	10	80-62-6	Y
Naphthalene	10 0.52--	10	0.52	ug/m3	10	91-20-3	JYB--U
Propylene*	Not detected	2,250	0.65	ug/m3	10	115-07-1	YX

Y-Elevated reporting limit due to high target concentration

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33024.04 (continued)
Sample Tag: 224121-IAD-129

TO-15 (Replicate 01), Method: TO-15, Run Date: 02/22/22 12:19, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Styrene	1.7	8.5	0.64	ug/m3	10	100-42-5	JY
1,1,1-Trichloroethane	Not detected	11	0.93	ug/m3	10	71-55-6	Y
1,1,2,2-Tetrachloroethane	Not detected	14	0.96	ug/m3	10	79-34-5	Y
1,1,2-Trichloroethane	Not detected	11	0.82	ug/m3	10	79-00-5	Y
1,2,4-Trichlorobenzene	Not detected	37	1.1	ug/m3	10	120-82-1	Y
1,2,4-Trimethylbenzene	2.5	9.8	1.4	ug/m3	10	95-63-6	JY
1,3,5-Trimethylbenzene	Not detected	9.8	1.2	ug/m3	10	108-67-8	Y
2,2,4-Trimethylpentane	Not detected	33	0.65	ug/m3	10	540-84-1	YX
Tert-butyl Alcohol	Not detected	30	1.2	ug/m3	10	75-65-0	Y
Tetrachloroethene	Not detected	14	1.6	ug/m3	10	127-18-4	Y
Tetrahydrofuran*	Not detected	5.9	0.86	ug/m3	10	109-99-9	Y
Toluene	290	7.5	0.49	ug/m3	10	108-88-3	Y
Trichloroethene	Not detected	11	1.2	ug/m3	10	79-01-6	Y
Trichlorofluoromethane	1.1	11	0.96	ug/m3	10	75-69-4	JY
Vinyl chloride	Not detected	5.1	0.74	ug/m3	10	75-01-4	Y
Vinyl acetate	Not detected	70	0.53	ug/m3	10	108-05-4	Y
p,m-Xylene	22	17	1.6	ug/m3	10		Y
o-Xylene	5.21	8.7	0.87	ug/m3	10	95-47-6	JY
Total Xylenes	26	26	2.5	ug/m3	10	1330-20-7	Y

J-Estimated value less than reporting limit, but greater than MDL Y-Elevated reporting limit due to high target concentration
X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33024.05

Sample Tag: 224121-OA-129

Collected Date/Time: 02/17/2022 07:40 - 02/17/2022 14:35

Matrix: Air

COC Reference: A6076

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-8	N/A	02/21/22 13:05	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 02/21/22 21:25, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	10.8	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.190	0.2	0.019	ppbv	1	71-43-2	J
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.030	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.020	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.520	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.070	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.140	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.020	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	7.3	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.110	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	Not detected	2.0	0.049	ppbv	1	141-78-6	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S33024.05 (continued)

Sample Tag: 224121-OA-129

TO-15, Method: TO-15, Run Date: 02/21/22 21:25, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.050	0.2	0.032	ppbv	1	622-96-8	J
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	1.1	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	1.4	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	0.030	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	1.230	2.0	0.076	ppbv	1	67-63-0	J
Methylene chloride	0.21	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.360	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.040	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.020	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	Not detected	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.090	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.3	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.050	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.090	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	0.040	0.2	0.029	ppbv	1	109-99-9	J
Toluene	0.7	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.180	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.340	0.4	0.038	ppbv	1		J
o-Xylene	0.110	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.450	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 02/21/22 21:25, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	25.7	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.607	0.64	0.061	ug/m3	1	71-43-2	J
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	1.6 ~~0.093~~	1.6	0.059	ug/m3	1	75-15-0	~~J~~ U
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

Lab Sample ID: S33024.05 (continued)

Sample Tag: 224121-OA-129

TO-15, Method: TO-15, Run Date: 02/21/22 21:25, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	0.098	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	1.07	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.44	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.482	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 0.12	1.2	0.11	ug/m3	1	106-46-7	JB- U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	14	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.478	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	Not detected	7.2	0.18	ug/m3	1	141-78-6	
4-Ethyltoluene	0.25	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	4.5	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	4.9	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	0.12	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	3.023	4.9	0.19	ug/m3	1	67-63-0	J
Methylene chloride	0.73	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	1.06	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.16	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 0.10	1.0	0.052	ug/m3	1	91-20-3	JB- U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	Not detected	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.44	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	1.4	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	0.15	3.0	0.12	ug/m3	1	75-65-0	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33024.05 (continued)
Sample Tag: 224121-OA-129

TO-15, Method: TO-15, Run Date: 02/21/22 21:25, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrachloroethene	0.61	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	0.12	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	2.6	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.01	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.48	1.7	0.16	ug/m3	1		J
o-Xylene	0.478	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	1.95	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL

VALIDATA

Chemical Services, Inc.

2159 Wynnton Pointe, Duluth, GA 30097

(770) 232-0130

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DATA USABILITY SUMMARY REPORT

COMPANY: AECOM Technical Services Northeast, Inc.
PROJECT NAME: Meeker Ave. SVI
CONTRACTED LAB: Merit Laboratories, Inc.
QA/QC LEVEL: DUSR
ANALYTICAL METHOD(S): EPA Method TO-15
VALIDATION GUIDELINES: USEPA Region II data validation SOP (VOA-TO15 HW-31 Rev.6, Analysis of VOCs in Air contained in Canisters by Method TO-15, September 2016), Professional Judgment

SAMPLE MATRIX: Air
TYPES OF ANALYSES: Volatile Organic Compounds (VOC)
DATA REVIEWER(S): Amy L. Hogan
SDG NUMBER: 33208
SAMPLING DATE(S): February 22, 2022

SAMPLES:

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>VOC</u>
224121-SSA-130	S33208.01	X
224121-IAA-130	S33208.02	X
224121-SSB-130	S33208.03	X
224121-IAB-130	S33208.04	X
224121-OA-130	S33208.05	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Merit Laboratories, Inc. – 33208

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per EPA Method TO-15.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

Initial Calibration Verification data was not submitted for this SDG. Data qualification based on the absence of Initial Calibration Verification data was not required. No data qualification was necessary.

Continuing Calibration:

All Continuing Calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were detections in the method blank for 3/01/22 for the following compounds:

Propylene	0.25 ppbv
Carbon disulfide	0.02 ppbv
1,3-dichlorobenzene	0.03 ppbv
1,4-dichlorobenzene	0.02 ppbv
1,2,4-trichlorobenzene	0.04 ppbv
Naphthalene	0.04 ppbv

Since the blank results were less than the equal to the RL, the positive results for these compounds in the SDG samples, which were less than the RL, were qualified as undetected (U) with the result being raised to the RL.

Canister Blanks:

There were no detects in the canister check blanks for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS / LCSD set was analyzed by the laboratory for this SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Duplicate:

Matrix Duplicate analysis data was not submitted for this SDG. Data qualification based on the absence of MD data was not required. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

The ethanol results for samples 224121-IAA-130 and 224121-IAB-130 exceeded the linear calibration range. The ethanol result for each sample was qualified as estimated (J).

All other CRQL criteria were met.

Appendix A

Qualified Form Is



Analytical Laboratory Report

Lab Sample ID: S33208.01

Sample Tag: 224121-SSA-130

Collected Date/Time: 02/22/2022 07:25 - 02/22/2022 14:48

Matrix: Air

COC Reference: A6055

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-2	N/A	02/24/22 14:05	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/01/22 13:24, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	84.5	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.4	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	0.110	0.2	0.033	ppbv	1	74-83-9	J
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.8	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	10.5	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.4	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	0.480	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.050	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.5	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	0.6	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.4	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.020	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	37.8	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.3	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	0.920	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33208.01 (continued)

Sample Tag: 224121-SSA-130

TO-15, Method: TO-15, Run Date: 03/01/22 13:24, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.120	0.2	0.032	ppbv	1	622-96-8	J
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	1.8	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	2.1	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	3.1	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.6	0.5	0.14	ppbv	1	75-09-2	
2-Butanone (MEK)	4.2	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	0.350	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	0.140	0.2	0.010	ppbv	1	1634-04-4	J
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.180	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	51	0.038	ppbv	1	115-07-1	X
Styrene	Not detected	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	3.4	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	0.020	0.5	0.015	ppbv	1	120-82-1	JB
1,2,4-Trimethylbenzene	0.5	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.140	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.9	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.450	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.3	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.150	0.2	0.029	ppbv	1	109-99-9	J
Toluene	1.9	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.2	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	0.7	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	1.0	0.4	0.038	ppbv	1		
o-Xylene	0.5	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	1.5	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/01/22 13:24, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	201	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	1.3	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	0.427	0.78	0.13	ug/m3	1	74-83-9	J
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	2.5	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S33208.01 (continued)

Sample Tag: 224121-SSA-130

TO-15, Method: TO-15, Run Date: 03/01/22 13:24, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	27.7	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	2.0	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	0.991	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.31	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	1.7	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	2.4	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	1.6	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 ~~0.12~~	1.2	0.11	ug/m3	1	106-46-7	~~JB~~ U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	71.2	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	1.3	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	3.32	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.590	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	7.4	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	7.4	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	7.6	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	2.1	1.7	0.49	ug/m3	1	75-09-2	
2-Butanone (MEK)	12	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	1.43	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	0.505	0.72	0.036	ug/m3	1	1634-04-4	J
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.944~~	1.0	0.052	ug/m3	1	91-20-3	~~JB~~ U
Propylene*	Not detected	88	0.065	ug/m3	1	115-07-1	X
Styrene	Not detected	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	19	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	3.7 ~~0.15~~	3.7	0.11	ug/m3	1	120-82-1	~~JB~~ U
1,2,4-Trimethylbenzene	2.5	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	0.688	0.98	0.12	ug/m3	1	108-67-8	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33208.01 (continued)
Sample Tag: 224121-SSA-130

TO-15, Method: TO-15, Run Date: 03/01/22 13:24, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2,2,4-Trimethylpentane	4.2	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	1.36	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	2.0	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	0.442	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	7.2	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.1	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	1.8	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	4.3	1.7	0.16	ug/m3	1		
o-Xylene	2.2	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	6.5	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33208.02

Sample Tag: 224121-IAA-130

Collected Date/Time: 02/22/2022 07:28 - 02/22/2022 14:49

Matrix: Air

COC Reference: A6055

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-2	N/A	02/24/22 14:05	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/01/22 13:55, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	15.1	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.9	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.080	0.5	0.019	ppbv	1	75-15-0	JB
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.050	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.580	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.140	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.030	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	270.5	2.5	0.068	ppbv	1	64-17-5	E
Ethylbenzene	0.2	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	8.3	2.0	0.049	ppbv	1	141-78-6	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

E-Concentration exceeds calibration range

Analytical Laboratory Report

Lab Sample ID: S33208.02 (continued)

Sample Tag: 224121-IAA-130

TO-15, Method: TO-15, Run Date: 03/01/22 13:55, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.090	0.2	0.032	ppbv	1	622-96-8	J
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.3	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.4	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	0.040	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	2.7	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.26	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.620	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.260	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.050	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	61	0.038	ppbv	1	115-07-1	X
Styrene	0.170	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	0.020	0.5	0.015	ppbv	1	120-82-1	JB
1,2,4-Trimethylbenzene	0.3	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.100	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.3	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.090	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.3	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	Not detected	0.3	0.029	ppbv	1	109-99-9	X
Toluene	4.0	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.2	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.7	0.4	0.038	ppbv	1		
o-Xylene	0.2	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	0.9	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/01/22 13:55, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	35.9	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	2.9	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	1.6 ~~0.25~~	1.6	0.059	ug/m3	1	75-15-0	~~JB~~ -U
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33208.02 (continued)

Sample Tag: 224121-IAA-130

TO-15, Method: TO-15, Run Date: 03/01/22 13:55, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.24	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	1.20	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.482	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 ~~0.18~~	1.2	0.11	ug/m3	1	106-46-7	JB--U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	509.7	4.7	0.13	ug/m3	1	64-17-5	--E--J
Ethylbenzene	0.87	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	30	7.2	0.18	ug/m3	1	141-78-6	
4-Ethyltoluene	0.44	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	1.2	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	1.4	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	0.16	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	6.6	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.90	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	1.83	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	1.07	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.26~~	1.0	0.052	ug/m3	1	91-20-3	JB-U
Propylene*	Not detected	100	0.065	ug/m3	1	115-07-1	X
Styrene	0.724	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	3.7 ~~0.15~~	3.7	0.11	ug/m3	1	120-82-1	JB-U
1,2,4-Trimethylbenzene	1.5	0.98	0.14	ug/m3	1	95-63-6	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

E-Concentration exceeds calibration range

X-Elevated reporting limit due to matrix interference

ALH 3/19/22



Analytical Laboratory Report

Lab Sample ID: S33208.02 (continued)

Sample Tag: 224121-IAA-130

TO-15, Method: TO-15, Run Date: 03/01/22 13:55, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,3,5-Trimethylbenzene	0.492	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	1.4	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	0.27	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	2.0	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	Not detected	0.88	0.086	ug/m3	1	109-99-9	X
Toluene	15	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.1	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	3.0	1.7	0.16	ug/m3	1		
o-Xylene	0.87	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	3.9	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33208.03

Sample Tag: 224121-SSB-130

Collected Date/Time: 02/22/2022 07:34 - 02/22/2022 14:50

Matrix: Air

COC Reference: A6055

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-2	N/A	02/24/22 14:05	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/01/22 14:26, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	22.6	0.058	ppbv	1	67-64-1	X
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.9	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	0.050	0.2	0.033	ppbv	1	74-83-9	J
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.350	0.5	0.019	ppbv	1	75-15-0	JB
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	1.450	2.0	0.046	ppbv	1	75-00-3	J
Chloroform	Not detected	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	0.630	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	0.040	0.2	0.025	ppbv	1	75-34-3	J
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.020	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	58.0	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.5	0.2	0.020	ppbv	1	100-41-4	

X-Elevated reporting limit due to matrix interference

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S33208.03 (continued)

Sample Tag: 224121-SSB-130

TO-15, Method: TO-15, Run Date: 03/01/22 14:26, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Ethyl Acetate*	1.970	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.130	0.2	0.032	ppbv	1	622-96-8	J
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	26.2	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	44.9	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.3	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.23	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	Not detected	3.1	0.046	ppbv	1	78-93-3	X
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.040	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	31	0.038	ppbv	1	115-07-1	X
Styrene	0.080	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	0.3	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.3	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.090	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	Not detected	0.5	0.014	ppbv	1	540-84-1	X
Tert-butyl Alcohol	0.150	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.3	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.9	0.2	0.029	ppbv	1	109-99-9	
Toluene	3.7	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.2	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.8	0.4	0.038	ppbv	1		
o-Xylene	0.3	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	1.1	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/01/22 14:26, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	53.7	0.14	ug/m3	1	67-64-1	X
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	2.9	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	0.19	0.78	0.13	ug/m3	1	74-83-9	J
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	1.6 ~~1.09~~	1.6	0.059	ug/m3	1	75-15-0	JB, U

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

ALH 3/19/22



Analytical Laboratory Report

Lab Sample ID: S33208.03 (continued)

Sample Tag: 224121-SSB-130

TO-15, Method: TO-15, Run Date: 03/01/22 14:26, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	3.826	5.3	0.12	ug/m3	1	75-00-3	J
Chloroform	Not detected	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	1.30	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	0.16	0.81	0.10	ug/m3	1	75-34-3	J
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 ~~0.12~~	1.2	0.11	ug/m3	1	106-46-7	~~JB~~ -U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	109	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	2.2	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	7.099	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.639	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	107	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	158	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	5.7	0.19	ug/m3	1	67-63-0	X
Methylene chloride	0.80	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	Not detected	9.1	0.14	ug/m3	1	78-93-3	X
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.21~~	1.0	0.052	ug/m3	1	91-20-3	~~JB~~ --U
Propylene*	Not detected	53	0.065	ug/m3	1	115-07-1	X
Styrene	0.34	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	1.6	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	1.5	0.98	0.14	ug/m3	1	95-63-6	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference

ALH 3/19/22



Analytical Laboratory Report

Lab Sample ID: S33208.03 (continued)

Sample Tag: 224121-SSB-130

TO-15, Method: TO-15, Run Date: 03/01/22 14:26, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,3,5-Trimethylbenzene	0.44	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	Not detected	2.3	0.065	ug/m3	1	540-84-1	X
Tert-butyl Alcohol	0.455	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	2.0	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	2.7	0.59	0.086	ug/m3	1	109-99-9	
Toluene	14	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.1	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	3.5	1.7	0.16	ug/m3	1		
o-Xylene	1.3	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	4.8	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33208.04
Sample Tag: 224121-IAB-130
Collected Date/Time: 02/22/2022 07:37 - 02/22/2022 14:51
Matrix: Air
COC Reference: A6055

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-6	N/A	02/24/22 14:05	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/01/22 14:57, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	18.5	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.6	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	0.070	0.2	0.033	ppbv	1	74-83-9	J
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.280	0.5	0.019	ppbv	1	75-15-0	JB
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.030	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.580	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.160	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.060	0.2	0.028	ppbv	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.040	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	179.9	2.5	0.068	ppbv	1	64-17-5	E
Ethylbenzene	0.190	0.2	0.020	ppbv	1	100-41-4	J

J-Estimated value less than reporting limit, but greater than MDL
B-Compound also found in associated method blank
E-Concentration exceeds calibration range

Analytical Laboratory Report

Lab Sample ID: S33208.04 (continued)

Sample Tag: 224121-IAB-130

TO-15, Method: TO-15, Run Date: 03/01/22 14:57, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Ethyl Acetate*	1.740	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.110	0.2	0.032	ppbv	1	622-96-8	J
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.3	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.4	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	0.040	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	3.8	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.34	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.620	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.7	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.070	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	21	0.038	ppbv	1	115-07-1	X
Styrene	0.170	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	0.020	0.5	0.015	ppbv	1	120-82-1	JB
1,2,4-Trimethylbenzene	0.2	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.080	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.3	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.230	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.3	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.080	0.2	0.029	ppbv	1	109-99-9	J
Toluene	4.1	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	0.060	0.2	0.023	ppbv	1	79-01-6	J
Trichlorofluoromethane	0.2	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.6	0.4	0.038	ppbv	1		
o-Xylene	0.2	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	0.8	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/01/22 14:57, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	43.9	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	1.9	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	0.27	0.78	0.13	ug/m3	1	74-83-9	J
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	1.6 --0.872--	1.6	0.059	ug/m3	1	75-15-0	JB-U

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33208.04 (continued)

Sample Tag: 224121-IAB-130

TO-15, Method: TO-15, Run Date: 03/01/22 14:57, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.15	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	1.20	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.551	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	0.24	0.81	0.11	ug/m3	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 ~~0.24~~	1.2	0.11	ug/m3	1	106-46-7	-JB--U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	339.0	4.7	0.13	ug/m3	1	64-17-5	E-- J
Ethylbenzene	0.825	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	6.270	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.541	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	1.2	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	1.4	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	0.16	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	9.3	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	1.2	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	1.83	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	2.9	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.37~~	1.0	0.052	ug/m3	1	91-20-3	JB--U
Propylene*	Not detected	36	0.065	ug/m3	1	115-07-1	X
Styrene	0.724	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	3.7 ~~0.15~~	3.7	0.11	ug/m3	1	120-82-1	-JB--U

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

E-Concentration exceeds calibration range

X-Elevated reporting limit due to matrix interference

ALH 3/19/22



Analytical Laboratory Report

Lab Sample ID: S33208.04 (continued)

Sample Tag: 224121-IAB-130

TO-15, Method: TO-15, Run Date: 03/01/22 14:57, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2,4-Trimethylbenzene	0.98	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	0.39	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	1.4	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	0.697	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	2.0	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	0.24	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	15	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	0.32	1.1	0.12	ug/m3	1	79-01-6	J
Trichlorofluoromethane	1.1	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	2.6	1.7	0.16	ug/m3	1		
o-Xylene	0.87	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	3.5	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33208.05

Sample Tag: 224121-OA-130

Collected Date/Time: 02/22/2022 07:40 - 02/22/2022 14:55

Matrix: Air

COC Reference: A6055

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-4	N/A	02/24/22 14:05	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/01/22 15:27, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	8.7	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.4	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.270	0.5	0.019	ppbv	1	75-15-0	JB
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.030	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.430	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.130	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	0.030	0.2	0.024	ppbv	1	75-35-4	J
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.080	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	20.6	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.130	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.390	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.060	0.2	0.032	ppbv	1	622-96-8	J

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S33208.05 (continued)

Sample Tag: 224121-OA-130

TO-15, Method: TO-15, Run Date: 03/01/22 15:27, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.2	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.3	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	4.3	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.25	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.550	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.210	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.030	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	25	0.038	ppbv	1	115-07-1	X
Styrene	0.030	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.100	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.2	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.120	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.3	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.060	0.2	0.029	ppbv	1	109-99-9	J
Toluene	2.7	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.2	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.370	0.4	0.038	ppbv	1		J
o-Xylene	0.150	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.520	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/01/22 15:27, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	21	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	1.3	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	1.6 ~~0.841~~	1.6	0.059	ug/m3	1	75-15-0	JB ~~U~~
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S33208.05 (continued)

Sample Tag: 224121-OA-130

TO-15, Method: TO-15, Run Date: 03/01/22 15:27, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	0.15	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	0.888	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.447	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	0.12	0.79	0.095	ug/m3	1	75-35-4	J
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 0.48	1.2	0.11	ug/m3	1	106-46-7	--JB-U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	38.8	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.564	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	1.41	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.29	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	0.82	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	1.1	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	11	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.87	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	1.62	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.860	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 0.16	1.0	0.052	ug/m3	1	91-20-3	--JB--U
Propylene*	Not detected	43	0.065	ug/m3	1	115-07-1	X
Styrene	0.13	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.492	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	0.93	0.93	0.065	ug/m3	1	540-84-1	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33208.05 (continued)

Sample Tag: 224121-OA-130

TO-15, Method: TO-15, Run Date: 03/01/22 15:27, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	0.364	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	2.0	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	0.18	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	10	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.1	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.61	1.7	0.16	ug/m3	1		J
o-Xylene	0.651	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	2.26	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL

VALIDATA

Chemical Services, Inc.

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DATA USABILITY SUMMARY REPORT

COMPANY: AECOM Technical Services Northeast, Inc.
PROJECT NAME: Meeker Ave. SVI
CONTRACTED LAB: Merit Laboratories, Inc.
QA/QC LEVEL: DUSR
ANALYTICAL METHOD(S): EPA Method TO-15
VALIDATION GUIDELINES: USEPA Region II data validation SOP (VOA-TO15 HW-31 Rev.6, Analysis of VOCs in Air contained in Canisters by Method TO-15, September 2016), Professional Judgment

SAMPLE MATRIX: Air
TYPES OF ANALYSES: Volatile Organic Compounds (VOC)
DATA REVIEWER(S): Amy L. Hogan
SDG NUMBER: 33322
SAMPLING DATE(S): February 26, 2022

SAMPLES:

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>VOC</u>
224121-SSA-140	S33322.01	X
224121-IAA-140	S33322.02	X
224121-SSB-140	S33322.03	X
224121-IAB-140	S33322.04	X
224121-SSC-140	S33322.05	X
224121-IAC-140	S33322.06	X
224121-OA-140	S33322.07	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Merit Laboratories, Inc. – 33322

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per EPA Method TO-15.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

Initial Calibration Verification data was not submitted for this SDG. Data qualification based on the absence of Initial Calibration Verification data was not required. No data qualification was necessary.

Continuing Calibration:

All Continuing Calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were detections in the method blank for 3/01/22 for the following compounds:

Propylene	0.25 ppbv
Carbon disulfide	0.02 ppbv
1,3-dichlorobenzene	0.03 ppbv
1,4-dichlorobenzene	0.02 ppbv
1,2,4-trichlorobenzene	0.04 ppbv
Naphthalene	0.04 ppbv

Since the blank results were less than the equal to the RL, the positive results for these compounds in the SDG samples, which were less than the RL, were qualified as undetected (U) with the result being raised to the RL.

Canister Blanks:

There were no detects in the canister check blanks for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS / LCSD set was analyzed by the laboratory for this SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Duplicate:

Matrix Duplicate analysis data was not submitted for this SDG. Data qualification based on the absence of MD data was not required. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

The acetone results for samples 224121-SSB-140, 224121-SSC-140 and 224121-IAC-140 and the ethanol result for sample 224121-SSC-140 exceeded the linear calibration range. The acetone and ethanol results for the listed samples were qualified as estimated (J).

All other CRQL criteria were met.

Appendix A

Qualified Form Is



Analytical Laboratory Report

Lab Sample ID: S33322.01

Sample Tag: 224121-SSA-140

Collected Date/Time: 02/26/2022 07:57 - 02/26/2022 15:31

Matrix: Air

COC Reference: A6080

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-5	N/A	02/28/22 17:00	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/01/22 15:58, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	59.2	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	1.9	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.170	0.5	0.019	ppbv	1	75-15-0	JB
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	0.650	2.0	0.046	ppbv	1	75-00-3	J
Chloroform	0.070	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	1.1	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.160	0.2	0.028	ppbv	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.150	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	5.4	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.150	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.190	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.2	0.2	0.032	ppbv	1	622-96-8	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33322.01 (continued)

Sample Tag: 224121-SSA-140

TO-15, Method: TO-15, Run Date: 03/01/22 15:58, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.5	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	Not detected	0.3	0.019	ppbv	1	110-54-3	X
2-Hexanone*	0.190	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.5	0.5	0.14	ppbv	1	75-09-2	
2-Butanone (MEK)	1.450	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.140	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.130	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.5	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.7	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.180	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	Not detected	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.570	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	1.0	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.5	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.3	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.8	0.4	0.038	ppbv	1		
o-Xylene	0.3	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	1.1	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/01/22 15:58, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	141	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	6.1	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	1.6 ~~0.529~~	1.6	0.059	ug/m3	1	75-15-0	JB-- U
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	1.71	5.3	0.12	ug/m3	1	75-00-3	J

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

ALH 3/19/22

Lab Sample ID: S33322.01 (continued)

Sample Tag: 224121-SSA-140

TO-15, Method: TO-15, Run Date: 03/01/22 15:58, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	0.34	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	3.8	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	0.648	0.81	0.11	ug/m3	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 ~~0.902~~	1.2	0.11	ug/m3	1	106-46-7	~~JB~~ U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	10	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.651	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	0.685	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.98	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	2.0	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	Not detected	1.1	0.067	ug/m3	1	110-54-3	X
2-Hexanone*	0.778	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	1.7	1.7	0.49	ug/m3	1	75-09-2	
2-Butanone (MEK)	4.276	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.574	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.2 ~~0.681~~	1.0	0.052	ug/m3	1	91-20-3	~~JB~~ U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	2.1	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	3.4	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	0.885	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	Not detected	0.93	0.065	ug/m3	1	540-84-1	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33322.01 (continued)
Sample Tag: 224121-SSA-140

TO-15, Method: TO-15, Run Date: 03/01/22 15:58, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	1.73	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	6.8	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	1.9	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.7	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	3.5	1.7	0.16	ug/m3	1		
o-Xylene	1.3	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	4.8	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33322.02
Sample Tag: 224121-IAA-140
Collected Date/Time: 02/26/2022 07:58 - 02/26/2022 15:32
Matrix: Air
COC Reference: A6080

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-4	N/A	02/28/22 17:00	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/01/22 16:29, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	37.7	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.3	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.070	0.5	0.019	ppbv	1	75-15-0	JB
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.040	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.480	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.190	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.050	0.2	0.028	ppbv	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	12.1	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.180	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	Not detected	2.0	0.049	ppbv	1	141-78-6	
4-Ethyltoluene	0.070	0.2	0.032	ppbv	1	622-96-8	J

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Lab Sample ID: S33322.02 (continued)

Sample Tag: 224121-IAA-140

TO-15, Method: TO-15, Run Date: 03/01/22 16:29, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.6	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.4	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	4.0	0.5	0.14	ppbv	1	75-09-2	
2-Butanone (MEK)	0.560	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	0.070	0.2	0.017	ppbv	1	80-62-6	J
Naphthalene	0.020	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	6.8	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.180	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.060	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.2	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	Not detected	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	0.9	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.190	0.2	0.029	ppbv	1	109-99-9	J
Toluene	1.0	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.5	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.6	0.4	0.038	ppbv	1		
o-Xylene	0.2	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	0.8	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/01/22 16:29, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	89.6	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.96	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	1.6 -0.22--	1.6	0.059	ug/m3	1	75-15-0	--JB-U
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.20	0.98	0.098	ug/m3	1	67-66-3	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33322.02 (continued)

Sample Tag: 224121-IAA-140

TO-15, Method: TO-15, Run Date: 03/01/22 16:29, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	0.991	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.654	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	0.20	0.81	0.11	ug/m3	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	22.8	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.782	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	Not detected	7.2	0.18	ug/m3	1	141-78-6	
4-Ethyltoluene	0.34	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	2.5	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	1.4	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	14	1.7	0.49	ug/m3	1	75-09-2	
2-Butanone (MEK)	1.65	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	0.29	0.82	0.070	ug/m3	1	80-62-6	J
Naphthalene	1.0 ~~0.10~~ ----	1.0	0.052	ug/m3	1	91-20-3	--JB--U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	29	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.885	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.29	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	0.93	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	Not detected	3.0	0.12	ug/m3	1	75-65-0	
Tetrachloroethene	6.1	1.4	0.16	ug/m3	1	127-18-4	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 3/19/22



Analytical Laboratory Report

Lab Sample ID: S33322.02 (continued)
Sample Tag: 224121-IAA-140

TO-15, Method: TO-15, Run Date: 03/01/22 16:29, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	0.560	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	3.8	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	2.8	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	2.6	1.7	0.16	ug/m3	1		
o-Xylene	0.87	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	3.5	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33322.03

Sample Tag: 224121-SSB-140

Collected Date/Time: 02/26/2022 08:01 - 02/26/2022 15:33

Matrix: Air

COC Reference: A6080

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-6	N/A	02/28/22 17:00	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/01/22 17:00, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	272.6	2.0	0.058	ppbv	1	67-64-1	E
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.7	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.440	0.5	0.019	ppbv	1	75-15-0	JB
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	7.9	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.2	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	0.260	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.040	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.5	0.024	ppbv	1	110-82-7	X
1,1-Dichloroethane	0.6	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.5	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	0.520	2.5	0.038	ppbv	1	123-91-1	J
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	9.9	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.160	0.2	0.020	ppbv	1	100-41-4	J

E-Concentration exceeds calibration range

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33322.03 (continued)

Sample Tag: 224121-SSB-140

TO-15, Method: TO-15, Run Date: 03/01/22 17:00, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Ethyl Acetate*	0.170	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.2	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	1.8	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	3.6	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	0.370	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	Not detected	8.7	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.22	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	8.1	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	1.7	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.060	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	1.150	10	0.038	ppbv	1	115-07-1	JB
Styrene	10.2	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.8	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.3	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	1.0	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	2.9	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	0.180	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.7	0.029	ppbv	1	109-99-9	X
Toluene	2.5	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.180	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.5	0.029	ppbv	1	75-01-4	X
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.4	0.4	0.038	ppbv	1		
o-Xylene	0.2	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	0.6	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/01/22 17:00, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	647.6	4.8	0.14	ug/m3	1	67-64-1	-E---J
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	2.2	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

E-Concentration exceeds calibration range

ALH 3/19/22

Lab Sample ID: S33322.03 (continued)

Sample Tag: 224121-SSB-140

TO-15, Method: TO-15, Run Date: 03/01/22 17:00, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon disulfide	1.6 ~~1.37~~	1.6	0.059	ug/m3	1	75-15-0	~~JB~~ U
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	21	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.98	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	0.537	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.25	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	1.7	0.083	ug/m3	1	110-82-7	X
1,1-Dichloroethane	2.4	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	2.0	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	1.87	9.0	0.14	ug/m3	1	123-91-1	J
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	19	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.695	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	0.613	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.98	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	7.4	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	13	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	1.52	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	Not detected	21	0.19	ug/m3	1	67-63-0	X
Methylene chloride	0.76	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	24	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	7.0	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.31~~	1.0	0.052	ug/m3	1	91-20-3	~~JB~~ U
Propylene*	17 ~~1.979~~	17	0.065	ug/m3	1	115-07-1	~~JB~~ U
Styrene	43.4	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	3.9	0.98	0.14	ug/m3	1	95-63-6	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank
X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33322.03 (continued)

Sample Tag: 224121-SSB-140

TO-15, Method: TO-15, Run Date: 03/01/22 17:00, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,3,5-Trimethylbenzene	1.5	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	4.7	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	8.8	3.0	0.12	ug/m3	1	75-65-0	
Tetrachloroethene	1.22	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	Not detected	2.1	0.086	ug/m3	1	109-99-9	X
Toluene	9.4	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.01	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	1.3	0.074	ug/m3	1	75-01-4	X
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.7	1.7	0.16	ug/m3	1		
o-Xylene	0.87	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	2.6	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33322.04

Sample Tag: 224121-IAB-140

Collected Date/Time: 02/26/2022 08:02 - 02/26/2022 15:34

Matrix: Air

COC Reference: A6080

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-4	N/A	02/28/22 17:00	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/01/22 17:30, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	6.9	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.2	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.030	0.5	0.019	ppbv	1	75-15-0	JB
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.020	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.420	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.120	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	5.0	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.130	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	Not detected	2.0	0.049	ppbv	1	141-78-6	
4-Ethyltoluene	0.040	0.2	0.032	ppbv	1	622-96-8	J

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Lab Sample ID: S33322.04 (continued)

Sample Tag: 224121-IAB-140

TO-15, Method: TO-15, Run Date: 03/01/22 17:30, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.2	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.3	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	19.7	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.20	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.120	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	0.160	0.2	0.017	ppbv	1	80-62-6	J
Naphthalene	0.020	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.7	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.120	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.030	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.180	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	Not detected	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	0.5	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.040	0.2	0.029	ppbv	1	109-99-9	J
Toluene	0.9	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.160	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.4	0.4	0.038	ppbv	1		
o-Xylene	0.160	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.570	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/01/22 17:30, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	16	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.64	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	1.6 -0.093---	1.6	0.059	ug/m3	1	75-15-0	---JB-- U
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.098	0.98	0.098	ug/m3	1	67-66-3	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33322.04 (continued)

Sample Tag: 224121-IAB-140

TO-15, Method: TO-15, Run Date: 03/01/22 17:30, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	0.867	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.413	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	9.4	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.564	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	Not detected	7.2	0.18	ug/m3	1	141-78-6	
4-Ethyltoluene	0.20	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	0.82	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	1.1	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	48.4	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.69	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	0.354	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	0.655	0.82	0.070	ug/m3	1	80-62-6	J
Naphthalene	1.0 ~~0.10~~	1.0	0.052	ug/m3	1	91-20-3	---JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	3.0	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.590	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.15	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	0.841	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	Not detected	3.0	0.12	ug/m3	1	75-65-0	
Tetrachloroethene	3.4	1.4	0.16	ug/m3	1	127-18-4	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33322.04 (continued)

Sample Tag: 224121-IAB-140

TO-15, Method: TO-15, Run Date: 03/01/22 17:30, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	0.12	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	3.4	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	0.899	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.7	1.7	0.16	ug/m3	1		
o-Xylene	0.695	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	2.47	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33322.05

Sample Tag: 224121-SSC-140

Collected Date/Time: 02/26/2022 08:05 - 02/26/2022 15:39

Matrix: Air

COC Reference: A6080

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-4	N/A	02/28/22 17:00	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/01/22 18:01, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	1,325.0	2.0	0.058	ppbv	1	67-64-1	E
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	4.1	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.460	0.5	0.019	ppbv	1	75-15-0	JB
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	7.1	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.8	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.050	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	3.3	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	0.3	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.2	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	6.0	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.5	0.021	ppbv	1	156-60-5	X
cis-1,2-Dichloroethene	0.9	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	644.5	2.5	0.068	ppbv	1	64-17-5	E
Ethylbenzene	0.6	0.2	0.020	ppbv	1	100-41-4	

E-Concentration exceeds calibration range

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33322.05 (continued)

Sample Tag: 224121-SSC-140

TO-15, Method: TO-15, Run Date: 03/01/22 18:01, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Ethyl Acetate*	Not detected	2.0	0.049	ppbv	1	141-78-6	
4-Ethyltoluene	0.4	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.040	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	2.9	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	Not detected	9.8	0.019	ppbv	1	110-54-3	X
2-Hexanone*	5.4	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	41.4	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.24	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	47.8	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	8.0	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	1.2	0.2	0.010	ppbv	1	91-20-3	
Propylene*	9.620	10	0.038	ppbv	1	115-07-1	JB
Styrene	30.0	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	2.9	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.9	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	Not detected	1.1	0.014	ppbv	1	540-84-1	X
Tert-butyl Alcohol	55.1	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	95.1	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	3.1	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	2.0	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.130	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	5.2	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	1.3	0.4	0.038	ppbv	1		
o-Xylene	0.5	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	1.8	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/01/22 18:01, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	3,147.5	4.8	0.14	ug/m3	1	67-64-1	-----E-- J
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	13	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

E-Concentration exceeds calibration range

ALH 3/19/22



Analytical Laboratory Report

Lab Sample ID: S33322.05 (continued)

Sample Tag: 224121-SSC-140

TO-15, Method: TO-15, Run Date: 03/01/22 18:01, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon disulfide	1.6 ~~1.43~~ ----	1.6	0.059	ug/m3	1	75-15-0	--JB--U
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	19	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	3.9	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.31	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	11	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	1.2	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	0.81	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	22	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	2.0	0.083	ug/m3	1	156-60-5	X
cis-1,2-Dichloroethene	3.6	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	1,214	4.7	0.13	ug/m3	1	64-17-5	--E--J
Ethylbenzene	2.6	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	Not detected	7.2	0.18	ug/m3	1	141-78-6	
4-Ethyltoluene	2.0	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.31	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	12	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	Not detected	35	0.067	ug/m3	1	110-54-3	X
2-Hexanone*	22	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	102	0.19	ug/m3	1	67-63-0	X
Methylene chloride	0.83	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	141	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	33	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	6.3	1.0	0.052	ug/m3	1	91-20-3	
Propylene*	17 ~~16.56~~	17	0.065	ug/m3	1	115-07-1	--JB--U
Styrene	128	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference

E-Concentration exceeds calibration range



Analytical Laboratory Report

Lab Sample ID: S33322.05 (continued)
Sample Tag: 224121-SSC-140

TO-15, Method: TO-15, Run Date: 03/01/22 18:01, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2,4-Trimethylbenzene	14	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	4.4	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	Not detected	5.1	0.065	ug/m3	1	540-84-1	X
Tert-butyl Alcohol	167	3.0	0.12	ug/m3	1	75-65-0	
Tetrachloroethene	645	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	12	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	11	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	0.730	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	13	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	5.6	1.7	0.16	ug/m3	1		
o-Xylene	2.2	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	7.8	2.6	0.25	ug/m3	1	1330-20-7	

X-Elevated reporting limit due to matrix interference
J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33322.06

Sample Tag: 224121-IAC-140

Collected Date/Time: 02/26/2022 08:06 - 02/26/2022 15:40

Matrix: Air

COC Reference: A6080

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-2	N/A	02/28/22 17:00	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/01/22 19:12, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	172.4	2.0	0.058	ppbv	1	67-64-1	E
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.5	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.090	0.5	0.019	ppbv	1	75-15-0	JB
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.070	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.410	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.130	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	12.6	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.160	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.220	2.0	0.049	ppbv	1	141-78-6	J

E-Concentration exceeds calibration range

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S33322.06 (continued)

Sample Tag: 224121-IAC-140

TO-15, Method: TO-15, Run Date: 03/01/22 19:12, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.110	0.2	0.032	ppbv	1	622-96-8	J
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.2	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.3	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	0.090	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	40.0	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.19	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.490	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.130	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	0.3	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.040	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	67.7	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.110	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.030	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.170	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	0.720	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	80.0	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.9	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.160	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.4	0.4	0.038	ppbv	1		
o-Xylene	0.150	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.560	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/01/22 19:12, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	409.5	4.8	0.14	ug/m3	1	67-64-1	---E---J
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	1.6	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	1.6	0.28	0.059	ug/m3	1	75-15-0	---JB---U
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

E-Concentration exceeds calibration range



Analytical Laboratory Report

Lab Sample ID: S33322.06 (continued)

Sample Tag: 224121-IAC-140

TO-15, Method: TO-15, Run Date: 03/01/22 19:12, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.34	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	0.847	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.447	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	23.7	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.695	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	0.793	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.541	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	0.82	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	1.1	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	0.37	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	98.3	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.66	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	1.45	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.533	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	1.2	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 0.21----	1.0	0.052	ug/m3	1	91-20-3	----JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	288	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.541	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.15	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	0.794	0.93	0.065	ug/m3	1	540-84-1	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 3/19/22



Analytical Laboratory Report

Lab Sample ID: S33322.06 (continued)
Sample Tag: 224121-IAC-140

TO-15, Method: TO-15, Run Date: 03/01/22 19:12, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	2.18	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	543	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	3.4	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	0.899	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.7	1.7	0.16	ug/m3	1		
o-Xylene	0.651	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	2.43	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33322.07

Sample Tag: 224121-OA-140

Collected Date/Time: 02/26/2022 08:08 - 02/26/2022 15:42

Matrix: Air

COC Reference: A6080

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	0	N/A	02/28/22 17:00	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/01/22 19:42, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	2.9	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.2	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.040	0.5	0.019	ppbv	1	75-15-0	JB
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.020	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.430	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.120	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	4.3	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.110	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	Not detected	2.0	0.049	ppbv	1	141-78-6	
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S33322.07 (continued)

Sample Tag: 224121-OA-140

TO-15, Method: TO-15, Run Date: 03/01/22 19:42, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.150	0.2	0.015	ppbv	1	142-82-5	J
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.3	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.19	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.150	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.010	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.090	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.070	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.140	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	Not detected	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	0.110	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.7	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.170	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.350	0.4	0.038	ppbv	1		J
o-Xylene	0.110	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.460	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/01/22 19:42, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	6.9	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.64	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	1.6 ~~0.12~~	1.6	0.059	ug/m3	1	75-15-0	--JB--U
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.098	0.98	0.098	ug/m3	1	67-66-3	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 3/19/22



Analytical Laboratory Report

Lab Sample ID: S33322.07 (continued)

Sample Tag: 224121-OA-140

TO-15, Method: TO-15, Run Date: 03/01/22 19:42, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	0.888	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.413	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	8.1	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.478	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	Not detected	7.2	0.18	ug/m3	1	141-78-6	
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	0.615	0.82	0.061	ug/m3	1	142-82-5	J
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	1.1	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.66	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	0.442	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~-0.052--~~	1.0	0.052	ug/m3	1	91-20-3	--JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.38	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.34	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	0.654	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	Not detected	3.0	0.12	ug/m3	1	75-65-0	
Tetrachloroethene	0.746	1.4	0.16	ug/m3	1	127-18-4	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 3/19/22



Analytical Laboratory Report

Lab Sample ID: S33322.07 (continued)
Sample Tag: 224121-OA-140

TO-15, Method: TO-15, Run Date: 03/01/22 19:42, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	2.6	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	0.955	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.52	1.7	0.16	ug/m3	1		J
o-Xylene	0.478	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	2.00	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL

VALIDATA

Chemical Services, Inc.

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(770) 232-0130

(770) 232-5082 (Fax)

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DATA USABILITY SUMMARY REPORT

COMPANY: AECOM Technical Services Northeast, Inc.
PROJECT NAME: Meeker Ave. SVI
CONTRACTED LAB: Merit Laboratories, Inc.
QA/QC LEVEL: DUSR
ANALYTICAL METHOD(S): EPA Method TO-15
VALIDATION GUIDELINES: USEPA Region II data validation SOP (VOA-TO15 HW-31 Rev.6, Analysis of VOCs in Air contained in Canisters by Method TO-15, September 2016), Professional Judgment

SAMPLE MATRIX: Air
TYPES OF ANALYSES: Volatile Organic Compounds (VOC)
DATA REVIEWER(S): Amy L. Hogan
SDG NUMBER: 33323
SAMPLING DATE(S): February 22-24, 2022

SAMPLES:

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>VOC</u>
224121-SS-131	S33323.01	X
224121-IA-131	S33323.02	X
224121-SS-132	S33323.03	X
224121-IA-132	S33323.04	X
224121-OA-132	S33323.05	X
224121-SS-133	S33323.06	X
224121-IA-133	S33323.07	X
224121-SS-134	S33323.08	X
224121-IA-134	S33323.09	X
224121-SS-135	S33323.10	X
224121-IA-135	S33323.11	X
224121-SS-136	S33323.12	X
224121-IA-136	S33323.13	X
224121-SS-137	S33323.14	X
224121-IA-137	S33323.15	X
224121-SS-138	S33323.16	X
224121-IA-138	S33323.17	X
224121-SS-75	S33323.18	X
224121-IA-75	S33323.19	X
224121-OA-75	S33323.20	X

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>VOC</u>
224121-SS-139	S33323.21	X
224121-IA-139	S33323.22	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Merit Laboratories, Inc. – 33323

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per EPA Method TO-15.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

Initial Calibration Verification data was not submitted for this SDG. Data qualification based on the absence of Initial Calibration Verification data was not required. No data qualification was necessary.

Continuing Calibration:

All Continuing Calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were detections in the method blank for 3/02/22 for the following compounds:

Propylene	0.25 ppbv
Acetone	0.22 ppbv
1,3-dichlorobenzene	0.04 ppbv
1,4-dichlorobenzene	0.02 ppbv
1,2,4-trichlorobenzene	0.04 ppbv
Naphthalene	0.04 ppbv

Since the blank results were less than the equal to the RL, the positive results for these compounds in the associated SDG samples, which were less than the RL, were qualified as undetected (U) with the result being raised to the RL. The associated samples were all SDG samples except 224121-OA-75, 224121-SS-139 and 224121-IA-139.

There were detections in the method blank for 3/03/22 for the following compounds:

Propylene	0.25 ppbv
1,3-dichlorobenzene	0.02 ppbv
1,4-dichlorobenzene	0.02 ppbv
1,2,4-trichlorobenzene	0.04 ppbv
Naphthalene	0.05 ppbv

Since the blank results were less than the equal to the RL, the positive results for these compounds in associated SDG samples 224121-OA-75, 224121-SS-139 and 224121-IA-139, which were less than the RL, were qualified as undetected (U) with the result being raised to the RL.

Canister Blanks:

There were no detects in the canister check blanks for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

Two LCS / LCSD sets were analyzed by the laboratory for this SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Duplicate:

Matrix Duplicate analysis data was not submitted for this SDG. Data qualification based on the absence of MD data was not required. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

The acetone result for sample 224121-SS-136 exceeded the linear calibration range and was qualified as estimated (J).

All other CRQL criteria were met.

Appendix A

Qualified Form Is



Analytical Laboratory Report

Lab Sample ID: S33323.01

Sample Tag: 224121-SS-131

Collected Date/Time: 02/22/2022 10:11 - 02/23/2022 09:56

Matrix: Air

COC Reference: A6082

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-4	N/A	02/28/22 17:00	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/02/22 11:10, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	50.2	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.4	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.9	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	16.6	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.4	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	0.440	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.4	0.024	ppbv	1	110-82-7	X
1,1-Dichloroethane	0.9	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.7	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	0.090	2.5	0.038	ppbv	1	123-91-1	J
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.020	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	14.1	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.160	0.2	0.020	ppbv	1	100-41-4	J

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.01 (continued)

Sample Tag: 224121-SS-131

TO-15, Method: TO-15, Run Date: 03/02/22 11:10, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Ethyl Acetate*	0.830	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.130	0.2	0.032	ppbv	1	622-96-8	J
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	1.0	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	1.8	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	0.250	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	2.9	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.33	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	5.0	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	0.8	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.050	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	Not detected	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	0.070	0.5	0.015	ppbv	1	120-82-1	JB
1,2,4-Trimethylbenzene	0.3	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.080	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	1.0	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.980	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.3	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.8	0.2	0.029	ppbv	1	109-99-9	
Toluene	1.5	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.190	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	1.0	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.5	0.4	0.038	ppbv	1		
o-Xylene	0.190	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.7	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/02/22 11:10, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	119	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	1.3	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	2.8	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.01 (continued)

Sample Tag: 224121-SS-131

TO-15, Method: TO-15, Run Date: 03/02/22 11:10, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	43.8	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	2.0	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	0.909	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	1.4	0.083	ug/m3	1	110-82-7	X
1,1-Dichloroethane	3.6	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	2.8	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	0.32	9.0	0.14	ug/m3	1	123-91-1	J
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 ~~0.12~~	1.2	0.11	ug/m3	1	106-46-7	~~JB~~ ~~U~~
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	26.6	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.695	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	2.99	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.639	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	4.1	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	6.3	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	1.02	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	7.1	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	1.1	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	15	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	3.3	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.26~~	1.0	0.052	ug/m3	1	91-20-3	~~JB~~ ~~U~~
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	Not detected	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	3.7 ~~0.52~~	3.7	0.11	ug/m3	1	120-82-1	~~JB~~ ~~U~~
1,2,4-Trimethylbenzene	1.5	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	0.39	0.98	0.12	ug/m3	1	108-67-8	J

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.01 (continued)
Sample Tag: 224121-SS-131

TO-15, Method: TO-15, Run Date: 03/02/22 11:10, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2,2,4-Trimethylpentane	4.7	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	2.97	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	2.0	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	2.4	0.59	0.086	ug/m3	1	109-99-9	
Toluene	5.7	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.07	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	2.6	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	2.2	1.7	0.16	ug/m3	1		
o-Xylene	0.825	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	3.0	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33323.02

Sample Tag: 224121-IA-131

Collected Date/Time: 02/22/2022 10:12 - 02/23/2022 09:57

Matrix: Air

COC Reference: A6082

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-7	N/A	02/28/22 17:00	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/02/22 11:41, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	4.4	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.2	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.130	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.040	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.470	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.070	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.090	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.040	0.2	0.028	ppbv	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.030	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	6.9	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.180	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.110	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.02 (continued)

Sample Tag: 224121-IA-131

TO-15, Method: TO-15, Run Date: 03/02/22 11:41, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.7	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.4	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.2	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	1.570	2.0	0.076	ppbv	1	67-63-0	J
Methylene chloride	0.25	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.420	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.050	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.040	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.030	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	2.2	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.6	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.140	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	Not detected	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	0.060	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	0.2	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.9	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.190	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.7	0.4	0.038	ppbv	1		
o-Xylene	0.3	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	1.0	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/02/22 11:41, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	10	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.64	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.405	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

Lab Sample ID: S33323.02 (continued)

Sample Tag: 224121-IA-131

TO-15, Method: TO-15, Run Date: 03/02/22 11:41, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	0.20	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	0.971	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.44	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.31	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	0.16	0.81	0.11	ug/m3	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 ~~0.18~~	1.2	0.11	ug/m3	1	106-46-7	~~JB~~ U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	13	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.782	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	0.396	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	3.4	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	1.6	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	0.70	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	3.859	4.9	0.19	ug/m3	1	67-63-0	J
Methylene chloride	0.87	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	1.24	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.20	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.21~~	1.0	0.052	ug/m3	1	91-20-3	~~JB~~ U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.13	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	11	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	2.9	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	0.654	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	Not detected	3.0	0.12	ug/m3	1	75-65-0	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.02 (continued)
Sample Tag: 224121-IA-131

TO-15, Method: TO-15, Run Date: 03/02/22 11:41, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrachloroethene	0.41	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	0.59	0.59	0.086	ug/m3	1	109-99-9	
Toluene	3.4	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.07	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	3.0	1.7	0.16	ug/m3	1		
o-Xylene	1.3	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	4.3	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33323.03

Sample Tag: 224121-SS-132

Collected Date/Time: 02/22/2022 12:10 - 02/23/2022 11:54

Matrix: Air

COC Reference: A6082

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-8	N/A	02/28/22 17:00	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/02/22 12:12, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	22.0	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.4	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.410	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	18.7	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.7	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	0.370	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.4	0.024	ppbv	1	110-82-7	X
1,1-Dichloroethane	0.8	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.7	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.020	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	17.4	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.120	0.2	0.020	ppbv	1	100-41-4	J

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.03 (continued)

Sample Tag: 224121-SS-132

TO-15, Method: TO-15, Run Date: 03/02/22 12:12, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Ethyl Acetate*	0.140	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.090	0.2	0.032	ppbv	1	622-96-8	J
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.9	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	1.3	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	0.230	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.25	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	3.3	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.040	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.040	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	0.020	0.5	0.015	ppbv	1	120-82-1	JB
1,2,4-Trimethylbenzene	0.130	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.040	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	1.3	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	Not detected	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	0.080	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	0.140	0.2	0.029	ppbv	1	109-99-9	J
Toluene	0.9	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.160	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	1.5	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.4	0.4	0.038	ppbv	1		
o-Xylene	0.130	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.540	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/02/22 12:12, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	52.3	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	1.3	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	1.28	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.03 (continued)

Sample Tag: 224121-SS-132

TO-15, Method: TO-15, Run Date: 03/02/22 12:12, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	49.3	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	3.4	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	0.764	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	1.4	0.083	ug/m3	1	110-82-7	X
1,1-Dichloroethane	3.2	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	2.8	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 ~~0.12~~	1.2	0.11	ug/m3	1	106-46-7	JB--U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	32.8	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.521	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	0.505	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.44	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	3.7	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	4.6	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	0.942	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.87	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	9.7	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.21~~	1.0	0.052	ug/m3	1	91-20-3	--JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.17	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	3.7 ~~0.15~~	3.7	0.11	ug/m3	1	120-82-1	JB--U
1,2,4-Trimethylbenzene	0.639	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.20	0.98	0.12	ug/m3	1	108-67-8	J

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.03 (continued)
Sample Tag: 224121-SS-132

TO-15, Method: TO-15, Run Date: 03/02/22 12:12, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2,2,4-Trimethylpentane	6.1	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	Not detected	3.0	0.12	ug/m3	1	75-65-0	
Tetrachloroethene	0.54	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	0.413	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	3.4	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	0.899	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	3.8	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.7	1.7	0.16	ug/m3	1		
o-Xylene	0.564	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	2.34	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33323.04

Sample Tag: 224121-IA-132

Collected Date/Time: 02/22/2022 12:11 - 02/23/2022 11:55

Matrix: Air

COC Reference: A6082

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-8	N/A	02/28/22 17:00	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/02/22 12:43, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	6.6	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.2	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.100	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.070	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.490	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.080	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.030	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	38.6	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.110	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.100	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.04 (continued)

Sample Tag: 224121-IA-132

TO-15, Method: TO-15, Run Date: 03/02/22 12:43, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.070	0.2	0.032	ppbv	1	622-96-8	J
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.2	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.190	0.2	0.019	ppbv	1	110-54-3	J
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	1.550	2.0	0.076	ppbv	1	67-63-0	J
Methylene chloride	0.23	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.400	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.060	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.060	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.040	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.100	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.110	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	Not detected	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	0.050	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	0.040	0.2	0.029	ppbv	1	109-99-9	J
Toluene	0.8	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.170	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.360	0.4	0.038	ppbv	1		J
o-Xylene	0.120	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.480	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/02/22 12:43, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	16	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.64	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.311	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

Lab Sample ID: S33323.04 (continued)

Sample Tag: 224121-IA-132

TO-15, Method: TO-15, Run Date: 03/02/22 12:43, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	0.34	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	1.01	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.50	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 ~~-0.18----~~	1.2	0.11	ug/m3	1	106-46-7	~~JB~~ U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	72.7	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.478	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	0.360	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.34	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	0.82	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	0.670	0.70	0.067	ug/m3	1	110-54-3	J
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	3.810	4.9	0.19	ug/m3	1	67-63-0	J
Methylene chloride	0.80	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	1.18	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.25	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~-0.31----~~	1.0	0.052	ug/m3	1	91-20-3	~~JB~~ U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.17	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.492	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	0.514	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	Not detected	3.0	0.12	ug/m3	1	75-65-0	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.04 (continued)
Sample Tag: 224121-IA-132

TO-15, Method: TO-15, Run Date: 03/02/22 12:43, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrachloroethene	0.34	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	0.12	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	3.0	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	0.955	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.56	1.7	0.16	ug/m3	1		J
o-Xylene	0.521	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	2.08	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33323.05

Sample Tag: 224121-OA-132

Collected Date/Time: 02/22/2022 12:12 - 02/23/2022 11:56

Matrix: Air

COC Reference: A6082

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-6	N/A	02/28/22 17:00	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/02/22 13:14, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	4.8	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.4	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.150	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.020	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.450	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.030	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	5.5	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.070	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.060	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.05 (continued)

Sample Tag: 224121-OA-132

TO-15, Method: TO-15, Run Date: 03/02/22 13:14, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.050	0.2	0.032	ppbv	1	622-96-8	J
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.160	0.2	0.015	ppbv	1	142-82-5	J
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.110	0.2	0.019	ppbv	1	110-54-3	J
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	1.110	2.0	0.076	ppbv	1	67-63-0	J
Methylene chloride	0.17	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.460	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.030	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	Not detected	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.050	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.090	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	Not detected	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	0.030	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.7	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.160	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.200	0.4	0.038	ppbv	1		J
o-Xylene	0.070	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.270	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/02/22 13:14, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	11	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	1.3	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.467	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.05 (continued)

Sample Tag: 224121-OA-132

TO-15, Method: TO-15, Run Date: 03/02/22 13:14, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	0.098	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	0.929	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 -0.18---	1.2	0.11	ug/m3	1	106-46-7	JB--U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	10	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.30	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	0.22	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.25	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	0.656	0.82	0.061	ug/m3	1	142-82-5	J
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	0.388	0.70	0.067	ug/m3	1	110-54-3	J
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	2.728	4.9	0.19	ug/m3	1	67-63-0	J
Methylene chloride	0.59	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	1.36	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 -0.16--	1.0	0.052	ug/m3	1	91-20-3	JB--U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	Not detected	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.25	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	0.42	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	Not detected	3.0	0.12	ug/m3	1	75-65-0	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 3/29/22



Analytical Laboratory Report

Lab Sample ID: S33323.05 (continued)
Sample Tag: 224121-OA-132

TO-15, Method: TO-15, Run Date: 03/02/22 13:14, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrachloroethene	0.20	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	2.6	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	0.899	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	0.868	1.7	0.16	ug/m3	1		J
o-Xylene	0.30	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	1.17	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33323.06

Sample Tag: 224121-SS-133

Collected Date/Time: 02/22/2022 14:10 - 02/23/2022 13:50

Matrix: Air

COC Reference: A6082

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-8	N/A	02/28/22 17:00	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/02/22 13:53, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	10.0	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.3	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.220	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	21.5	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.6	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.050	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.4	0.024	ppbv	1	110-82-7	X
1,1-Dichloroethane	1.0	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.8	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	11.2	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.3	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	1.680	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33323.06 (continued)

Sample Tag: 224121-SS-133

TO-15, Method: TO-15, Run Date: 03/02/22 13:53, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.090	0.2	0.032	ppbv	1	622-96-8	J
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.7	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	1.1	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	0.240	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.26	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	2.6	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.040	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.2	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.150	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.050	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	1.5	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.740	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.4	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.5	0.2	0.029	ppbv	1	109-99-9	
Toluene	1.2	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	0.100	0.2	0.023	ppbv	1	79-01-6	J
Trichlorofluoromethane	0.180	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	1.6	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	1.030	2.0	0.015	ppbv	1	108-05-4	J
p,m-Xylene	1.3	0.4	0.038	ppbv	1		
o-Xylene	0.5	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	1.8	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/02/22 13:53, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	23.8	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.96	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.685	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	56.7	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.06 (continued)

Sample Tag: 224121-SS-133

TO-15, Method: TO-15, Run Date: 03/02/22 13:53, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	2.9	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.31	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	1.4	0.083	ug/m3	1	110-82-7	X
1,1-Dichloroethane	4.0	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	3.2	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	21.1	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	1.3	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	6.054	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.44	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	2.9	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	3.9	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	0.983	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.90	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	7.7	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 0.21	1.0	0.052	ug/m3	1	91-20-3	-JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.85	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.737	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.25	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	7.0	0.93	0.065	ug/m3	1	540-84-1	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

ALH 3/29/22



Analytical Laboratory Report

Lab Sample ID: S33323.06 (continued)
Sample Tag: 224121-SS-133

TO-15, Method: TO-15, Run Date: 03/02/22 13:53, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	2.24	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	2.7	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	1.5	0.59	0.086	ug/m3	1	109-99-9	
Toluene	4.5	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	0.537	1.1	0.12	ug/m3	1	79-01-6	J
Trichlorofluoromethane	1.01	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	4.1	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	3.627	7.0	0.053	ug/m3	1	108-05-4	J
p,m-Xylene	5.6	1.7	0.16	ug/m3	1		
o-Xylene	2.2	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	7.8	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33323.07

Sample Tag: 224121-IA-133

Collected Date/Time: 02/22/2022 14:15 - 02/23/2022 13:51

Matrix: Air

COC Reference: A6082

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-10	N/A	02/28/22 17:00	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/02/22 14:24, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	92.0	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.190	0.2	0.019	ppbv	1	71-43-2	J
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.100	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.3	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	0.450	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.030	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	15.9	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.4	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	0.110	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S33323.07 (continued)

Sample Tag: 224121-IA-133

TO-15, Method: TO-15, Run Date: 03/02/22 14:24, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.2	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.3	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	Not detected	0.6	0.019	ppbv	1	110-54-3	X
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.4	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.8	0.5	0.14	ppbv	1	75-09-2	
2-Butanone (MEK)	3.0	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	0.140	0.2	0.017	ppbv	1	80-62-6	J
Naphthalene	0.040	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.140	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	0.030	0.5	0.015	ppbv	1	120-82-1	JB
1,2,4-Trimethylbenzene	0.5	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.120	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.130	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	0.540	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.040	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	5.4	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.9	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	0.030	0.2	0.023	ppbv	1	79-01-6	J
Trichlorofluoromethane	0.160	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.7	0.4	0.038	ppbv	1		
o-Xylene	0.3	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	1.0	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/02/22 14:24, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	219	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.607	0.64	0.061	ug/m3	1	71-43-2	J
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.311	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

Lab Sample ID: S33323.07 (continued)

Sample Tag: 224121-IA-133

TO-15, Method: TO-15, Run Date: 03/02/22 14:24, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	1.5	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	0.929	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 ~~0.18~~	1.2	0.11	ug/m3	1	106-46-7	JB-U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	30.0	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	1.7	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	0.396	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.98	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	1.2	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	Not detected	2.1	0.067	ug/m3	1	110-54-3	X
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	5.9	0.19	ug/m3	1	67-63-0	X
Methylene chloride	2.8	1.7	0.49	ug/m3	1	75-09-2	
2-Butanone (MEK)	8.8	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	0.573	0.82	0.070	ug/m3	1	80-62-6	J
Naphthalene	1.0 ~~0.21~~	1.0	0.052	ug/m3	1	91-20-3	JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.596	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	3.7 ~~0.22~~	3.7	0.11	ug/m3	1	120-82-1	JB-U
1,2,4-Trimethylbenzene	2.5	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	0.590	0.98	0.12	ug/m3	1	108-67-8	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33323.07 (continued)
Sample Tag: 224121-IA-133

TO-15, Method: TO-15, Run Date: 03/02/22 14:24, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2,2,4-Trimethylpentane	0.607	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	1.64	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.27	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	16	0.59	0.086	ug/m3	1	109-99-9	
Toluene	3.4	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	0.16	1.1	0.12	ug/m3	1	79-01-6	J
Trichlorofluoromethane	0.899	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	3.0	1.7	0.16	ug/m3	1		
o-Xylene	1.3	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	4.3	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33323.08

Sample Tag: 224121-SS-134

Collected Date/Time: 02/22/2022 16:08 - 02/23/2022 15:53

Matrix: Air

COC Reference: A6082

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-8	N/A	02/28/22 17:00	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/02/22 14:55, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	20.1	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.100	0.2	0.019	ppbv	1	71-43-2	J
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	1.5	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	5.9	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.2	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	0.2	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.190	0.2	0.028	ppbv	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	12.9	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.050	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.520	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.050	0.2	0.032	ppbv	1	622-96-8	J

J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S33323.08 (continued)

Sample Tag: 224121-SS-134

TO-15, Method: TO-15, Run Date: 03/02/22 14:55, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.3	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.5	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	0.160	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.18	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	2.1	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.040	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	Not detected	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	0.020	0.5	0.015	ppbv	1	120-82-1	JB
1,2,4-Trimethylbenzene	0.100	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.4	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	Not detected	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	1.0	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.2	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.3	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	0.040	0.2	0.023	ppbv	1	79-01-6	J
Trichlorofluoromethane	0.180	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	0.5	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.200	0.4	0.038	ppbv	1		J
o-Xylene	0.090	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.290	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/02/22 14:55, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	47.7	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.319	0.64	0.061	ug/m3	1	71-43-2	J
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	4.7	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	16	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.98	0.98	0.098	ug/m3	1	67-66-3	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

Lab Sample ID: S33323.08 (continued)

Sample Tag: 224121-SS-134

TO-15, Method: TO-15, Run Date: 03/02/22 14:55, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	0.81	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	0.769	0.81	0.11	ug/m3	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	24.3	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.22	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	1.87	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.25	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	1.2	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	1.8	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	0.655	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.63	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	6.2	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 0.21-	1.0	0.052	ug/m3	1	91-20-3	-JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	Not detected	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	3.7 0.15--	3.7	0.11	ug/m3	1	120-82-1	-JB-U
1,2,4-Trimethylbenzene	0.492	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	1.9	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	Not detected	3.0	0.12	ug/m3	1	75-65-0	
Tetrachloroethene	6.8	1.4	0.16	ug/m3	1	127-18-4	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.08 (continued)

Sample Tag: 224121-SS-134

TO-15, Method: TO-15, Run Date: 03/02/22 14:55, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	0.59	0.59	0.086	ug/m3	1	109-99-9	
Toluene	1.1	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	0.21	1.1	0.12	ug/m3	1	79-01-6	J
Trichlorofluoromethane	1.01	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	1.3	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	0.868	1.7	0.16	ug/m3	1		J
o-Xylene	0.39	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	1.26	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33323.09

Sample Tag: 224121-IA-134

Collected Date/Time: 02/22/2022 16:10 - 02/23/2022 15:54

Matrix: Air

COC Reference: A6082

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-4	N/A	02/28/22 17:00	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/02/22 15:25, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	12.3	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.3	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.060	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.110	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.440	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.2	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.030	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	42.1	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.3	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	0.550	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

Lab Sample ID: S33323.09 (continued)

Sample Tag: 224121-IA-134

TO-15, Method: TO-15, Run Date: 03/02/22 15:25, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.4	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	1.0	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.7	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	0.130	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	2.1	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.19	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.950	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	1.8	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.7	0.2	0.010	ppbv	1	91-20-3	
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.030	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	1.1	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.4	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.9	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.600	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.030	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	1.5	0.2	0.029	ppbv	1	109-99-9	
Toluene	1.8	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.170	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.9	0.4	0.038	ppbv	1		
o-Xylene	0.3	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	1.2	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/02/22 15:25, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	29.2	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.96	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.19	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.537	0.98	0.098	ug/m3	1	67-66-3	J

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S33323.09 (continued)

Sample Tag: 224121-IA-134

TO-15, Method: TO-15, Run Date: 03/02/22 15:25, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	0.909	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.69	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 - 0.18 -	1.2	0.11	ug/m3	1	106-46-7	JB--U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	79.3	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	1.3	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	1.98	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	2.0	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	4.1	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	2.5	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	0.533	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	5.2	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.66	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	2.80	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	7.4	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	3.7	1.0	0.052	ug/m3	1	91-20-3	
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.13	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	5.4	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	2.0	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	4.2	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	1.82	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.20	1.4	0.16	ug/m3	1	127-18-4	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.09 (continued)
Sample Tag: 224121-IA-134

TO-15, Method: TO-15, Run Date: 03/02/22 15:25, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	4.4	0.59	0.086	ug/m3	1	109-99-9	
Toluene	6.8	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	0.955	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	3.9	1.7	0.16	ug/m3	1		
o-Xylene	1.3	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	5.2	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33323.10

Sample Tag: 224121-SS-135

Collected Date/Time: 02/24/2022 07:12 - 02/25/2022 06:58

Matrix: Air

COC Reference: A6082

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-5	N/A	02/28/22 17:00	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/02/22 15:55, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	25.7	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.4	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.9	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	5.2	2.0	0.046	ppbv	1	75-00-3	
Chloroform	19.6	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	0.3	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.4	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	18.1	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.090	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	1.670	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33323.10 (continued)

Sample Tag: 224121-SS-135

TO-15, Method: TO-15, Run Date: 03/02/22 15:55, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.070	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.4	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	Not detected	0.8	0.019	ppbv	1	110-54-3	X
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	Not detected	0.5	0.14	ppbv	1	75-09-2	
2-Butanone (MEK)	3.1	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.130	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	Not detected	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	2.1	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.120	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.030	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.3	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	Not detected	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	21.0	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.3	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.8	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	36.4	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.190	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	0.4	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.4	0.4	0.038	ppbv	1		
o-Xylene	0.140	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.540	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/02/22 15:55, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	61.0	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	1.3	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	2.8	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	14	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.10 (continued)

Sample Tag: 224121-SS-135

TO-15, Method: TO-15, Run Date: 03/02/22 15:55, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	95.7	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	1.2	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	1.6	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	34.1	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.39	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	6.018	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.54	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	1.6	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	Not detected	2.8	0.067	ug/m3	1	110-54-3	X
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	Not detected	1.7	0.49	ug/m3	1	75-09-2	
2-Butanone (MEK)	9.1	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.681~~	1.0	0.052	ug/m3	1	91-20-3	~~JB-U~~
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	Not detected	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	11	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.590	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.15	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	1.4	0.93	0.065	ug/m3	1	540-84-1	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

ALH 3/29/22



Analytical Laboratory Report

Lab Sample ID: S33323.10 (continued)
Sample Tag: 224121-SS-135

TO-15, Method: TO-15, Run Date: 03/02/22 15:55, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	Not detected	3.0	0.12	ug/m3	1	75-65-0	
Tetrachloroethene	142	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	0.88	0.59	0.086	ug/m3	1	109-99-9	
Toluene	3.0	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	196	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.07	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	1.0	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.7	1.7	0.16	ug/m3	1		
o-Xylene	0.608	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	2.34	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33323.11

Sample Tag: 224121-IA-135

Collected Date/Time: 02/24/2022 07:13 - 02/25/2022 06:59

Matrix: Air

COC Reference: A6054

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-8	N/A	02/28/22 17:00	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/02/22 16:26, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	7.3	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.2	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.180	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.080	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.490	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	33.9	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.180	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.270	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.3	0.2	0.032	ppbv	1	622-96-8	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33323.11 (continued)

Sample Tag: 224121-IA-135

TO-15, Method: TO-15, Run Date: 03/02/22 16:26, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.3	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.4	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	1.600	2.0	0.076	ppbv	1	67-63-0	J
Methylene chloride	0.30	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	1.140	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.070	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	0.2	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.030	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.180	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.4	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.120	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.2	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.240	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.110	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	0.4	0.2	0.029	ppbv	1	109-99-9	
Toluene	1.5	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.160	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.6	0.4	0.038	ppbv	1		
o-Xylene	0.3	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	0.9	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/02/22 16:26, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	17	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.64	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.561	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.39	0.98	0.098	ug/m3	1	67-66-3	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.11 (continued)

Sample Tag: 224121-IA-135

TO-15, Method: TO-15, Run Date: 03/02/22 16:26, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	1.01	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	63.9	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.782	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	0.973	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	1.5	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	1.2	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	1.4	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	3.933	4.9	0.19	ug/m3	1	67-63-0	J
Methylene chloride	1.0	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	3.362	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.29	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	0.82	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 - 0.16	1.0	0.052	ug/m3	1	91-20-3	--JB--U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.767	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	2.0	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	0.590	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	0.93	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	0.728	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.746	1.4	0.16	ug/m3	1	127-18-4	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 3/29/22



Analytical Laboratory Report

Lab Sample ID: S33323.11 (continued)
Sample Tag: 224121-IA-135

TO-15, Method: TO-15, Run Date: 03/02/22 16:26, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	1.2	0.59	0.086	ug/m3	1	109-99-9	
Toluene	5.7	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	0.899	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	2.6	1.7	0.16	ug/m3	1		
o-Xylene	1.3	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	3.9	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33323.12

Sample Tag: 224121-SS-136

Collected Date/Time: 02/24/2022 09:07 - 02/25/2022 08:48

Matrix: Air

COC Reference: A6054

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-6	N/A	02/28/22 17:00	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/02/22 16:57, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	101.5	2.0	0.058	ppbv	1	67-64-1	E
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.5	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	3.9	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	33.1	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.7	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.070	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.7	0.024	ppbv	1	110-82-7	X
1,1-Dichloroethane	1.2	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	1.2	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	49.1	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.080	0.2	0.020	ppbv	1	100-41-4	J

E-Concentration exceeds calibration range

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33323.12 (continued)

Sample Tag: 224121-SS-136

TO-15, Method: TO-15, Run Date: 03/02/22 16:57, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Ethyl Acetate*	0.200	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.9	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	2.6	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	9.9	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.21	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	5.8	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.020	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.030	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	0.030	0.5	0.015	ppbv	1	120-82-1	JB
1,2,4-Trimethylbenzene	0.080	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	2.0	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.820	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.2	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.8	0.2	0.029	ppbv	1	109-99-9	
Toluene	2.2	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.2	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	2.9	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.300	0.4	0.038	ppbv	1		J
o-Xylene	0.160	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.460	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/02/22 16:57, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	241.1	4.8	0.14	ug/m3	1	67-64-1	-E---J
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	1.6	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

E-Concentration exceeds calibration range

ALH 3/29/22

Lab Sample ID: S33323.12 (continued)

Sample Tag: 224121-SS-136

TO-15, Method: TO-15, Run Date: 03/02/22 16:57, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon disulfide	12	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	87.3	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	3.4	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.44	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	2.4	0.083	ug/m3	1	110-82-7	X
1,1-Dichloroethane	4.9	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	4.9	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	92.5	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.35	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	0.721	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	3.7	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	9.2	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	24	0.19	ug/m3	1	67-63-0	X
Methylene chloride	0.73	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	17	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.10~~	1.0	0.052	ug/m3	1	91-20-3	-JB--U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.13	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	3.7 ~~0.22~~	3.7	0.11	ug/m3	1	120-82-1	-JB--U

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.12 (continued)
Sample Tag: 224121-SS-136

TO-15, Method: TO-15, Run Date: 03/02/22 16:57, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2,4-Trimethylbenzene	0.39	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	9.3	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	2.49	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	1.4	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	2.4	0.59	0.086	ug/m3	1	109-99-9	
Toluene	8.3	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.1	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	7.4	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.30	1.7	0.16	ug/m3	1		J
o-Xylene	0.695	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	2.00	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33323.13

Sample Tag: 224121-IA-136

Collected Date/Time: 02/24/2022 09:08 - 02/25/2022 08:49

Matrix: Air

COC Reference: A6054

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-4	N/A	02/28/22 17:00	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/02/22 17:27, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	6.8	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.2	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.090	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.100	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.070	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.030	0.2	0.028	ppbv	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	38.5	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.140	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.970	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.040	0.2	0.032	ppbv	1	622-96-8	J

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S33323.13 (continued)

Sample Tag: 224121-IA-136

TO-15, Method: TO-15, Run Date: 03/02/22 17:27, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.3	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.3	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.23	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.560	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.160	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	0.2	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.030	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.050	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.070	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.140	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	0.500	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.4	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.2	0.2	0.029	ppbv	1	109-99-9	
Toluene	1.5	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.2	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.5	0.4	0.038	ppbv	1		
o-Xylene	0.170	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.6	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/02/22 17:27, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	16	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.64	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.28	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.488	0.98	0.098	ug/m3	1	67-66-3	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.13 (continued)

Sample Tag: 224121-IA-136

TO-15, Method: TO-15, Run Date: 03/02/22 17:27, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.44	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	0.12	0.81	0.11	ug/m3	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	72.5	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.608	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	3.50	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.20	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	1.2	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	1.1	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.80	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	1.65	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.655	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	0.82	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 0.16--	1.0	0.052	ug/m3	1	91-20-3	--JB--U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.21	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.34	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	0.654	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	1.52	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	2.7	1.4	0.16	ug/m3	1	127-18-4	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 3/29/22



Analytical Laboratory Report

Lab Sample ID: S33323.13 (continued)
Sample Tag: 224121-IA-136

TO-15, Method: TO-15, Run Date: 03/02/22 17:27, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	0.59	0.59	0.086	ug/m3	1	109-99-9	
Toluene	5.7	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.1	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	2.2	1.7	0.16	ug/m3	1		
o-Xylene	0.738	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	2.6	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33323.14

Sample Tag: 224121-SS-137

Collected Date/Time: 02/24/2022 09:28 - 02/25/2022 09:02

Matrix: Air

COC Reference: A6054

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-2	N/A	02/28/22 17:00	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/02/22 18:41, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	13.6	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.120	0.2	0.019	ppbv	1	71-43-2	J
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.260	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	3.5	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.090	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.050	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	0.100	0.2	0.025	ppbv	1	75-34-3	J
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.090	0.2	0.028	ppbv	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	13.4	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.040	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.410	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.040	0.2	0.032	ppbv	1	622-96-8	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33323.14 (continued)

Sample Tag: 224121-SS-137

TO-15, Method: TO-15, Run Date: 03/02/22 18:41, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.6	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.3	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.4	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.16	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.910	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.020	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	Not detected	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.050	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.2	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.870	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.080	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	0.2	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.3	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.2	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	0.3	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.130	0.4	0.038	ppbv	1		J
o-Xylene	0.050	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.180	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/02/22 18:41, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	32.3	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.383	0.64	0.061	ug/m3	1	71-43-2	J
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.810	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	9.2	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.14 (continued)

Sample Tag: 224121-SS-137

TO-15, Method: TO-15, Run Date: 03/02/22 18:41, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	0.44	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.31	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	0.405	0.81	0.10	ug/m3	1	75-34-3	J
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	0.36	0.81	0.11	ug/m3	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	25.2	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.17	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	1.48	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.20	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	2.5	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	1.1	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	5.9	0.19	ug/m3	1	67-63-0	X
Methylene chloride	0.56	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	2.68	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.10~~	1.0	0.052	ug/m3	1	91-20-3	~~JB~~ U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	Not detected	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.25	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	0.93	0.93	0.065	ug/m3	1	540-84-1	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

ALH 3/29/22



Analytical Laboratory Report

Lab Sample ID: S33323.14 (continued)
Sample Tag: 224121-SS-137

TO-15, Method: TO-15, Run Date: 03/02/22 18:41, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	2.64	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.54	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	0.59	0.59	0.086	ug/m3	1	109-99-9	
Toluene	1.1	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.1	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	0.77	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	0.564	1.7	0.16	ug/m3	1		J
o-Xylene	0.22	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	0.782	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33323.15

Sample Tag: 224121-IA-137

Collected Date/Time: 02/24/2022 09:29 - 02/25/2022 09:03

Matrix: Air

COC Reference: A6054

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-2	N/A	02/28/22 17:00	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/02/22 19:13, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	4.7	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.2	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.080	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.030	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.420	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.020	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	16.8	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.120	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.260	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.15 (continued)

Sample Tag: 224121-IA-137

TO-15, Method: TO-15, Run Date: 03/02/22 19:13, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.6	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.2	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	1.190	2.0	0.076	ppbv	1	67-63-0	J
Methylene chloride	0.23	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.340	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.210	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	0.170	0.2	0.017	ppbv	1	80-62-6	J
Naphthalene	0.020	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.040	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.070	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.140	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	Not detected	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	0.060	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	0.2	0.2	0.029	ppbv	1	109-99-9	
Toluene	1.2	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.2	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.380	0.4	0.038	ppbv	1		J
o-Xylene	0.130	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.510	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/02/22 19:13, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	11	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.64	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.25	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

Lab Sample ID: S33323.15 (continued)

Sample Tag: 224121-IA-137

TO-15, Method: TO-15, Run Date: 03/02/22 19:13, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	0.15	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	0.867	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 ~~0.12~~	1.2	0.11	ug/m3	1	106-46-7	-JB--U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	31.7	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.521	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	0.937	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	2.5	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	0.70	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	2.925	4.9	0.19	ug/m3	1	67-63-0	J
Methylene chloride	0.80	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	1.00	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.860	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	0.696	0.82	0.070	ug/m3	1	80-62-6	J
Naphthalene	1.0 ~~0.10~~	1.0	0.052	ug/m3	1	91-20-3	-JB--U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.17	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.34	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	0.654	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	Not detected	3.0	0.12	ug/m3	1	75-65-0	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.15 (continued)
Sample Tag: 224121-IA-137

TO-15, Method: TO-15, Run Date: 03/02/22 19:13, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrachloroethene	0.41	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	0.59	0.59	0.086	ug/m3	1	109-99-9	
Toluene	4.5	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.1	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.65	1.7	0.16	ug/m3	1		J
o-Xylene	0.564	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	2.21	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33323.16

Sample Tag: 224121-SS-138

Collected Date/Time: 02/24/2022 09:47 - 02/25/2022 09:13

Matrix: Air

COC Reference: A6054

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-2	N/A	02/28/22 17:00	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/02/22 19:43, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	81.6	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.5	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	6.2	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	43.9	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.7	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	0.500	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.050	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.8	0.024	ppbv	1	110-82-7	X
1,1-Dichloroethane	1.4	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	1.2	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	26.9	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.090	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.450	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S33323.16 (continued)

Sample Tag: 224121-SS-138

TO-15, Method: TO-15, Run Date: 03/02/22 19:43, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	1.2	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	3.2	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	4.4	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.30	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	8.9	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.020	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	4.210	10	0.038	ppbv	1	115-07-1	J
Styrene	0.030	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.050	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	3.1	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	1.1	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	0.040	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	2.9	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.7	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.180	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	4.1	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.240	0.4	0.038	ppbv	1		J
o-Xylene	0.120	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.360	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/02/22 19:43, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	194	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	1.6	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	19	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

Lab Sample ID: S33323.16 (continued)

Sample Tag: 224121-SS-138

TO-15, Method: TO-15, Run Date: 03/02/22 19:43, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	116	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	3.4	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	1.03	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.31	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	2.8	0.083	ug/m3	1	110-82-7	X
1,1-Dichloroethane	5.7	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	4.9	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	50.7	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.39	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	1.62	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	4.9	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	11	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	11	0.19	ug/m3	1	67-63-0	X
Methylene chloride	1.0	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	26	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 0.10	1.0	0.052	ug/m3	1	91-20-3	--JB--U
Propylene*	7.246	17	0.065	ug/m3	1	115-07-1	J
Styrene	0.13	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.25	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.16 (continued)
Sample Tag: 224121-SS-138

TO-15, Method: TO-15, Run Date: 03/02/22 19:43, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2,2,4-Trimethylpentane	14	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	3.3	3.0	0.12	ug/m3	1	75-65-0	
Tetrachloroethene	0.27	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	8.6	0.59	0.086	ug/m3	1	109-99-9	
Toluene	2.6	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.01	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	10	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.04	1.7	0.16	ug/m3	1		J
o-Xylene	0.521	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	1.56	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33323.17

Sample Tag: 224121-IA-138

Collected Date/Time: 02/24/2022 09:48 - 02/25/2022 09:14

Matrix: Air

COC Reference: A6054

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-2	N/A	02/28/22 17:00	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/02/22 20:14, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	4.3	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.2	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.080	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.030	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.440	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.070	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	12.3	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.150	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.280	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.040	0.2	0.032	ppbv	1	622-96-8	J

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S33323.17 (continued)

Sample Tag: 224121-IA-138

TO-15, Method: TO-15, Run Date: 03/02/22 20:14, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.4	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.3	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.25	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.340	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.240	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	0.160	0.2	0.017	ppbv	1	80-62-6	J
Naphthalene	0.020	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.030	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.060	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.150	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	Not detected	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	0.070	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	0.100	0.2	0.029	ppbv	1	109-99-9	J
Toluene	1.1	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.2	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.5	0.4	0.038	ppbv	1		
o-Xylene	0.190	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.7	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/02/22 20:14, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	10	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.64	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.25	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.15	0.98	0.098	ug/m3	1	67-66-3	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.17 (continued)

Sample Tag: 224121-IA-138

TO-15, Method: TO-15, Run Date: 03/02/22 20:14, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	0.909	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.44	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	23.2	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.651	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	1.01	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.20	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	1.6	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	1.1	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.87	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	1.00	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.983	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	0.655	0.82	0.070	ug/m3	1	80-62-6	J
Naphthalene	1.0 0.10----	1.0	0.052	ug/m3	1	91-20-3	--JB--U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.13	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.29	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	0.701	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	Not detected	3.0	0.12	ug/m3	1	75-65-0	
Tetrachloroethene	0.47	1.4	0.16	ug/m3	1	127-18-4	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALA 3/29/22



Analytical Laboratory Report

Lab Sample ID: S33323.17 (continued)
Sample Tag: 224121-IA-138

TO-15, Method: TO-15, Run Date: 03/02/22 20:14, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	0.295	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	4.1	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.1	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	2.2	1.7	0.16	ug/m3	1		
o-Xylene	0.825	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	3.0	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33323.18

Sample Tag: 224121-SS-75

Collected Date/Time: 02/24/2022 14:10 - 02/25/2022 13:50

Matrix: Air

COC Reference: A6054

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-4	N/A	02/28/22 17:00	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/02/22 20:44, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	36.4	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.3	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.440	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	8.4	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.6	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.080	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	0.5	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.8	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	25.6	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.060	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	1.480	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33323.18 (continued)

Sample Tag: 224121-SS-75

TO-15, Method: TO-15, Run Date: 03/02/22 20:44, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.9	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	1.0	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	0.320	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	Not detected	2.5	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.25	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	4.6	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	0.5	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.040	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.020	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	0.020	0.5	0.015	ppbv	1	120-82-1	JB
1,2,4-Trimethylbenzene	0.070	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.5	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.420	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	9.7	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	Not detected	0.5	0.029	ppbv	1	109-99-9	X
Toluene	0.6	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	0.190	0.2	0.023	ppbv	1	79-01-6	J
Trichlorofluoromethane	0.3	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	0.6	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	0.500	2.0	0.015	ppbv	1	108-05-4	J
p,m-Xylene	0.220	0.4	0.038	ppbv	1		J
o-Xylene	0.080	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.300	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/02/22 20:44, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	86.5	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.96	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	1.37	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	22	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.18 (continued)

Sample Tag: 224121-SS-75

TO-15, Method: TO-15, Run Date: 03/02/22 20:44, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	2.9	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.50	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	2.0	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	3.2	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	48.2	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.26	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	5.333	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	3.7	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	3.5	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	1.31	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	Not detected	6.1	0.19	ug/m3	1	67-63-0	X
Methylene chloride	0.87	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	14	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	2.0	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.21~~	1.0	0.052	ug/m3	1	91-20-3	--JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.085	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	3.7 ~~0.15~~	3.7	0.11	ug/m3	1	120-82-1	--JB-U
1,2,4-Trimethylbenzene	0.34	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	2.3	0.93	0.065	ug/m3	1	540-84-1	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

ALH 3/29/22



Analytical Laboratory Report

Lab Sample ID: S33323.18 (continued)
Sample Tag: 224121-SS-75

TO-15, Method: TO-15, Run Date: 03/02/22 20:44, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	1.27	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	66	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	Not detected	1.5	0.086	ug/m3	1	109-99-9	X
Toluene	2.3	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	1.02	1.1	0.12	ug/m3	1	79-01-6	J
Trichlorofluoromethane	1.7	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	1.5	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	1.76	7.0	0.053	ug/m3	1	108-05-4	J
p,m-Xylene	0.955	1.7	0.16	ug/m3	1		J
o-Xylene	0.35	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	1.30	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL
X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33323.19

Sample Tag: 224121-IA-75

Collected Date/Time: 02/24/2022 14:11 - 02/25/2022 13:51

Matrix: Air

COC Reference: A6054

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-8	N/A	02/28/22 17:00	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/02/22 21:15, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	5.2	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.3	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.070	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.2	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	0.380	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	21.6	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.2	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	0.350	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.060	0.2	0.032	ppbv	1	622-96-8	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33323.19 (continued)

Sample Tag: 224121-IA-75

TO-15, Method: TO-15, Run Date: 03/02/22 21:15, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.4	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.4	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.33	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.560	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.150	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	0.2	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.030	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.040	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.110	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.030	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.190	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	0.300	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.120	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	0.2	0.2	0.029	ppbv	1	109-99-9	
Toluene	1.6	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.190	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.7	0.4	0.038	ppbv	1		
o-Xylene	0.2	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	0.9	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/02/22 21:15, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	12	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.96	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.22	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.98	0.98	0.098	ug/m3	1	67-66-3	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.19 (continued)

Sample Tag: 224121-IA-75

TO-15, Method: TO-15, Run Date: 03/02/22 21:15, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	0.785	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	40.7	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.87	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	1.26	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.29	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	1.6	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	1.4	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	1.1	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	1.65	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.614	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	0.82	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 -0.16---	1.0	0.052	ug/m3	1	91-20-3	---JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.17	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.541	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.15	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	0.888	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	0.909	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.814	1.4	0.16	ug/m3	1	127-18-4	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.19 (continued)
Sample Tag: 224121-IA-75

TO-15, Method: TO-15, Run Date: 03/02/22 21:15, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	0.59	0.59	0.086	ug/m3	1	109-99-9	
Toluene	6.0	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.07	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	3.0	1.7	0.16	ug/m3	1		
o-Xylene	0.87	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	3.9	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33323.20

Sample Tag: 224121-OA-75

Collected Date/Time: 02/24/2022 14:12 - 02/25/2022 13:52

Matrix: Air

COC Reference: A6054

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-5	N/A	02/28/22 17:00	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/03/22 11:44, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	4.6	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.2	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	Not detected	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.020	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.440	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.070	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.020	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	7.2	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.170	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.350	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.20 (continued)

Sample Tag: 224121-OA-75

TO-15, Method: TO-15, Run Date: 03/03/22 11:44, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.040	0.2	0.032	ppbv	1	622-96-8	J
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.3	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.2	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	1.120	2.0	0.076	ppbv	1	67-63-0	J
Methylene chloride	0.33	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.430	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.140	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	0.2	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.050	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.030	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	0.040	0.5	0.015	ppbv	1	120-82-1	JB
1,2,4-Trimethylbenzene	0.070	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.150	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	0.270	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.080	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	0.150	0.2	0.029	ppbv	1	109-99-9	J
Toluene	1.3	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.180	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.5	0.4	0.038	ppbv	1		
o-Xylene	0.180	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.7	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/03/22 11:44, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	11	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.64	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	Not detected	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

Lab Sample ID: S33323.20 (continued)

Sample Tag: 224121-OA-75

TO-15, Method: TO-15, Run Date: 03/03/22 11:44, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	0.098	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	0.909	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.44	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 ~~0.12~~	1.2	0.11	ug/m3	1	106-46-7	JB---U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	14	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.738	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	1.26	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.20	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	1.2	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	0.70	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	2.753	4.9	0.19	ug/m3	1	67-63-0	J
Methylene chloride	1.1	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	1.27	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.574	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	0.82	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.26~~	1.0	0.052	ug/m3	1	91-20-3	--JB--U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.13	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	3.7 ~~0.30~~	3.7	0.11	ug/m3	1	120-82-1	JB--U
1,2,4-Trimethylbenzene	0.34	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	0.701	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	0.819	3.0	0.12	ug/m3	1	75-65-0	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.20 (continued)
Sample Tag: 224121-OA-75

TO-15, Method: TO-15, Run Date: 03/03/22 11:44, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrachloroethene	0.54	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	0.442	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	4.9	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.01	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	2.2	1.7	0.16	ug/m3	1		
o-Xylene	0.782	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	3.0	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33323.21

Sample Tag: 224121-SS-139

Collected Date/Time: 02/24/2022 16:09 - 02/25/2022 15:39

Matrix: Air

COC Reference: A6081

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-4	N/A	02/28/22 17:00	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/03/22 12:15, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	22.1	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.5	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.8	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	27.7	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.6	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.040	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.3	0.024	ppbv	1	110-82-7	X
1,1-Dichloroethane	1.1	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	1.1	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	0.440	2.5	0.038	ppbv	1	123-91-1	J
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	15.7	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.110	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.270	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33323.21 (continued)

Sample Tag: 224121-SS-139

TO-15, Method: TO-15, Run Date: 03/03/22 12:15, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.090	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	1.2	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	1.7	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	0.220	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.22	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	4.5	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	0.240	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	0.010	0.2	0.010	ppbv	1	1634-04-4	J
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.060	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.020	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	0.030	0.5	0.015	ppbv	1	120-82-1	JB
1,2,4-Trimethylbenzene	0.060	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.030	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	1.0	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.440	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	3.7	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.2	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.9	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.180	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	2.1	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.390	0.4	0.038	ppbv	1		J
o-Xylene	0.2	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	0.6	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/03/22 12:15, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	52.5	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	1.6	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	2.5	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	73.1	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

Lab Sample ID: S33323.21 (continued)

Sample Tag: 224121-SS-139

TO-15, Method: TO-15, Run Date: 03/03/22 12:15, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	2.9	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.25	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	1.0	0.083	ug/m3	1	110-82-7	X
1,1-Dichloroethane	4.5	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	4.5	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	1.59	9.0	0.14	ug/m3	1	123-91-1	J
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	29.6	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.478	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	0.973	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.69	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	4.9	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	6.0	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	0.901	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.76	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	13	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	0.983	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	0.036	0.72	0.036	ug/m3	1	1634-04-4	J
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.31~~	1.0	0.052	ug/m3	1	91-20-3	--JB-- U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.085	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	3.7 ~~0.22~~	3.7	0.11	ug/m3	1	120-82-1	--JB-- U
1,2,4-Trimethylbenzene	0.29	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.15	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	4.7	0.93	0.065	ug/m3	1	540-84-1	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.21 (continued)
Sample Tag: 224121-SS-139

TO-15, Method: TO-15, Run Date: 03/03/22 12:15, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	1.33	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	25	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	0.59	0.59	0.086	ug/m3	1	109-99-9	
Toluene	3.4	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.01	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	5.4	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.69	1.7	0.16	ug/m3	1		J
o-Xylene	0.87	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	2.6	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33323.22

Sample Tag: 224121-IA-139

Collected Date/Time: 02/24/2022 16:10 - 02/25/2022 15:40

Matrix: Air

COC Reference: A6081

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-8	N/A	02/28/22 17:00	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/03/22 12:46, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	10.4	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.4	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.060	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.130	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.500	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.190	0.2	0.028	ppbv	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.5	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	54.7	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	1.5	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	0.770	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.140	0.2	0.032	ppbv	1	622-96-8	J

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S33323.22 (continued)

Sample Tag: 224121-IA-139

TO-15, Method: TO-15, Run Date: 03/03/22 12:46, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.2	0.2	0.024	ppbv	1	76-13-1	
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.3	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	Not detected	1.3	0.019	ppbv	1	110-54-3	X
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.4	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.6	0.5	0.14	ppbv	1	75-09-2	
2-Butanone (MEK)	8.9	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	0.110	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	0.140	0.2	0.017	ppbv	1	80-62-6	J
Naphthalene	0.040	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.090	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	0.2	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.4	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.140	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.140	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	0.100	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.070	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	0.6	0.2	0.029	ppbv	1	109-99-9	
Toluene	4.2	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.2	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	5.4	0.4	0.038	ppbv	1		
o-Xylene	1.7	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	7.1	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/03/22 12:46, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	24.7	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	1.3	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.19	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	

X-Elevated reporting limit due to matrix interference

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33323.22 (continued)

Sample Tag: 224121-IA-139

TO-15, Method: TO-15, Run Date: 03/03/22 12:46, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	0.635	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	1.03	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	0.769	0.81	0.11	ug/m3	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.5	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	103	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	6.5	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	2.77	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.688	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	1.5	1.5	0.18	ug/m3	1	76-13-1	
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	1.2	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	Not detected	4.6	0.067	ug/m3	1	110-54-3	X
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	5.9	0.19	ug/m3	1	67-63-0	X
Methylene chloride	2.1	1.7	0.49	ug/m3	1	75-09-2	
2-Butanone (MEK)	26	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	0.451	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	0.573	0.82	0.070	ug/m3	1	80-62-6	J
Naphthalene	1.0 ~~0.21~~	1.0	0.052	ug/m3	1	91-20-3	~~JB~~ -U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.38	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	1.1	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	2.0	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	0.688	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	0.654	0.93	0.065	ug/m3	1	540-84-1	J

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

ALH 3/29/22



Analytical Laboratory Report

Lab Sample ID: S33323.22 (continued)

Sample Tag: 224121-IA-139

TO-15, Method: TO-15, Run Date: 03/03/22 12:46, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	0.303	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.47	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	1.8	0.59	0.086	ug/m3	1	109-99-9	
Toluene	16	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.1	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	23	1.7	0.16	ug/m3	1		
o-Xylene	7.4	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	31	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL

VALIDATA

Chemical Services, Inc.

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www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY: AECOM Technical Services Northeast, Inc.
PROJECT NAME: Meeker Ave. SVI
CONTRACTED LAB: Merit Laboratories, Inc.
QA/QC LEVEL: DUSR
ANALYTICAL METHOD(S): EPA Method TO-15
VALIDATION GUIDELINES: USEPA Region II data validation SOP (VOA-TO15 HW-31 Rev.6, Analysis of VOCs in Air contained in Canisters by Method TO-15, September 2016), Professional Judgment

SAMPLE MATRIX: Air
TYPES OF ANALYSES: Volatile Organic Compounds (VOC)
DATA REVIEWER(S): Amy L. Hogan
SDG NUMBER: 33371
SAMPLING DATE(S): February 26, 2022

SAMPLES:

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>VOC</u>
224121-SS-141	S33371.01	X
224121-IA-141	S33371.02	X
224121-OA-141*	S33371.03	
224121-SS-142	S33371.04	X
224121-IA-142	S33371.05	X
224121-OA-142*	S33371.06	
224121-SS-143	S33371.07	X
224121-IA-143	S33371.08	X

* - The sample was listed on the COC and received by the laboratory, but was not analyzed due to a flow control malfunction that resulted in insufficient volume for analysis.

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Merit Laboratories, Inc. – 33371

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per EPA Method TO-15.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

Initial Calibration Verification data was not submitted for this SDG. Data qualification based on the absence of Initial Calibration Verification data was not required. No data qualification was necessary.

Continuing Calibration:

All Continuing Calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were detections in the method blank for 3/03/22 for the following compounds:

Propylene	0.25 ppbv
1,3-dichlorobenzene	0.02 ppbv
1,4-dichlorobenzene	0.02 ppbv
1,2,4-trichlorobenzene	0.04 ppbv
Naphthalene	0.05 ppbv

Since the blank results were less than the equal to the RL, the positive results for these compounds in all SDG samples except 224121-IA-141, which were less than the RL, were qualified as undetected (U) with the result being raised to the RL.

There were detections in the method blank for 3/04/22 for the following compounds:

Propylene	0.25 ppbv
Acetone	0.11 ppbv
1,3-dichlorobenzene	0.03 ppbv
1,4-dichlorobenzene	0.02 ppbv
1,2,4-trichlorobenzene	0.04 ppbv
Naphthalene	0.05 ppbv

Since the blank results were less than the equal to the RL, the positive results for these compounds in SDG samples 224121-IA-141, which were less than the RL, were qualified as undetected (U) with the result being raised to the RL.

Canister Blanks:

There were no detects in the canister check blanks for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

Two LCS / LCSD sets were analyzed by the laboratory for this SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Duplicate:

Matrix Duplicate analysis data was not submitted for this SDG. Data qualification based on the absence of MD data was not required. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

The ethanol result for sample 224121-IA-143 exceeded the linear calibration range and was qualified as estimated (J).

All other CRQL criteria were met.

Appendix A

Qualified Form Is



Analytical Laboratory Report

Lab Sample ID: S33371.01

Sample Tag: 224121-SS-141

Collected Date/Time: 02/26/2022 11:40 - 02/27/2022 11:17

Matrix: Air

COC Reference: A5308

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-8	N/A	03/01/22 15:15	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/03/22 19:45, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	34.2	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.5	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	0.050	0.2	0.023	ppbv	1	75-25-2	J
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.8	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	7.6	2.0	0.046	ppbv	1	75-00-3	
Chloroform	7.3	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.040	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	0.6	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.4	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.020	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	26.3	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.110	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	1.640	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33371.01 (continued)

Sample Tag: 224121-SS-141

TO-15, Method: TO-15, Run Date: 03/03/22 19:45, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.120	0.2	0.032	ppbv	1	622-96-8	J
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	Not detected	0.5	0.015	ppbv	1	142-82-5	X
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	2.0	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	0.6	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	9.8	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.20	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	6.3	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.4	0.017	ppbv	1	80-62-6	X
Naphthalene	0.070	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	1.230	10	0.038	ppbv	1	115-07-1	JB
Styrene	Not detected	0.4	0.015	ppbv	1	100-42-5	X
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.080	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.030	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.4	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.890	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.4	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	1.1	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.8	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	0.3	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.340	0.4	0.038	ppbv	1		J
o-Xylene	0.140	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.480	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/03/22 19:45, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	81.2	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	1.6	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	0.52	2.1	0.24	ug/m3	1	75-25-2	J
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	2.5	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33371.01 (continued)

Sample Tag: 224121-SS-141

TO-15, Method: TO-15, Run Date: 03/03/22 19:45, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	20	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	36	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.25	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	2.4	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	1.6	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 ~~0.12~~	1.2	0.11	ug/m3	1	106-46-7	--JB--U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	49.6	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.478	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	5.910	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.590	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	Not detected	2.0	0.061	ug/m3	1	142-82-5	X
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	7.0	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	2.5	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	24	0.19	ug/m3	1	67-63-0	X
Methylene chloride	0.69	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	19	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	1.6	0.070	ug/m3	1	80-62-6	X
Naphthalene	1.0 ~~0.37~~	1.0	0.052	ug/m3	1	91-20-3	--JB--U
Propylene*	17 ~~2.117~~	17	0.065	ug/m3	1	115-07-1	--JB--U
Styrene	Not detected	1.7	0.064	ug/m3	1	100-42-5	X
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.39	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.15	0.98	0.12	ug/m3	1	108-67-8	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference

ALA 3/29/22



Analytical Laboratory Report

Lab Sample ID: S33371.01 (continued)
Sample Tag: 224121-SS-141

TO-15, Method: TO-15, Run Date: 03/03/22 19:45, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2,2,4-Trimethylpentane	1.9	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	2.70	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	2.7	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	4.1	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	4.5	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	0.77	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.48	1.7	0.16	ug/m3	1		J
o-Xylene	0.608	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	2.08	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33371.02

Sample Tag: 224121-IA-141

Collected Date/Time: 02/26/2022 11:43 - 02/27/2022 11:20

Matrix: Air

COC Reference: A5308

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-6	N/A	03/01/22 15:15	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/04/22 12:20, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	4.7	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.180	0.2	0.019	ppbv	1	71-43-2	J
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.050	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.040	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.520	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.070	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.040	0.2	0.028	ppbv	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.040	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	69.2	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.080	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.860	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33371.02 (continued)

Sample Tag: 224121-IA-141

TO-15, Method: TO-15, Run Date: 03/04/22 12:20, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.060	0.2	0.032	ppbv	1	622-96-8	J
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	Not detected	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.120	0.2	0.019	ppbv	1	110-54-3	J
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	2.6	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.20	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.380	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.040	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	Not detected	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	0.020	0.5	0.015	ppbv	1	120-82-1	JB
1,2,4-Trimethylbenzene	0.170	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.060	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.070	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	Not detected	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	0.3	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.5	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.160	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.260	0.4	0.038	ppbv	1		J
o-Xylene	0.110	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.370	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/04/22 12:20, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	11	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.575	0.64	0.061	ug/m3	1	71-43-2	J
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.16	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33371.02 (continued)

Sample Tag: 224121-IA-141

TO-15, Method: TO-15, Run Date: 03/04/22 12:20, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	0.20	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	1.07	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.44	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	0.16	0.81	0.11	ug/m3	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.20 ~~0.24~~	1.2	0.11	ug/m3	1	106-46-7	--JB-U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	130	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.35	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	3.10	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.29	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	Not detected	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	0.423	0.70	0.067	ug/m3	1	110-54-3	J
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	6.4	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.69	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	1.12	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.00 ~~0.21~~	1.0	0.052	ug/m3	1	91-20-3	--JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	Not detected	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	3.7 ~~0.15~~	3.7	0.11	ug/m3	1	120-82-1	--JB-U
1,2,4-Trimethylbenzene	0.836	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.29	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	0.33	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	Not detected	3.0	0.12	ug/m3	1	75-65-0	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 3/29/22



Analytical Laboratory Report

Lab Sample ID: S33371.02 (continued)
Sample Tag: 224121-IA-141

TO-15, Method: TO-15, Run Date: 03/04/22 12:20, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrachloroethene	2.0	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	1.9	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	0.899	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.13	1.7	0.16	ug/m3	1		J
o-Xylene	0.478	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	1.61	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33371.03
Sample Tag: 224121-OA-141
Collected Date/Time: 02/26/2022 11:45 - 02/27/2022 11:18
Matrix: Air
COC Reference: A5308

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-24	N/A	03/01/22 15:15	NDK	



Analytical Laboratory Report

Lab Sample ID: S33371.04
Sample Tag: 224121-SS-142
Collected Date/Time: 02/26/2022 13:20 - 02/27/2022 12:58
Matrix: Air
COC Reference: A5308

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-6	N/A	03/01/22 15:15	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/03/22 20:59, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	19.6	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.3	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.490	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	12.0	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.3	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	0.150	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.040	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	1.0	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.8	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	0.2	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.080	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	14.0	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.050	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	3.7	2.0	0.049	ppbv	1	141-78-6	

J-Estimated value less than reporting limit, but greater than MDL
B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S33371.04 (continued)

Sample Tag: 224121-SS-142

TO-15, Method: TO-15, Run Date: 03/03/22 20:59, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	Not detected	0.7	0.015	ppbv	1	142-82-5	X
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	Not detected	1.4	0.019	ppbv	1	110-54-3	X
2-Hexanone*	0.250	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	Not detected	3.5	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.19	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	6.6	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	0.220	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	0.010	0.2	0.010	ppbv	1	1634-04-4	J
Methyl methacrylate	Not detected	0.4	0.017	ppbv	1	80-62-6	X
Naphthalene	0.040	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	1.320	10	0.038	ppbv	1	115-07-1	JB
Styrene	0.5	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.030	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	1.0	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.310	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.4	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.130	0.2	0.029	ppbv	1	109-99-9	J
Toluene	0.7	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.150	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	0.7	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.150	0.4	0.038	ppbv	1		J
o-Xylene	0.060	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.210	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/03/22 20:59, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	46.6	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.96	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	1.53	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

Lab Sample ID: S33371.04 (continued)

Sample Tag: 224121-SS-142

TO-15, Method: TO-15, Run Date: 03/03/22 20:59, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	31.7	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	1.5	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	0.310	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.25	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	4.0	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	3.2	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	1.2	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2-0.48	1.2	0.11	ug/m3	1	106-46-7	--JB--U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	26.4	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.22	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	13	7.2	0.18	ug/m3	1	141-78-6	
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	Not detected	2.9	0.061	ug/m3	1	142-82-5	X
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	Not detected	4.9	0.067	ug/m3	1	110-54-3	X
2-Hexanone*	1.02	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	Not detected	8.6	0.19	ug/m3	1	67-63-0	X
Methylene chloride	0.66	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	19	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	0.901	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	0.036	0.72	0.036	ug/m3	1	1634-04-4	J
Methyl methacrylate	Not detected	1.6	0.070	ug/m3	1	80-62-6	X
Naphthalene	1.0-0.21	1.0	0.052	ug/m3	1	91-20-3	--JB--U
Propylene*	17-2.272	17	0.065	ug/m3	1	115-07-1	--JB--U
Styrene	2.1	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.15	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33371.04 (continued)
Sample Tag: 224121-SS-142

TO-15, Method: TO-15, Run Date: 03/03/22 20:59, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2,2,4-Trimethylpentane	4.7	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	0.940	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	2.7	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	0.383	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	2.6	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	0.843	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	1.8	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	0.651	1.7	0.16	ug/m3	1		J
o-Xylene	0.26	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	0.912	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33371.05

Sample Tag: 224121-IA-142

Collected Date/Time: 02/26/2022 13:22 - 02/27/2022 12:59

Matrix: Air

COC Reference: A5308

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-4	N/A	03/01/22 15:15	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/03/22 21:29, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	4.7	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.150	0.2	0.019	ppbv	1	71-43-2	J
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.050	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.030	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.430	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.070	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	36.4	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.160	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.150	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.040	0.2	0.032	ppbv	1	622-96-8	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33371.05 (continued)

Sample Tag: 224121-IA-142

TO-15, Method: TO-15, Run Date: 03/03/22 21:29, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	Not detected	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.2	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	1.6	0.5	0.14	ppbv	1	75-09-2	
2-Butanone (MEK)	0.640	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.020	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	2.190	10	0.038	ppbv	1	115-07-1	JB
Styrene	0.020	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.060	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.050	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	Not detected	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	Not detected	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.130	0.2	0.029	ppbv	1	109-99-9	J
Toluene	0.4	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	0.040	0.2	0.023	ppbv	1	79-01-6	J
Trichlorofluoromethane	0.170	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.5	0.4	0.038	ppbv	1		
o-Xylene	0.140	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.6	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/03/22 21:29, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	11	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.479	0.64	0.061	ug/m3	1	71-43-2	J
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.16	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.15	0.98	0.098	ug/m3	1	67-66-3	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

Lab Sample ID: S33371.05 (continued)

Sample Tag: 224121-IA-142

TO-15, Method: TO-15, Run Date: 03/03/22 21:29, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	0.888	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.44	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	68.6	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.695	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	0.541	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.20	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	Not detected	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	0.70	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	5.6	1.7	0.49	ug/m3	1	75-09-2	
2-Butanone (MEK)	1.89	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.01	1.0	0.052	ug/m3	1	91-20-3	---JB-U
Propylene*	173.769	17	0.065	ug/m3	1	115-07-1	---JB-U
Styrene	0.085	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.29	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	0.23	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	Not detected	3.0	0.12	ug/m3	1	75-65-0	
Tetrachloroethene	Not detected	1.4	0.16	ug/m3	1	127-18-4	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33371.05 (continued)
Sample Tag: 224121-IA-142

TO-15, Method: TO-15, Run Date: 03/03/22 21:29, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	0.383	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	1.5	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	0.21	1.1	0.12	ug/m3	1	79-01-6	J
Trichlorofluoromethane	0.955	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	2.2	1.7	0.16	ug/m3	1		
o-Xylene	0.608	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	2.6	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33371.06
Sample Tag: 224121-OA-142
Collected Date/Time: 02/26/2022 13:24 - 02/27/2022 13:01
Matrix: Air
COC Reference: A5308

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-30	N/A	03/01/22 15:15	NDK	



Analytical Laboratory Report

Lab Sample ID: S33371.07

Sample Tag: 224121-SS-143

Collected Date/Time: 02/26/2022 14:28 - 02/27/2022 14:00

Matrix: Air

COC Reference: A5308

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-8	N/A	03/01/22 15:15	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/03/22 22:00, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	65.8	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.7	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.370	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	38.9	2.0	0.046	ppbv	1	75-00-3	
Chloroform	3.9	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	0.880	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.050	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	1.0	0.024	ppbv	1	110-82-7	X
1,1-Dichloroethane	2.8	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	1.2	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	15.1	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.140	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.830	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S33371.07 (continued)

Sample Tag: 224121-SS-143

TO-15, Method: TO-15, Run Date: 03/03/22 22:00, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	1.3	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	4.6	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.4	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.34	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	8.9	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.4	0.017	ppbv	1	80-62-6	X
Naphthalene	0.030	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.180	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.040	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	2.7	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.640	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.090	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	1.4	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.7	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.120	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	2.1	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.330	0.4	0.038	ppbv	1		J
o-Xylene	0.130	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.460	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/03/22 22:00, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	156	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	2.2	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	1.15	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33371.07 (continued)

Sample Tag: 224121-SS-143

TO-15, Method: TO-15, Run Date: 03/03/22 22:00, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	103	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	19	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	1.82	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.31	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	3.4	0.083	ug/m3	1	110-82-7	X
1,1-Dichloroethane	11	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	4.9	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	28.5	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.608	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	2.99	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	5.3	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	16	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	5.9	0.19	ug/m3	1	67-63-0	X
Methylene chloride	1.2	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	26	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	1.6	0.070	ug/m3	1	80-62-6	X
Naphthalene	1.0 -0.16--	1.0	0.052	ug/m3	1	91-20-3	JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.767	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.20	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

ALH 3/29/22



Analytical Laboratory Report

Lab Sample ID: S33371.07 (continued)
Sample Tag: 224121-SS-143

TO-15, Method: TO-15, Run Date: 03/03/22 22:00, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2,2,4-Trimethylpentane	13	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	1.94	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.61	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	4.1	0.59	0.086	ug/m3	1	109-99-9	
Toluene	2.6	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	0.674	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	5.4	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.43	1.7	0.16	ug/m3	1		J
o-Xylene	0.564	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	2.00	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33371.08

Sample Tag: 224121-IA-143

Collected Date/Time: 02/26/2022 14:30 - 02/27/2022 14:01

Matrix: Air

COC Reference: A5308

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-8	N/A	03/01/22 15:15	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/03/22 22:30, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	7.7	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.2	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.110	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.3	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	0.090	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.080	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	294.6	2.5	0.068	ppbv	1	64-17-5	E
Ethylbenzene	0.050	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.770	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

E-Concentration exceeds calibration range

Analytical Laboratory Report

Lab Sample ID: S33371.08 (continued)

Sample Tag: 224121-IA-143

TO-15, Method: TO-15, Run Date: 03/03/22 22:30, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	Not detected	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	Not detected	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.6	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.21	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.260	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.040	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.050	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.040	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.040	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	Not detected	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	0.120	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.190	0.2	0.013	ppbv	1	108-88-3	J
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.170	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.150	0.4	0.038	ppbv	1		J
o-Xylene	0.060	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.210	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/03/22 22:30, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	18	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.64	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.343	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

Lab Sample ID: S33371.08 (continued)

Sample Tag: 224121-IA-143

TO-15, Method: TO-15, Run Date: 03/03/22 22:30, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	1.5	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	0.19	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.50	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	555.1	4.7	0.13	ug/m3	1	64-17-5	---E--J
Ethylbenzene	0.22	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	2.77	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	Not detected	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	Not detected	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	6.4	0.19	ug/m3	1	67-63-0	X
Methylene chloride	0.73	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	0.767	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.21~~	1.0	0.052	ug/m3	1	91-20-3	---JB--U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.21	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.20	0.98	0.14	ug/m3	1	95-63-6	J

J-Estimated value less than reporting limit, but greater than MDL

E-Concentration exceeds calibration range

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33371.08 (continued)
Sample Tag: 224121-IA-143

TO-15, Method: TO-15, Run Date: 03/03/22 22:30, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	0.19	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	Not detected	3.0	0.12	ug/m3	1	75-65-0	
Tetrachloroethene	0.814	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	0.716	0.75	0.049	ug/m3	1	108-88-3	J
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	0.955	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	0.651	1.7	0.16	ug/m3	1		J
o-Xylene	0.26	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	0.912	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL

VALIDATA

Chemical Services, Inc.

2159 Wynnton Pointe, Duluth, GA 30097

(770) 232-0130

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www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY: AECOM Technical Services Northeast, Inc.
PROJECT NAME: Meeker Ave. SVI
CONTRACTED LAB: Merit Laboratories, Inc.
QA/QC LEVEL: DUSR
ANALYTICAL METHOD(S): EPA Method TO-15
VALIDATION GUIDELINES: USEPA Region II data validation SOP (VOA-TO15 HW-31 Rev.6, Analysis of VOCs in Air contained in Canisters by Method TO-15, September 2016), Professional Judgment

SAMPLE MATRIX: Air
TYPES OF ANALYSES: Volatile Organic Compounds (VOC)
DATA REVIEWER(S): Amy L. Hogan
SDG NUMBER: 33533
SAMPLING DATE(S): February 28 – March 2, 2022

SAMPLES:

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>VOC</u>
224121-SS-144	S33533.01	X
224121-IA-144	S33533.02	X
224121-OA-144	S33533.03	X
224121-SS-73	S33533.04	X
224121-IA-73	S33533.05	X
224121-OA-73	S33533.06	X
224121-SS-145	S33533.07	X
224121-IA-145	S33533.08	X
224121-OA-145	S33533.09	X
224121-SS-146	S33533.10	X
224121-IA-146	S33533.11	X
224121-SS-56	S33533.12	X
224121-IA-56	S33533.13	X
224121-SS-42-09	S33533.14	X
224121-IA-42-09	S33533.15	X
224121-OA-42-09	S33533.16	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Merit Laboratories, Inc. – 33533

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per EPA Method TO-15.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

Initial Calibration Verification data was not submitted for this SDG. Data qualification based on the absence of Initial Calibration Verification data was not required. No data qualification was necessary.

Continuing Calibration:

All Continuing Calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were detections in the method blank for 3/07/22 for the following compounds:

Propylene	0.27 ppbv
Acetone	0.11 ppbv
1,3-dichlorobenzene	0.03 ppbv
1,2,4-trichlorobenzene	0.04 ppbv
Naphthalene	0.05 ppbv

Since the blank results were less than the equal to the RL, the positive results for these compounds in all SDG samples, which were less than the RL, were qualified as undetected (U) with the result being raised to the RL.

Canister Blanks:

There were no detects in the canister check blanks for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS / LCSD set was analyzed by the laboratory for this SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Duplicate:

Matrix Duplicate analysis data was not submitted for this SDG. Data qualification based on the absence of MD data was not required. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

The ethanol results for samples 224121-IA-146 and 224121-IA-42-09 exceeded the linear calibration range and were qualified as estimated (J).

All other CRQL criteria were met.

Appendix A

Qualified Form Is



Analytical Laboratory Report

Lab Sample ID: S33533.01

Sample Tag: 224121-SS-144

Collected Date/Time: 02/28/2022 09:09 - 03/01/2022 08:55

Matrix: Air

COC Reference: A5306

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-8	N/A	03/04/22 13:05	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/07/22 14:13, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	5.9	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.050	0.2	0.019	ppbv	1	71-43-2	J
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.240	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	1.220	2.0	0.046	ppbv	1	75-00-3	J
Chloroform	0.3	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.050	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.080	0.2	0.028	ppbv	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	4.9	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.020	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.160	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33533.01 (continued)

Sample Tag: 224121-SS-144

TO-15, Method: TO-15, Run Date: 03/07/22 14:13, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.3	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.3	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	0.090	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	Not detected	0.5	0.14	ppbv	1	75-09-2	
2-Butanone (MEK)	0.660	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.050	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.030	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	0.030	0.5	0.015	ppbv	1	120-82-1	JB
1,2,4-Trimethylbenzene	0.040	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.030	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.130	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	Not detected	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	0.160	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.110	0.2	0.013	ppbv	1	108-88-3	J
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.170	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.090	0.4	0.038	ppbv	1		J
o-Xylene	0.040	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.130	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/07/22 14:13, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	14	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.16	0.64	0.061	ug/m3	1	71-43-2	J
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.747	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	3.219	5.3	0.12	ug/m3	1	75-00-3	J
Chloroform	1.5	0.98	0.098	ug/m3	1	67-66-3	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33533.01 (continued)

Sample Tag: 224121-SS-144

TO-15, Method: TO-15, Run Date: 03/07/22 14:13, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.31	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	0.32	0.81	0.11	ug/m3	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	9.2	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.087	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	0.577	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	1.2	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	1.1	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	0.37	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	Not detected	1.7	0.49	ug/m3	1	75-09-2	
2-Butanone (MEK)	1.95	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 -0.26-	1.0	0.052	ug/m3	1	91-20-3	-JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.13	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	3.7 -0.22	3.7	0.11	ug/m3	1	120-82-1	-JB-U
1,2,4-Trimethylbenzene	0.20	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.15	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	0.607	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	Not detected	3.0	0.12	ug/m3	1	75-65-0	
Tetrachloroethene	1.09	1.4	0.16	ug/m3	1	127-18-4	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 3/29/22



Analytical Laboratory Report

Lab Sample ID: S33533.01 (continued)
Sample Tag: 224121-SS-144

TO-15, Method: TO-15, Run Date: 03/07/22 14:13, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	0.415	0.75	0.049	ug/m3	1	108-88-3	J
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	0.955	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	0.39	1.7	0.16	ug/m3	1		J
o-Xylene	0.17	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	0.564	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33533.02

Sample Tag: 224121- IA-144

Collected Date/Time: 02/28/2022 09:10 - 03/01/2022 08:56

Matrix: Air

COC Reference: A5306

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-10	N/A	03/04/22 13:05	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/07/22 14:43, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	3.8	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.2	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.080	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.040	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.440	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.060	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.020	0.2	0.019	ppbv	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	21.3	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.110	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.630	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33533.02 (continued)

Sample Tag: 224121- IA-144

TO-15, Method: TO-15, Run Date: 03/07/22 14:43, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	Not detected	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.180	0.2	0.019	ppbv	1	110-54-3	J
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.35	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.400	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.100	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	0.120	0.2	0.017	ppbv	1	80-62-6	J
Naphthalene	0.020	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.030	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.060	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.120	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	0.070	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.040	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	0.110	0.2	0.029	ppbv	1	109-99-9	J
Toluene	1.0	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.180	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.310	0.4	0.038	ppbv	1		J
o-Xylene	0.120	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.430	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/07/22 14:43, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	9.0	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.64	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.25	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.20	0.98	0.098	ug/m3	1	67-66-3	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33533.02 (continued)

Sample Tag: 224121- IA-144

TO-15, Method: TO-15, Run Date: 03/07/22 14:43, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	0.909	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.21	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	0.12	1.2	0.11	ug/m3	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	40.1	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.478	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	2.27	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	Not detected	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	0.634	0.70	0.067	ug/m3	1	110-54-3	J
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	1.2	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	1.18	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.410	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	0.491	0.82	0.070	ug/m3	1	80-62-6	J
Naphthalene	1.0-0.10	1.0	0.052	ug/m3	1	91-20-3	--JB--U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.13	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.29	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	0.561	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	0.21	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.27	1.4	0.16	ug/m3	1	127-18-4	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 3/29/22



Analytical Laboratory Report

Lab Sample ID: S33533.02 (continued)

Sample Tag: 224121- IA-144

TO-15, Method: TO-15, Run Date: 03/07/22 14:43, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	0.324	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	3.8	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.01	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.35	1.7	0.16	ug/m3	1		J
o-Xylene	0.521	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	1.87	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33533.03

Sample Tag: 224121-OA-144

Collected Date/Time: 02/28/2022 09:13 - 03/01/2022 08:58

Matrix: Air

COC Reference: A5306

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-3	N/A	03/04/22 13:05	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/07/22 15:14, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	4.2	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.2	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.040	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.020	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.420	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.070	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	6.2	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.080	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.130	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33533.03 (continued)

Sample Tag: 224121-OA-144

TO-15, Method: TO-15, Run Date: 03/07/22 15:14, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	Not detected	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.160	0.2	0.019	ppbv	1	110-54-3	J
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.6	0.5	0.14	ppbv	1	75-09-2	
2-Butanone (MEK)	0.330	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.040	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	0.120	0.2	0.017	ppbv	1	80-62-6	J
Naphthalene	0.020	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	Not detected	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.040	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.120	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	Not detected	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	0.030	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.8	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.180	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.240	0.4	0.038	ppbv	1		J
o-Xylene	0.080	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.320	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/07/22 15:14, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	10.0	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.64	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.12	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.098	0.98	0.098	ug/m3	1	67-66-3	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33533.03 (continued)

Sample Tag: 224121-OA-144

TO-15, Method: TO-15, Run Date: 03/07/22 15:14, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	0.867	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.44	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	12	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.35	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	0.468	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	Not detected	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	0.564	0.70	0.067	ug/m3	1	110-54-3	J
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	2.1	1.7	0.49	ug/m3	1	75-09-2	
2-Butanone (MEK)	0.973	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.16	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	0.491	0.82	0.070	ug/m3	1	80-62-6	J
Naphthalene	1.0-0.10-	1.0	0.052	ug/m3	1	91-20-3	--JB--U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	Not detected	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.20	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	0.561	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	Not detected	3.0	0.12	ug/m3	1	75-65-0	
Tetrachloroethene	0.20	1.4	0.16	ug/m3	1	127-18-4	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 3/29/22



Analytical Laboratory Report

Lab Sample ID: S33533.03 (continued)
Sample Tag: 224121-OA-144

TO-15, Method: TO-15, Run Date: 03/07/22 15:14, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	3.0	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.01	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.04	1.7	0.16	ug/m3	1		J
o-Xylene	0.35	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	1.39	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33533.04

Sample Tag: 224121-SS-73

Collected Date/Time: 02/28/2022 11:08 - 03/01/2022 10:50

Matrix: Air

COC Reference: A5306

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-10	N/A	03/04/22 13:05	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/07/22 15:44, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	52.3	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	3.7	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	2.2	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	16.3	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.4	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	0.490	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.7	0.024	ppbv	1	110-82-7	X
1,1-Dichloroethane	1.3	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.6	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.030	0.2	0.019	ppbv	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	7.2	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.3	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	0.170	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33533.04 (continued)

Sample Tag: 224121-SS-73

TO-15, Method: TO-15, Run Date: 03/07/22 15:44, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.3	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	1.2	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	2.6	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	0.320	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.28	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	5.5	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.130	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	20	10	0.038	ppbv	1	115-07-1	
Styrene	0.4	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	0.020	0.5	0.015	ppbv	1	120-82-1	JB
1,2,4-Trimethylbenzene	1.0	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.4	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	1.4	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.130	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.180	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	0.8	0.2	0.029	ppbv	1	109-99-9	
Toluene	3.6	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.160	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	0.9	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.7	0.4	0.038	ppbv	1		
o-Xylene	0.3	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	1.0	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/07/22 15:44, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	124	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	12	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	6.9	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	43.0	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33533.04 (continued)

Sample Tag: 224121-SS-73

TO-15, Method: TO-15, Run Date: 03/07/22 15:44, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	2.0	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	1.01	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	2.4	0.083	ug/m3	1	110-82-7	X
1,1-Dichloroethane	5.3	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	2.4	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	0.18	1.2	0.11	ug/m3	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	14	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	1.3	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	0.613	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	1.5	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	4.9	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	9.2	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	1.31	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.97	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	16	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	~~1.0-6.21~~	1.0	0.052	ug/m3	1	91-20-3	~~JB~~ U
Propylene*	34	17	0.065	ug/m3	1	115-07-1	
Styrene	1.7	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	~~3.7-9.15~~	3.7	0.11	ug/m3	1	120-82-1	~~JB~~ U
1,2,4-Trimethylbenzene	4.9	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	2.0	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	6.5	0.93	0.065	ug/m3	1	540-84-1	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

ALH 3/29/22



Analytical Laboratory Report

Lab Sample ID: S33533.04 (continued)
Sample Tag: 224121-SS-73

TO-15, Method: TO-15, Run Date: 03/07/22 15:44, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	0.394	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	1.22	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	2.4	0.59	0.086	ug/m3	1	109-99-9	
Toluene	14	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	0.899	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	2.3	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	3.0	1.7	0.16	ug/m3	1		
o-Xylene	1.3	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	4.3	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33533.05

Sample Tag: 224121-IA-73

Collected Date/Time: 02/28/2022 11:09 - 03/01/2022 10:51

Matrix: Air

COC Reference: A5306

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-8	N/A	03/04/22 13:05	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/07/22 16:15, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	4.0	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.180	0.2	0.019	ppbv	1	71-43-2	J
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.060	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.050	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.420	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.070	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.050	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	15.6	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.2	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	0.100	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.130	0.2	0.032	ppbv	1	622-96-8	J

J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S33533.05 (continued)

Sample Tag: 224121-IA-73

TO-15, Method: TO-15, Run Date: 03/07/22 16:15, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	Not detected	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.150	0.2	0.019	ppbv	1	110-54-3	J
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	4.9	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.27	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.440	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.030	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.060	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.4	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.100	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.090	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	Not detected	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	0.120	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	1.2	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.170	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.9	0.4	0.038	ppbv	1		
o-Xylene	0.3	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	1.2	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/07/22 16:15, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	9.5	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.575	0.64	0.061	ug/m3	1	71-43-2	J
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.19	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33533.05 (continued)

Sample Tag: 224121-IA-73

TO-15, Method: TO-15, Run Date: 03/07/22 16:15, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	0.24	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	0.867	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.44	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.17	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	29.4	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.87	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	0.360	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.639	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	Not detected	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	0.529	0.70	0.067	ug/m3	1	110-54-3	J
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	12	0.19	ug/m3	1	67-63-0	X
Methylene chloride	0.94	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	1.30	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 -0.16-	1.0	0.052	ug/m3	1	91-20-3	--JB--U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.26	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	2.0	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	0.492	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	0.42	0.93	0.065	ug/m3	1	540-84-1	J

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

ALH 3/29/22



Analytical Laboratory Report

Lab Sample ID: S33533.05 (continued)

Sample Tag: 224121-IA-73

TO-15, Method: TO-15, Run Date: 03/07/22 16:15, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	Not detected	3.0	0.12	ug/m3	1	75-65-0	
Tetrachloroethene	0.814	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	4.5	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	0.955	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	3.9	1.7	0.16	ug/m3	1		
o-Xylene	1.3	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	5.2	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33533.06

Sample Tag: 224121-OA-73

Collected Date/Time: 02/28/2022 11:11 - 03/01/2022 10:54

Matrix: Air

COC Reference: A5306

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-8	N/A	03/04/22 13:05	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/07/22 16:45, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	2.5	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.190	0.2	0.019	ppbv	1	71-43-2	J
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.070	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.020	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.420	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.040	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	5.8	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.090	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.210	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33533.06 (continued)

Sample Tag: 224121-OA-73

TO-15, Method: TO-15, Run Date: 03/07/22 16:45, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	Not detected	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.120	0.2	0.019	ppbv	1	110-54-3	J
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.22	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.220	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	0.060	0.2	0.017	ppbv	1	80-62-6	J
Naphthalene	0.010	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.020	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.040	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.080	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	Not detected	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	0.040	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.6	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.170	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.280	0.4	0.038	ppbv	1		J
o-Xylene	0.090	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.370	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/07/22 16:45, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	5.9	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.607	0.64	0.061	ug/m3	1	71-43-2	J
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.22	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.098	0.98	0.098	ug/m3	1	67-66-3	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33533.06 (continued)

Sample Tag: 224121-OA-73

TO-15, Method: TO-15, Run Date: 03/07/22 16:45, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	0.867	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.14	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	11	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.39	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	0.757	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	Not detected	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	0.423	0.70	0.067	ug/m3	1	110-54-3	J
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.76	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	0.649	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	0.25	0.82	0.070	ug/m3	1	80-62-6	J
Naphthalene	1.06-0.052-	1.0	0.052	ug/m3	1	91-20-3	JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.085	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.20	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	0.37	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	Not detected	3.0	0.12	ug/m3	1	75-65-0	
Tetrachloroethene	0.27	1.4	0.16	ug/m3	1	127-18-4	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 3/29/22



Analytical Laboratory Report

Lab Sample ID: S33533.06 (continued)
Sample Tag: 224121-OA-73

TO-15, Method: TO-15, Run Date: 03/07/22 16:45, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	2.3	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	0.955	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.22	1.7	0.16	ug/m3	1		J
o-Xylene	0.39	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	1.61	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33533.07

Sample Tag: 224121-SS-145

Collected Date/Time: 02/28/2022 13:07 - 03/01/2022 13:04

Matrix: Air

COC Reference: A5306

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-16	N/A	03/04/22 13:05	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/07/22 17:17, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	5.8	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.170	0.2	0.019	ppbv	1	71-43-2	J
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.200	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	2.1	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.170	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	0.4	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.3	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	6.4	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.080	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.770	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S33533.07 (continued)

Sample Tag: 224121-SS-145

TO-15, Method: TO-15, Run Date: 03/07/22 17:17, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	4.8	0.2	0.024	ppbv	1	76-13-1	
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	Not detected	0.3	0.015	ppbv	1	142-82-5	X
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	Not detected	0.4	0.019	ppbv	1	110-54-3	X
2-Hexanone*	0.160	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.20	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	1.460	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.030	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.060	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	0.070	0.2	0.017	ppbv	1	71-55-6	J
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	0.030	0.5	0.015	ppbv	1	120-82-1	JB
1,2,4-Trimethylbenzene	0.100	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.030	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.3	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.200	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.3	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.5	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.180	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.280	0.4	0.038	ppbv	1		J
o-Xylene	0.110	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.390	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/07/22 17:17, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	14	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.543	0.64	0.061	ug/m3	1	71-43-2	J
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.623	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	5.5	5.3	0.12	ug/m3	1	75-00-3	

X-Elevated reporting limit due to matrix interference

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33533.07 (continued)

Sample Tag: 224121-SS-145

TO-15, Method: TO-15, Run Date: 03/07/22 17:17, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	0.830	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	1.6	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	1.2	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	12	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.35	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	2.77	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	37	1.5	0.18	ug/m3	1	76-13-1	
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	Not detected	1.2	0.061	ug/m3	1	142-82-5	X
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	Not detected	1.4	0.067	ug/m3	1	110-54-3	X
2-Hexanone*	0.655	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.69	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	4.306	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0-1.6	1.0	0.052	ug/m3	1	91-20-3	JB--U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.26	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	0.38	1.1	0.093	ug/m3	1	71-55-6	J
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	3.7-0.22	3.7	0.11	ug/m3	1	120-82-1	JB--U
1,2,4-Trimethylbenzene	0.492	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.15	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	1.4	0.93	0.065	ug/m3	1	540-84-1	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

ALH 3/29/22



Analytical Laboratory Report

Lab Sample ID: S33533.07 (continued)
Sample Tag: 224121-SS-145

TO-15, Method: TO-15, Run Date: 03/07/22 17:17, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	0.606	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	2.0	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	1.9	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.01	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.22	1.7	0.16	ug/m3	1		J
o-Xylene	0.478	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	1.69	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33533.08

Sample Tag: 224121-IA-145

Collected Date/Time: 02/28/2022 13:09 - 03/01/2022 13:04

Matrix: Air

COC Reference: A5306

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	0	N/A	03/04/22 13:05	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/07/22 17:47, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	5.9	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.3	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.110	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.060	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.550	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.090	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.020	0.2	0.019	ppbv	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	28.1	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.100	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.290	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	Not detected	0.3	0.032	ppbv	1	622-96-8	X

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33533.08 (continued)

Sample Tag: 224121-IA-145

TO-15, Method: TO-15, Run Date: 03/07/22 17:47, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.070	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	Not detected	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.190	0.2	0.019	ppbv	1	110-54-3	J
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	4.1	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.21	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.430	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.030	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.030	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.6	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.160	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.2	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.180	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.090	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.5	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	0.050	0.2	0.023	ppbv	1	79-01-6	J
Trichlorofluoromethane	0.190	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.350	0.4	0.038	ppbv	1		J
o-Xylene	0.120	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.470	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/07/22 17:47, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	14	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.96	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.343	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

Lab Sample ID: S33533.08 (continued)

Sample Tag: 224121-IA-145

TO-15, Method: TO-15, Run Date: 03/07/22 17:47, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	0.29	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	1.14	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.31	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	0.12	1.2	0.11	ug/m3	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	52.9	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.434	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	1.05	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	1.5	0.16	ug/m3	1	622-96-8	X
Freon 113	0.54	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	Not detected	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	0.670	0.70	0.067	ug/m3	1	110-54-3	J
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	10	0.19	ug/m3	1	67-63-0	X
Methylene chloride	0.73	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	1.27	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.16~~	1.0	0.052	ug/m3	1	91-20-3	~~JB~~ -U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.13	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	2.9	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	0.787	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	0.93	0.93	0.065	ug/m3	1	540-84-1	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33533.08 (continued)
Sample Tag: 224121-IA-145

TO-15, Method: TO-15, Run Date: 03/07/22 17:47, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	0.546	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.61	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	1.9	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	0.27	1.1	0.12	ug/m3	1	79-01-6	J
Trichlorofluoromethane	1.07	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.52	1.7	0.16	ug/m3	1		J
o-Xylene	0.521	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	2.04	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33533.09

Sample Tag: 224121-OA-145

Collected Date/Time: 02/28/2022 13:11 - 03/01/2022 13:05

Matrix: Air

COC Reference: A5306

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-2	N/A	03/04/22 13:05	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/07/22 18:18, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	3.1	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.2	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.070	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.020	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.690	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.070	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	5.8	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.060	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.080	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S33533.09 (continued)

Sample Tag: 224121-OA-145

TO-15, Method: TO-15, Run Date: 03/07/22 18:18, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	Not detected	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.120	0.2	0.019	ppbv	1	110-54-3	J
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.20	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.230	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.010	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	Not detected	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.040	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.2	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	Not detected	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	0.090	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.5	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.170	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.170	0.4	0.038	ppbv	1		J
o-Xylene	0.070	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.240	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/07/22 18:18, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	7.4	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.64	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.22	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.098	0.98	0.098	ug/m3	1	67-66-3	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33533.09 (continued)

Sample Tag: 224121-OA-145

TO-15, Method: TO-15, Run Date: 03/07/22 18:18, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	1.42	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.24	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	11	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.26	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	0.29	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	Not detected	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	0.423	0.70	0.067	ug/m3	1	110-54-3	J
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.69	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	0.678	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 0.052	1.0	0.052	ug/m3	1	91-20-3	-JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	Not detected	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.20	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	0.93	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	Not detected	3.0	0.12	ug/m3	1	75-65-0	
Tetrachloroethene	0.61	1.4	0.16	ug/m3	1	127-18-4	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 3/29/22



Analytical Laboratory Report

Lab Sample ID: S33533.09 (continued)
Sample Tag: 224121-OA-145

TO-15, Method: TO-15, Run Date: 03/07/22 18:18, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	1.9	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	0.955	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	0.738	1.7	0.16	ug/m3	1		J
o-Xylene	0.30	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	1.04	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33533.10

Sample Tag: 224121-SS-146

Collected Date/Time: 02/28/2022 15:33 - 03/01/2022 15:18

Matrix: Air

COC Reference: A5306

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-10	N/A	03/04/22 13:05	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/07/22 18:48, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	37.0	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.3	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.9	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	6.5	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.3	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.4	0.024	ppbv	1	110-82-7	X
1,1-Dichloroethane	0.7	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.5	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.030	0.2	0.019	ppbv	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	13.7	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.070	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.460	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33533.10 (continued)

Sample Tag: 224121-SS-146

TO-15, Method: TO-15, Run Date: 03/07/22 18:48, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	Not detected	0.9	0.015	ppbv	1	142-82-5	X
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	1.2	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	0.120	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	Not detected	7.0	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.20	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	3.3	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.3	0.017	ppbv	1	80-62-6	X
Naphthalene	0.030	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.040	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.050	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	1.0	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.680	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.5	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.6	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	0.160	0.2	0.023	ppbv	1	79-01-6	J
Trichlorofluoromethane	0.170	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	0.3	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.190	0.4	0.038	ppbv	1		J
o-Xylene	0.080	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.270	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/07/22 18:48, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	87.9	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.96	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	2.8	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33533.10 (continued)

Sample Tag: 224121-SS-146

TO-15, Method: TO-15, Run Date: 03/07/22 18:48, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	17	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	1.5	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	1.4	0.083	ug/m3	1	110-82-7	X
1,1-Dichloroethane	2.8	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	2.0	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	0.18	1.2	0.11	ug/m3	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	25.8	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.30	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	1.66	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	Not detected	3.7	0.061	ug/m3	1	142-82-5	X
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	4.2	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	0.492	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	Not detected	17	0.19	ug/m3	1	67-63-0	X
Methylene chloride	0.69	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	9.7	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	1.2	0.070	ug/m3	1	80-62-6	X
Naphthalene	1.0 0.16--	1.0	0.052	ug/m3	1	91-20-3	JB--U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.17	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.25	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

ALH 3/29/22



Analytical Laboratory Report

Lab Sample ID: S33533.10 (continued)
Sample Tag: 224121-SS-146

TO-15, Method: TO-15, Run Date: 03/07/22 18:48, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2,2,4-Trimethylpentane	4.7	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	2.06	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	3.4	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	2.3	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	0.860	1.1	0.12	ug/m3	1	79-01-6	J
Trichlorofluoromethane	0.955	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	0.77	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	0.825	1.7	0.16	ug/m3	1		J
o-Xylene	0.35	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	1.17	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33533.11

Sample Tag: 224121-IA-146

Collected Date/Time: 02/28/2022 15:36 - 03/01/2022 15:11

Matrix: Air

COC Reference: A5307

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-4	N/A	03/04/22 13:05	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/07/22 19:19, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	13.8	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.3	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.130	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.130	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.070	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	0.030	0.2	0.024	ppbv	1	75-35-4	J
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	432.0	2.5	0.068	ppbv	1	64-17-5	E
Ethylbenzene	0.170	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.390	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

E-Concentration exceeds calibration range



Analytical Laboratory Report

Lab Sample ID: S33533.11 (continued)

Sample Tag: 224121-IA-146

TO-15, Method: TO-15, Run Date: 03/07/22 19:19, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	Not detected	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	Not detected	0.4	0.019	ppbv	1	110-54-3	X
2-Hexanone*	0.250	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	38.4	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.21	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	1.110	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.030	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	12	0.038	ppbv	1	115-07-1	X
Styrene	0.080	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	0.070	0.5	0.015	ppbv	1	120-82-1	JB
1,2,4-Trimethylbenzene	0.100	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.4	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.470	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.160	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	0.2	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.6	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	0.140	0.2	0.023	ppbv	1	79-01-6	J
Trichlorofluoromethane	0.170	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.6	0.4	0.038	ppbv	1		
o-Xylene	0.2	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	0.8	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/07/22 19:19, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	32.8	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.96	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.405	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

Lab Sample ID: S33533.11 (continued)

Sample Tag: 224121-IA-146

TO-15, Method: TO-15, Run Date: 03/07/22 19:19, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.635	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.44	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	0.12	0.79	0.095	ug/m3	1	75-35-4	J
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	814.0	4.7	0.13	ug/m3	1	64-17-5	E--J
Ethylbenzene	0.738	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	1.41	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	Not detected	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	Not detected	1.4	0.067	ug/m3	1	110-54-3	X
2-Hexanone*	1.02	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	94.4	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.73	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	3.274	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.016--	1.0	0.052	ug/m3	1	91-20-3	--JB--U
Propylene*	Not detected	21	0.065	ug/m3	1	115-07-1	X
Styrene	0.34	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	3.7052--	3.7	0.11	ug/m3	1	120-82-1	--JB--U
1,2,4-Trimethylbenzene	0.492	0.98	0.14	ug/m3	1	95-63-6	J

J-Estimated value less than reporting limit, but greater than MDL

E-Concentration exceeds calibration range

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33533.11 (continued)
Sample Tag: 224121-IA-146

TO-15, Method: TO-15, Run Date: 03/07/22 19:19, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	1.9	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	1.42	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	1.09	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	0.59	0.59	0.086	ug/m3	1	109-99-9	
Toluene	2.3	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	0.752	1.1	0.12	ug/m3	1	79-01-6	J
Trichlorofluoromethane	0.955	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	2.6	1.7	0.16	ug/m3	1		
o-Xylene	0.87	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	3.5	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33533.12

Sample Tag: 224121-SS-56

Collected Date/Time: 02/28/2022 17:18 - 03/01/2022 17:47

Matrix: Air

COC Reference: A5307

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	0	N/A	03/04/22 13:05	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/07/22 19:49, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	25.2	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.2	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.7	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	8.2	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.4	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.040	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.4	0.024	ppbv	1	110-82-7	X
1,1-Dichloroethane	1.0	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.7	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	9.5	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.080	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	1.510	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S33533.12 (continued)

Sample Tag: 224121-SS-56

TO-15, Method: TO-15, Run Date: 03/07/22 19:49, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	Not detected	0.9	0.015	ppbv	1	142-82-5	X
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	Not detected	1.3	0.019	ppbv	1	110-54-3	X
2-Hexanone*	0.340	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	Not detected	2.6	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.20	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	5.8	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.070	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.050	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	0.080	0.5	0.015	ppbv	1	120-82-1	JB
1,2,4-Trimethylbenzene	0.2	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.140	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.9	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.650	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.4	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.5	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.180	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	0.3	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.320	0.4	0.038	ppbv	1		J
o-Xylene	0.160	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.480	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/07/22 19:49, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	59.9	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.64	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	2.2	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33533.12 (continued)

Sample Tag: 224121-SS-56

TO-15, Method: TO-15, Run Date: 03/07/22 19:49, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	22	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	2.0	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.25	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	1.4	0.083	ug/m3	1	110-82-7	X
1,1-Dichloroethane	4.0	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	2.8	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	18	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.35	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	5.442	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	Not detected	3.7	0.061	ug/m3	1	142-82-5	X
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	Not detected	4.6	0.067	ug/m3	1	110-54-3	X
2-Hexanone*	1.39	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	Not detected	6.4	0.19	ug/m3	1	67-63-0	X
Methylene chloride	0.69	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	17	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.37~~	1.0	0.052	ug/m3	1	91-20-3	~~JB~~ U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.21	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	3.7 ~~0.59~~	3.7	0.11	ug/m3	1	120-82-1	~~JB~~ U
1,2,4-Trimethylbenzene	0.98	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	0.688	0.98	0.12	ug/m3	1	108-67-8	J

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

ALH 3/29/22



Analytical Laboratory Report

Lab Sample ID: S33533.12 (continued)
Sample Tag: 224121-SS-56

TO-15, Method: TO-15, Run Date: 03/07/22 19:49, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2,2,4-Trimethylpentane	4.2	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	1.97	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	2.7	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	1.9	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.01	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	0.77	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.39	1.7	0.16	ug/m3	1		J
o-Xylene	0.695	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	2.08	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33533.13

Sample Tag: 224121-IA-56

Collected Date/Time: 02/28/2022 17:20 - 03/01/2022 17:47

Matrix: Air

COC Reference: A5307

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-7	N/A	03/04/22 13:05	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/07/22 20:19, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	5.0	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.3	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.120	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.070	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.420	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.150	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	25.6	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.130	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.180	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	

J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S33533.13 (continued)

Sample Tag: 224121-IA-56

TO-15, Method: TO-15, Run Date: 03/07/22 20:19, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.4	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.3	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.5	0.5	0.14	ppbv	1	75-09-2	
2-Butanone (MEK)	0.420	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.040	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.040	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.100	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.3	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.200	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.120	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.9	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.160	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.5	0.4	0.038	ppbv	1		
o-Xylene	0.2	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	0.7	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/07/22 20:19, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	12	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.96	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.374	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.34	0.98	0.098	ug/m3	1	67-66-3	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33533.13 (continued)

Sample Tag: 224121-IA-56

TO-15, Method: TO-15, Run Date: 03/07/22 20:19, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	0.867	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.516	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	48.2	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.564	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	0.649	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	1.6	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	1.1	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	1.7	1.7	0.49	ug/m3	1	75-09-2	
2-Butanone (MEK)	1.24	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 0.21	1.0	0.052	ug/m3	1	91-20-3	--JB---U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.17	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.492	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	1.4	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	0.606	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.814	1.4	0.16	ug/m3	1	127-18-4	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 3/29/22



Analytical Laboratory Report

Lab Sample ID: S33533.13 (continued)
Sample Tag: 224121-IA-56

TO-15, Method: TO-15, Run Date: 03/07/22 20:19, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	3.4	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	0.899	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	2.2	1.7	0.16	ug/m3	1		
o-Xylene	0.87	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	3.0	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33533.14

Sample Tag: 224121-SS-42-09

Collected Date/Time: 03/02/2022 10:08 - 03/03/2022 09:15

Matrix: Air

COC Reference: A5307

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-16	N/A	03/04/22 13:05	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/07/22 20:51, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	24.3	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.5	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	1.4	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.120	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	21.8	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.130	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	1.050	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	Not detected	0.7	0.032	ppbv	1	622-96-8	X

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33533.14 (continued)

Sample Tag: 224121-SS-42-09

TO-15, Method: TO-15, Run Date: 03/07/22 20:51, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.070	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.6	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	Not detected	0.6	0.019	ppbv	1	110-54-3	X
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	3.4	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.23	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	2.2	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.070	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.090	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.130	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.030	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.4	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	1.1	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	0.090	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.7	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.190	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.5	0.4	0.038	ppbv	1		
o-Xylene	0.2	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	0.7	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/07/22 20:51, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	57.7	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	1.6	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	4.4	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

Lab Sample ID: S33533.14 (continued)

Sample Tag: 224121-SS-42-09

TO-15, Method: TO-15, Run Date: 03/07/22 20:51, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	0.586	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	41.1	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.564	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	3.784	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	3.4	0.16	ug/m3	1	622-96-8	X
Freon 113	0.54	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	2.5	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	Not detected	2.1	0.067	ug/m3	1	110-54-3	X
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	8.4	0.19	ug/m3	1	67-63-0	X
Methylene chloride	0.80	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	6.5	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 0.37--	1.0	0.052	ug/m3	1	91-20-3	-JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.38	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.639	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.15	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	1.9	0.93	0.065	ug/m3	1	540-84-1	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33533.14 (continued)

Sample Tag: 224121-SS-42-09

TO-15, Method: TO-15, Run Date: 03/07/22 20:51, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	3.3	3.0	0.12	ug/m3	1	75-65-0	
Tetrachloroethene	0.61	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	2.6	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.07	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	2.2	1.7	0.16	ug/m3	1		
o-Xylene	0.87	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	3.0	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33533.15

Sample Tag: 224121-IA-42-09

Collected Date/Time: 03/02/2022 10:09 - 03/03/2022 09:16

Matrix: Air

COC Reference: A5307

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-8	N/A	03/04/22 13:05	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/07/22 21:21, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	7.9	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.4	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.140	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.130	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.070	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.090	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.060	0.2	0.028	ppbv	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.020	0.2	0.019	ppbv	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	105.0	2.5	0.068	ppbv	1	64-17-5	E
Ethylbenzene	0.090	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.330	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

E-Concentration exceeds calibration range

Lab Sample ID: S33533.15 (continued)

Sample Tag: 224121-IA-42-09

TO-15, Method: TO-15, Run Date: 03/07/22 21:21, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	Not detected	0.3	0.032	ppbv	1	622-96-8	X
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	Not detected	0.4	0.015	ppbv	1	142-82-5	X
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.180	0.2	0.019	ppbv	1	110-54-3	J
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	3.1	0.076	ppbv	1	67-63-0	X
Methylene chloride	7.9	0.5	0.14	ppbv	1	75-09-2	
2-Butanone (MEK)	0.530	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.040	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.030	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	0.020	0.2	0.017	ppbv	1	71-55-6	J
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	0.020	0.5	0.015	ppbv	1	120-82-1	JB
1,2,4-Trimethylbenzene	0.190	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.050	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.3	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.170	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.040	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.7	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.160	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.310	0.4	0.038	ppbv	1		J
o-Xylene	0.140	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.450	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/07/22 21:21, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	19	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	1.3	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.436	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

X-Elevated reporting limit due to matrix interference

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

Lab Sample ID: S33533.15 (continued)

Sample Tag: 224121-IA-42-09

TO-15, Method: TO-15, Run Date: 03/07/22 21:21, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.635	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.44	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.31	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	0.24	0.81	0.11	ug/m3	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	0.12	1.2	0.11	ug/m3	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	197.8	4.7	0.13	ug/m3	1	64-17-5	--E--J
Ethylbenzene	0.39	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	1.19	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	1.5	0.16	ug/m3	1	622-96-8	X
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	Not detected	1.6	0.061	ug/m3	1	142-82-5	X
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	0.634	0.70	0.067	ug/m3	1	110-54-3	J
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	7.6	0.19	ug/m3	1	67-63-0	X
Methylene chloride	27	1.7	0.49	ug/m3	1	75-09-2	
2-Butanone (MEK)	1.56	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.21~~	1.0	0.052	ug/m3	1	91-20-3	--JB--U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.13	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	0.11	1.1	0.093	ug/m3	1	71-55-6	J
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	3.7 ~~0.15~~	3.7	0.11	ug/m3	1	120-82-1	--JB--U
1,2,4-Trimethylbenzene	0.934	0.98	0.14	ug/m3	1	95-63-6	J

J-Estimated value less than reporting limit, but greater than MDL

E-Concentration exceeds calibration range

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33533.15 (continued)
Sample Tag: 224121-IA-42-09

TO-15, Method: TO-15, Run Date: 03/07/22 21:21, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,3,5-Trimethylbenzene	0.25	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	1.4	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	0.515	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.27	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	2.6	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	0.899	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.35	1.7	0.16	ug/m3	1		J
o-Xylene	0.608	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	1.95	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33533.16

Sample Tag: 224121-OA-42-09

Collected Date/Time: 03/02/2022 10:12 - 03/03/2022 09:18

Matrix: Air

COC Reference: A5307

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-2	N/A	03/04/22 13:05	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/07/22 21:51, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	3.3	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.180	0.2	0.019	ppbv	1	71-43-2	J
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.080	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.020	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.070	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.050	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	5.6	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.060	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.110	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	

J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S33533.16 (continued)

Sample Tag: 224121-OA-42-09

TO-15, Method: TO-15, Run Date: 03/07/22 21:51, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.080	0.2	0.015	ppbv	1	142-82-5	J
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.130	0.2	0.019	ppbv	1	110-54-3	J
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	1.370	2.0	0.076	ppbv	1	67-63-0	J
Methylene chloride	0.21	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.330	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.020	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.020	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	Not detected	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.050	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.2	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.120	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	Not detected	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.4	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.160	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.180	0.4	0.038	ppbv	1		J
o-Xylene	0.070	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.250	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/07/22 21:51, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	7.8	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.575	0.64	0.061	ug/m3	1	71-43-2	J
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.25	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.098	0.98	0.098	ug/m3	1	67-66-3	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33533.16 (continued)

Sample Tag: 224121-OA-42-09

TO-15, Method: TO-15, Run Date: 03/07/22 21:51, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.44	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.17	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	11	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.26	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	0.396	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	0.33	0.82	0.061	ug/m3	1	142-82-5	J
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	0.458	0.70	0.067	ug/m3	1	110-54-3	J
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	3.368	4.9	0.19	ug/m3	1	67-63-0	J
Methylene chloride	0.73	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	0.973	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.082	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 0.10	1.0	0.052	ug/m3	1	91-20-3	JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	Not detected	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.25	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	0.93	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	0.364	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	Not detected	1.4	0.16	ug/m3	1	127-18-4	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 3/29/22



Analytical Laboratory Report

Lab Sample ID: S33533.16 (continued)
Sample Tag: 224121-OA-42-09

TO-15, Method: TO-15, Run Date: 03/07/22 21:51, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	1.5	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	0.899	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	0.782	1.7	0.16	ug/m3	1		J
o-Xylene	0.30	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	1.09	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL

VALIDATA

Chemical Services, Inc.

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DATA USABILITY SUMMARY REPORT

COMPANY: AECOM Technical Services Northeast, Inc.
PROJECT NAME: Meeker Ave. SVI
CONTRACTED LAB: Merit Laboratories, Inc.
QA/QC LEVEL: DUSR
ANALYTICAL METHOD(S): EPA Method TO-15
VALIDATION GUIDELINES: USEPA Region II data validation SOP (VOA-TO15 HW-31 Rev.6, Analysis of VOCs in Air contained in Canisters by Method TO-15, September 2016), Professional Judgment

SAMPLE MATRIX: Air
TYPES OF ANALYSES: Volatile Organic Compounds (VOC)
DATA REVIEWER(S): Amy L. Hogan
SDG NUMBER: 33701
SAMPLING DATE(S): February 26, 2022

SAMPLES:

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>VOC</u>
224121-SSA-147	S33701.01	X
224121-SSA-147DL	S33701.01DL	X
224121-IAA-147	S33701.02	X
224121-SSB-147	S33701.03	X
224121-SSB-147DL	S33701.03DL	X
224121-IAB-147	S33701.04	X
224121-OA-147	S33701.05	X
224121-SS-148	S33701.06	X
224121-IA-148	S33701.07	X
224121-OA-148	S33701.08	X
224121-SSA-149	S33701.09	X
224121-SSA-149DL	S33701.09DL	X
224121-IAA-149	S33701.10	X
224121-IAA-149DL	S33701.10DL	X
224121-SSB-149	S33701.11	X
224121-SSB-149DL	S33701.11DL	X
224121-IAB-149	S33701.12	X
224121-IAB-149DL	S33701.12DL	X
224121-OA-149	S33701.13	X
224121-SS-30-09	S33701.14	X

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>VOC</u>
224121-SS-30-09	S33701.14DL	X
224121-IA-30-09	S33701.14	X
224121-OA-30-09	S33701.16	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Merit Laboratories, Inc. – 33701

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per EPA Method TO-15.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

Initial Calibration Verification data was not submitted for this SDG. Data qualification based on the absence of Initial Calibration Verification data was not required. No data qualification was necessary.

Continuing Calibration:

The Percent Difference (%D) for the standards run on 3/14/22 at 12:10 on instrument EXODUS was 33.2% for 1,2,4-trichlorobenzene, which exceeded the 30% QC limit. All positive and non-detect results for this compound in the associated samples were qualified as estimated (J) and (UJ). The associated samples were 224121-SSA-147, 224121-SSB-147, 224121-OA-147,

224121-SS-148, 224121-IA-148, 224121-OA-148, 224121-SSA-149, 224121-IAA-149, 224121-SSB-149, 224121-IAB-149, SS4121-OA-149, 224121-SS-30-09, 224121-IA-30-09 and 224121-OA-30-09.

The Percent Differences (%Ds) for the standards run on 3/15/22 at 12:16 on instrument EXODUS exceeded the 30% QC limit for the following compounds:

1,2,4-trichlorobenzene	43.0%
Hexachlorobutadiene	39.5%

The results for these compounds in associated samples 224121-SSA-147DL and 224121-SSB-147DL, which were all non-detect, were qualified as estimated (UJ).

The Percent Difference (%D) for the standards run on 3/28/22 at 18:03 on instrument EXODUS was 44.5% for carbon disulfide, which exceeded the 30% QC limit. The positive and non-detect results for this compound in associated samples 224121-SSA-149DL, 224121-IAA-149DL, 224121-IAB-149DL and 224121-SS-30-09DL were qualified as estimated (J) and (UJ).

VI.) Blanks:

Method Blanks:

There were detections in the method blank for 3/142/22 for the following compounds:

Propylene	0.27 ppbv
Acetone	0.06 ppbv
Carbon disulfide	0.06 ppbv
4-ethyltoluene	0.04 ppbv
1,3-dichlorobenzene	0.03 ppbv
1,4-dichlorobenzene	0.02 ppbv
1,2,4-trichlorobenzene	0.05 ppbv
Hexachlorobutadiene	0.05 ppbv
Naphthalene	0.06 ppbv

Since the blank results were less than the equal to the RL, the positive results for these compounds in the associated SDG samples, which were less than the RL, were qualified as undetected (U) with the result being raised to the RL. The associated samples were 224121-SSA-147, 224121-SSB-147, 224121-OA-147, 224121-SS-148, 224121-IA-148, 224121-OA-148, 224121-SSA-149, 224121-IAA-149, 224121-SSB-149, 224121-IAB-149, SS4121-OA-149, 224121-SS-30-09, 224121-IA-30-09 and 224121-OA-30-09.

There were detections in the method blank for 3/15/22 for the following compounds:

Propylene	0.23 ppbv
Acetone	0.06 ppbv
Carbon disulfide	0.02 ppbv
4-ethyltoluene	0.05 ppbv

o-isopropyltoluene	0.01 ppbv
1,3-dichlorobenzene	0.03 ppbv
1,4-dichlorobenzene	0.03 ppbv
1,2,4-trichlorobenzene	0.06 ppbv
Naphthalene	0.05 ppbv

Since the blank results were less than the equal to the RL, the positive results for these compounds in associated SDG samples 224121-SSA-147DL and 224121-SSB-147DL, which were less than the RL, were qualified as undetected (U) with the result being raised to the RL.

There were detections in the method blank for 3/23/22 for the following compounds:

Propylene	0.20 ppbv
Carbon disulfide	0.02 ppbv
1,3-dichlorobenzene	0.03 ppbv
1,4-dichlorobenzene	0.02 ppbv
1,2,4-trichlorobenzene	0.04 ppbv
Naphthalene	0.04 ppbv

Since the blank results were less than the equal to the RL, the positive results for these compounds in associated SDG samples 224121-IAA-147 and 224121-IAB-147, which were less than the RL, were qualified as undetected (U) with the result being raised to the RL.

There were detections in the method blank for 3/28/22 for the following compounds:

Propylene	0.30 ppbv
Acetone	0.08 ppbv
Carbon disulfide	3.32 ppbv
o-isopropyltoluene	0.01 ppbv
1,3-dichlorobenzene	0.02 ppbv
1,4-dichlorobenzene	0.02 ppbv
1,2,4-trichlorobenzene	0.05 ppbv
Naphthalene	0.05 ppbv

Since the blank result for carbon disulfide was greater than the RL, the positive results for this compound in the associated samples, which were less than the RL, were qualified as undetected (U) with the results being raised to the RL and the positive results greater than the RL but less than the blank concentration, when adjusted for dilutions, were qualified as undetected (U). Since the blank results for all other listed compounds were less than the equal to the RL, the positive results for these compounds in associated SDG samples, which were less than the RL, were qualified as undetected (U) with the result being raised to the RL. The associated samples were 224121-SSA-149DL, 224121-IAA-149DL, 224121-IAB-149DL and 224121-SS-30-09DL.

Canister Blanks:

There were no detects in the canister check blanks for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

The Percent Recovery (%R) for 4-BFB at 17.2% for the initial analysis of sample 224121-SSB-149 was below the QC limits. All positive and non-detect results for this sample were qualified as estimated (J) and (UJ).

VIII.) Laboratory Control Samples (LCS):

Four LCS / LCSD sets were analyzed by the laboratory for this SDG. The Percent Recoveries (%Rs) were outside the QC limits for the LCS set analyzed on 3/14/22 for the following compounds:

<u>Compound</u>	<u>LCS, %R</u>	<u>LCSD, %R</u>
1,2,4-trichlorobenzene	132.7%	136.2%
Hexachlorobutadiene		131.6%

All positive results for these compounds in the associated samples were qualified as estimated (J). The associated samples were 224121-SSA-147, 224121-SSB-147, 224121-OA-147, 224121-SS-148, 224121-IA-148, 224121-OA-148, 224121-SSA-149, 224121-IAA-149, 224121-SSB-149, 224121-IAB-149, SS4121-OA-149, 224121-SS-30-09, 224121-IA-30-09 and 224121-OA-30-09.

The Percent Recoveries (%Rs) were outside the QC limits for the LCS set analyzed on 3/15/22 for the following compounds:

<u>Compound</u>	<u>LCS, %R</u>	<u>LCSD, %R</u>
1,2,4-trichlorobenzene	142.4%	148.6%
Hexachlorobutadiene	139.3%	143.1%
Naphthalene		131.6%

All positive results for these compounds in associated samples 224121-SSA-147DL and 224121-SSB-147DL were qualified as estimated (J).

The Percent Recoveries (%Rs) were outside the QC limits for the LCS set analyzed on 3/23/22 for the following compounds:

<u>Compound</u>	<u>LCS, %R</u>	<u>LCSD, %R</u>
ethanol	68.5%	66.8%
1,3-butadiene		69.8%

All positive and non-detect results for these compounds in associated samples 224121-IAA-147 and 224121-IAB-147 were qualified as estimated (J) and (UJ).

The Percent Recoveries (%Rs) were outside the QC limits for the LCS set analyzed on 3/28/22 for carbon disulfide (144.1%) and hexachlorobutadiene (130.6). All positive results for these compounds in associated samples 224121-SSA-149DL, 224121-IAA-149DL, 224121-IAB-149DL and 224121-SS-30-09DL were qualified as estimated (J).

IX.) Matrix Duplicate:

Matrix Duplicate analysis data was not submitted for this SDG. Data qualification based on the absence of MD data was not required. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

The Area Count Percent Recovery (%R) for chlorobenzene-d5 (600%) for sample 224121-SSB-149 exceeded the QC limits. All positive results for the compound quantitated against this ISTD for the sample were qualified as estimated (J).

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

The ethanol result for sample 224121-OA-30-09 exceeded the linear calibration range and was qualified as estimated (J).

The results for multiple compounds in the initial analyses for samples 224121-SSA-147, 224121-SSB-147, 224121-SSA-149, 224121-IAA-149, 224121-SSB-149, 224121-IAB-149 and SS4121-SS-30-09 exceeded the linear calibration range. A dilution analysis was performed for each sample with all linear calibration criteria met. The results for these compounds in the initial analysis were qualified as estimated (J). Citing the linear calibration range exceedances and professional judgment, the validator has determined that the dilution analysis results for these compounds for the sample to be of preferable data quality to the initial analysis results for these compounds.

All other CRQL criteria were met.

Appendix A

Qualified Form Is



Analytical Laboratory Report

Lab Sample ID: S33701.01

Sample Tag: 224121-SSA-147

Collected Date/Time: 03/08/2022 08:18 - 03/08/2022 15:42

Matrix: Air

COC Reference: A5328

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-4	N/A	03/10/22 14:20	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/14/22 13:39, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	84.4	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	4.9	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.7	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	2.3	2.0	0.046	ppbv	1	75-00-3	
Chloroform	138.9	0.2	0.020	ppbv	1	67-66-3	E
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.100	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.7	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	3.8	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	0.120	0.2	0.024	ppbv	1	75-35-4	J
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	9.5	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	1,936.7	0.2	0.023	ppbv	1	156-59-2	E
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	33.0	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.4	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	Not detected	2.0	0.049	ppbv	1	141-78-6	

E-Concentration exceeds calibration range

J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S33701.01 (continued)

Sample Tag: 224121-SSA-147

TO-15, Method: TO-15, Run Date: 03/14/22 13:39, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.160	0.2	0.032	ppbv	1	622-96-8	JB
Freon 113	0.080	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	Not detected	1.4	0.015	ppbv	1	142-82-5	X
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	1.1	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	6.3	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.6	0.5	0.14	ppbv	1	75-09-2	
2-Butanone (MEK)	1.510	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.410	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.5	0.2	0.010	ppbv	1	91-20-3	
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	Not detected	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	3.2	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.4	0.015	ppbv	1	79-00-5	X
1,2,4-Trichlorobenzene	0.020	0.5	0.015	ppbv	1	120-82-1	JB
1,2,4-Trimethylbenzene	1.2	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	1.4	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	Not detected	1.0	0.014	ppbv	1	540-84-1	X
Tert-butyl Alcohol	0.640	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	2,088.1	0.2	0.024	ppbv	1	127-18-4	E
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	4.4	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	1,591.3	0.2	0.023	ppbv	1	79-01-6	E
Trichlorofluoromethane	0.2	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	0.190	0.2	0.029	ppbv	1	75-01-4	J
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	1.4	0.4	0.038	ppbv	1		
o-Xylene	1.4	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	2.8	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/14/22 13:39, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	200	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	16	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	2.2	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference

E-Concentration exceeds calibration range



Analytical Laboratory Report

Lab Sample ID: S33701.01 (continued)

Sample Tag: 224121-SSA-147

TO-15, Method: TO-15, Run Date: 03/14/22 13:39, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	6.1	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	678.2	0.98	0.098	ug/m3	1	67-66-3	---E---J
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.629	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	2.4	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	15	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	0.476	0.79	0.095	ug/m3	1	75-35-4	J
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	38	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	7,678.7	0.79	0.091	ug/m3	1	156-59-2	---E---J
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	62.2	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	1.7	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	Not detected	7.2	0.18	ug/m3	1	141-78-6	
4-Ethyltoluene	0.98	~~0.787~~	0.98	ug/m3	1	622-96-8	---JB---U
Freon 113	0.61	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	Not detected	5.7	0.061	ug/m3	1	142-82-5	X
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	3.9	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	15	0.19	ug/m3	1	67-63-0	X
Methylene chloride	2.1	1.7	0.49	ug/m3	1	75-09-2	
2-Butanone (MEK)	4.453	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	1.68	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	2.6	1.0	0.052	ug/m3	1	91-20-3	
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	Not detected	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	17	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	2.2	0.082	ug/m3	1	79-00-5	X
1,2,4-Trichlorobenzene	3.7	~~0.15~~	~~3.7~~	ug/m3	1	120-82-1	---JB---UJ
1,2,4-Trimethylbenzene	5.9	0.98	0.14	ug/m3	1	95-63-6	

E-Concentration exceeds calibration range

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33701.01 (continued)

Sample Tag: 224121-SSA-147

TO-15, Method: TO-15, Run Date: 03/14/22 13:39, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,3,5-Trimethylbenzene	6.9	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	Not detected	4.7	0.065	ug/m3	1	540-84-1	X
Tert-butyl Alcohol	1.94	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	14,162	1.4	0.16	ug/m3	1	127-18-4	---E---J
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	17	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	8,552.0	1.1	0.12	ug/m3	1	79-01-6	---E---J
Trichlorofluoromethane	1.1	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	0.486	0.51	0.074	ug/m3	1	75-01-4	J
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	6.1	1.7	0.16	ug/m3	1		
o-Xylene	6.1	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	12	2.6	0.25	ug/m3	1	1330-20-7	

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/15/22 22:03, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	111	1,100	31	ppbv	530	67-64-1	JYB
1,3-Butadiene	Not detected	1,100	15	ppbv	530	106-99-0	Y
Benzene	20	100	10	ppbv	530	71-43-2	JY
Bromodichloromethane	Not detected	100	12	ppbv	530	75-27-4	Y
Bromoform	Not detected	100	12	ppbv	530	75-25-2	Y
Bromomethane	Not detected	100	17	ppbv	530	74-83-9	Y
Vinyl bromide	Not detected	100	19	ppbv	530	593-60-2	Y
Benzyl chloride	Not detected	100	15	ppbv	530	100-44-7	Y
Carbon disulfide	10	300	10	ppbv	530	75-15-0	JYB
Chlorobenzene	Not detected	100	9.0	ppbv	530	108-90-7	Y
Chloroethane	Not detected	1,100	24	ppbv	530	75-00-3	Y
Chloroform	200	100	11	ppbv	530	67-66-3	Y
Chloromethane	Not detected	1,100	21	ppbv	530	74-87-3	Y
3-Chloropropene	Not detected	1,100	13	ppbv	530	107-05-1	Y
2-Chlorotoluene	Not detected	100	13	ppbv	530	95-49-8	Y
Carbon tetrachloride	Not detected	100	11	ppbv	530	56-23-5	Y
Cyclohexane	Not detected	100	13	ppbv	530	110-82-7	Y
1,1-Dichloroethane	Not detected	100	13	ppbv	530	75-34-3	Y
1,1-Dichloroethene	Not detected	100	13	ppbv	530	75-35-4	Y
1,2-Dibromoethane	Not detected	100	5.3	ppbv	530	106-93-4	Y
1,2-Dichloroethane	Not detected	100	15	ppbv	530	107-06-2	Y
1,2-Dichloropropane	Not detected	100	11	ppbv	530	78-87-5	Y
1,4-Dioxane	Not detected	1,300	20	ppbv	530	123-91-1	Y
Dichlorodifluoromethane	Not detected	100	14	ppbv	530	75-71-8	Y
Dibromochloromethane	Not detected	100	9.0	ppbv	530	124-48-1	Y
trans-1,2-Dichloroethene	Not detected	100	11	ppbv	530	156-60-5	Y
cis-1,2-Dichloroethene	6,700	100	12	ppbv	530	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	100	11	ppbv	530	10061-01-5	Y
1,3-Dichlorobenzene	Not detected	100	11	ppbv	530	541-73-1	Y
1,2-Dichlorobenzene	Not detected	100	13	ppbv	530	95-50-1	Y

X-Elevated reporting limit due to matrix interference

J-Estimated value less than reporting limit, but greater than MDL

E-Concentration exceeds calibration range

Y-Elevated reporting limit due to high target concentration B-Compound also found in associated method blank

ALH 4/25/22

Analytical Laboratory Report

Lab Sample ID: S33701.01 (continued)

Sample Tag: 224121-SSA-147

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/15/22 22:03, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,4-Dichlorobenzene	Not detected	100	10	ppbv	530	106-46-7	Y
trans-1,3-Dichloropropene	Not detected	100	6.9	ppbv	530	10061-02-6	Y
Ethanol*	Not detected	1,300	36	ppbv	530	64-17-5	Y
Ethylbenzene	Not detected	100	11	ppbv	530	100-41-4	Y
Ethyl Acetate*	Not detected	1,100	26	ppbv	530	141-78-6	Y
4-Ethyltoluene	Not detected	100	17	ppbv	530	622-96-8	Y
Freon 113	Not detected	100	13	ppbv	530	76-13-1	Y
Freon 114	Not detected	100	15	ppbv	530	76-14-2	Y
Heptane	Not detected	100	8.0	ppbv	530	142-82-5	Y
Hexachlorobutadiene	Not detected	100	15	ppbv	530	87-68-3	Y
Hexane	Not detected	100	10	ppbv	530	110-54-3	Y
2-Hexanone*	Not detected	300	11	ppbv	530	591-78-6	Y
Isopropyl Alcohol*	Not detected	1,100	40	ppbv	530	67-63-0	Y
Methylene chloride	Not detected	300	73	ppbv	530	75-09-2	Y
2-Butanone (MEK)	Not detected	1,100	24	ppbv	530	78-93-3	Y
4-Methyl-2-pentanone (MIBK)	Not detected	300	9.0	ppbv	530	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	100	5.3	ppbv	530	1634-04-4	Y
Methyl methacrylate	Not detected	100	9.0	ppbv	530	80-62-6	Y
Naphthalene	5.3	100	5.3	ppbv	530	91-20-3	JYB
Propylene*	120	5,000	20	ppbv	530	115-07-1	JYB
Styrene	Not detected	100	8.0	ppbv	530	100-42-5	Y
1,1,1-Trichloroethane	Not detected	100	9.0	ppbv	530	71-55-6	Y
1,1,2,2-Tetrachloroethane	Not detected	100	7.4	ppbv	530	79-34-5	Y
1,1,2-Trichloroethane	Not detected	100	8.0	ppbv	530	79-00-5	Y
1,2,4-Trichlorobenzene	Not detected	300	8.0	ppbv	530	120-82-1	Y
1,2,4-Trimethylbenzene	Not detected	100	15	ppbv	530	95-63-6	Y
1,3,5-Trimethylbenzene	Not detected	100	13	ppbv	530	108-67-8	Y
2,2,4-Trimethylpentane	Not detected	100	7.4	ppbv	530	540-84-1	Y
Tert-butyl Alcohol	Not detected	530	22	ppbv	530	75-65-0	Y
Tetrachloroethene	20,100	100	13	ppbv	530	127-18-4	Y
Tetrahydrofuran*	Not detected	100	15	ppbv	530	109-99-9	Y
Toluene	10.6	100	6.9	ppbv	530	108-88-3	JY
Trichloroethene	10,700	100	12	ppbv	530	79-01-6	Y
Trichlorofluoromethane	Not detected	100	9.0	ppbv	530	75-69-4	Y
Vinyl chloride	Not detected	100	15	ppbv	530	75-01-4	Y
Vinyl acetate	Not detected	1,100	8.0	ppbv	530	108-05-4	Y
p,m-Xylene	Not detected	200	20	ppbv	530		Y
o-Xylene	Not detected	100	11	ppbv	530	95-47-6	Y
Total Xylenes	Not detected	300	31	ppbv	530	1330-20-7	Y

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/15/22 22:03, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	2600	2,600	74	ug/m3	530	67-64-1	--JYB-U
1,3-Butadiene	Not detected	2,400	33	ug/m3	530	106-99-0	Y
Benzene	64	320	32	ug/m3	530	71-43-2	JY
Bromodichloromethane	Not detected	670	80	ug/m3	530	75-27-4	Y
Bromoform	Not detected	1,000	120	ug/m3	530	75-25-2	Y
Bromomethane	Not detected	390	66	ug/m3	530	74-83-9	Y

Y-Elevated reporting limit due to high target concentration

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33701.01 (continued)

Sample Tag: 224121-SSA-147

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/15/22 22:03, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Vinyl bromide	Not detected	440	83	ug/m3	530	593-60-2	Y
Benzyl chloride	Not detected	520	78	ug/m3	530	100-44-7	Y
Carbon disulfide	930 ~~31~~	930	31	ug/m3	530	75-15-0	~~JYB~~ U
Chlorobenzene	Not detected	460	41	ug/m3	530	108-90-7	Y
Chloroethane	Not detected	2,900	63	ug/m3	530	75-00-3	Y
Chloroform	980	490	54	ug/m3	530	67-66-3	Y
Chloromethane	Not detected	2,300	43	ug/m3	530	74-87-3	Y
3-Chloropropene	Not detected	3,400	41	ug/m3	530	107-05-1	Y
2-Chlorotoluene	Not detected	520	67	ug/m3	530	95-49-8	Y
Carbon tetrachloride	Not detected	630	69	ug/m3	530	56-23-5	Y
Cyclohexane	Not detected	340	45	ug/m3	530	110-82-7	Y
1,1-Dichloroethane	Not detected	400	53	ug/m3	530	75-34-3	Y
1,1-Dichloroethene	Not detected	400	52	ug/m3	530	75-35-4	Y
1,2-Dibromoethane	Not detected	770	41	ug/m3	530	106-93-4	Y
1,2-Dichloroethane	Not detected	400	61	ug/m3	530	107-06-2	Y
1,2-Dichloropropane	Not detected	460	51	ug/m3	530	78-87-5	Y
1,4-Dioxane	Not detected	4,700	72	ug/m3	530	123-91-1	Y
Dichlorodifluoromethane	Not detected	490	69	ug/m3	530	75-71-8	Y
Dibromochloromethane	Not detected	850	77	ug/m3	530	124-48-1	Y
trans-1,2-Dichloroethene	Not detected	400	44	ug/m3	530	156-60-5	Y
cis-1,2-Dichloroethene	27,000	400	48	ug/m3	530	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	450	50	ug/m3	530	10061-01-5	Y
1,3-Dichlorobenzene	Not detected	600	66	ug/m3	530	541-73-1	Y
1,2-Dichlorobenzene	Not detected	600	78	ug/m3	530	95-50-1	Y
1,4-Dichlorobenzene	Not detected	600	60	ug/m3	530	106-46-7	Y
trans-1,3-Dichloropropene	Not detected	450	31	ug/m3	530	10061-02-6	Y
Ethanol*	Not detected	2,400	68	ug/m3	530	64-17-5	Y
Ethylbenzene	Not detected	430	48	ug/m3	530	100-41-4	Y
Ethyl Acetate*	Not detected	4,000	94	ug/m3	530	141-78-6	Y
4-Ethyltoluene	Not detected	490	84	ug/m3	530	622-96-8	Y
Freon 113	Not detected	770	100	ug/m3	530	76-13-1	Y
Freon 114	Not detected	700	100	ug/m3	530	76-14-2	Y
Heptane	Not detected	410	33	ug/m3	530	142-82-5	Y
Hexachlorobutadiene	Not detected	1,100	160	ug/m3	530	87-68-3	Y UJ
Hexane	Not detected	350	35	ug/m3	530	110-54-3	Y
2-Hexanone*	Not detected	1,200	45	ug/m3	530	591-78-6	Y
Isopropyl Alcohol*	Not detected	2,700	98	ug/m3	530	67-63-0	Y
Methylene chloride	Not detected	1,000	250	ug/m3	530	75-09-2	Y
2-Butanone (MEK)	Not detected	3,200	71	ug/m3	530	78-93-3	Y
4-Methyl-2-pentanone (MIBK)	Not detected	1,200	37	ug/m3	530	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	360	19	ug/m3	530	1634-04-4	Y
Methyl methacrylate	Not detected	410	37	ug/m3	530	80-62-6	Y
Naphthalene	520 ~~28~~	520	28	ug/m3	530	91-20-3	~~JYB~~ U
Propylene*	8600 ~~210~~	8,600	34	ug/m3	530	115-07-1	~~JYB~~ U
Styrene	Not detected	430	34	ug/m3	530	100-42-5	Y
1,1,1-Trichloroethane	Not detected	550	49	ug/m3	530	71-55-6	Y
1,1,2,2-Tetrachloroethane	Not detected	690	51	ug/m3	530	79-34-5	Y
1,1,2-Trichloroethane	Not detected	550	44	ug/m3	530	79-00-5	Y

Y-Elevated reporting limit due to high target concentration

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

ALA 4/25/22



Analytical Laboratory Report

Lab Sample ID: S33701.01 (continued)

Sample Tag: 224121-SSA-147

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/15/22 22:03, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2,4-Trichlorobenzene	Not detected	2,200	59	ug/m3	530	120-82-1	Y UJ
1,2,4-Trimethylbenzene	Not detected	490	74	ug/m3	530	95-63-6	Y
1,3,5-Trimethylbenzene	Not detected	490	64	ug/m3	530	108-67-8	Y
2,2,4-Trimethylpentane	Not detected	470	35	ug/m3	530	540-84-1	Y
Tert-butyl Alcohol	Not detected	1,600	67	ug/m3	530	75-65-0	Y
Tetrachloroethene	136,000	680	88	ug/m3	530	127-18-4	Y
Tetrahydrofuran*	Not detected	290	44	ug/m3	530	109-99-9	Y
Toluene	39.9	380	26	ug/m3	530	108-88-3	JY
Trichloroethene	57,500	540	64	ug/m3	530	79-01-6	Y
Trichlorofluoromethane	Not detected	560	51	ug/m3	530	75-69-4	Y
Vinyl chloride	Not detected	260	38	ug/m3	530	75-01-4	Y
Vinyl acetate	Not detected	3,900	28	ug/m3	530	108-05-4	Y
p,m-Xylene	Not detected	870	87	ug/m3	530		Y
o-Xylene	Not detected	430	48	ug/m3	530	95-47-6	Y
Total Xylenes	Not detected	1,300	130	ug/m3	530	1330-20-7	Y

Y-Elevated reporting limit due to high target concentration

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33701.02

Sample Tag: 224121-IAA-147

Collected Date/Time: 03/08/2022 08:19 - 03/08/2022 15:43

Matrix: Air

COC Reference: A5328

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-4	N/A	03/10/22 14:20	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/24/22 03:08, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	3.2	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.110	0.2	0.019	ppbv	1	71-43-2	J
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.030	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	Not detected	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	0.390	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	0.040	0.2	0.023	ppbv	1	156-59-2	J
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	13.8	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.3	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	0.050	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.180	0.2	0.032	ppbv	1	622-96-8	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33701.02 (continued)

Sample Tag: 224121-IAA-147

TO-15, Method: TO-15, Run Date: 03/24/22 03:08, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.080	0.2	0.015	ppbv	1	142-82-5	J
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.120	0.2	0.019	ppbv	1	110-54-3	J
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	2.8	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.24	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.190	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.060	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.040	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	0.420	10	0.038	ppbv	1	115-07-1	JB
Styrene	Not detected	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.9	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.4	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.050	0.2	0.014	ppbv	1	540-84-1	JB
Tert-butyl Alcohol	Not detected	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	0.9	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.070	0.2	0.029	ppbv	1	109-99-9	J
Toluene	1.2	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	0.170	0.2	0.023	ppbv	1	79-01-6	J
Trichlorofluoromethane	0.3	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	1.1	0.4	0.038	ppbv	1		
o-Xylene	0.5	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	1.6	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/24/22 03:08, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	7.6	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	UJ
Benzene	0.351	0.64	0.061	ug/m3	1	71-43-2	J
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	1.6	0.093	0.059	ug/m3	1	75-15-0	-J-U
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	Not detected	0.98	0.098	ug/m3	1	67-66-3	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 4/25/22



Analytical Laboratory Report

Lab Sample ID: S33701.02 (continued)

Sample Tag: 224121-IAA-147

TO-15, Method: TO-15, Run Date: 03/24/22 03:08, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	0.805	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	0.16	0.79	0.091	ug/m3	1	156-59-2	J
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	26.0	4.7	0.13	ug/m3	1	64-17-5	J
Ethylbenzene	1.3	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	0.18	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.885	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	0.33	0.82	0.061	ug/m3	1	142-82-5	J
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	0.423	0.70	0.067	ug/m3	1	110-54-3	J
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	6.9	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.83	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	0.560	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.25	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.21~~	1.0	0.052	ug/m3	1	91-20-3	~~JB~~ U
Propylene*	17 ~~0.723~~	17	0.065	ug/m3	1	115-07-1	~~JB~~ U
Styrene	Not detected	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	4.4	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	2.0	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	0.23	0.93	0.065	ug/m3	1	540-84-1	JB
Tert-butyl Alcohol	Not detected	3.0	0.12	ug/m3	1	75-65-0	
Tetrachloroethene	6.1	1.4	0.16	ug/m3	1	127-18-4	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 4/25/22



Analytical Laboratory Report

Lab Sample ID: S33701.02 (continued)

Sample Tag: 224121-IAA-147

TO-15, Method: TO-15, Run Date: 03/24/22 03:08, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	0.21	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	4.5	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	0.914	1.1	0.12	ug/m3	1	79-01-6	J
Trichlorofluoromethane	1.7	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	4.8	1.7	0.16	ug/m3	1		
o-Xylene	2.2	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	6.9	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33701.03

Sample Tag: 224121-SSB-147

Collected Date/Time: 03/08/2022 08:20 - 03/08/2022 15:44

Matrix: Air

COC Reference: A5328

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-3	N/A	03/10/22 14:20	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/14/22 14:40, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	54.8	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	19.7	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	1.0	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	14.4	2.0	0.046	ppbv	1	75-00-3	
Chloroform	139.1	0.2	0.020	ppbv	1	67-66-3	E
Chloromethane	0.140	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	Not detected	0.2	0.020	ppbv	1	56-23-5	
Cyclohexane	0.7	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	7.0	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	0.3	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	10.1	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	1,550.4	0.2	0.023	ppbv	1	156-59-2	E
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	4.6	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.080	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	Not detected	2.0	0.049	ppbv	1	141-78-6	

E-Concentration exceeds calibration range

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S33701.03 (continued)

Sample Tag: 224121-SSB-147

TO-15, Method: TO-15, Run Date: 03/14/22 14:40, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.080	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.6	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	1.0	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.6	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.22	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	3.3	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.030	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	Not detected	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	13.1	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.060	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.040	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	1.5	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	Not detected	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	2,373.9	0.2	0.024	ppbv	1	127-18-4	E
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	1.6	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	1,639.2	0.2	0.023	ppbv	1	79-01-6	E
Trichlorofluoromethane	0.190	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	2.2	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.280	0.4	0.038	ppbv	1		J
o-Xylene	0.130	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.410	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/14/22 14:40, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	130	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	62.9	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	3.1	1.6	0.059	ug/m3	1	75-15-0	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

E-Concentration exceeds calibration range



Analytical Laboratory Report

Lab Sample ID: S33701.03 (continued)

Sample Tag: 224121-SSB-147

TO-15, Method: TO-15, Run Date: 03/14/22 14:40, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	38.0	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	679.2	0.98	0.098	ug/m3	1	67-66-3	---E J
Chloromethane	0.289	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	Not detected	1.3	0.13	ug/m3	1	56-23-5	
Cyclohexane	2.4	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	28	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	1.2	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	40.0	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	6,147.1	0.79	0.091	ug/m3	1	156-59-2	---E J
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	8.7	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.35	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	Not detected	7.2	0.18	ug/m3	1	141-78-6	
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.61	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	2.5	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	3.5	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	6.4	0.19	ug/m3	1	67-63-0	X
Methylene chloride	0.76	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	9.7	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.16~~	1.0	0.052	ug/m3	1	91-20-3	---B--U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	Not detected	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	71.5	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	UJ

E-Concentration exceeds calibration range

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S33701.03 (continued)

Sample Tag: 224121-SSB-147

TO-15, Method: TO-15, Run Date: 03/14/22 14:40, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2,4-Trimethylbenzene	0.29	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.20	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	7.0	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	Not detected	3.0	0.12	ug/m3	1	75-65-0	
Tetrachloroethene	16,101	1.4	0.16	ug/m3	1	127-18-4	E-J
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	6.0	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	8,809.4	1.1	0.12	ug/m3	1	79-01-6	E-J
Trichlorofluoromethane	1.07	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	5.6	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.22	1.7	0.16	ug/m3	1		J
o-Xylene	0.564	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	1.78	2.6	0.25	ug/m3	1	1330-20-7	J

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/15/22 22:32, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	940	27	ppbv	472	67-64-1	Y
1,3-Butadiene	Not detected	940	14	ppbv	472	106-99-0	Y
Benzene	37.8	90	9.0	ppbv	472	71-43-2	JY
Bromodichloromethane	Not detected	90	11	ppbv	472	75-27-4	Y
Bromoform	Not detected	90	11	ppbv	472	75-25-2	Y
Bromomethane	Not detected	90	16	ppbv	472	74-83-9	Y
Vinyl bromide	Not detected	90	17	ppbv	472	593-60-2	Y
Benzyl chloride	Not detected	90	14	ppbv	472	100-44-7	Y
Carbon disulfide	9.4	200	9.0	ppbv	472	75-15-0	JYB
Chlorobenzene	Not detected	90	8.0	ppbv	472	108-90-7	Y
Chloroethane	Not detected	940	22	ppbv	472	75-00-3	Y
Chloroform	220	90	9.4	ppbv	472	67-66-3	Y
Chloromethane	Not detected	940	19	ppbv	472	74-87-3	Y
3-Chloropropene	Not detected	940	11	ppbv	472	107-05-1	Y
2-Chlorotoluene	Not detected	90	11	ppbv	472	95-49-8	Y
Carbon tetrachloride	Not detected	90	9.4	ppbv	472	56-23-5	Y
Cyclohexane	Not detected	90	11	ppbv	472	110-82-7	Y
1,1-Dichloroethane	Not detected	90	12	ppbv	472	75-34-3	Y
1,1-Dichloroethene	Not detected	90	11	ppbv	472	75-35-4	Y
1,2-Dibromoethane	Not detected	90	4.7	ppbv	472	106-93-4	Y
1,2-Dichloroethane	Not detected	90	13	ppbv	472	107-06-2	Y
1,2-Dichloropropane	Not detected	90	9.4	ppbv	472	78-87-5	Y
1,4-Dioxane	Not detected	1,200	18	ppbv	472	123-91-1	Y
Dichlorodifluoromethane	Not detected	90	12	ppbv	472	75-71-8	Y
Dibromochloromethane	Not detected	90	8.0	ppbv	472	124-48-1	Y
trans-1,2-Dichloroethene	Not detected	90	9.9	ppbv	472	156-60-5	Y
cis-1,2-Dichloroethene	3,760	90	11	ppbv	472	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	90	9.4	ppbv	472	10061-01-5	Y
1,3-Dichlorobenzene	Not detected	90	9.4	ppbv	472	541-73-1	Y

J-Estimated value less than reporting limit, but greater than MDL

E-Concentration exceeds calibration range

Y-Elevated reporting limit due to high target concentration

B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S33701.03 (continued)

Sample Tag: 224121-SSB-147

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/15/22 22:32, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dichlorobenzene	Not detected	90	11	ppbv	472	95-50-1	Y
1,4-Dichlorobenzene	Not detected	90	9.0	ppbv	472	106-46-7	Y
trans-1,3-Dichloropropene	Not detected	90	6.1	ppbv	472	10061-02-6	Y
Ethanol*	Not detected	1,200	32	ppbv	472	64-17-5	Y
Ethylbenzene	Not detected	90	9.4	ppbv	472	100-41-4	Y
Ethyl Acetate*	Not detected	940	23	ppbv	472	141-78-6	Y
4-Ethyltoluene	Not detected	90	15	ppbv	472	622-96-8	Y
Freon 113	Not detected	90	11	ppbv	472	76-13-1	Y
Freon 114	Not detected	90	14	ppbv	472	76-14-2	Y
Heptane	Not detected	90	7.1	ppbv	472	142-82-5	Y
Hexachlorobutadiene	Not detected	90	14	ppbv	472	87-68-3	Y
Hexane	Not detected	90	9.0	ppbv	472	110-54-3	Y
2-Hexanone*	Not detected	200	9.9	ppbv	472	591-78-6	Y
Isopropyl Alcohol*	1,490	940	36	ppbv	472	67-63-0	Y
Methylene chloride	Not detected	200	65	ppbv	472	75-09-2	Y
2-Butanone (MEK)	Not detected	940	22	ppbv	472	78-93-3	Y
4-Methyl-2-pentanone (MIBK)	Not detected	200	8.0	ppbv	472	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	90	4.7	ppbv	472	1634-04-4	Y
Methyl methacrylate	Not detected	90	8.0	ppbv	472	80-62-6	Y
Naphthalene	4.7	90	4.7	ppbv	472	91-20-3	JYB
Propylene*	127	5,000	18	ppbv	472	115-07-1	JYB
Styrene	Not detected	90	7.1	ppbv	472	100-42-5	Y
1,1,1-Trichloroethane	18.9	90	8.0	ppbv	472	71-55-6	JY
1,1,2,2-Tetrachloroethane	Not detected	90	6.6	ppbv	472	79-34-5	Y
1,1,2-Trichloroethane	Not detected	90	7.1	ppbv	472	79-00-5	Y
1,2,4-Trichlorobenzene	Not detected	200	7.1	ppbv	472	120-82-1	Y
1,2,4-Trimethylbenzene	Not detected	90	14	ppbv	472	95-63-6	Y
1,3,5-Trimethylbenzene	Not detected	90	12	ppbv	472	108-67-8	Y
2,2,4-Trimethylpentane	Not detected	90	6.6	ppbv	472	540-84-1	Y
Tert-butyl Alcohol	Not detected	470	19	ppbv	472	75-65-0	Y
Tetrachloroethene	30,100	90	11	ppbv	472	127-18-4	Y
Tetrahydrofuran*	Not detected	90	14	ppbv	472	109-99-9	Y
Toluene	Not detected	90	6.1	ppbv	472	108-88-3	Y
Trichloroethene	12,400	90	11	ppbv	472	79-01-6	Y
Trichlorofluoromethane	Not detected	90	8.0	ppbv	472	75-69-4	Y
Vinyl chloride	Not detected	90	14	ppbv	472	75-01-4	Y
Vinyl acetate	Not detected	940	7.1	ppbv	472	108-05-4	Y
p,m-Xylene	Not detected	200	18	ppbv	472		Y
o-Xylene	Not detected	90	9.4	ppbv	472	95-47-6	Y
Total Xylenes	Not detected	300	27	ppbv	472	1330-20-7	Y

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/15/22 22:32, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	2,200	64	ug/m3	472	67-64-1	Y
1,3-Butadiene	Not detected	2,100	31	ug/m3	472	106-99-0	Y
Benzene	121	290	29	ug/m3	472	71-43-2	JY
Bromodichloromethane	Not detected	600	74	ug/m3	472	75-27-4	Y
Bromoform	Not detected	930	110	ug/m3	472	75-25-2	Y

Y-Elevated reporting limit due to high target concentration

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S33701.03 (continued)

Sample Tag: 224121-SSB-147

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/15/22 22:32, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Bromomethane	Not detected	350	62	ug/m3	472	74-83-9	Y
Vinyl bromide	Not detected	390	74	ug/m3	472	593-60-2	Y
Benzyl chloride	Not detected	470	72	ug/m3	472	100-44-7	Y
Carbon disulfide	620 ~~29~~	620	28	ug/m3	472	75-15-0	~~JYB~~ U
Chlorobenzene	Not detected	410	37	ug/m3	472	108-90-7	Y
Chloroethane	Not detected	2,500	58	ug/m3	472	75-00-3	Y
Chloroform	1,100	440	46	ug/m3	472	67-66-3	Y
Chloromethane	Not detected	1,900	39	ug/m3	472	74-87-3	Y
3-Chloropropene	Not detected	2,900	34	ug/m3	472	107-05-1	Y
2-Chlorotoluene	Not detected	470	57	ug/m3	472	95-49-8	Y
Carbon tetrachloride	Not detected	570	59	ug/m3	472	56-23-5	Y
Cyclohexane	Not detected	310	38	ug/m3	472	110-82-7	Y
1,1-Dichloroethane	Not detected	360	49	ug/m3	472	75-34-3	Y
1,1-Dichloroethene	Not detected	360	44	ug/m3	472	75-35-4	Y
1,2-Dibromoethane	Not detected	690	36	ug/m3	472	106-93-4	Y
1,2-Dichloroethane	Not detected	360	53	ug/m3	472	107-06-2	Y
1,2-Dichloropropane	Not detected	420	43	ug/m3	472	78-87-5	Y
1,4-Dioxane	Not detected	4,300	65	ug/m3	472	123-91-1	Y
Dichlorodifluoromethane	Not detected	450	59	ug/m3	472	75-71-8	Y
Dibromochloromethane	Not detected	770	68	ug/m3	472	124-48-1	Y
trans-1,2-Dichloroethene	Not detected	360	39	ug/m3	472	156-60-5	Y
cis-1,2-Dichloroethene	14,900	360	44	ug/m3	472	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	410	43	ug/m3	472	10061-01-5	Y
1,3-Dichlorobenzene	Not detected	540	57	ug/m3	472	541-73-1	Y
1,2-Dichlorobenzene	Not detected	540	66	ug/m3	472	95-50-1	Y
1,4-Dichlorobenzene	Not detected	540	54	ug/m3	472	106-46-7	Y
trans-1,3-Dichloropropene	Not detected	410	28	ug/m3	472	10061-02-6	Y
Ethanol*	Not detected	2,300	60	ug/m3	472	64-17-5	Y
Ethylbenzene	Not detected	390	41	ug/m3	472	100-41-4	Y
Ethyl Acetate*	Not detected	3,400	83	ug/m3	472	141-78-6	Y
4-Ethyltoluene	Not detected	440	74	ug/m3	472	622-96-8	Y
Freon 113	Not detected	690	84	ug/m3	472	76-13-1	Y
Freon 114	Not detected	630	98	ug/m3	472	76-14-2	Y
Heptane	Not detected	370	29	ug/m3	472	142-82-5	Y
Hexachlorobutadiene	Not detected	960	150	ug/m3	472	87-68-3	Y UJ
Hexane	Not detected	320	32	ug/m3	472	110-54-3	Y
2-Hexanone*	Not detected	820	41	ug/m3	472	591-78-6	Y
Isopropyl Alcohol*	3,660	2,300	88	ug/m3	472	67-63-0	Y
Methylene chloride	Not detected	690	230	ug/m3	472	75-09-2	Y
2-Butanone (MEK)	Not detected	2,800	65	ug/m3	472	78-93-3	Y
4-Methyl-2-pentanone (MIBK)	Not detected	820	33	ug/m3	472	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	320	17	ug/m3	472	1634-04-4	Y
Methyl methacrylate	Not detected	370	33	ug/m3	472	80-62-6	Y
Naphthalene	470 ~~25~~	470	25	ug/m3	472	91-20-3	~~JYB~~ U
Propylene*	8600 ~~219~~	8,600	31	ug/m3	472	115-07-1	~~JYB~~ U
Styrene	Not detected	380	30	ug/m3	472	100-42-5	Y
1,1,1-Trichloroethane	103	490	44	ug/m3	472	71-55-6	JY
1,1,2,2-Tetrachloroethane	Not detected	620	45	ug/m3	472	79-34-5	Y

Y-Elevated reporting limit due to high target concentration

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33701.03 (continued)

Sample Tag: 224121-SSB-147

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/15/22 22:32, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,1,2-Trichloroethane	Not detected	490	39	ug/m3	472	79-00-5	Y
1,2,4-Trichlorobenzene	Not detected	1,500	53	ug/m3	472	120-82-1	Y UJ
1,2,4-Trimethylbenzene	Not detected	440	69	ug/m3	472	95-63-6	Y
1,3,5-Trimethylbenzene	Not detected	440	59	ug/m3	472	108-67-8	Y
2,2,4-Trimethylpentane	Not detected	420	31	ug/m3	472	540-84-1	Y
Tert-butyl Alcohol	Not detected	1,400	58	ug/m3	472	75-65-0	Y
Tetrachloroethene	204,000	610	75	ug/m3	472	127-18-4	Y
Tetrahydrofuran*	Not detected	270	41	ug/m3	472	109-99-9	Y
Toluene	Not detected	340	23	ug/m3	472	108-88-3	Y
Trichloroethene	66,600	480	59	ug/m3	472	79-01-6	Y
Trichlorofluoromethane	Not detected	510	45	ug/m3	472	75-69-4	Y
Vinyl chloride	Not detected	230	36	ug/m3	472	75-01-4	Y
Vinyl acetate	Not detected	3,300	25	ug/m3	472	108-05-4	Y
p,m-Xylene	Not detected	870	78	ug/m3	472		Y
o-Xylene	Not detected	390	41	ug/m3	472	95-47-6	Y
Total Xylenes	Not detected	1,300	120	ug/m3	472	1330-20-7	Y

Y-Elevated reporting limit due to high target concentration

ALH 4/25/22



Analytical Laboratory Report

Lab Sample ID: S33701.04

Sample Tag: 224121-IAB-147

Collected Date/Time: 03/08/2022 08:21 - 03/08/2022 15:45

Matrix: Air

COC Reference: A5328

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-3	N/A	03/10/22 14:20	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/24/22 03:39, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	3.1	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.110	0.2	0.019	ppbv	1	71-43-2	J
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.020	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.020	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.330	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	13.5	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.2	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	0.080	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.190	0.2	0.032	ppbv	1	622-96-8	J

J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S33701.04 (continued)

Sample Tag: 224121-IAB-147

TO-15, Method: TO-15, Run Date: 03/24/22 03:39, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	Not detected	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.120	0.2	0.019	ppbv	1	110-54-3	J
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	5.6	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.23	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.200	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.050	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.030	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	Not detected	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.9	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.4	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.050	0.2	0.014	ppbv	1	540-84-1	JB
Tert-butyl Alcohol	Not detected	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	0.9	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.040	0.2	0.029	ppbv	1	109-99-9	J
Toluene	1.1	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	0.090	0.2	0.023	ppbv	1	79-01-6	J
Trichlorofluoromethane	0.150	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	1.0	0.4	0.038	ppbv	1		
o-Xylene	0.4	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	1.4	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/24/22 03:39, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	7.4	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	UJ
Benzene	0.351	0.64	0.061	ug/m3	1	71-43-2	J
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	1.6 ~~0.062~~	1.6	0.059	ug/m3	1	75-15-0	---J-U
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.098	0.98	0.098	ug/m3	1	67-66-3	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33701.04 (continued)

Sample Tag: 224121-IAB-147

TO-15, Method: TO-15, Run Date: 03/24/22 03:39, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	0.681	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	25.4	4.7	0.13	ug/m3	1	64-17-5	J
Ethylbenzene	0.87	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	0.29	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.934	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	Not detected	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	0.423	0.70	0.067	ug/m3	1	110-54-3	J
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	14	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.80	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	0.590	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.20	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.16~~	1.0	0.052	ug/m3	1	91-20-3	~~JB~~ U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	Not detected	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	4.4	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	2.0	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	0.23	0.93	0.065	ug/m3	1	540-84-1	JB
Tert-butyl Alcohol	Not detected	3.0	0.12	ug/m3	1	75-65-0	
Tetrachloroethene	6.1	1.4	0.16	ug/m3	1	127-18-4	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 4/25/22



Analytical Laboratory Report

Lab Sample ID: S33701.04 (continued)
Sample Tag: 224121-IAB-147

TO-15, Method: TO-15, Run Date: 03/24/22 03:39, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	0.12	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	4.1	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	0.48	1.1	0.12	ug/m3	1	79-01-6	J
Trichlorofluoromethane	0.843	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	4.3	1.7	0.16	ug/m3	1		
o-Xylene	1.7	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	6.1	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33701.05

Sample Tag: 224121-OA-147

Collected Date/Time: 03/08/2022 08:23 - 03/08/2022 15:46

Matrix: Air

COC Reference: A5328

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-2	N/A	03/10/22 14:20	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/14/22 15:41, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	4.2	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.140	0.2	0.019	ppbv	1	71-43-2	J
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.050	0.5	0.019	ppbv	1	75-15-0	JB
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.020	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.520	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.070	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	0.070	0.2	0.023	ppbv	1	156-59-2	J
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	8.5	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.6	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	0.140	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33701.05 (continued)

Sample Tag: 224121-OA-147

TO-15, Method: TO-15, Run Date: 03/14/22 15:41, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.040	0.2	0.032	ppbv	1	622-96-8	JB
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	Not detected	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.120	0.2	0.019	ppbv	1	110-54-3	J
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	2.7	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.30	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.290	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.110	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.020	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	Not detected	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.060	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.040	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	Not detected	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	0.9	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.040	0.2	0.029	ppbv	1	109-99-9	J
Toluene	3.1	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	0.130	0.2	0.023	ppbv	1	79-01-6	J
Trichlorofluoromethane	0.2	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	2.0	0.4	0.038	ppbv	1		
o-Xylene	0.6	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	2.6	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/14/22 15:41, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	10.0	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.447	0.64	0.061	ug/m3	1	71-43-2	J
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	1.6	0.16	0.059	ug/m3	1	75-15-0	JB-U
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.098	0.98	0.098	ug/m3	1	67-66-3	J

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

ALH 4/25/22

Lab Sample ID: S33701.05 (continued)

Sample Tag: 224121-OA-147

TO-15, Method: TO-15, Run Date: 03/14/22 15:41, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	1.07	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.44	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	0.28	0.79	0.091	ug/m3	1	156-59-2	J
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	16	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	2.6	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	0.505	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.98 ~~0.20~~	0.98	0.16	ug/m3	1	622-96-8	~~JB~~ U
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	Not detected	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	0.423	0.70	0.067	ug/m3	1	110-54-3	J
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	6.6	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	1.0	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	0.855	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.451	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.10~~	1.0	0.052	ug/m3	1	91-20-3	~~JB~~ U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	Not detected	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	UJ
1,2,4-Trimethylbenzene	0.29	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	0.19	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	Not detected	3.0	0.12	ug/m3	1	75-65-0	
Tetrachloroethene	6.1	1.4	0.16	ug/m3	1	127-18-4	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33701.05 (continued)
Sample Tag: 224121-OA-147

TO-15, Method: TO-15, Run Date: 03/14/22 15:41, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	0.12	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	12	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	0.699	1.1	0.12	ug/m3	1	79-01-6	J
Trichlorofluoromethane	1.1	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	8.7	1.7	0.16	ug/m3	1		
o-Xylene	2.6	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	11	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33701.06

Sample Tag: 224121-SS-148

Collected Date/Time: 03/08/2022 12:12 - 03/09/2022 11:46

Matrix: Air

COC Reference: A5328

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-2	N/A	03/10/22 14:20	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/14/22 16:11, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	60.7	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.5	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	2.1	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	65.2	2.0	0.046	ppbv	1	75-00-3	
Chloroform	1.5	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.100	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.6	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	2.6	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	2.4	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.5	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	0.050	0.2	0.023	ppbv	1	156-59-2	J
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.030	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	32.1	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.080	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	5.0	2.0	0.049	ppbv	1	141-78-6	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S33701.06 (continued)

Sample Tag: 224121-SS-148

TO-15, Method: TO-15, Run Date: 03/14/22 16:11, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	Not detected	0.3	0.032	ppbv	1	622-96-8	X
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	Not detected	1.6	0.015	ppbv	1	142-82-5	X
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	3.9	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	0.460	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	12.5	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.28	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	12.0	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.6	0.017	ppbv	1	80-62-6	X
Naphthalene	0.090	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	Not detected	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.070	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	3.5	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	2.0	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	0.5	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.190	0.2	0.029	ppbv	1	109-99-9	J
Toluene	0.8	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	0.8	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.3	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	5.7	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	23.2	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.260	0.4	0.038	ppbv	1		J
o-Xylene	0.100	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.360	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/14/22 16:11, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	144	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	1.6	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	6.5	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

X-Elevated reporting limit due to matrix interference

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33701.06 (continued)

Sample Tag: 224121-SS-148

TO-15, Method: TO-15, Run Date: 03/14/22 16:11, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	172	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	7.3	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.629	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	2.1	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	11	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	9.7	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.5	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	0.20	0.79	0.091	ug/m3	1	156-59-2	J
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 0.18---	1.2	0.11	ug/m3	1	106-46-7	--JB-- U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	60.5	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.35	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	18	7.2	0.18	ug/m3	1	141-78-6	
4-Ethyltoluene	Not detected	1.5	0.16	ug/m3	1	622-96-8	X
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	Not detected	6.6	0.061	ug/m3	1	142-82-5	X
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	14	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	1.88	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	30.7	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.97	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	35.4	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	2.5	0.070	ug/m3	1	80-62-6	X
Naphthalene	1.0 0.47--	1.0	0.052	ug/m3	1	91-20-3	--JB-- U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	Not detected	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	UJ
1,2,4-Trimethylbenzene	0.34	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference

ALH 4/25/22



Analytical Laboratory Report

Lab Sample ID: S33701.06 (continued)
Sample Tag: 224121-SS-148

TO-15, Method: TO-15, Run Date: 03/14/22 16:11, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2,2,4-Trimethylpentane	16	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	6.1	3.0	0.12	ug/m3	1	75-65-0	
Tetrachloroethene	3.4	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	0.560	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	3.0	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	4.3	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.7	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	15	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	81.7	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.13	1.7	0.16	ug/m3	1		J
o-Xylene	0.434	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	1.56	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33701.07

Sample Tag: 224121-IA-148

Collected Date/Time: 03/08/2022 12:14 - 03/09/2022 11:45

Matrix: Air

COC Reference: A5328

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-2	N/A	03/10/22 14:20	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/14/22 16:41, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	9.7	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.2	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.220	0.5	0.019	ppbv	1	75-15-0	JB
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.6	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	0.580	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.100	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.070	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.180	0.2	0.028	ppbv	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.9	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	956.9	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.130	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	2.8	2.0	0.049	ppbv	1	141-78-6	
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Lab Sample ID: S33701.07 (continued)

Sample Tag: 224121-IA-148

TO-15, Method: TO-15, Run Date: 03/14/22 16:41, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.2	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	Not detected	0.6	0.019	ppbv	1	110-54-3	X
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	8.1	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.32	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	3.5	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	0.060	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.180	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.060	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.160	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.060	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.100	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	0.340	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.3	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.060	0.2	0.029	ppbv	1	109-99-9	J
Toluene	1.1	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	0.060	0.2	0.023	ppbv	1	79-01-6	J
Trichlorofluoromethane	0.180	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.4	0.4	0.038	ppbv	1		
o-Xylene	0.170	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.6	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/14/22 16:41, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	23	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.64	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	1.6 ~~0.685~~	1.6	0.059	ug/m3	1	75-15-0	JB ~~U~~
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S33701.07 (continued)

Sample Tag: 224121-IA-148

TO-15, Method: TO-15, Run Date: 03/14/22 16:41, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	2.9	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	1.20	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.629	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.24	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	0.729	0.81	0.11	ug/m3	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	5.4	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	1,803	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.564	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	10	7.2	0.18	ug/m3	1	141-78-6	
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	0.82	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	Not detected	2.1	0.067	ug/m3	1	110-54-3	X
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	20	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	1.1	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	10	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	0.25	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.944~~	1.0	0.052	ug/m3	1	91-20-3	~~JB~~ U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.26	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	UJ
1,2,4-Trimethylbenzene	0.787	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.29	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	0.467	0.93	0.065	ug/m3	1	540-84-1	J

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33701.07 (continued)
Sample Tag: 224121-IA-148

TO-15, Method: TO-15, Run Date: 03/14/22 16:41, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	1.03	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	2.0	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	0.18	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	4.1	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	0.32	1.1	0.12	ug/m3	1	79-01-6	J
Trichlorofluoromethane	1.01	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.7	1.7	0.16	ug/m3	1		
o-Xylene	0.738	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	2.6	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33701.08

Sample Tag: 224121-OA-148

Collected Date/Time: 03/08/2022 12:18 - 03/09/2022 11:46

Matrix: Air

COC Reference: A5328

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	0	N/A	03/10/22 14:20	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/14/22 17:12, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	3.3	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.2	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.160	0.5	0.019	ppbv	1	75-15-0	JB
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.020	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.520	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.070	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.020	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	9.3	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.080	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.200	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.080	0.2	0.032	ppbv	1	622-96-8	JB

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S33701.08 (continued)

Sample Tag: 224121-OA-148

TO-15, Method: TO-15, Run Date: 03/14/22 17:12, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	Not detected	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.160	0.2	0.019	ppbv	1	110-54-3	J
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	1.890	2.0	0.076	ppbv	1	67-63-0	J
Methylene chloride	0.23	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.290	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.030	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.020	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	Not detected	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.110	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.040	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.090	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	Not detected	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	0.160	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.6	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	0.040	0.2	0.023	ppbv	1	79-01-6	J
Trichlorofluoromethane	0.190	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.290	0.4	0.038	ppbv	1		J
o-Xylene	0.100	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.390	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/14/22 17:12, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	7.8	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.64	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	1.6 0.498	1.6	0.059	ug/m3	1	75-15-0	JB U
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.098	0.98	0.098	ug/m3	1	67-66-3	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33701.08 (continued)

Sample Tag: 224121-OA-148

TO-15, Method: TO-15, Run Date: 03/14/22 17:12, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	1.07	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.44	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 ~~0.12~~	1.2	0.11	ug/m3	1	106-46-7	--JB-U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	18	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.35	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	0.721	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.98 ~~0.39~~	0.98	0.16	ug/m3	1	622-96-8	-JB-U
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	Not detected	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	0.564	0.70	0.067	ug/m3	1	110-54-3	J
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	4.646	4.9	0.19	ug/m3	1	67-63-0	J
Methylene chloride	0.80	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	0.855	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.12	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.10~~	1.0	0.052	ug/m3	1	91-20-3	-JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	Not detected	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	UJ
1,2,4-Trimethylbenzene	0.541	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.20	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	0.42	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	Not detected	3.0	0.12	ug/m3	1	75-65-0	
Tetrachloroethene	1.09	1.4	0.16	ug/m3	1	127-18-4	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 4/25/22



Analytical Laboratory Report

Lab Sample ID: S33701.08 (continued)
Sample Tag: 224121-OA-148

TO-15, Method: TO-15, Run Date: 03/14/22 17:12, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	2.3	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	0.21	1.1	0.12	ug/m3	1	79-01-6	J
Trichlorofluoromethane	1.07	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.26	1.7	0.16	ug/m3	1		J
o-Xylene	0.434	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	1.69	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33701.09

Sample Tag: 224121-SSA-149

Collected Date/Time: 03/09/2022 07:50 - 03/09/2022 14:48

Matrix: Air

COC Reference: A5328

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-4	N/A	03/10/22 14:20	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/14/22 17:42, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	9.7	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.7	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.300	0.5	0.019	ppbv	1	75-15-0	JB
Chlorobenzene	0.040	0.2	0.017	ppbv	1	108-90-7	J
Chloroethane	17.1	2.0	0.046	ppbv	1	75-00-3	
Chloroform	3.3	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.5	0.2	0.020	ppbv	1	56-23-5	
Cyclohexane	0.2	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	1.1	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.4	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	1.3	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	0.7	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.060	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	6.3	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.070	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.550	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33701.09 (continued)

Sample Tag: 224121-SSA-149

TO-15, Method: TO-15, Run Date: 03/14/22 17:42, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	1.9	0.2	0.024	ppbv	1	76-13-1	
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.4	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.9	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	0.150	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	0.660	2.0	0.076	ppbv	1	67-63-0	J
Methylene chloride	0.22	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	3.1	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	0.090	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.080	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	1.680	10	0.038	ppbv	1	115-07-1	JB
Styrene	Not detected	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	119.1	0.2	0.017	ppbv	1	71-55-6	E
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.2	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.090	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.8	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.440	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	531.7	0.2	0.024	ppbv	1	127-18-4	E
Tetrahydrofuran*	0.4	0.2	0.029	ppbv	1	109-99-9	
Toluene	3.0	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	756.8	0.2	0.023	ppbv	1	79-01-6	E
Trichlorofluoromethane	0.190	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	1.8	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	1.190	2.0	0.015	ppbv	1	108-05-4	J
p,m-Xylene	0.300	0.4	0.038	ppbv	1		J
o-Xylene	0.100	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.400	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/14/22 17:42, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	23	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	2.2	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	1.6 ~~0.934~~	1.6	0.059	ug/m3	1	75-15-0	JB U
Chlorobenzene	0.18	0.92	0.078	ug/m3	1	108-90-7	J
Chloroethane	45.1	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

E-Concentration exceeds calibration range

ALH 4/25/22



Analytical Laboratory Report

Lab Sample ID: S33701.09 (continued)

Sample Tag: 224121-SSA-149

TO-15, Method: TO-15, Run Date: 03/14/22 17:42, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	16	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	3.1	1.3	0.13	ug/m3	1	56-23-5	
Cyclohexane	0.69	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	4.5	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	1.6	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	5.2	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	2.8	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 0.36---	1.2	0.11	ug/m3	1	106-46-7	--JB-- U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	12	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.30	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	1.98	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	15	1.5	0.18	ug/m3	1	76-13-1	
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	1.6	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	3.2	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	0.614	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	1.62	4.9	0.19	ug/m3	1	67-63-0	J
Methylene chloride	0.76	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	9.1	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	0.37	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 0.42---	1.0	0.052	ug/m3	1	91-20-3	--JB-- U
Propylene*	17 2.891---	17	0.065	ug/m3	1	115-07-1	--JB-- U
Styrene	Not detected	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	649.8	1.1	0.093	ug/m3	1	71-55-6	--E-- J
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	UJ
1,2,4-Trimethylbenzene	0.98	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	0.44	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	3.7	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	1.33	3.0	0.12	ug/m3	1	75-65-0	J

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

E-Concentration exceeds calibration range

ALH 4/25/22



Analytical Laboratory Report

Lab Sample ID: S33701.09 (continued)

Sample Tag: 224121-SSA-149

TO-15, Method: TO-15, Run Date: 03/14/22 17:42, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrachloroethene	3,606	1.4	0.16	ug/m3	1	127-18-4	---E---J
Tetrahydrofuran*	1.2	0.59	0.086	ug/m3	1	109-99-9	
Toluene	11	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	4,067	1.1	0.12	ug/m3	1	79-01-6	---E---J
Trichlorofluoromethane	1.07	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	4.6	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	4.190	7.0	0.053	ug/m3	1	108-05-4	J
p,m-Xylene	1.30	1.7	0.16	ug/m3	1		J
o-Xylene	0.434	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	1.74	2.6	0.25	ug/m3	1	1330-20-7	J

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/29/22 11:37, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	32.0	320	9.3	ppbv	160	67-64-1	JY
1,3-Butadiene	Not detected	320	4.6	ppbv	160	106-99-0	Y
Benzene	Not detected	30	3.0	ppbv	160	71-43-2	Y
Bromodichloromethane	Not detected	30	3.7	ppbv	160	75-27-4	Y
Bromoform	Not detected	30	3.7	ppbv	160	75-25-2	Y
Bromomethane	Not detected	30	5.3	ppbv	160	74-83-9	Y
Vinyl bromide	Not detected	30	5.6	ppbv	160	593-60-2	Y
Benzyl chloride	Not detected	30	4.6	ppbv	160	100-44-7	Y
Carbon disulfide	540	80	3.0	ppbv	160	75-15-0	YB
Chlorobenzene	Not detected	30	2.7	ppbv	160	108-90-7	Y
Chloroethane	25.6	320	7.4	ppbv	160	75-00-3	JY
Chloroform	6.4	30	3.2	ppbv	160	67-66-3	JY
Chloromethane	Not detected	320	6.4	ppbv	160	74-87-3	Y
3-Chloropropene	Not detected	320	3.8	ppbv	160	107-05-1	Y
2-Chlorotoluene	Not detected	30	3.8	ppbv	160	95-49-8	Y
Carbon tetrachloride	Not detected	30	3.2	ppbv	160	56-23-5	Y
Cyclohexane	Not detected	30	3.8	ppbv	160	110-82-7	Y
1,1-Dichloroethane	Not detected	30	4.0	ppbv	160	75-34-3	Y
1,1-Dichloroethene	Not detected	30	3.8	ppbv	160	75-35-4	Y
1,2-Dibromoethane	Not detected	30	1.6	ppbv	160	106-93-4	Y
1,2-Dichloroethane	Not detected	30	4.5	ppbv	160	107-06-2	Y
1,2-Dichloropropane	Not detected	30	3.2	ppbv	160	78-87-5	Y
1,4-Dioxane	Not detected	400	6.1	ppbv	160	123-91-1	Y
Dichlorodifluoromethane	Not detected	30	4.2	ppbv	160	75-71-8	Y
Dibromochloromethane	Not detected	30	2.7	ppbv	160	124-48-1	Y
trans-1,2-Dichloroethene	Not detected	30	3.4	ppbv	160	156-60-5	Y
cis-1,2-Dichloroethene	Not detected	30	3.7	ppbv	160	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	30	3.2	ppbv	160	10061-01-5	Y
1,3-Dichlorobenzene	Not detected	30	3.2	ppbv	160	541-73-1	Y
1,2-Dichlorobenzene	Not detected	30	3.8	ppbv	160	95-50-1	Y
1,4-Dichlorobenzene	Not detected	30	3.0	ppbv	160	106-46-7	Y
trans-1,3-Dichloropropene	Not detected	30	2.1	ppbv	160	10061-02-6	Y
Ethanol*	Not detected	400	11	ppbv	160	64-17-5	Y

E-Concentration exceeds calibration range

J-Estimated value less than reporting limit, but greater than MDL

Y-Elevated reporting limit due to high target concentration

B-Compound also found in associated method blank

ALH 4/25/22



Analytical Laboratory Report

Lab Sample ID: S33701.09 (continued)

Sample Tag: 224121-SSA-149

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/29/22 11:37, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Ethylbenzene	Not detected	30	3.2	ppbv	160	100-41-4	Y
Ethyl Acetate*	Not detected	320	7.8	ppbv	160	141-78-6	Y
4-Ethyltoluene	Not detected	30	5.1	ppbv	160	622-96-8	Y
Freon 113	Not detected	30	3.8	ppbv	160	76-13-1	Y
Freon 114	Not detected	30	4.6	ppbv	160	76-14-2	Y
Heptane	Not detected	30	2.4	ppbv	160	142-82-5	Y
Hexachlorobutadiene	Not detected	30	4.6	ppbv	160	87-68-3	Y
Hexane	Not detected	30	3.0	ppbv	160	110-54-3	Y
2-Hexanone*	Not detected	80	3.4	ppbv	160	591-78-6	Y
Isopropyl Alcohol*	Not detected	320	12	ppbv	160	67-63-0	Y
Methylene chloride	Not detected	80	22	ppbv	160	75-09-2	Y
2-Butanone (MEK)	Not detected	320	7.4	ppbv	160	78-93-3	Y
4-Methyl-2-pentanone (MIBK)	Not detected	80	2.7	ppbv	160	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	30	1.6	ppbv	160	1634-04-4	Y
Methyl methacrylate	Not detected	30	2.7	ppbv	160	80-62-6	Y
Naphthalene	1.6	30	1.6	ppbv	160	91-20-3	JYB
Propylene*	48.0	2,000	6.1	ppbv	160	115-07-1	JYB
Styrene	Not detected	30	2.4	ppbv	160	100-42-5	Y
1,1,1-Trichloroethane	210	30	2.7	ppbv	160	71-55-6	Y
1,1,2,2-Tetrachloroethane	Not detected	30	2.2	ppbv	160	79-34-5	Y
1,1,2-Trichloroethane	Not detected	30	2.4	ppbv	160	79-00-5	Y
1,2,4-Trichlorobenzene	Not detected	80	2.4	ppbv	160	120-82-1	Y
1,2,4-Trimethylbenzene	Not detected	30	4.6	ppbv	160	95-63-6	Y
1,3,5-Trimethylbenzene	Not detected	30	4.0	ppbv	160	108-67-8	Y
2,2,4-Trimethylpentane	Not detected	30	2.2	ppbv	160	540-84-1	Y
Tert-butyl Alcohol	Not detected	160	6.6	ppbv	160	75-65-0	Y
Tetrachloroethene	980	30	3.8	ppbv	160	127-18-4	Y
Tetrahydrofuran*	Not detected	30	4.6	ppbv	160	109-99-9	Y
Toluene	3.2	30	2.1	ppbv	160	108-88-3	JY
Trichloroethene	1,490	30	3.7	ppbv	160	79-01-6	Y
Trichlorofluoromethane	Not detected	30	2.7	ppbv	160	75-69-4	Y
Vinyl chloride	Not detected	30	4.6	ppbv	160	75-01-4	Y
Vinyl acetate	Not detected	320	2.4	ppbv	160	108-05-4	Y
p,m-Xylene	Not detected	60	6.1	ppbv	160		Y
o-Xylene	Not detected	30	3.2	ppbv	160	95-47-6	Y
Total Xylenes	Not detected	100	9.3	ppbv	160	1330-20-7	Y

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/29/22 11:37, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	76.0	760	22	ug/m3	160	67-64-1	JY
1,3-Butadiene	Not detected	710	10	ug/m3	160	106-99-0	Y
Benzene	Not detected	96	9.6	ug/m3	160	71-43-2	Y
Bromodichloromethane	Not detected	200	25	ug/m3	160	75-27-4	Y
Bromoform	Not detected	310	38	ug/m3	160	75-25-2	Y
Bromomethane	Not detected	120	21	ug/m3	160	74-83-9	Y
Vinyl bromide	Not detected	130	24	ug/m3	160	593-60-2	Y
Benzyl chloride	Not detected	160	24	ug/m3	160	100-44-7	Y
Carbon disulfide	1,700	250	9.3	ug/m3	160	75-15-0	YB J

Y-Elevated reporting limit due to high target concentration

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

ALH 4/25/22

Lab Sample ID: S33701.09 (continued)

Sample Tag: 224121-SSA-149

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/29/22 11:37, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	140	12	ug/m3	160	108-90-7	Y
Chloroethane	67.5	840	20	ug/m3	160	75-00-3	JY
Chloroform	31	150	16	ug/m3	160	67-66-3	JY
Chloromethane	Not detected	660	13	ug/m3	160	74-87-3	Y
3-Chloropropene	Not detected	1,000	12	ug/m3	160	107-05-1	Y
2-Chlorotoluene	Not detected	160	20	ug/m3	160	95-49-8	Y
Carbon tetrachloride	Not detected	190	20	ug/m3	160	56-23-5	Y
Cyclohexane	Not detected	100	13	ug/m3	160	110-82-7	Y
1,1-Dichloroethane	Not detected	120	16	ug/m3	160	75-34-3	Y
1,1-Dichloroethene	Not detected	120	15	ug/m3	160	75-35-4	Y
1,2-Dibromoethane	Not detected	230	12	ug/m3	160	106-93-4	Y
1,2-Dichloroethane	Not detected	120	18	ug/m3	160	107-06-2	Y
1,2-Dichloropropane	Not detected	140	15	ug/m3	160	78-87-5	Y
1,4-Dioxane	Not detected	1,400	22	ug/m3	160	123-91-1	Y
Dichlorodifluoromethane	Not detected	150	21	ug/m3	160	75-71-8	Y
Dibromochloromethane	Not detected	260	23	ug/m3	160	124-48-1	Y
trans-1,2-Dichloroethene	Not detected	120	13	ug/m3	160	156-60-5	Y
cis-1,2-Dichloroethene	Not detected	120	15	ug/m3	160	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	140	15	ug/m3	160	10061-01-5	Y
1,3-Dichlorobenzene	Not detected	180	19	ug/m3	160	541-73-1	Y
1,2-Dichlorobenzene	Not detected	180	23	ug/m3	160	95-50-1	Y
1,4-Dichlorobenzene	Not detected	180	18	ug/m3	160	106-46-7	Y
trans-1,3-Dichloropropene	Not detected	140	9.5	ug/m3	160	10061-02-6	Y
Ethanol*	Not detected	750	21	ug/m3	160	64-17-5	Y
Ethylbenzene	Not detected	130	14	ug/m3	160	100-41-4	Y
Ethyl Acetate*	Not detected	1,200	28	ug/m3	160	141-78-6	Y
4-Ethyltoluene	Not detected	150	25	ug/m3	160	622-96-8	Y
Freon 113	Not detected	230	29	ug/m3	160	76-13-1	Y
Freon 114	Not detected	210	32	ug/m3	160	76-14-2	Y
Heptane	Not detected	120	9.8	ug/m3	160	142-82-5	Y
Hexachlorobutadiene	Not detected	320	49	ug/m3	160	87-68-3	Y
Hexane	Not detected	110	11	ug/m3	160	110-54-3	Y
2-Hexanone*	Not detected	330	14	ug/m3	160	591-78-6	Y
Isopropyl Alcohol*	Not detected	790	29	ug/m3	160	67-63-0	Y
Methylene chloride	Not detected	280	76	ug/m3	160	75-09-2	Y
2-Butanone (MEK)	Not detected	940	22	ug/m3	160	78-93-3	Y
4-Methyl-2-pentanone (MIBK)	Not detected	330	11	ug/m3	160	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	110	5.8	ug/m3	160	1634-04-4	Y
Methyl methacrylate	Not detected	120	11	ug/m3	160	80-62-6	Y
Naphthalene	160 8.4	160	8.4	ug/m3	160	91-20-3	JYB U
Propylene*	3400 82.6	3,400	10	ug/m3	160	115-07-1	JYB U
Styrene	Not detected	130	10	ug/m3	160	100-42-5	Y
1,1,1-Trichloroethane	1,100	160	15	ug/m3	160	71-55-6	Y
1,1,2,2-Tetrachloroethane	Not detected	210	15	ug/m3	160	79-34-5	Y
1,1,2-Trichloroethane	Not detected	160	13	ug/m3	160	79-00-5	Y
1,2,4-Trichlorobenzene	Not detected	590	18	ug/m3	160	120-82-1	Y
1,2,4-Trimethylbenzene	Not detected	150	23	ug/m3	160	95-63-6	Y

Y-Elevated reporting limit due to high target concentration

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33701.09 (continued)
Sample Tag: 224121-SSA-149

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/29/22 11:37, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,3,5-Trimethylbenzene	Not detected	150	20	ug/m3	160	108-67-8	Y
2,2,4-Trimethylpentane	Not detected	140	10	ug/m3	160	540-84-1	Y
Tert-butyl Alcohol	Not detected	490	20	ug/m3	160	75-65-0	Y
Tetrachloroethene	6,600	200	26	ug/m3	160	127-18-4	Y
Tetrahydrofuran*	Not detected	88	14	ug/m3	160	109-99-9	Y
Toluene	12	110	7.9	ug/m3	160	108-88-3	JY
Trichloroethene	8,010	160	20	ug/m3	160	79-01-6	Y
Trichlorofluoromethane	Not detected	170	15	ug/m3	160	75-69-4	Y
Vinyl chloride	Not detected	77	12	ug/m3	160	75-01-4	Y
Vinyl acetate	Not detected	1,100	8.5	ug/m3	160	108-05-4	Y
p,m-Xylene	Not detected	260	26	ug/m3	160		Y
o-Xylene	Not detected	130	14	ug/m3	160	95-47-6	Y
Total Xylenes	Not detected	430	40	ug/m3	160	1330-20-7	Y

Y-Elevated reporting limit due to high target concentration
J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33701.10

Sample Tag: 224121-IAA-149

Collected Date/Time: 03/09/2022 07:51 - 03/09/2022 14:48

Matrix: Air

COC Reference: A5328

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-6	N/A	03/10/22 14:20	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/14/22 19:04, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	437.8	2.0	0.058	ppbv	1	67-64-1	E
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.5	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.300	0.5	0.019	ppbv	1	75-15-0	JB
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.050	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.570	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.070	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	22.4	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.5	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	0.450	2.0	0.049	ppbv	1	141-78-6	J

E-Concentration exceeds calibration range

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Lab Sample ID: S33701.10 (continued)

Sample Tag: 224121-IAA-149

TO-15, Method: TO-15, Run Date: 03/14/22 19:04, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.8	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.2	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	Not detected	0.8	0.019	ppbv	1	110-54-3	X
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	4.0	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.49	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	2.6	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	0.180	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	0.120	0.2	0.017	ppbv	1	80-62-6	J
Naphthalene	0.060	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.120	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	0.100	0.2	0.017	ppbv	1	71-55-6	J
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	4.0	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	1.1	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.180	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	0.860	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	19.0	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	18.3	0.2	0.029	ppbv	1	109-99-9	
Toluene	201.3	0.2	0.013	ppbv	1	108-88-3	E
Trichloroethene	0.3	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.190	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	1.7	0.4	0.038	ppbv	1		
o-Xylene	0.7	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	2.4	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/14/22 19:04, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	1,040	4.8	0.14	ug/m3	1	67-64-1	E ^J
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	1.6	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	1.6 ~~-0.934~~	1.6	0.059	ug/m3	1	75-15-0	JB ^{-U}

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

E-Concentration exceeds calibration range



Analytical Laboratory Report

Lab Sample ID: S33701.10 (continued)

Sample Tag: 224121-IAA-149

TO-15, Method: TO-15, Run Date: 03/14/22 19:04, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.24	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	1.18	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.44	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	42.2	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	2.2	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	1.62	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	3.9	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	0.82	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	Not detected	2.8	0.067	ug/m3	1	110-54-3	X
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	9.8	0.19	ug/m3	1	67-63-0	X
Methylene chloride	1.7	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	7.7	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	0.737	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	0.491	0.82	0.070	ug/m3	1	80-62-6	J
Naphthalene	1.0 ~~0.31~~	1.0	0.052	ug/m3	1	91-20-3	~~JB~~ U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.511	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	0.546	1.1	0.093	ug/m3	1	71-55-6	J
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	UJ
1,2,4-Trimethylbenzene	20	0.98	0.14	ug/m3	1	95-63-6	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

ALH 4/25/22

Lab Sample ID: S33701.10 (continued)

Sample Tag: 224121-IAA-149

TO-15, Method: TO-15, Run Date: 03/14/22 19:04, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,3,5-Trimethylbenzene	5.4	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	0.841	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	2.61	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	129	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	54.0	0.59	0.086	ug/m3	1	109-99-9	
Toluene	758.6	0.75	0.049	ug/m3	1	108-88-3	--E-J
Trichloroethene	1.6	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.07	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	7.4	1.7	0.16	ug/m3	1		
o-Xylene	3.0	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	10	2.6	0.25	ug/m3	1	1330-20-7	

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/28/22 20:06, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	370	20	0.58	ppbv	10	67-64-1	Y
1,3-Butadiene	Not detected	20	0.29	ppbv	10	106-99-0	Y
Benzene	0.30	2	0.19	ppbv	10	71-43-2	JY
Bromodichloromethane	Not detected	2	0.23	ppbv	10	75-27-4	Y
Bromoform	Not detected	2	0.23	ppbv	10	75-25-2	Y
Bromomethane	Not detected	2	0.33	ppbv	10	74-83-9	Y
Vinyl bromide	Not detected	2	0.35	ppbv	10	593-60-2	Y
Benzyl chloride	Not detected	2	0.29	ppbv	10	100-44-7	Y
Carbon disulfide	33	5	0.19	ppbv	10	75-15-0	YB
Chlorobenzene	Not detected	2	0.17	ppbv	10	108-90-7	Y
Chloroethane	Not detected	20	0.46	ppbv	10	75-00-3	Y
Chloroform	Not detected	2	0.20	ppbv	10	67-66-3	Y
Chloromethane	Not detected	20	0.40	ppbv	10	74-87-3	Y
3-Chloropropene	Not detected	20	0.24	ppbv	10	107-05-1	Y
2-Chlorotoluene	Not detected	2	0.24	ppbv	10	95-49-8	Y
Carbon tetrachloride	Not detected	2	0.20	ppbv	10	56-23-5	Y
Cyclohexane	Not detected	2	0.24	ppbv	10	110-82-7	Y
1,1-Dichloroethane	Not detected	2	0.25	ppbv	10	75-34-3	Y
1,1-Dichloroethene	Not detected	2	0.24	ppbv	10	75-35-4	Y
1,2-Dibromoethane	Not detected	2	0.10	ppbv	10	106-93-4	Y
1,2-Dichloroethane	Not detected	2	0.28	ppbv	10	107-06-2	Y
1,2-Dichloropropane	Not detected	2	0.20	ppbv	10	78-87-5	Y
1,4-Dioxane	Not detected	25	0.38	ppbv	10	123-91-1	Y
Dichlorodifluoromethane	0.30	2	0.26	ppbv	10	75-71-8	JY
Dibromochloromethane	Not detected	2	0.17	ppbv	10	124-48-1	Y
trans-1,2-Dichloroethene	Not detected	2	0.21	ppbv	10	156-60-5	Y
cis-1,2-Dichloroethene	Not detected	2	0.23	ppbv	10	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	2	0.20	ppbv	10	10061-01-5	Y
1,3-Dichlorobenzene	Not detected	2	0.20	ppbv	10	541-73-1	Y
1,2-Dichlorobenzene	Not detected	2	0.24	ppbv	10	95-50-1	Y

J-Estimated value less than reporting limit, but greater than MDL

E-Concentration exceeds calibration range

Y-Elevated reporting limit due to high target concentration

B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S33701.10 (continued)

Sample Tag: 224121-IAA-149

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/28/22 20:06, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,4-Dichlorobenzene	Not detected	2	0.19	ppbv	10	106-46-7	Y
trans-1,3-Dichloropropene	Not detected	2	0.13	ppbv	10	10061-02-6	Y
Ethanol*	19.00	25	0.68	ppbv	10	64-17-5	JY
Ethylbenzene	0.40	2	0.20	ppbv	10	100-41-4	JY
Ethyl Acetate*	Not detected	20	0.49	ppbv	10	141-78-6	Y
4-Ethyltoluene	0.60	2	0.32	ppbv	10	622-96-8	JY
Freon 113	Not detected	2	0.24	ppbv	10	76-13-1	Y
Freon 114	0.40	2	0.29	ppbv	10	76-14-2	JY
Heptane	Not detected	2	0.15	ppbv	10	142-82-5	Y
Hexachlorobutadiene	Not detected	2	0.29	ppbv	10	87-68-3	Y
Hexane	Not detected	2	0.19	ppbv	10	110-54-3	Y
2-Hexanone*	Not detected	5	0.21	ppbv	10	591-78-6	Y
Isopropyl Alcohol*	Not detected	20	0.76	ppbv	10	67-63-0	Y
Methylene chloride	Not detected	5	1.4	ppbv	10	75-09-2	Y
2-Butanone (MEK)	1.90	20	0.46	ppbv	10	78-93-3	JY
4-Methyl-2-pentanone (MIBK)	Not detected	5	0.17	ppbv	10	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	2	0.10	ppbv	10	1634-04-4	Y
Methyl methacrylate	Not detected	2	0.17	ppbv	10	80-62-6	Y
Naphthalene	0.30	2	0.10	ppbv	10	91-20-3	JYB
Propylene*	Not detected	100	0.38	ppbv	10	115-07-1	Y
Styrene	Not detected	2	0.15	ppbv	10	100-42-5	Y
1,1,1-Trichloroethane	Not detected	2	0.17	ppbv	10	71-55-6	Y
1,1,2,2-Tetrachloroethane	Not detected	2	0.14	ppbv	10	79-34-5	Y
1,1,2-Trichloroethane	Not detected	2	0.15	ppbv	10	79-00-5	Y
1,2,4-Trichlorobenzene	0.20	5	0.15	ppbv	10	120-82-1	JYB
1,2,4-Trimethylbenzene	2	2	0.29	ppbv	10	95-63-6	Y
1,3,5-Trimethylbenzene	0.60	2	0.25	ppbv	10	108-67-8	JY
2,2,4-Trimethylpentane	Not detected	2	0.14	ppbv	10	540-84-1	Y
Tert-butyl Alcohol	0.60	10	0.41	ppbv	10	75-65-0	JY
Tetrachloroethene	17	2	0.24	ppbv	10	127-18-4	Y
Tetrahydrofuran*	12	2	0.29	ppbv	10	109-99-9	Y
Toluene	136	2	0.13	ppbv	10	108-88-3	Y
Trichloroethene	0.30	2	0.23	ppbv	10	79-01-6	JY
Trichlorofluoromethane	Not detected	2	0.17	ppbv	10	75-69-4	Y
Vinyl chloride	Not detected	2	0.29	ppbv	10	75-01-4	Y
Vinyl acetate	Not detected	20	0.15	ppbv	10	108-05-4	Y
p,m-Xylene	1.20	4	0.38	ppbv	10		JY
o-Xylene	0.60	2	0.20	ppbv	10	95-47-6	JY
Total Xylenes	1.80	6	0.58	ppbv	10	1330-20-7	JY

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/28/22 20:06, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	880	48	1.4	ug/m3	10	67-64-1	Y
1,3-Butadiene	Not detected	44	0.64	ug/m3	10	106-99-0	Y
Benzene	0.96	6.4	0.61	ug/m3	10	71-43-2	JY
Bromodichloromethane	Not detected	13	1.5	ug/m3	10	75-27-4	Y
Bromoform	Not detected	21	2.4	ug/m3	10	75-25-2	Y

Y-Elevated reporting limit due to high target concentration

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S33701.10 (continued)

Sample Tag: 224121-IAA-149

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/28/22 20:06, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Bromomethane	Not detected	7.8	1.3	ug/m3	10	74-83-9	Y
Vinyl bromide	Not detected	8.7	1.5	ug/m3	10	593-60-2	Y
Benzyl chloride	Not detected	10	1.5	ug/m3	10	100-44-7	Y
Carbon disulfide	100	16	0.59	ug/m3	10	75-15-0	~~YB~~ ---UJ
Chlorobenzene	Not detected	9.2	0.78	ug/m3	10	108-90-7	Y
Chloroethane	Not detected	53	1.2	ug/m3	10	75-00-3	Y
Chloroform	Not detected	9.8	0.98	ug/m3	10	67-66-3	Y
Chloromethane	Not detected	41	0.83	ug/m3	10	74-87-3	Y
3-Chloropropene	Not detected	63	0.75	ug/m3	10	107-05-1	Y
2-Chlorotoluene	Not detected	10	1.2	ug/m3	10	95-49-8	Y
Carbon tetrachloride	Not detected	13	1.3	ug/m3	10	56-23-5	Y
Cyclohexane	Not detected	6.9	0.83	ug/m3	10	110-82-7	Y
1,1-Dichloroethane	Not detected	8.1	1.0	ug/m3	10	75-34-3	Y
1,1-Dichloroethene	Not detected	7.9	0.95	ug/m3	10	75-35-4	Y
1,2-Dibromoethane	Not detected	15	0.77	ug/m3	10	106-93-4	Y
1,2-Dichloroethane	Not detected	8.1	1.1	ug/m3	10	107-06-2	Y
1,2-Dichloropropane	Not detected	9.2	0.92	ug/m3	10	78-87-5	Y
1,4-Dioxane	Not detected	90	1.4	ug/m3	10	123-91-1	Y
Dichlorodifluoromethane	1.5	9.9	1.3	ug/m3	10	75-71-8	JY
Dibromochloromethane	Not detected	17	1.4	ug/m3	10	124-48-1	Y
trans-1,2-Dichloroethene	Not detected	7.9	0.83	ug/m3	10	156-60-5	Y
cis-1,2-Dichloroethene	Not detected	7.9	0.91	ug/m3	10	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	9.1	0.91	ug/m3	10	10061-01-5	Y
1,3-Dichlorobenzene	Not detected	12	1.2	ug/m3	10	541-73-1	Y
1,2-Dichlorobenzene	Not detected	12	1.4	ug/m3	10	95-50-1	Y
1,4-Dichlorobenzene	Not detected	12	1.1	ug/m3	10	106-46-7	Y
trans-1,3-Dichloropropene	Not detected	9.1	0.59	ug/m3	10	10061-02-6	Y
Ethanol*	35.80	47	1.3	ug/m3	10	64-17-5	JY
Ethylbenzene	1.7	8.7	0.87	ug/m3	10	100-41-4	JY
Ethyl Acetate*	Not detected	72	1.8	ug/m3	10	141-78-6	Y
4-Ethyltoluene	2.9	9.8	1.6	ug/m3	10	622-96-8	JY
Freon 113	Not detected	15	1.8	ug/m3	10	76-13-1	Y
Freon 114	2.8	14	2.0	ug/m3	10	76-14-2	JY
Heptane	Not detected	8.2	0.61	ug/m3	10	142-82-5	Y
Hexachlorobutadiene	Not detected	21	3.1	ug/m3	10	87-68-3	Y
Hexane	Not detected	7.0	0.67	ug/m3	10	110-54-3	Y
2-Hexanone*	Not detected	20	0.86	ug/m3	10	591-78-6	Y
Isopropyl Alcohol*	Not detected	49	1.9	ug/m3	10	67-63-0	Y
Methylene chloride	Not detected	17	4.9	ug/m3	10	75-09-2	Y
2-Butanone (MEK)	5.60	59	1.4	ug/m3	10	78-93-3	JY
4-Methyl-2-pentanone (MIBK)	Not detected	20	0.70	ug/m3	10	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	7.2	0.36	ug/m3	10	1634-04-4	Y
Methyl methacrylate	Not detected	8.2	0.70	ug/m3	10	80-62-6	Y
Naphthalene	10 --1.6---	10	0.52	ug/m3	10	91-20-3	~~JYB~~ ---U
Propylene*	Not detected	170	0.65	ug/m3	10	115-07-1	Y
Styrene	Not detected	8.5	0.64	ug/m3	10	100-42-5	Y
1,1,1-Trichloroethane	Not detected	11	0.93	ug/m3	10	71-55-6	Y

Y-Elevated reporting limit due to high target concentration

B-Compound also found in associated method blank

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33701.10 (continued)

Sample Tag: 224121-IAA-149

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/28/22 20:06, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,1,2,2-Tetrachloroethane	Not detected	14	0.96	ug/m3	10	79-34-5	Y
1,1,2-Trichloroethane	Not detected	11	0.82	ug/m3	10	79-00-5	Y
1,2,4-Trichlorobenzene	37 1.5--	37	1.1	ug/m3	10	120-82-1	-JYB-U
1,2,4-Trimethylbenzene	9.8	9.8	1.4	ug/m3	10	95-63-6	Y
1,3,5-Trimethylbenzene	2.9	9.8	1.2	ug/m3	10	108-67-8	JY
2,2,4-Trimethylpentane	Not detected	9.3	0.65	ug/m3	10	540-84-1	Y
Tert-butyl Alcohol	1.8	30	1.2	ug/m3	10	75-65-0	JY
Tetrachloroethene	120	14	1.6	ug/m3	10	127-18-4	Y
Tetrahydrofuran*	35	5.9	0.86	ug/m3	10	109-99-9	Y
Toluene	513	7.5	0.49	ug/m3	10	108-88-3	Y
Trichloroethene	1.6	11	1.2	ug/m3	10	79-01-6	JY
Trichlorofluoromethane	Not detected	11	0.96	ug/m3	10	75-69-4	Y
Vinyl chloride	Not detected	5.1	0.74	ug/m3	10	75-01-4	Y
Vinyl acetate	Not detected	70	0.53	ug/m3	10	108-05-4	Y
p,m-Xylene	5.21	17	1.6	ug/m3	10		JY
o-Xylene	2.6	8.7	0.87	ug/m3	10	95-47-6	JY
Total Xylenes	7.82	26	2.5	ug/m3	10	1330-20-7	JY

Y-Elevated reporting limit due to high target concentration

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

ALH 4/25/22



Analytical Laboratory Report

Lab Sample ID: S33701.11

Sample Tag: 224121-SSB-149

Collected Date/Time: 03/09/2022 07:45 - 03/09/2022 14:57

Matrix: Air

COC Reference: A5311

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	0	N/A	03/10/22 14:20	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/14/22 19:37, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	51.2	0.058	ppbv	1	67-64-1	X
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	136.0	0.2	0.019	ppbv	1	71-43-2	E
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	0.140	0.2	0.033	ppbv	1	74-83-9	J
Vinyl bromide	0.060	0.2	0.035	ppbv	1	593-60-2	J
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	Not detected	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	23.0	2.0	0.046	ppbv	1	75-00-3	
Chloroform	Not detected	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	Not detected	0.2	0.020	ppbv	1	56-23-5	
Cyclohexane	136.3	0.2	0.024	ppbv	1	110-82-7	E
1,1-Dichloroethane	10.2	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.5	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	Not detected	0.3	0.026	ppbv	1	75-71-8	X
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	5.9	0.021	ppbv	1	156-60-5	X
cis-1,2-Dichloroethene	45.8	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	Not detected	3.8	0.068	ppbv	1	64-17-5	X
Ethylbenzene	5.1	0.2	0.020	ppbv	1	100-41-4	

X-Elevated reporting limit due to matrix interference

E-Concentration exceeds calibration range

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33701.11 (continued)

Sample Tag: 224121-SSB-149

TO-15, Method: TO-15, Run Date: 03/14/22 19:37, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Ethyl Acetate*	Not detected	2.0	0.049	ppbv	1	141-78-6	
4-Ethyltoluene	2.6	0.2	0.032	ppbv	1	622-96-8	
Freon 113	Not detected	0.8	0.024	ppbv	1	76-13-1	X
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	34.8	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	75.1	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	32.2	0.076	ppbv	1	67-63-0	X
Methylene chloride	Not detected	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	Not detected	4.6	0.046	ppbv	1	78-93-3	X
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.010	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	175	0.038	ppbv	1	115-07-1	X
Styrene	Not detected	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	0.8	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	7.1	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1.5	0.025	ppbv	1	108-67-8	X
2,2,4-Trimethylpentane	330.5	0.2	0.014	ppbv	1	540-84-1	E
Tert-butyl Alcohol	Not detected	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	4.7	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	Not detected	301	0.029	ppbv	1	109-99-9	X
Toluene	10.4	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	11.4	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	Not detected	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	136.5	0.2	0.029	ppbv	1	75-01-4	E
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	12.8	0.4	0.038	ppbv	1		
o-Xylene	30.5	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	43.3	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/14/22 19:37, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	122	0.14	ug/m3	1	67-64-1	X UJ
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	UJ
Benzene	434.5	0.64	0.061	ug/m3	1	71-43-2	---E---J
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	UJ
Bromomethane	0.544	0.78	0.13	ug/m3	1	74-83-9	J---J
Vinyl bromide	0.26	0.87	0.15	ug/m3	1	593-60-2	J---J
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	UJ

X-Elevated reporting limit due to matrix interference

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

E-Concentration exceeds calibration range

ALA 4/25/22

Lab Sample ID: S33701.11 (continued)

Sample Tag: 224121-SSB-149

TO-15, Method: TO-15, Run Date: 03/14/22 19:37, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon disulfide	Not detected	1.6	0.059	ug/m3	1	75-15-0	UJ
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	UJ
Chloroethane	60.7	5.3	0.12	ug/m3	1	75-00-3	J
Chloroform	Not detected	0.98	0.098	ug/m3	1	67-66-3	UJ
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	Not detected	1.3	0.13	ug/m3	1	56-23-5	
Cyclohexane	469.2	0.69	0.083	ug/m3	1	110-82-7	-E-J
1,1-Dichloroethane	41.3	0.81	0.10	ug/m3	1	75-34-3	J
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	UJ
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	UJ
1,2-Dichloroethane	2.0	0.81	0.11	ug/m3	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	UJ
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	Not detected	1.5	0.13	ug/m3	1	75-71-8	X
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	23	0.083	ug/m3	1	156-60-5	X
cis-1,2-Dichloroethene	182	0.79	0.091	ug/m3	1	156-59-2	J
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	UJ
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	Not detected	7.2	0.13	ug/m3	1	64-17-5	X
Ethylbenzene	22	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	Not detected	7.2	0.18	ug/m3	1	141-78-6	
4-Ethyltoluene	13	0.98	0.16	ug/m3	1	622-96-8	UJ
Freon 113	Not detected	6.1	0.18	ug/m3	1	76-13-1	X UJ
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	UJ
Heptane	143	0.82	0.061	ug/m3	1	142-82-5	J
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	UJ
Hexane	265	0.70	0.067	ug/m3	1	110-54-3	J
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	UJ
Isopropyl Alcohol*	Not detected	79.2	0.19	ug/m3	1	67-63-0	X UJ
Methylene chloride	Not detected	1.7	0.49	ug/m3	1	75-09-2	--J-UJ
2-Butanone (MEK)	Not detected	14	0.14	ug/m3	1	78-93-3	X UJ
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0	0.52	0.052	ug/m3	1	91-20-3	JB-UJ
Propylene*	Not detected	301	0.065	ug/m3	1	115-07-1	X
Styrene	Not detected	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	4.4	1.1	0.093	ug/m3	1	71-55-6	J
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	UJ
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	UJ

E-Concentration exceeds calibration range

X-Elevated reporting limit due to matrix interference

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

Lab Sample ID: S33701.11 (continued)

Sample Tag: 224121-SSB-149

TO-15, Method: TO-15, Run Date: 03/14/22 19:37, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	UJ
1,2,4-Trimethylbenzene	35	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	7.4	0.12	ug/m3	1	108-67-8	X J UJ
2,2,4-Trimethylpentane	1,544	0.93	0.065	ug/m3	1	540-84-1	-E---J
Tert-butyl Alcohol	Not detected	3.0	0.12	ug/m3	1	75-65-0	UJ
Tetrachloroethene	32	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	Not detected	888	0.086	ug/m3	1	109-99-9	X UJ
Toluene	39.2	0.75	0.049	ug/m3	1	108-88-3	J
Trichloroethene	61.3	1.1	0.12	ug/m3	1	79-01-6	J
Trichlorofluoromethane	Not detected	1.1	0.096	ug/m3	1	75-69-4	UJ
Vinyl chloride	348.9	0.51	0.074	ug/m3	1	75-01-4	-E---J
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	UJ
p,m-Xylene	55.6	1.7	0.16	ug/m3	1		J
o-Xylene	132	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	188	2.6	0.25	ug/m3	1	1330-20-7	↓

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/14/22 22:38, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	63	0.58	ppbv	10	67-64-1	YX
1,3-Butadiene	Not detected	20	0.29	ppbv	10	106-99-0	Y
Benzene	146	2	0.19	ppbv	10	71-43-2	Y
Bromodichloromethane	Not detected	2	0.23	ppbv	10	75-27-4	Y
Bromoform	Not detected	2	0.23	ppbv	10	75-25-2	Y
Bromomethane	Not detected	2	0.33	ppbv	10	74-83-9	Y
Vinyl bromide	Not detected	2	0.35	ppbv	10	593-60-2	Y
Benzyl chloride	Not detected	2	0.29	ppbv	10	100-44-7	Y
Carbon disulfide	Not detected	5	0.19	ppbv	10	75-15-0	Y
Chlorobenzene	Not detected	2	0.17	ppbv	10	108-90-7	Y
Chloroethane	17.00	20	0.46	ppbv	10	75-00-3	JY
Chloroform	Not detected	2	0.20	ppbv	10	67-66-3	Y
Chloromethane	Not detected	20	0.40	ppbv	10	74-87-3	Y
3-Chloropropene	Not detected	20	0.24	ppbv	10	107-05-1	Y
2-Chlorotoluene	Not detected	2	0.24	ppbv	10	95-49-8	Y
Carbon tetrachloride	Not detected	2	0.20	ppbv	10	56-23-5	Y
Cyclohexane	113	2	0.24	ppbv	10	110-82-7	Y
1,1-Dichloroethane	8	2	0.25	ppbv	10	75-34-3	Y
1,1-Dichloroethene	Not detected	2	0.24	ppbv	10	75-35-4	Y
1,2-Dibromoethane	Not detected	2	0.10	ppbv	10	106-93-4	Y
1,2-Dichloroethane	Not detected	2	0.28	ppbv	10	107-06-2	Y
1,2-Dichloropropane	Not detected	2	0.20	ppbv	10	78-87-5	Y
1,4-Dioxane	Not detected	25	0.38	ppbv	10	123-91-1	Y
Dichlorodifluoromethane	Not detected	2	0.26	ppbv	10	75-71-8	Y
Dibromochloromethane	Not detected	2	0.17	ppbv	10	124-48-1	Y
trans-1,2-Dichloroethene	Not detected	8	0.21	ppbv	10	156-60-5	YX
cis-1,2-Dichloroethene	37	2	0.23	ppbv	10	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	2	0.20	ppbv	10	10061-01-5	Y

X-Elevated reporting limit due to matrix interference

E-Concentration exceeds calibration range

Y-Elevated reporting limit due to high target concentration

J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S33701.11 (continued)

Sample Tag: 224121-SSB-149

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/14/22 22:38, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,3-Dichlorobenzene	Not detected	2	0.20	ppbv	10	541-73-1	Y
1,2-Dichlorobenzene	Not detected	2	0.24	ppbv	10	95-50-1	Y
1,4-Dichlorobenzene	Not detected	2	0.19	ppbv	10	106-46-7	Y
trans-1,3-Dichloropropene	Not detected	2	0.13	ppbv	10	10061-02-6	Y
Ethanol*	Not detected	25	0.68	ppbv	10	64-17-5	Y
Ethylbenzene	31	2	0.20	ppbv	10	100-41-4	Y
Ethyl Acetate*	Not detected	20	0.49	ppbv	10	141-78-6	Y
4-Ethyltoluene	14	2	0.32	ppbv	10	622-96-8	Y
Freon 113	Not detected	2	0.24	ppbv	10	76-13-1	Y
Freon 114	Not detected	2	0.29	ppbv	10	76-14-2	Y
Heptane	24	2	0.15	ppbv	10	142-82-5	Y
Hexachlorobutadiene	Not detected	2	0.29	ppbv	10	87-68-3	Y
Hexane	58	2	0.19	ppbv	10	110-54-3	Y
2-Hexanone*	Not detected	5	0.21	ppbv	10	591-78-6	Y
Isopropyl Alcohol*	Not detected	31	0.76	ppbv	10	67-63-0	YX
Methylene chloride	Not detected	5	1.4	ppbv	10	75-09-2	Y
2-Butanone (MEK)	Not detected	20	0.46	ppbv	10	78-93-3	Y
4-Methyl-2-pentanone (MIBK)	19	5	0.17	ppbv	10	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	2	0.10	ppbv	10	1634-04-4	Y
Methyl methacrylate	Not detected	2	0.17	ppbv	10	80-62-6	Y
Naphthalene	1.10	2	0.10	ppbv	10	91-20-3	JYB
Propylene*	Not detected	132	0.38	ppbv	10	115-07-1	YX
Styrene	Not detected	2	0.15	ppbv	10	100-42-5	Y
1,1,1-Trichloroethane	0.50	2	0.17	ppbv	10	71-55-6	JY
1,1,2,2-Tetrachloroethane	Not detected	2	0.14	ppbv	10	79-34-5	Y
1,1,2-Trichloroethane	Not detected	2	0.15	ppbv	10	79-00-5	Y
1,2,4-Trichlorobenzene	0.20	5	0.15	ppbv	10	120-82-1	JYB
1,2,4-Trimethylbenzene	44	2	0.29	ppbv	10	95-63-6	Y
1,3,5-Trimethylbenzene	Not detected	10	0.25	ppbv	10	108-67-8	YX
2,2,4-Trimethylpentane	446	2	0.14	ppbv	10	540-84-1	Y
Tert-butyl Alcohol	Not detected	10	0.41	ppbv	10	75-65-0	Y
Tetrachloroethene	26	2	0.24	ppbv	10	127-18-4	Y
Tetrahydrofuran*	Not detected	357	0.29	ppbv	10	109-99-9	YX
Toluene	11	2	0.13	ppbv	10	108-88-3	Y
Trichloroethene	9	2	0.23	ppbv	10	79-01-6	Y
Trichlorofluoromethane	Not detected	2	0.17	ppbv	10	75-69-4	Y
Vinyl chloride	103	2	0.29	ppbv	10	75-01-4	Y
Vinyl acetate	Not detected	20	0.15	ppbv	10	108-05-4	Y
p,m-Xylene	78	4	0.38	ppbv	10		Y
o-Xylene	184	2	0.20	ppbv	10	95-47-6	Y
Total Xylenes	262	6	0.58	ppbv	10	1330-20-7	Y

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/14/22 22:38, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	150	1.4	ug/m3	10	67-64-1	YX
1,3-Butadiene	Not detected	44	0.64	ug/m3	10	106-99-0	Y
Benzene	466	6.4	0.61	ug/m3	10	71-43-2	Y

Y-Elevated reporting limit due to high target concentration

X-Elevated reporting limit due to matrix interference

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Lab Sample ID: S33701.11 (continued)

Sample Tag: 224121-SSB-149

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/14/22 22:38, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Bromodichloromethane	Not detected	13	1.5	ug/m3	10	75-27-4	Y
Bromoform	Not detected	21	2.4	ug/m3	10	75-25-2	Y
Bromomethane	Not detected	7.8	1.3	ug/m3	10	74-83-9	Y
Vinyl bromide	Not detected	8.7	1.5	ug/m3	10	593-60-2	Y
Benzyl chloride	Not detected	10	1.5	ug/m3	10	100-44-7	Y
Carbon disulfide	Not detected	16	0.59	ug/m3	10	75-15-0	Y
Chlorobenzene	Not detected	9.2	0.78	ug/m3	10	108-90-7	Y
Chloroethane	44.85	53	1.2	ug/m3	10	75-00-3	JY
Chloroform	Not detected	9.8	0.98	ug/m3	10	67-66-3	Y
Chloromethane	Not detected	41	0.83	ug/m3	10	74-87-3	Y
3-Chloropropene	Not detected	63	0.75	ug/m3	10	107-05-1	Y
2-Chlorotoluene	Not detected	10	1.2	ug/m3	10	95-49-8	Y
Carbon tetrachloride	Not detected	13	1.3	ug/m3	10	56-23-5	Y
Cyclohexane	389	6.9	0.83	ug/m3	10	110-82-7	Y
1,1-Dichloroethane	32	8.1	1.0	ug/m3	10	75-34-3	Y
1,1-Dichloroethene	Not detected	7.9	0.95	ug/m3	10	75-35-4	Y
1,2-Dibromoethane	Not detected	15	0.77	ug/m3	10	106-93-4	Y
1,2-Dichloroethane	Not detected	8.1	1.1	ug/m3	10	107-06-2	Y
1,2-Dichloropropane	Not detected	9.2	0.92	ug/m3	10	78-87-5	Y
1,4-Dioxane	Not detected	90	1.4	ug/m3	10	123-91-1	Y
Dichlorodifluoromethane	Not detected	9.9	1.3	ug/m3	10	75-71-8	Y
Dibromochloromethane	Not detected	17	1.4	ug/m3	10	124-48-1	Y
trans-1,2-Dichloroethene	Not detected	32	0.83	ug/m3	10	156-60-5	YX
cis-1,2-Dichloroethene	150	7.9	0.91	ug/m3	10	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	9.1	0.91	ug/m3	10	10061-01-5	Y
1,3-Dichlorobenzene	Not detected	12	1.2	ug/m3	10	541-73-1	Y
1,2-Dichlorobenzene	Not detected	12	1.4	ug/m3	10	95-50-1	Y
1,4-Dichlorobenzene	Not detected	12	1.1	ug/m3	10	106-46-7	Y
trans-1,3-Dichloropropene	Not detected	9.1	0.59	ug/m3	10	10061-02-6	Y
Ethanol*	Not detected	47	1.3	ug/m3	10	64-17-5	Y
Ethylbenzene	130	8.7	0.87	ug/m3	10	100-41-4	Y
Ethyl Acetate*	Not detected	72	1.8	ug/m3	10	141-78-6	Y
4-Ethyltoluene	69	9.8	1.6	ug/m3	10	622-96-8	Y
Freon 113	Not detected	15	1.8	ug/m3	10	76-13-1	Y
Freon 114	Not detected	14	2.0	ug/m3	10	76-14-2	Y
Heptane	98	8.2	0.61	ug/m3	10	142-82-5	Y
Hexachlorobutadiene	Not detected	21	3.1	ug/m3	10	87-68-3	Y
Hexane	200	7.0	0.67	ug/m3	10	110-54-3	Y
2-Hexanone*	Not detected	20	0.86	ug/m3	10	591-78-6	Y
Isopropyl Alcohol*	Not detected	76	1.9	ug/m3	10	67-63-0	YX
Methylene chloride	Not detected	17	4.9	ug/m3	10	75-09-2	Y
2-Butanone (MEK)	Not detected	59	1.4	ug/m3	10	78-93-3	Y
4-Methyl-2-pentanone (MIBK)	78	20	0.70	ug/m3	10	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	7.2	0.36	ug/m3	10	1634-04-4	Y
Methyl methacrylate	Not detected	8.2	0.70	ug/m3	10	80-62-6	Y
Naphthalene	10 ~~5.77~~	10	0.52	ug/m3	10	91-20-3	~~JYB~~ ~~U~~

Y-Elevated reporting limit due to high target concentration

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S33701.11 (continued)

Sample Tag: 224121-SSB-149

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/14/22 22:38, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Propylene*	Not detected	227	0.65	ug/m3	10	115-07-1	YX
Styrene	Not detected	8.5	0.64	ug/m3	10	100-42-5	Y
1,1,1-Trichloroethane	2.7	11	0.93	ug/m3	10	71-55-6	JY
1,1,2,2-Tetrachloroethane	Not detected	14	0.96	ug/m3	10	79-34-5	Y
1,1,2-Trichloroethane	Not detected	11	0.82	ug/m3	10	79-00-5	Y
1,2,4-Trichlorobenzene	37 1.5----	37	1.1	ug/m3	10	120-82-1	JYB-UJ
1,2,4-Trimethylbenzene	220	9.8	1.4	ug/m3	10	95-63-6	Y
1,3,5-Trimethylbenzene	Not detected	49	1.2	ug/m3	10	108-67-8	YX
2,2,4-Trimethylpentane	2,080	9.3	0.65	ug/m3	10	540-84-1	Y
Tert-butyl Alcohol	Not detected	30	1.2	ug/m3	10	75-65-0	Y
Tetrachloroethene	180	14	1.6	ug/m3	10	127-18-4	Y
Tetrahydrofuran*	Not detected	1,050	0.86	ug/m3	10	109-99-9	YX
Toluene	41	7.5	0.49	ug/m3	10	108-88-3	Y
Trichloroethene	48	11	1.2	ug/m3	10	79-01-6	Y
Trichlorofluoromethane	Not detected	11	0.96	ug/m3	10	75-69-4	Y
Vinyl chloride	263	5.1	0.74	ug/m3	10	75-01-4	Y
Vinyl acetate	Not detected	70	0.53	ug/m3	10	108-05-4	Y
p,m-Xylene	340	17	1.6	ug/m3	10		Y
o-Xylene	799	8.7	0.87	ug/m3	10	95-47-6	Y
Total Xylenes	1,140	26	2.5	ug/m3	10	1330-20-7	Y

Y-Elevated reporting limit due to high target concentration X-Elevated reporting limit due to matrix interference

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALA 4/25/22



Analytical Laboratory Report

Lab Sample ID: S33701.12

Sample Tag: 224121-IAB-149

Collected Date/Time: 03/09/2022 07:47 - 03/09/2022 14:54

Matrix: Air

COC Reference: A5311

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-5	N/A	03/10/22 14:20	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/14/22 20:08, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	367.7	2.0	0.058	ppbv	1	67-64-1	E
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.4	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	0.080	0.2	0.033	ppbv	1	74-83-9	J
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.060	0.5	0.019	ppbv	1	75-15-0	JB
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	1.0	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.2	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	0.050	0.2	0.023	ppbv	1	156-59-2	J
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	122.1	2.5	0.068	ppbv	1	64-17-5	E
Ethylbenzene	0.5	0.2	0.020	ppbv	1	100-41-4	

E-Concentration exceeds calibration range

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33701.12 (continued)

Sample Tag: 224121-IAB-149

TO-15, Method: TO-15, Run Date: 03/14/22 20:08, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Ethyl Acetate*	0.840	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	1.8	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.3	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	Not detected	0.8	0.019	ppbv	1	110-54-3	X
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	10.3	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.33	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	1.790	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.090	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.070	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	0.180	0.2	0.017	ppbv	1	71-55-6	J
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	7.9	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	2.4	0.025	ppbv	1	108-67-8	X
2,2,4-Trimethylpentane	0.2	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	1.8	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	6.4	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	2.0	0.2	0.029	ppbv	1	109-99-9	
Toluene	164.6	0.2	0.013	ppbv	1	108-88-3	E
Trichloroethene	0.100	0.2	0.023	ppbv	1	79-01-6	J
Trichlorofluoromethane	0.170	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	1.8	0.4	0.038	ppbv	1		
o-Xylene	1.1	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	2.9	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/14/22 20:08, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	873.5	4.8	0.14	ug/m3	1	67-64-1	--E-- J
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	1.3	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	0.31	0.78	0.13	ug/m3	1	74-83-9	J
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

E-Concentration exceeds calibration range

ALH 4/25/22



Analytical Laboratory Report

Lab Sample ID: S33701.12 (continued)

Sample Tag: 224121-IAB-149

TO-15, Method: TO-15, Run Date: 03/14/22 20:08, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon disulfide	1.6-0.19	1.6	0.059	ug/m3	1	75-15-0	--JB--U
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	4.9	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.69	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	0.20	0.79	0.091	ug/m3	1	156-59-2	J
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	230.1	4.7	0.13	ug/m3	1	64-17-5	-E--J
Ethylbenzene	2.2	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	3.03	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	8.8	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	1.2	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	Not detected	2.8	0.067	ug/m3	1	110-54-3	X
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	25.3	0.19	ug/m3	1	67-63-0	X
Methylene chloride	1.1	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	5.279	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 0.47----	1.0	0.052	ug/m3	1	91-20-3	-JB--U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.30	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	0.982	1.1	0.093	ug/m3	1	71-55-6	J
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	UJ

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

E-Concentration exceeds calibration range

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33701.12 (continued)

Sample Tag: 224121-IAB-149

TO-15, Method: TO-15, Run Date: 03/14/22 20:08, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2,4-Trimethylbenzene	39	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	12	0.12	ug/m3	1	108-67-8	X
2,2,4-Trimethylpentane	0.93	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	5.5	3.0	0.12	ug/m3	1	75-65-0	
Tetrachloroethene	43	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	5.9	0.59	0.086	ug/m3	1	109-99-9	
Toluene	620.3	0.75	0.049	ug/m3	1	108-88-3	--E--J
Trichloroethene	0.537	1.1	0.12	ug/m3	1	79-01-6	J
Trichlorofluoromethane	0.955	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	7.8	1.7	0.16	ug/m3	1		
o-Xylene	4.8	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	13	2.6	0.25	ug/m3	1	1330-20-7	

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/28/22 20:36, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	320	20	0.58	ppbv	10	67-64-1	Y
1,3-Butadiene	Not detected	20	0.29	ppbv	10	106-99-0	Y
Benzene	0.30	2	0.19	ppbv	10	71-43-2	JY
Bromodichloromethane	Not detected	2	0.23	ppbv	10	75-27-4	Y
Bromoform	Not detected	2	0.23	ppbv	10	75-25-2	Y
Bromomethane	Not detected	2	0.33	ppbv	10	74-83-9	Y
Vinyl bromide	Not detected	2	0.35	ppbv	10	593-60-2	Y
Benzyl chloride	Not detected	2	0.29	ppbv	10	100-44-7	Y
Carbon disulfide	33	5	0.19	ppbv	10	75-15-0	YB
Chlorobenzene	Not detected	2	0.17	ppbv	10	108-90-7	Y
Chloroethane	Not detected	20	0.46	ppbv	10	75-00-3	Y
Chloroform	0.80	2	0.20	ppbv	10	67-66-3	JY
Chloromethane	Not detected	20	0.40	ppbv	10	74-87-3	Y
3-Chloropropene	Not detected	20	0.24	ppbv	10	107-05-1	Y
2-Chlorotoluene	Not detected	2	0.24	ppbv	10	95-49-8	Y
Carbon tetrachloride	Not detected	2	0.20	ppbv	10	56-23-5	Y
Cyclohexane	Not detected	2	0.24	ppbv	10	110-82-7	Y
1,1-Dichloroethane	Not detected	2	0.25	ppbv	10	75-34-3	Y
1,1-Dichloroethene	Not detected	2	0.24	ppbv	10	75-35-4	Y
1,2-Dibromoethane	Not detected	2	0.10	ppbv	10	106-93-4	Y
1,2-Dichloroethane	Not detected	2	0.28	ppbv	10	107-06-2	Y
1,2-Dichloropropane	Not detected	2	0.20	ppbv	10	78-87-5	Y
1,4-Dioxane	Not detected	25	0.38	ppbv	10	123-91-1	Y
Dichlorodifluoromethane	0.30	2	0.26	ppbv	10	75-71-8	JY
Dibromochloromethane	Not detected	2	0.17	ppbv	10	124-48-1	Y
trans-1,2-Dichloroethene	Not detected	2	0.21	ppbv	10	156-60-5	Y
cis-1,2-Dichloroethene	Not detected	2	0.23	ppbv	10	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	2	0.20	ppbv	10	10061-01-5	Y

X-Elevated reporting limit due to matrix interference

E-Concentration exceeds calibration range

J-Estimated value less than reporting limit, but greater than MDL

Y-Elevated reporting limit due to high target concentration

B-Compound also found in associated method blank

ALH 4/25/22

Analytical Laboratory Report

Lab Sample ID: S33701.12 (continued)

Sample Tag: 224121-IAB-149

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/28/22 20:36, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,3-Dichlorobenzene	Not detected	2	0.20	ppbv	10	541-73-1	Y
1,2-Dichlorobenzene	Not detected	2	0.24	ppbv	10	95-50-1	Y
1,4-Dichlorobenzene	Not detected	2	0.19	ppbv	10	106-46-7	Y
trans-1,3-Dichloropropene	Not detected	2	0.13	ppbv	10	10061-02-6	Y
Ethanol*	105	25	0.68	ppbv	10	64-17-5	Y
Ethylbenzene	0.40	2	0.20	ppbv	10	100-41-4	JY
Ethyl Acetate*	Not detected	20	0.49	ppbv	10	141-78-6	Y
4-Ethyltoluene	1.40	2	0.32	ppbv	10	622-96-8	JY
Freon 113	Not detected	2	0.24	ppbv	10	76-13-1	Y
Freon 114	0.30	2	0.29	ppbv	10	76-14-2	JY
Heptane	Not detected	2	0.15	ppbv	10	142-82-5	Y
Hexachlorobutadiene	Not detected	2	0.29	ppbv	10	87-68-3	Y
Hexane	Not detected	2	0.19	ppbv	10	110-54-3	Y
2-Hexanone*	Not detected	5	0.21	ppbv	10	591-78-6	Y
Isopropyl Alcohol*	Not detected	20	0.76	ppbv	10	67-63-0	Y
Methylene chloride	Not detected	5	1.4	ppbv	10	75-09-2	Y
2-Butanone (MEK)	0.90	20	0.46	ppbv	10	78-93-3	JY
4-Methyl-2-pentanone (MIBK)	Not detected	5	0.17	ppbv	10	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	2	0.10	ppbv	10	1634-04-4	Y
Methyl methacrylate	Not detected	2	0.17	ppbv	10	80-62-6	Y
Naphthalene	0.30	2	0.10	ppbv	10	91-20-3	JYB
Propylene*	Not detected	100	0.38	ppbv	10	115-07-1	Y
Styrene	Not detected	2	0.15	ppbv	10	100-42-5	Y
1,1,1-Trichloroethane	Not detected	2	0.17	ppbv	10	71-55-6	Y
1,1,2,2-Tetrachloroethane	Not detected	2	0.14	ppbv	10	79-34-5	Y
1,1,2-Trichloroethane	Not detected	2	0.15	ppbv	10	79-00-5	Y
1,2,4-Trichlorobenzene	Not detected	5	0.15	ppbv	10	120-82-1	Y
1,2,4-Trimethylbenzene	5	2	0.29	ppbv	10	95-63-6	Y
1,3,5-Trimethylbenzene	1.20	2	0.25	ppbv	10	108-67-8	JY
2,2,4-Trimethylpentane	0.20	2	0.14	ppbv	10	540-84-1	JY
Tert-butyl Alcohol	1.50	10	0.41	ppbv	10	75-65-0	JY
Tetrachloroethene	5	2	0.24	ppbv	10	127-18-4	Y
Tetrahydrofuran*	1.60	2	0.29	ppbv	10	109-99-9	JY
Toluene	116	2	0.13	ppbv	10	108-88-3	Y
Trichloroethene	Not detected	2	0.23	ppbv	10	79-01-6	Y
Trichlorofluoromethane	Not detected	2	0.17	ppbv	10	75-69-4	Y
Vinyl chloride	Not detected	2	0.29	ppbv	10	75-01-4	Y
Vinyl acetate	Not detected	20	0.15	ppbv	10	108-05-4	Y
p,m-Xylene	1.10	4	0.38	ppbv	10		JY
o-Xylene	0.70	2	0.20	ppbv	10	95-47-6	JY
Total Xylenes	1.80	6	0.58	ppbv	10	1330-20-7	JY

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/28/22 20:36, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	760	48	1.4	ug/m3	10	67-64-1	Y
1,3-Butadiene	Not detected	44	0.64	ug/m3	10	106-99-0	Y
Benzene	0.96	6.4	0.61	ug/m3	10	71-43-2	JY

Y-Elevated reporting limit due to high target concentration

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S33701.12 (continued)

Sample Tag: 224121-IAB-149

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/28/22 20:36, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Bromodichloromethane	Not detected	13	1.5	ug/m3	10	75-27-4	Y
Bromoform	Not detected	21	2.4	ug/m3	10	75-25-2	Y
Bromomethane	Not detected	7.8	1.3	ug/m3	10	74-83-9	Y
Vinyl bromide	Not detected	8.7	1.5	ug/m3	10	593-60-2	Y
Benzyl chloride	Not detected	10	1.5	ug/m3	10	100-44-7	Y
Carbon disulfide	100	16	0.59	ug/m3	10	75-15-0	-YB-- UJ
Chlorobenzene	Not detected	9.2	0.78	ug/m3	10	108-90-7	Y
Chloroethane	Not detected	53	1.2	ug/m3	10	75-00-3	Y
Chloroform	3.9	9.8	0.98	ug/m3	10	67-66-3	JY
Chloromethane	Not detected	41	0.83	ug/m3	10	74-87-3	Y
3-Chloropropene	Not detected	63	0.75	ug/m3	10	107-05-1	Y
2-Chlorotoluene	Not detected	10	1.2	ug/m3	10	95-49-8	Y
Carbon tetrachloride	Not detected	13	1.3	ug/m3	10	56-23-5	Y
Cyclohexane	Not detected	6.9	0.83	ug/m3	10	110-82-7	Y
1,1-Dichloroethane	Not detected	8.1	1.0	ug/m3	10	75-34-3	Y
1,1-Dichloroethene	Not detected	7.9	0.95	ug/m3	10	75-35-4	Y
1,2-Dibromoethane	Not detected	15	0.77	ug/m3	10	106-93-4	Y
1,2-Dichloroethane	Not detected	8.1	1.1	ug/m3	10	107-06-2	Y
1,2-Dichloropropane	Not detected	9.2	0.92	ug/m3	10	78-87-5	Y
1,4-Dioxane	Not detected	90	1.4	ug/m3	10	123-91-1	Y
Dichlorodifluoromethane	1.5	9.9	1.3	ug/m3	10	75-71-8	JY
Dibromochloromethane	Not detected	17	1.4	ug/m3	10	124-48-1	Y
trans-1,2-Dichloroethene	Not detected	7.9	0.83	ug/m3	10	156-60-5	Y
cis-1,2-Dichloroethene	Not detected	7.9	0.91	ug/m3	10	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	9.1	0.91	ug/m3	10	10061-01-5	Y
1,3-Dichlorobenzene	Not detected	12	1.2	ug/m3	10	541-73-1	Y
1,2-Dichlorobenzene	Not detected	12	1.4	ug/m3	10	95-50-1	Y
1,4-Dichlorobenzene	Not detected	12	1.1	ug/m3	10	106-46-7	Y
trans-1,3-Dichloropropene	Not detected	9.1	0.59	ug/m3	10	10061-02-6	Y
Ethanol*	198	47	1.3	ug/m3	10	64-17-5	Y
Ethylbenzene	1.7	8.7	0.87	ug/m3	10	100-41-4	JY
Ethyl Acetate*	Not detected	72	1.8	ug/m3	10	141-78-6	Y
4-Ethyltoluene	6.88	9.8	1.6	ug/m3	10	622-96-8	JY
Freon 113	Not detected	15	1.8	ug/m3	10	76-13-1	Y
Freon 114	2.1	14	2.0	ug/m3	10	76-14-2	JY
Heptane	Not detected	8.2	0.61	ug/m3	10	142-82-5	Y
Hexachlorobutadiene	Not detected	21	3.1	ug/m3	10	87-68-3	Y
Hexane	Not detected	7.0	0.67	ug/m3	10	110-54-3	Y
2-Hexanone*	Not detected	20	0.86	ug/m3	10	591-78-6	Y
Isopropyl Alcohol*	Not detected	49	1.9	ug/m3	10	67-63-0	Y
Methylene chloride	Not detected	17	4.9	ug/m3	10	75-09-2	Y
2-Butanone (MEK)	2.7	59	1.4	ug/m3	10	78-93-3	JY
4-Methyl-2-pentanone (MIBK)	Not detected	20	0.70	ug/m3	10	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	7.2	0.36	ug/m3	10	1634-04-4	Y
Methyl methacrylate	Not detected	8.2	0.70	ug/m3	10	80-62-6	Y
Naphthalene	10 1.6----	10	0.52	ug/m3	10	91-20-3	-YB--U
Propylene*	Not detected	170	0.65	ug/m3	10	115-07-1	Y

Y-Elevated reporting limit due to high target concentration

B-Compound also found in associated method blank

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33701.12 (continued)

Sample Tag: 224121-IAB-149

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/28/22 20:36, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Styrene	Not detected	8.5	0.64	ug/m3	10	100-42-5	Y
1,1,1-Trichloroethane	Not detected	11	0.93	ug/m3	10	71-55-6	Y
1,1,2,2-Tetrachloroethane	Not detected	14	0.96	ug/m3	10	79-34-5	Y
1,1,2-Trichloroethane	Not detected	11	0.82	ug/m3	10	79-00-5	Y
1,2,4-Trichlorobenzene	Not detected	37	1.1	ug/m3	10	120-82-1	Y
1,2,4-Trimethylbenzene	25	9.8	1.4	ug/m3	10	95-63-6	Y
1,3,5-Trimethylbenzene	5.90	9.8	1.2	ug/m3	10	108-67-8	JY
2,2,4-Trimethylpentane	0.93	9.3	0.65	ug/m3	10	540-84-1	JY
Tert-butyl Alcohol	4.55	30	1.2	ug/m3	10	75-65-0	JY
Tetrachloroethene	34	14	1.6	ug/m3	10	127-18-4	Y
Tetrahydrofuran*	4.72	5.9	0.86	ug/m3	10	109-99-9	JY
Toluene	437	7.5	0.49	ug/m3	10	108-88-3	Y
Trichloroethene	Not detected	11	1.2	ug/m3	10	79-01-6	Y
Trichlorofluoromethane	Not detected	11	0.96	ug/m3	10	75-69-4	Y
Vinyl chloride	Not detected	5.1	0.74	ug/m3	10	75-01-4	Y
Vinyl acetate	Not detected	70	0.53	ug/m3	10	108-05-4	Y
p,m-Xylene	4.78	17	1.6	ug/m3	10		JY
o-Xylene	3.0	8.7	0.87	ug/m3	10	95-47-6	JY
Total Xylenes	7.82	26	2.5	ug/m3	10	1330-20-7	JY

Y-Elevated reporting limit due to high target concentration

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33701.13

Sample Tag: 224121-OA-149

Collected Date/Time: 03/09/2022 07:55 - 03/09/2022 14:49

Matrix: Air

COC Reference: A5311

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-4	N/A	03/10/22 14:20	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/14/22 20:38, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	25.2	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.3	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.030	0.5	0.019	ppbv	1	75-15-0	JB
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	Not detected	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	0.490	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.070	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	5.3	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.3	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	0.370	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.180	0.2	0.032	ppbv	1	622-96-8	JB

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S33701.13 (continued)

Sample Tag: 224121-OA-149

TO-15, Method: TO-15, Run Date: 03/14/22 20:38, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.140	0.2	0.015	ppbv	1	142-82-5	J
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.3	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.25	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.710	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	0.100	0.2	0.017	ppbv	1	80-62-6	J
Naphthalene	0.090	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.060	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.5	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.110	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.130	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	Not detected	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	0.4	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.130	0.2	0.029	ppbv	1	109-99-9	J
Toluene	5.3	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	0.080	0.2	0.023	ppbv	1	79-01-6	J
Trichlorofluoromethane	0.170	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.9	0.4	0.038	ppbv	1		
o-Xylene	0.3	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	1.2	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/14/22 20:38, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	59.9	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.96	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	1.6 0.093----	1.6	0.059	ug/m3	1	75-15-0	JB-U
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	Not detected	0.98	0.098	ug/m3	1	67-66-3	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33701.13 (continued)

Sample Tag: 224121-OA-149

TO-15, Method: TO-15, Run Date: 03/14/22 20:38, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	1.01	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.24	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	10.0	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	1.3	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	1.33	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.98 0.885----	0.98	0.16	ug/m3	1	622-96-8	JB---U
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	0.574	0.82	0.061	ug/m3	1	142-82-5	J
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	1.1	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.87	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	2.09	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	0.409	0.82	0.070	ug/m3	1	80-62-6	J
Naphthalene	1.0 0.47-	1.0	0.052	ug/m3	1	91-20-3	JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.26	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	UJ
1,2,4-Trimethylbenzene	2.5	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	0.541	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	0.607	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	Not detected	3.0	0.12	ug/m3	1	75-65-0	
Tetrachloroethene	2.7	1.4	0.16	ug/m3	1	127-18-4	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 4/25/22



Analytical Laboratory Report

Lab Sample ID: S33701.13 (continued)

Sample Tag: 224121-OA-149

TO-15, Method: TO-15, Run Date: 03/14/22 20:38, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	0.383	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	20	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	0.43	1.1	0.12	ug/m3	1	79-01-6	J
Trichlorofluoromethane	0.955	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	3.9	1.7	0.16	ug/m3	1		
o-Xylene	1.3	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	5.2	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33701.14

Sample Tag: 224121-SS-30-09

Collected Date/Time: 03/08/2022 17:30 - 03/09/2022 17:00

Matrix: Air

COC Reference: A5311

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-4	N/A	03/10/22 14:20	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/14/22 21:08, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	14.2	0.058	ppbv	1	67-64-1	X
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	Not detected	0.3	0.019	ppbv	1	71-43-2	X
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.9	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	5.3	2.0	0.046	ppbv	1	75-00-3	
Chloroform	Not detected	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.080	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	0.2	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	9.4	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	Not detected	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	0.540	2.0	0.049	ppbv	1	141-78-6	J

X-Elevated reporting limit due to matrix interference

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S33701.14 (continued)

Sample Tag: 224121-SS-30-09

TO-15, Method: TO-15, Run Date: 03/14/22 21:08, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	Not detected	0.4	0.032	ppbv	1	622-96-8	X
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	163.3	0.2	0.015	ppbv	1	142-82-5	E
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	174.8	0.2	0.019	ppbv	1	110-54-3	E
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	Not detected	0.5	0.14	ppbv	1	75-09-2	
2-Butanone (MEK)	Not detected	3.5	0.046	ppbv	1	78-93-3	X
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.050	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	Not detected	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	0.020	0.2	0.017	ppbv	1	71-55-6	J
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	Not detected	0.9	0.014	ppbv	1	540-84-1	X
Tert-butyl Alcohol	0.710	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.8	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	Not detected	0.4	0.013	ppbv	1	108-88-3	X
Trichloroethene	Not detected	0.4	0.023	ppbv	1	79-01-6	X
Trichlorofluoromethane	0.190	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	0.4	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	Not detected	0.4	0.038	ppbv	1		
o-Xylene	Not detected	0.3	0.020	ppbv	1	95-47-6	X
Total Xylenes	0.200	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/14/22 21:08, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	33.7	0.14	ug/m3	1	67-64-1	X
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	Not detected	0.96	0.061	ug/m3	1	71-43-2	X
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	2.8	1.6	0.059	ug/m3	1	75-15-0	

X-Elevated reporting limit due to matrix interference

J-Estimated value less than reporting limit, but greater than MDL

E-Concentration exceeds calibration range

B-Compound also found in associated method blank

Lab Sample ID: S33701.14 (continued)

Sample Tag: 224121-SS-30-09

TO-15, Method: TO-15, Run Date: 03/14/22 21:08, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	14	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	Not detected	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.50	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	0.81	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	18	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	Not detected	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	1.95	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	2.0	0.16	ug/m3	1	622-96-8	X
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	669.3	0.82	0.061	ug/m3	1	142-82-5	--E---J
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	616.1	0.70	0.067	ug/m3	1	110-54-3	E---J
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	Not detected	1.7	0.49	ug/m3	1	75-09-2	
2-Butanone (MEK)	Not detected	10	0.14	ug/m3	1	78-93-3	X
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 -0.26---	1.0	0.052	ug/m3	1	91-20-3	-JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	Not detected	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	0.11	1.1	0.093	ug/m3	1	71-55-6	J
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	UJ

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

E-Concentration exceeds calibration range

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33701.14 (continued)

Sample Tag: 224121-SS-30-09

TO-15, Method: TO-15, Run Date: 03/14/22 21:08, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2,4-Trimethylbenzene	Not detected	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	Not detected	4.2	0.065	ug/m3	1	540-84-1	X
Tert-butyl Alcohol	2.15	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	5.4	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	Not detected	1.5	0.049	ug/m3	1	108-88-3	X
Trichloroethene	Not detected	2.1	0.12	ug/m3	1	79-01-6	X
Trichlorofluoromethane	1.07	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	1.0	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	Not detected	1.7	0.16	ug/m3	1		
o-Xylene	Not detected	1.3	0.087	ug/m3	1	95-47-6	X
Total Xylenes	0.868	2.6	0.25	ug/m3	1	1330-20-7	J

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/28/22 21:05, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	20	0.58	ppbv	10	67-64-1	Y
1,3-Butadiene	Not detected	20	0.29	ppbv	10	106-99-0	Y
Benzene	Not detected	2	0.19	ppbv	10	71-43-2	Y
Bromodichloromethane	Not detected	2	0.23	ppbv	10	75-27-4	Y
Bromoform	Not detected	2	0.23	ppbv	10	75-25-2	Y
Bromomethane	Not detected	2	0.33	ppbv	10	74-83-9	Y
Vinyl bromide	Not detected	2	0.35	ppbv	10	593-60-2	Y
Benzyl chloride	Not detected	2	0.29	ppbv	10	100-44-7	Y
Carbon disulfide	33	5	0.19	ppbv	10	75-15-0	YB
Chlorobenzene	Not detected	2	0.17	ppbv	10	108-90-7	Y
Chloroethane	4.40	20	0.46	ppbv	10	75-00-3	JY
Chloroform	0.20	2	0.20	ppbv	10	67-66-3	JY
Chloromethane	Not detected	20	0.40	ppbv	10	74-87-3	Y
3-Chloropropene	Not detected	20	0.24	ppbv	10	107-05-1	Y
2-Chlorotoluene	Not detected	2	0.24	ppbv	10	95-49-8	Y
Carbon tetrachloride	Not detected	2	0.20	ppbv	10	56-23-5	Y
Cyclohexane	Not detected	2	0.24	ppbv	10	110-82-7	Y
1,1-Dichloroethane	Not detected	2	0.25	ppbv	10	75-34-3	Y
1,1-Dichloroethene	Not detected	2	0.24	ppbv	10	75-35-4	Y
1,2-Dibromoethane	Not detected	2	0.10	ppbv	10	106-93-4	Y
1,2-Dichloroethane	Not detected	2	0.28	ppbv	10	107-06-2	Y
1,2-Dichloropropane	Not detected	2	0.20	ppbv	10	78-87-5	Y
1,4-Dioxane	Not detected	25	0.38	ppbv	10	123-91-1	Y
Dichlorodifluoromethane	0.30	2	0.26	ppbv	10	75-71-8	JY
Dibromochloromethane	Not detected	2	0.17	ppbv	10	124-48-1	Y
trans-1,2-Dichloroethene	Not detected	2	0.21	ppbv	10	156-60-5	Y
cis-1,2-Dichloroethene	Not detected	2	0.23	ppbv	10	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	2	0.20	ppbv	10	10061-01-5	Y
1,3-Dichlorobenzene	Not detected	2	0.20	ppbv	10	541-73-1	Y

X-Elevated reporting limit due to matrix interference

J-Estimated value less than reporting limit, but greater than MDL

Y-Elevated reporting limit due to high target concentration

B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S33701.14 (continued)

Sample Tag: 224121-SS-30-09

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/28/22 21:05, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dichlorobenzene	Not detected	2	0.24	ppbv	10	95-50-1	Y
1,4-Dichlorobenzene	Not detected	2	0.19	ppbv	10	106-46-7	Y
trans-1,3-Dichloropropene	Not detected	2	0.13	ppbv	10	10061-02-6	Y
Ethanol*	8.40	25	0.68	ppbv	10	64-17-5	JY
Ethylbenzene	Not detected	2	0.20	ppbv	10	100-41-4	Y
Ethyl Acetate*	Not detected	20	0.49	ppbv	10	141-78-6	Y
4-Ethyltoluene	Not detected	2	0.32	ppbv	10	622-96-8	Y
Freon 113	Not detected	2	0.24	ppbv	10	76-13-1	Y
Freon 114	Not detected	2	0.29	ppbv	10	76-14-2	Y
Heptane	123	2	0.15	ppbv	10	142-82-5	Y
Hexachlorobutadiene	Not detected	2	0.29	ppbv	10	87-68-3	Y
Hexane	159	2	0.19	ppbv	10	110-54-3	Y
2-Hexanone*	Not detected	5	0.21	ppbv	10	591-78-6	Y
Isopropyl Alcohol*	Not detected	20	0.76	ppbv	10	67-63-0	Y
Methylene chloride	Not detected	5	1.4	ppbv	10	75-09-2	Y
2-Butanone (MEK)	Not detected	20	0.46	ppbv	10	78-93-3	Y
4-Methyl-2-pentanone (MIBK)	Not detected	5	0.17	ppbv	10	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	2	0.10	ppbv	10	1634-04-4	Y
Methyl methacrylate	Not detected	2	0.17	ppbv	10	80-62-6	Y
Naphthalene	0.20	2	0.10	ppbv	10	91-20-3	JYB
Propylene*	Not detected	100	0.38	ppbv	10	115-07-1	Y
Styrene	Not detected	2	0.15	ppbv	10	100-42-5	Y
1,1,1-Trichloroethane	Not detected	2	0.17	ppbv	10	71-55-6	Y
1,1,2,2-Tetrachloroethane	Not detected	2	0.14	ppbv	10	79-34-5	Y
1,1,2-Trichloroethane	Not detected	2	0.15	ppbv	10	79-00-5	Y
1,2,4-Trichlorobenzene	0.20	5	0.15	ppbv	10	120-82-1	JYB
1,2,4-Trimethylbenzene	Not detected	2	0.29	ppbv	10	95-63-6	Y
1,3,5-Trimethylbenzene	Not detected	2	0.25	ppbv	10	108-67-8	Y
2,2,4-Trimethylpentane	Not detected	2	0.14	ppbv	10	540-84-1	Y
Tert-butyl Alcohol	Not detected	10	0.41	ppbv	10	75-65-0	Y
Tetrachloroethene	0.80	2	0.24	ppbv	10	127-18-4	JY
Tetrahydrofuran*	Not detected	2	0.29	ppbv	10	109-99-9	Y
Toluene	Not detected	2	0.13	ppbv	10	108-88-3	Y
Trichloroethene	Not detected	2	0.23	ppbv	10	79-01-6	Y
Trichlorofluoromethane	Not detected	2	0.17	ppbv	10	75-69-4	Y
Vinyl chloride	Not detected	2	0.29	ppbv	10	75-01-4	Y
Vinyl acetate	Not detected	20	0.15	ppbv	10	108-05-4	Y
p,m-Xylene	Not detected	4	0.38	ppbv	10		Y
o-Xylene	Not detected	2	0.20	ppbv	10	95-47-6	Y
Total Xylenes	Not detected	6	0.58	ppbv	10	1330-20-7	Y

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/28/22 21:05, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	48	1.4	ug/m3	10	67-64-1	Y
1,3-Butadiene	Not detected	44	0.64	ug/m3	10	106-99-0	Y
Benzene	Not detected	6.4	0.61	ug/m3	10	71-43-2	Y
Bromodichloromethane	Not detected	13	1.5	ug/m3	10	75-27-4	Y

Y-Elevated reporting limit due to high target concentration

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S33701.14 (continued)

Sample Tag: 224121-SS-30-09

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/28/22 21:05, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Bromoform	Not detected	21	2.4	ug/m3	10	75-25-2	Y
Bromomethane	Not detected	7.8	1.3	ug/m3	10	74-83-9	Y
Vinyl bromide	Not detected	8.7	1.5	ug/m3	10	593-60-2	Y
Benzyl chloride	Not detected	10	1.5	ug/m3	10	100-44-7	Y
Carbon disulfide	100	16	0.59	ug/m3	10	75-15-0	YB-UJ
Chlorobenzene	Not detected	9.2	0.78	ug/m3	10	108-90-7	Y
Chloroethane	11.6	53	1.2	ug/m3	10	75-00-3	JY
Chloroform	0.98	9.8	0.98	ug/m3	10	67-66-3	JY
Chloromethane	Not detected	41	0.83	ug/m3	10	74-87-3	Y
3-Chloropropene	Not detected	63	0.75	ug/m3	10	107-05-1	Y
2-Chlorotoluene	Not detected	10	1.2	ug/m3	10	95-49-8	Y
Carbon tetrachloride	Not detected	13	1.3	ug/m3	10	56-23-5	Y
Cyclohexane	Not detected	6.9	0.83	ug/m3	10	110-82-7	Y
1,1-Dichloroethane	Not detected	8.1	1.0	ug/m3	10	75-34-3	Y
1,1-Dichloroethene	Not detected	7.9	0.95	ug/m3	10	75-35-4	Y
1,2-Dibromoethane	Not detected	15	0.77	ug/m3	10	106-93-4	Y
1,2-Dichloroethane	Not detected	8.1	1.1	ug/m3	10	107-06-2	Y
1,2-Dichloropropane	Not detected	9.2	0.92	ug/m3	10	78-87-5	Y
1,4-Dioxane	Not detected	90	1.4	ug/m3	10	123-91-1	Y
Dichlorodifluoromethane	1.5	9.9	1.3	ug/m3	10	75-71-8	JY
Dibromochloromethane	Not detected	17	1.4	ug/m3	10	124-48-1	Y
trans-1,2-Dichloroethene	Not detected	7.9	0.83	ug/m3	10	156-60-5	Y
cis-1,2-Dichloroethene	Not detected	7.9	0.91	ug/m3	10	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	9.1	0.91	ug/m3	10	10061-01-5	Y
1,3-Dichlorobenzene	Not detected	12	1.2	ug/m3	10	541-73-1	Y
1,2-Dichlorobenzene	Not detected	12	1.4	ug/m3	10	95-50-1	Y
1,4-Dichlorobenzene	Not detected	12	1.1	ug/m3	10	106-46-7	Y
trans-1,3-Dichloropropene	Not detected	9.1	0.59	ug/m3	10	10061-02-6	Y
Ethanol*	15.8	47	1.3	ug/m3	10	64-17-5	JY
Ethylbenzene	Not detected	8.7	0.87	ug/m3	10	100-41-4	Y
Ethyl Acetate*	Not detected	72	1.8	ug/m3	10	141-78-6	Y
4-Ethyltoluene	Not detected	9.8	1.6	ug/m3	10	622-96-8	Y
Freon 113	Not detected	15	1.8	ug/m3	10	76-13-1	Y
Freon 114	Not detected	14	2.0	ug/m3	10	76-14-2	Y
Heptane	504	8.2	0.61	ug/m3	10	142-82-5	Y
Hexachlorobutadiene	Not detected	21	3.1	ug/m3	10	87-68-3	Y
Hexane	560	7.0	0.67	ug/m3	10	110-54-3	Y
2-Hexanone*	Not detected	20	0.86	ug/m3	10	591-78-6	Y
Isopropyl Alcohol*	Not detected	49	1.9	ug/m3	10	67-63-0	Y
Methylene chloride	Not detected	17	4.9	ug/m3	10	75-09-2	Y
2-Butanone (MEK)	Not detected	59	1.4	ug/m3	10	78-93-3	Y
4-Methyl-2-pentanone (MIBK)	Not detected	20	0.70	ug/m3	10	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	7.2	0.36	ug/m3	10	1634-04-4	Y
Methyl methacrylate	Not detected	8.2	0.70	ug/m3	10	80-62-6	Y
Naphthalene	10 1.0---	10	0.52	ug/m3	10	91-20-3	YB-U
Propylene*	Not detected	170	0.65	ug/m3	10	115-07-1	Y
Styrene	Not detected	8.5	0.64	ug/m3	10	100-42-5	Y

Y-Elevated reporting limit due to high target concentration

B-Compound also found in associated method blank

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33701.14 (continued)
Sample Tag: 224121-SS-30-09

TO-15 (Replicate 01), Method: TO-15, Run Date: 03/28/22 21:05, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,1,1-Trichloroethane	Not detected	11	0.93	ug/m3	10	71-55-6	Y
1,1,2,2-Tetrachloroethane	Not detected	14	0.96	ug/m3	10	79-34-5	Y
1,1,2-Trichloroethane	Not detected	11	0.82	ug/m3	10	79-00-5	Y
1,2,4-Trichlorobenzene	371.5--	37	1.1	ug/m3	10	120-82-1	--JYB--U
1,2,4-Trimethylbenzene	Not detected	9.8	1.4	ug/m3	10	95-63-6	Y
1,3,5-Trimethylbenzene	Not detected	9.8	1.2	ug/m3	10	108-67-8	Y
2,2,4-Trimethylpentane	Not detected	9.3	0.65	ug/m3	10	540-84-1	Y
Tert-butyl Alcohol	Not detected	30	1.2	ug/m3	10	75-65-0	Y
Tetrachloroethene	5.4	14	1.6	ug/m3	10	127-18-4	JY
Tetrahydrofuran*	Not detected	5.9	0.86	ug/m3	10	109-99-9	Y
Toluene	Not detected	7.5	0.49	ug/m3	10	108-88-3	Y
Trichloroethene	Not detected	11	1.2	ug/m3	10	79-01-6	Y
Trichlorofluoromethane	Not detected	11	0.96	ug/m3	10	75-69-4	Y
Vinyl chloride	Not detected	5.1	0.74	ug/m3	10	75-01-4	Y
Vinyl acetate	Not detected	70	0.53	ug/m3	10	108-05-4	Y
p,m-Xylene	Not detected	17	1.6	ug/m3	10		Y
o-Xylene	Not detected	8.7	0.87	ug/m3	10	95-47-6	Y
Total Xylenes	Not detected	26	2.5	ug/m3	10	1330-20-7	Y

Y-Elevated reporting limit due to high target concentration
J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

ALH 4/25/22



Analytical Laboratory Report

Lab Sample ID: S33701.15

Sample Tag: 224121-IA-30-09

Collected Date/Time: 03/08/2022 17:31 - 03/09/2022 17:01

Matrix: Air

COC Reference: A5311

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-2	N/A	03/10/22 14:20	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/14/22 21:38, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	19.4	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.2	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.180	0.5	0.019	ppbv	1	75-15-0	JB
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.170	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.530	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.070	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.100	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	552.4	2.5	0.068	ppbv	1	64-17-5	E
Ethylbenzene	0.2	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	2.6	2.0	0.049	ppbv	1	141-78-6	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

E-Concentration exceeds calibration range

Analytical Laboratory Report

Lab Sample ID: S33701.15 (continued)

Sample Tag: 224121-IA-30-09

TO-15, Method: TO-15, Run Date: 03/14/22 21:38, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	Not detected	0.4	0.032	ppbv	1	622-96-8	X
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	Not detected	0.3	0.015	ppbv	1	142-82-5	X
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.2	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	5.5	0.076	ppbv	1	67-63-0	X
Methylene chloride	1.4	0.5	0.14	ppbv	1	75-09-2	
2-Butanone (MEK)	0.620	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.060	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	0.130	0.2	0.017	ppbv	1	80-62-6	J
Naphthalene	0.080	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.110	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.3	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.070	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.090	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	0.340	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.2	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.9	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.180	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.6	0.4	0.038	ppbv	1		
o-Xylene	0.2	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	0.8	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 03/14/22 21:38, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	46.1	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.64	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	1.6 0.561--	1.6	0.059	ug/m3	1	75-15-0	JB--U
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

X-Elevated reporting limit due to matrix interference

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

Lab Sample ID: S33701.15 (continued)

Sample Tag: 224121-IA-30-09

TO-15, Method: TO-15, Run Date: 03/14/22 21:38, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.830	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	1.09	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.44	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 ~~0.601~~ ----	1.2	0.11	ug/m3	1	106-46-7	JB----U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	1,041	4.7	0.13	ug/m3	1	64-17-5	E--J
Ethylbenzene	0.87	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	9.4	7.2	0.18	ug/m3	1	141-78-6	
4-Ethyltoluene	Not detected	2.0	0.16	ug/m3	1	622-96-8	X
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	Not detected	1.2	0.061	ug/m3	1	142-82-5	X
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	0.70	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	14	0.19	ug/m3	1	67-63-0	X
Methylene chloride	4.9	1.7	0.49	ug/m3	1	75-09-2	
2-Butanone (MEK)	1.83	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.25	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	0.532	0.82	0.070	ug/m3	1	80-62-6	J
Naphthalene	1.0 ~~0.42~~ ----	1.0	0.052	ug/m3	1	91-20-3	JB----U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.469	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	UJ
1,2,4-Trimethylbenzene	1.5	0.98	0.14	ug/m3	1	95-63-6	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

E-Concentration exceeds calibration range

X-Elevated reporting limit due to matrix interference

ALH 4/25/22



Analytical Laboratory Report

Lab Sample ID: S33701.15 (continued)

Sample Tag: 224121-IA-30-09

TO-15, Method: TO-15, Run Date: 03/14/22 21:38, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,3,5-Trimethylbenzene	0.34	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	0.42	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	1.03	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	1.4	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	3.4	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.01	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	2.6	1.7	0.16	ug/m3	1		
o-Xylene	0.87	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	3.5	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33701.16

Sample Tag: 224121-OA-30-09

Collected Date/Time: 03/08/2022 17:33 - 03/09/2022 17:05

Matrix: Air

COC Reference: A5311

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	0	N/A	03/10/22 14:20	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 03/14/22 22:08, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	3.6	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.2	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.110	0.5	0.019	ppbv	1	75-15-0	JB
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.020	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.490	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.070	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	31.8	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.090	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.240	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.3	0.2	0.032	ppbv	1	622-96-8	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33701.16 (continued)

Sample Tag: 224121-OA-30-09

TO-15, Method: TO-15, Run Date: 03/14/22 22:08, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	Not detected	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.140	0.2	0.019	ppbv	1	110-54-3	J
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	1.550	2.0	0.076	ppbv	1	67-63-0	J
Methylene chloride	0.21	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.300	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	0.090	0.2	0.017	ppbv	1	80-62-6	J
Naphthalene	0.030	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.020	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.8	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.3	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.080	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	Not detected	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	0.080	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.6	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.180	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.300	0.4	0.038	ppbv	1		J
o-Xylene	0.130	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.430	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 03/14/22 22:08, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	8.6	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.64	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	1.6-0.343	1.6	0.059	ug/m3	1	75-15-0	JB-U
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.098	0.98	0.098	ug/m3	1	67-66-3	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 4/25/22



Analytical Laboratory Report

Lab Sample ID: S33701.16 (continued)

Sample Tag: 224121-OA-30-09

TO-15, Method: TO-15, Run Date: 03/14/22 22:08, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	1.01	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.44	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	59.9	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.39	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	0.865	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	1.5	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	Not detected	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	0.493	0.70	0.067	ug/m3	1	110-54-3	J
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	3.810	4.9	0.19	ug/m3	1	67-63-0	J
Methylene chloride	0.73	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	0.885	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	0.37	0.82	0.070	ug/m3	1	80-62-6	J
Naphthalene	1.0 0.16---	1.0	0.052	ug/m3	1	91-20-3	JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.085	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	UJ
1,2,4-Trimethylbenzene	3.9	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	1.5	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	0.37	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	Not detected	3.0	0.12	ug/m3	1	75-65-0	
Tetrachloroethene	0.54	1.4	0.16	ug/m3	1	127-18-4	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 4/25/22



Analytical Laboratory Report

Lab Sample ID: S33701.16 (continued)

Sample Tag: 224121-OA-30-09

TO-15, Method: TO-15, Run Date: 03/14/22 22:08, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	2.3	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.01	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.30	1.7	0.16	ug/m3	1		J
o-Xylene	0.564	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	1.87	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL

VALIDATA

Chemical Services, Inc.

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(770) 232-0130

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DATA USABILITY SUMMARY REPORT

COMPANY: AECOM Technical Services Northeast, Inc.
PROJECT NAME: Meeker Ave. SVI
CONTRACTED LAB: Merit Laboratories, Inc.
QA/QC LEVEL: DUSR
ANALYTICAL METHOD(S): EPA Method TO-15
VALIDATION GUIDELINES: USEPA Region II data validation SOP (VOA-TO15 HW-31 Rev.6, Analysis of VOCs in Air contained in Canisters by Method TO-15, September 2016), Professional Judgment

SAMPLE MATRIX: Air
TYPES OF ANALYSES: Volatile Organic Compounds (VOC)
DATA REVIEWER(S): Amy L. Hogan
SDG NUMBER: 33822
SAMPLING DATE(S): March 10-11, 2022

SAMPLES:

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>VOC</u>
224121-SSA-151	S33822.01	X
224121-IAA-151	S33822.02	X
224121-SSB-151	S33822.03	X
224121-IAB-151	S33822.04	X
224121-SSC-151	S33822.05	X
224121-IAC-151	S33822.06	X
224121-OA-151	S33822.07	X
224121-SS-150	S33822.08	X
224121-IA-150	S33822.09	X
224121-OA-150	S33822.10	X
224121-SS-78	S33822.11	X
224121-IA-78	S33822.12	X
224121-OA-78	S33822.13	X
224121-SS-151	S33822.14	X
FD-031022-1	S33822.15	X
224121-IA-152	S33822.16	X
FD-031022-2	S33822.17	X
224121-IAA-107	S33822.18	X
224121-IAB-107	S33822.19	X
224121-OA-107	S33822.20	X

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>VOC</u>
224121-SS-153	S33822.21	X
FD-031122-1	S33822.22	X
224121-BA-153	S33822.23	X
FD-031122-2	S33822.24	X
224121-IA-153	S33822.25	X
224121-OA-153	S33822.26	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Merit Laboratories, Inc. – 33822

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per EPA Method TO-15.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

Initial Calibration Verification data was not submitted for this SDG. Data qualification based on the absence of Initial Calibration Verification data was not required. No data qualification was necessary.

Continuing Calibration:

All Continuing Calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were detections in method blanks GV220408g1 and GV220408g2 for the following compounds:

Propylene	0.21 ppbv
1,3-dichlorobenzene	0.03 ppbv
1,2,4-trichlorobenzene	0.04 ppbv
Naphthalene	0.07 ppbv

Since the blank results were less than the equal to the RL, the positive results for these compounds in the SDG samples, which were less than the RL, were qualified as undetected (U) with the result being raised to the RL.

Canister Blanks:

There were no detects in the canister check blanks for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

Two LCS / LCSD sets were analyzed by the laboratory for this SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Duplicate:

Matrix Duplicate analysis data was not submitted for this SDG. Data qualification based on the absence of MD data was not required. No data qualification was necessary.

X.) Field Duplicates:

Four sets of field duplicate samples (224121-SS-152 / FD-031022-1, 224121-IA-152 / FD-031022-2, 224121-SS-153 / FD-031122-1 and 224121-BA-153 / FD-03122-2) were identified as part of this SDG. The calculable Relative Percent Differences (RPDs) for the first set were:

Acetone	6.6%
Benzene	0%
Carbon disulfide	12%
Carbon tetrachloride	0%
Chloroform	0%
Chloroethane	1.6%

1,1-dichloroethane	0%
1,2-dichloroethane	0%
1,4-dioxane	9.0%
Dichlorodifluoromethane	0%
Ethanol	0.6%
Ethylbenzene	15%
Ethyl acetate	15%
Freon 113	0%
Heptane	0%
Hexane	4.4%
2-hexanone	18%
Methylene chloride	8.4%
2-butanone	4.9%
4-methyl-2-pentanone	17%
Styrene	0%
1,2,4-trimethylbenzene	48%
1,3,5-trimethylbenzene	0%
2,2,4-trimethylpentane	8.0%
Tert-butyl alcohol	74%
Tetrachloroethene	5.6%
Tetrahydrofuran	0%
Toluene	12%
Trichlorofluoromethane	2.8%
Vinyl chloride	0%
M,p-xylene	35%
o-xylene	21%
total xylenes	32%

The RPD for tert-butyl alcohol exceeded the 50% QC limit. Citing the exceedances and professional judgment, the validator has qualified the positive results for this compound in the two samples were qualified as estimated (J).

The RPDs for the second set were:

Acetone	5.1%
Benzene	30%
Carbon tetrachloride	0%
Chloroform	0%
Chloromethane	2.7%
Cyclohexane	0%
Dichlorodifluoromethane	0%
1,4-dichlorobenzene	13%
Ethanol	10%
Ethylbenzene	0%
Ethyl acetate	55%
4-ethyltoluene	99%
Freon 113	19%

Heptane	0%
Hexane	0%
Methylene chloride	9.5%
2-butanone	20%
4-methyl-2-pentanone	20%
Methyl methacrylate	21%
Styrene	0%
1,2,4-trimethylbenzene	35%
1,3,5-trimethylbenzene	44%
2,2,4-trimethylpentane	54%
Tert-butyl alcohol	0%
Tetrachloroethene	35%
Tetrahydrofuran	0%
Toluene	18%
Trichloroethene	0%
Trichlorofluoromethane	0%
M,p-xylene	5.9%
o-xylene	26%
total xylenes	0%

The RPDs for ethyl acetate, 4-ethyltoluene and 2,2,4-trimethylpentanone exceeded the 50% QC limit. Citing the exceedances and professional judgment, the validator has qualified the positive results for these compounds in the two samples as estimated (J).

The RPDs for the third set were:

Acetone	29%
Benzene	42%
Carbon disulfide	150%
Chloroethane	35%
Chloroform	36%
Carbon tetrachloride	0%
Cyclohexane	34%
1,1-dichloroethane	40%
1,2-dichloroethane	38%
Dichlorodifluoromethane	0%
1,4-dichlorobenzene	0%
Ethanol	130%
Ethylbenzene	130%
Ethyl acetate	160%
Freon 113	19%
Heptane	22%
Hexane	27%
Methylene chloride	43%
2-butanone	19%
4-methyl-2-pentanone	22%
1,2,4-trimethylbenzene	41%

2,2,4-trimethylpentane	30%
Tert-butyl alcohol	23%
Tetrachloroethene	31%
Tetrahydrofuran	6.6%
Toluene	57%
Trichloroethene	27%
Trichlorofluoromethane	0%
Vinyl chloride	36%
M,p-xylene	120%
o-xylene	120%
total xylenes	120%

The RPDs for carbon disulfide, ethanol, ethylbenzene, ethyl acetate, toluene, m,p-xylene, o-xylene and total xylenes exceeded the 50% QC limit. Citing the exceedances and professional judgment, the validator has qualified the positive results for these compounds in the two samples as estimated (J).

The RPDs for the fourth set were:

Acetone	11%
Benzene	0%
Carbon tetrachloride	20%
Chloroform	61%
Chloromethane	9.1%
Cyclohexane	6.6%
1,1-dichloroethene	0%
Dichlorodifluoromethane	0%
1,4-dichlorobenzene	0%
Ethanol	10%
Ethylbenzene	0%
Ethyl acetate	24%
4-ethyltoluene	12%
Freon 113	0%
Hexane	0%
Methylene chloride	0%
2-butanone	79%
Styrene	0%
1,2,4-trimethylbenzene	0%
1,3,5-trimethylbenzene	0%
2,2,4-trimethylpentane	110%
Tert-butyl alcohol	7.9%
Tetrachloroethene	54%
Toluene	0%
Trichlorofluoromethane	0%
M,p-xylene	0%
o-xylene	0%
total xylenes	0%

The RPDs for chloroform, 2-butanone, 2,2,4-trimethylpentane and tetrachloroethene exceeded the 50% QC limit. Citing the exceedances and professional judgment, the validator has qualified the positive results for these compounds in the two samples as estimated (J).

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

The ethanol results for samples 224121-IAA-151, 224121-IAB-151, 224121-IAC-151, 22421-IA-152, FD-031022-2 and 224121-IA-153 exceeded the linear calibration range and was qualified as estimated (J).

All other CRQL criteria were met.

Appendix A

Qualified Form Is



Analytical Laboratory Report

Lab Sample ID: S33822.01

Sample Tag: 224121-SSA-151

Collected Date/Time: 03/10/2022 09:29 - 03/10/2022 16:17

Matrix: Air

COC Reference: A5310

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-10	N/A	03/15/22 12:25	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/08/22 15:07, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	9.4	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.2	0.029	ppbv	1	106-99-0	X
Benzene	1.6	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	0.040	0.2	0.023	ppbv	1	75-27-4	J
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	5.6	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	15.0	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.7	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.180	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	1.4	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	0.4	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.030	0.2	0.028	ppbv	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	9.1	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.120	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.180	2.0	0.049	ppbv	1	141-78-6	J

X-Elevated reporting limit due to matrix interference

J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S33822.01 (continued)

Sample Tag: 224121-SSA-151

TO-15, Method: TO-15, Run Date: 04/08/22 15:07, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.7	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	1.2	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	0.090	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	0.930	2.0	0.076	ppbv	1	67-63-0	J
Methylene chloride	0.18	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.870	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.150	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	9.560	10	0.038	ppbv	1	115-07-1	JB
Styrene	Not detected	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	0.6	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.2	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	1.3	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.240	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.9	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.8	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	0.030	0.2	0.023	ppbv	1	79-01-6	J
Trichlorofluoromethane	0.170	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	1.2	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.340	0.4	0.038	ppbv	1		J
o-Xylene	0.190	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.530	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 04/08/22 15:07, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	22	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.9	0.064	ug/m3	1	106-99-0	X
Benzene	5.1	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	0.27	1.3	0.15	ug/m3	1	75-27-4	J
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	17	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33822.01 (continued)

Sample Tag: 224121-SSA-151

TO-15, Method: TO-15, Run Date: 04/08/22 15:07, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	39.6	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	3.4	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	1.13	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	4.8	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	1.6	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	0.12	0.81	0.11	ug/m3	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	17	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.521	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	0.649	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	2.9	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	4.2	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	0.37	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	2.29	4.9	0.19	ug/m3	1	67-63-0	J
Methylene chloride	0.63	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	2.57	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.786~~	1.0	0.052	ug/m3	1	91-20-3	~~JB~~ ---U
Propylene*	17 ~~16.45~~	17	0.065	ug/m3	1	115-07-1	~~JB~~ ---U
Styrene	Not detected	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	3.3	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.98	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	6.1	0.93	0.065	ug/m3	1	540-84-1	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 4/26/22



Analytical Laboratory Report

Lab Sample ID: S33822.01 (continued)
Sample Tag: 224121-SSA-151

TO-15, Method: TO-15, Run Date: 04/08/22 15:07, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	0.728	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	6.1	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	3.0	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	0.16	1.1	0.12	ug/m3	1	79-01-6	J
Trichlorofluoromethane	0.955	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	3.1	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.48	1.7	0.16	ug/m3	1		J
o-Xylene	0.825	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	2.30	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33822.02

Sample Tag: 224121-IAA-151

Collected Date/Time: 03/10/2022 09:30 - 03/10/2022 16:17

Matrix: Air

COC Reference: A5310

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-9	N/A	03/15/22 12:25	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/08/22 15:37, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	9.7	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	1.0	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	Not detected	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.060	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.600	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.5	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.3	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.040	0.2	0.019	ppbv	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	213.8	2.5	0.068	ppbv	1	64-17-5	E
Ethylbenzene	0.5	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	0.550	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

E-Concentration exceeds calibration range

Analytical Laboratory Report

Lab Sample ID: S33822.02 (continued)

Sample Tag: 224121-IAA-151

TO-15, Method: TO-15, Run Date: 04/08/22 15:37, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.2	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.9	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	1.6	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	1.610	2.0	0.076	ppbv	1	67-63-0	J
Methylene chloride	0.26	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	1.640	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.240	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	0.3	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.060	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	51	0.038	ppbv	1	115-07-1	X
Styrene	0.060	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.5	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.160	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	1.7	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.250	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.080	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	3.6	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	0.060	0.2	0.023	ppbv	1	79-01-6	J
Trichlorofluoromethane	0.160	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	1.8	0.4	0.038	ppbv	1		
o-Xylene	0.6	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	2.4	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 04/08/22 15:37, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	23	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	3.2	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	Not detected	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S33822.02 (continued)

Sample Tag: 224121-IAA-151

TO-15, Method: TO-15, Run Date: 04/08/22 15:37, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.29	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	1.24	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	1.7	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	1.5	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	0.24	1.2	0.11	ug/m3	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	402.9	4.7	0.13	ug/m3	1	64-17-5	E--J
Ethylbenzene	2.2	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	1.98	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.98	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	3.7	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	5.6	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	3.958	4.9	0.19	ug/m3	1	67-63-0	J
Methylene chloride	0.90	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	4.837	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.983	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	1.2	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 -0.31	1.0	0.052	ug/m3	1	91-20-3	JB--U
Propylene*	Not detected	88	0.065	ug/m3	1	115-07-1	X
Styrene	0.26	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	2.5	0.98	0.14	ug/m3	1	95-63-6	

J-Estimated value less than reporting limit, but greater than MDL

E-Concentration exceeds calibration range

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33822.02 (continued)

Sample Tag: 224121-IAA-151

TO-15, Method: TO-15, Run Date: 04/08/22 15:37, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,3,5-Trimethylbenzene	0.787	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	7.9	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	0.758	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.54	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	14	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	0.32	1.1	0.12	ug/m3	1	79-01-6	J
Trichlorofluoromethane	0.899	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	7.8	1.7	0.16	ug/m3	1		
o-Xylene	2.6	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	10	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33822.03

Sample Tag: 224121-SSB-151

Collected Date/Time: 03/10/2022 09:32 - 03/10/2022 16:20

Matrix: Air

COC Reference: A5310

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-12	N/A	03/15/22 12:25	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/08/22 16:08, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	87.3	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.4	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.110	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	15.3	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.2	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.040	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.4	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	0.6	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.4	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	0.090	2.5	0.038	ppbv	1	123-91-1	J
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	55.5	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.180	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	Not detected	2.0	0.049	ppbv	1	141-78-6	
4-Ethyltoluene	1.6	0.2	0.032	ppbv	1	622-96-8	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33822.03 (continued)

Sample Tag: 224121-SSB-151

TO-15, Method: TO-15, Run Date: 04/08/22 16:08, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.5	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	1.4	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	4.0	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.20	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	2.3	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	0.390	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.040	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	22	0.038	ppbv	1	115-07-1	X
Styrene	0.040	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	11.5	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	2.7	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	1.8	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.410	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.6	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.4	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.9	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.180	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	1.2	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.7	0.4	0.038	ppbv	1		
o-Xylene	0.3	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	1.0	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 04/08/22 16:08, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	207	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	1.3	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.343	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	40.4	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33822.03 (continued)

Sample Tag: 224121-SSB-151

TO-15, Method: TO-15, Run Date: 04/08/22 16:08, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	0.98	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.25	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	1.4	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	2.4	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	1.6	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	0.32	9.0	0.14	ug/m3	1	123-91-1	J
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	105	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.782	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	Not detected	7.2	0.18	ug/m3	1	141-78-6	
4-Ethyltoluene	7.9	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	2.0	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	4.9	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	9.8	0.19	ug/m3	1	67-63-0	X
Methylene chloride	0.69	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	6.8	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	1.60	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~-0.21-~~	1.0	0.052	ug/m3	1	91-20-3	-JB-U
Propylene*	Not detected	38	0.065	ug/m3	1	115-07-1	X
Styrene	0.17	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	56.5	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	13	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	8.4	0.93	0.065	ug/m3	1	540-84-1	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

ALH 4/26/22



Analytical Laboratory Report

Lab Sample ID: S33822.03 (continued)
Sample Tag: 224121-SSB-151

TO-15, Method: TO-15, Run Date: 04/08/22 16:08, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	1.24	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	4.1	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	1.2	0.59	0.086	ug/m3	1	109-99-9	
Toluene	3.4	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.01	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	3.1	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	3.0	1.7	0.16	ug/m3	1		
o-Xylene	1.3	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	4.3	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33822.04

Sample Tag: 224121-IAB-151

Collected Date/Time: 03/10/2022 09:33 - 03/10/2022 16:20

Matrix: Air

COC Reference: A5310

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-12	N/A	03/15/22 12:25	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/08/22 16:39, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	9.4	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	1.5	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	Not detected	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.020	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.470	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.050	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.7	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.020	0.2	0.019	ppbv	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	147.2	2.5	0.068	ppbv	1	64-17-5	E
Ethylbenzene	0.8	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	0.460	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

E-Concentration exceeds calibration range

Analytical Laboratory Report

Lab Sample ID: S33822.04 (continued)

Sample Tag: 224121-IAB-151

TO-15, Method: TO-15, Run Date: 04/08/22 16:39, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.3	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.8	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	2.0	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.28	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	1.980	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.110	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	0.3	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.070	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	61	0.038	ppbv	1	115-07-1	X
Styrene	0.070	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.9	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.2	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	2.8	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.110	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.080	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	5.5	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.170	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	2.8	0.4	0.038	ppbv	1		
o-Xylene	1.0	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	3.8	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 04/08/22 16:39, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	22	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	4.8	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	Not detected	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33822.04 (continued)

Sample Tag: 224121-IAB-151

TO-15, Method: TO-15, Run Date: 04/08/22 16:39, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.098	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	0.971	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.31	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	2.4	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	0.12	1.2	0.11	ug/m3	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	277.4	4.7	0.13	ug/m3	1	64-17-5	-E-J
Ethylbenzene	3.5	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	1.66	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	1.5	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	3.3	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	7.0	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.97	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	5.840	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.451	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	1.2	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 0.37--	1.0	0.052	ug/m3	1	91-20-3	--JB-U
Propylene*	Not detected	100	0.065	ug/m3	1	115-07-1	X
Styrene	0.30	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	4.4	0.98	0.14	ug/m3	1	95-63-6	

J-Estimated value less than reporting limit, but greater than MDL

E-Concentration exceeds calibration range

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference

ALH 4/26/22



Analytical Laboratory Report

Lab Sample ID: S33822.04 (continued)
Sample Tag: 224121-IAB-151

TO-15, Method: TO-15, Run Date: 04/08/22 16:39, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,3,5-Trimethylbenzene	0.98	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	13	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	0.333	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.54	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	21	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	0.955	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	12	1.7	0.16	ug/m3	1		
o-Xylene	4.3	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	16	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33822.05

Sample Tag: 224121-SSC-151

Collected Date/Time: 03/10/2022 09:35 - 03/10/2022 16:25

Matrix: Air

COC Reference: A5310

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-8	N/A	03/15/22 12:25	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/08/22 17:26, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	49.7	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.3	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	1.5	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	7.2	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.120	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	Not detected	0.2	0.020	ppbv	1	56-23-5	
Cyclohexane	0.3	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	0.180	0.2	0.025	ppbv	1	75-34-3	J
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.090	0.2	0.028	ppbv	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	39.2	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.120	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.170	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S33822.05 (continued)

Sample Tag: 224121-SSC-151

TO-15, Method: TO-15, Run Date: 04/08/22 17:26, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.5	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	1.1	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.15	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	1.840	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.320	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	0.190	0.2	0.017	ppbv	1	80-62-6	J
Naphthalene	0.040	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.020	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	0.170	0.2	0.017	ppbv	1	71-55-6	J
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.180	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.060	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	1.1	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.430	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.190	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.9	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.160	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	0.7	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.370	0.4	0.038	ppbv	1		J
o-Xylene	0.160	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.530	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 04/08/22 17:26, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	118	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.96	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	4.7	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	19	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.586	0.98	0.098	ug/m3	1	67-66-3	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33822.05 (continued)

Sample Tag: 224121-SSC-151

TO-15, Method: TO-15, Run Date: 04/08/22 17:26, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	Not detected	1.3	0.13	ug/m3	1	56-23-5	
Cyclohexane	1.0	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	0.729	0.81	0.10	ug/m3	1	75-34-3	J
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	0.36	0.81	0.11	ug/m3	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	73.9	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.521	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	0.613	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	2.0	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	3.9	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.52	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	5.427	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	1.31	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	0.778	0.82	0.070	ug/m3	1	80-62-6	J
Naphthalene	1.0 ~~0.21~~	1.0	0.052	ug/m3	1	91-20-3	~~JB~~ U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.085	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	0.928	1.1	0.093	ug/m3	1	71-55-6	J
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.885	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.29	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	5.1	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	1.30	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	1.29	1.4	0.16	ug/m3	1	127-18-4	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 4/26/22



Analytical Laboratory Report

Lab Sample ID: S33822.05 (continued)
Sample Tag: 224121-SSC-151

TO-15, Method: TO-15, Run Date: 04/08/22 17:26, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	3.4	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	0.899	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	1.8	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.61	1.7	0.16	ug/m3	1		J
o-Xylene	0.695	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	2.30	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33822.06

Sample Tag: 224121-IAC-151

Collected Date/Time: 03/10/2022 09:36 - 03/10/2022 16:26

Matrix: Air

COC Reference: A5310

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-8	N/A	03/15/22 12:25	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/08/22 17:59, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	9.7	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	1.2	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	Not detected	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.030	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.620	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.5	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.020	0.2	0.019	ppbv	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	157.8	2.5	0.068	ppbv	1	64-17-5	E
Ethylbenzene	0.6	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	0.430	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

E-Concentration exceeds calibration range

Analytical Laboratory Report

Lab Sample ID: S33822.06 (continued)

Sample Tag: 224121-IAC-151

TO-15, Method: TO-15, Run Date: 04/08/22 17:59, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.2	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.7	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	1.5	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.25	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	1.910	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.130	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	0.3	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.050	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	71	0.038	ppbv	1	115-07-1	X
Styrene	0.060	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.6	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.160	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	2.1	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.350	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.100	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	4.1	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.180	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	2.1	0.4	0.038	ppbv	1		
o-Xylene	0.7	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	2.8	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 04/08/22 17:59, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	23	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	3.8	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	Not detected	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33822.06 (continued)

Sample Tag: 224121-IAC-151

TO-15, Method: TO-15, Run Date: 04/08/22 17:59, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.15	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	1.28	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	1.7	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	0.12	1.2	0.11	ug/m3	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	297.3	4.7	0.13	ug/m3	1	64-17-5	E---J
Ethylbenzene	2.6	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	1.55	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.98	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	2.9	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	5.3	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.87	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	5.633	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.533	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	1.2	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 0.26-----	1.0	0.052	ug/m3	1	91-20-3	JB-U
Propylene*	Not detected	120	0.065	ug/m3	1	115-07-1	X
Styrene	0.26	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	2.9	0.98	0.14	ug/m3	1	95-63-6	

J-Estimated value less than reporting limit, but greater than MDL

E-Concentration exceeds calibration range

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference

ALH 4/26/22



Analytical Laboratory Report

Lab Sample ID: S33822.06 (continued)
Sample Tag: 224121-IAC-151

TO-15, Method: TO-15, Run Date: 04/08/22 17:59, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,3,5-Trimethylbenzene	0.787	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	9.8	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	1.06	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.678	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	15	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.01	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	9.1	1.7	0.16	ug/m3	1		
o-Xylene	3.0	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	12	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33822.07

Sample Tag: 224121-OA-151

Collected Date/Time: 03/10/2022 09:41 - 03/10/2022 16:27

Matrix: Air

COC Reference: A5310

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-9	N/A	03/15/22 12:25	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/08/22 18:32, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	9.0	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	1.0	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	Not detected	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.030	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.4	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.020	0.2	0.019	ppbv	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	72.9	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.4	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	0.410	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.150	0.2	0.032	ppbv	1	622-96-8	J

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S33822.07 (continued)

Sample Tag: 224121-OA-151

TO-15, Method: TO-15, Run Date: 04/08/22 18:32, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.5	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	1.2	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.36	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	1.110	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.120	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	0.160	0.2	0.017	ppbv	1	80-62-6	J
Naphthalene	0.040	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	31	0.038	ppbv	1	115-07-1	X
Styrene	0.060	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.4	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.110	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	1.8	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.150	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.080	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	3.2	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.180	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	1.5	0.4	0.038	ppbv	1		
o-Xylene	0.5	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	2.0	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 04/08/22 18:32, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	21	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	3.2	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	Not detected	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S33822.07 (continued)

Sample Tag: 224121-OA-151

TO-15, Method: TO-15, Run Date: 04/08/22 18:32, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	0.15	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	1.4	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	0.12	1.2	0.11	ug/m3	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	137	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	1.7	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	1.48	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.737	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	2.0	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	4.2	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	1.3	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	3.274	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.492	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	0.655	0.82	0.070	ug/m3	1	80-62-6	J
Naphthalene	1.0 0.21----	1.0	0.052	ug/m3	1	91-20-3	-JB-U
Propylene*	Not detected	53	0.065	ug/m3	1	115-07-1	X
Styrene	0.26	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	2.0	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	0.541	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	8.4	0.93	0.065	ug/m3	1	540-84-1	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33822.07 (continued)

Sample Tag: 224121-OA-151

TO-15, Method: TO-15, Run Date: 04/08/22 18:32, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	0.455	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.54	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	12	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.01	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	6.5	1.7	0.16	ug/m3	1		
o-Xylene	2.2	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	8.7	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33822.08

Sample Tag: 224121-SS-150

Collected Date/Time: 03/10/2022 07:16 - 03/11/2022 06:45

Matrix: Air

COC Reference: A5310

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-8	N/A	03/15/22 12:25	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/08/22 19:04, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	22.2	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.5	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	Not detected	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	40.2	2.0	0.046	ppbv	1	75-00-3	
Chloroform	2.9	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.070	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.3	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	1.4	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	1.7	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	9.7	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.070	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	2.5	2.0	0.049	ppbv	1	141-78-6	
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S33822.08 (continued)

Sample Tag: 224121-SS-150

TO-15, Method: TO-15, Run Date: 04/08/22 19:04, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	Not detected	1.0	0.015	ppbv	1	142-82-5	X
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	1.9	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	0.280	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.25	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	5.2	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	0.400	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.4	0.017	ppbv	1	80-62-6	X
Naphthalene	0.040	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.040	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	0.080	0.2	0.017	ppbv	1	71-55-6	J
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.110	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.030	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	2.4	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.690	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.2	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.110	0.2	0.029	ppbv	1	109-99-9	J
Toluene	0.9	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.190	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	3.0	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	7.0	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.230	0.4	0.038	ppbv	1		J
o-Xylene	0.090	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.320	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 04/08/22 19:04, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	52.7	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	1.6	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	Not detected	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	106	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

Lab Sample ID: S33822.08 (continued)

Sample Tag: 224121-SS-150

TO-15, Method: TO-15, Run Date: 04/08/22 19:04, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	14	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.44	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	1.0	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	5.7	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	6.9	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	18	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.30	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	9.0	7.2	0.18	ug/m3	1	141-78-6	
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	Not detected	4.1	0.061	ug/m3	1	142-82-5	X
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	6.7	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	1.15	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.87	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	15	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	1.64	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	1.6	0.070	ug/m3	1	80-62-6	X
Naphthalene	1.0 0.21-----	1.0	0.052	ug/m3	1	91-20-3	JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.17	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	0.44	1.1	0.093	ug/m3	1	71-55-6	J
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.541	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.15	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	11	0.93	0.065	ug/m3	1	540-84-1	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33822.08 (continued)
Sample Tag: 224121-SS-150

TO-15, Method: TO-15, Run Date: 04/08/22 19:04, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	2.09	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	1.4	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	0.324	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	3.4	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.07	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	7.7	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	25	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	0.999	1.7	0.16	ug/m3	1		J
o-Xylene	0.39	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	1.39	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33822.09

Sample Tag: 224121-IA-150

Collected Date/Time: 03/10/2022 07:18 - 03/11/2022 06:46

Matrix: Air

COC Reference: A5310

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-7	N/A	03/15/22 12:25	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/08/22 19:34, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	6.5	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.3	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	Not detected	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.080	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.460	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.090	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.030	0.2	0.019	ppbv	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	41.6	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.150	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.670	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33822.09 (continued)

Sample Tag: 224121-IA-150

TO-15, Method: TO-15, Run Date: 04/08/22 19:34, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	Not detected	0.3	0.015	ppbv	1	142-82-5	X
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.4	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	3.7	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.33	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.560	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.5	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.040	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.110	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.130	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.040	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	1.4	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.290	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.110	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	0.060	0.2	0.029	ppbv	1	109-99-9	J
Toluene	1.2	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.4	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.4	0.4	0.038	ppbv	1		
o-Xylene	0.170	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.6	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 04/08/22 19:34, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	15	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.96	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	Not detected	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33822.09 (continued)

Sample Tag: 224121-IA-150

TO-15, Method: TO-15, Run Date: 04/08/22 19:34, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	0.39	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	0.950	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.31	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	0.18	1.2	0.11	ug/m3	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	78.4	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.651	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	2.41	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	Not detected	1.2	0.061	ug/m3	1	142-82-5	X
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	1.4	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	9.1	0.19	ug/m3	1	67-63-0	X
Methylene chloride	1.1	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	1.65	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	2.0	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.21~~	1.0	0.052	ug/m3	1	91-20-3	~~JB~~ -U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.469	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.639	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.20	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	6.5	0.93	0.065	ug/m3	1	540-84-1	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33822.09 (continued)

Sample Tag: 224121-IA-150

TO-15, Method: TO-15, Run Date: 04/08/22 19:34, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	0.879	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.746	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	0.18	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	4.5	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	2.2	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.7	1.7	0.16	ug/m3	1		
o-Xylene	0.738	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	2.6	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33822.10

Sample Tag: 224121-OA-150

Collected Date/Time: 03/10/2022 07:20 - 03/11/2022 06:47

Matrix: Air

COC Reference: A5310

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-6	N/A	03/15/22 12:25	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/08/22 20:04, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	8.4	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.3	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	Not detected	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.030	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.410	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.080	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.030	0.2	0.019	ppbv	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	11.0	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.110	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.190	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S33822.10 (continued)

Sample Tag: 224121-OA-150

TO-15, Method: TO-15, Run Date: 04/08/22 20:04, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	Not detected	0.3	0.015	ppbv	1	142-82-5	X
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.3	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.28	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.620	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.290	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	0.080	0.2	0.017	ppbv	1	80-62-6	J
Naphthalene	0.030	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.040	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.140	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.040	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.5	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.150	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.100	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	0.050	0.2	0.029	ppbv	1	109-99-9	J
Toluene	0.9	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.2	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.330	0.4	0.038	ppbv	1		J
o-Xylene	0.140	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.470	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 04/08/22 20:04, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	20	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.96	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	Not detected	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33822.10 (continued)

Sample Tag: 224121-OA-150

TO-15, Method: TO-15, Run Date: 04/08/22 20:04, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	0.15	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	0.847	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.28	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	0.18	1.2	0.11	ug/m3	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	20.7	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.478	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	0.685	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	Not detected	1.2	0.061	ug/m3	1	142-82-5	X
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	1.1	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.97	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	1.83	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	1.19	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	0.33	0.82	0.070	ug/m3	1	80-62-6	J
Naphthalene	1.0 ~~0.16~~	1.0	0.052	ug/m3	1	91-20-3	~~JB~~ -U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.17	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.688	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.20	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	2.3	0.93	0.065	ug/m3	1	540-84-1	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

ALH 4/26/22



Analytical Laboratory Report

Lab Sample ID: S33822.10 (continued)
Sample Tag: 224121-OA-150

TO-15, Method: TO-15, Run Date: 04/08/22 20:04, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	0.455	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.678	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	0.15	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	3.4	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.1	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.43	1.7	0.16	ug/m3	1		J
o-Xylene	0.608	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	2.04	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33822.11

Sample Tag: 224121-SS-78

Collected Date/Time: 03/10/2022 12:17 - 03/11/2022 11:47

Matrix: Air

COC Reference: A5312

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-7	N/A	03/15/22 12:25	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/08/22 20:34, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	12.6	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.3	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	Not detected	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	16.5	2.0	0.046	ppbv	1	75-00-3	
Chloroform	4.7	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.4	0.024	ppbv	1	110-82-7	X
1,1-Dichloroethane	0.8	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.4	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.020	0.2	0.019	ppbv	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	12.2	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.110	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.750	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S33822.11 (continued)

Sample Tag: 224121-SS-78

TO-15, Method: TO-15, Run Date: 04/08/22 20:34, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.4	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.9	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.3	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.26	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	1.240	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.220	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.030	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.060	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	0.2	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.070	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	1.6	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.420	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	4.8	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.090	0.2	0.029	ppbv	1	109-99-9	J
Toluene	1.4	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	1.1	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.2	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	0.9	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.330	0.4	0.038	ppbv	1		J
o-Xylene	0.130	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.460	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 04/08/22 20:34, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	29.9	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.96	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	Not detected	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33822.11 (continued)

Sample Tag: 224121-SS-78

TO-15, Method: TO-15, Run Date: 04/08/22 20:34, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	43.5	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	23	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	1.4	0.083	ug/m3	1	110-82-7	X
1,1-Dichloroethane	3.2	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	1.6	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	0.12	1.2	0.11	ug/m3	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	23.0	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.478	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	2.70	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	1.6	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	3.2	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	5.7	0.19	ug/m3	1	67-63-0	X
Methylene chloride	0.90	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	3.657	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.901	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0	1.0	0.052	ug/m3	1	91-20-3	JB
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.26	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	1.1	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.34	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

ALH 4/26/22



Analytical Laboratory Report

Lab Sample ID: S33822.11 (continued)
Sample Tag: 224121-SS-78

TO-15, Method: TO-15, Run Date: 04/08/22 20:34, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2,2,4-Trimethylpentane	7.5	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	1.27	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	33	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	0.27	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	5.3	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	5.9	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.1	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	2.3	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.43	1.7	0.16	ug/m3	1		J
o-Xylene	0.564	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	2.00	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33822.12

Sample Tag: 224121-IA-78

Collected Date/Time: 03/10/2022 12:18 - 03/11/2022 11:48

Matrix: Air

COC Reference: A5312

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-6	N/A	03/15/22 12:25	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/08/22 21:04, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	16.6	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.6	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	Not detected	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.3	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.3	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.030	0.2	0.028	ppbv	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.080	0.2	0.019	ppbv	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	40.5	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.3	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	0.220	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.190	0.2	0.032	ppbv	1	622-96-8	J

J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S33822.12 (continued)

Sample Tag: 224121-IA-78

TO-15, Method: TO-15, Run Date: 04/08/22 21:04, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.4	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.8	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	9.1	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.5	0.5	0.14	ppbv	1	75-09-2	
2-Butanone (MEK)	0.390	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.060	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.050	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.080	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.5	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.140	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.5	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.130	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.140	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	2.1	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	0.040	0.2	0.023	ppbv	1	79-01-6	J
Trichlorofluoromethane	0.190	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	1.1	0.4	0.038	ppbv	1		
o-Xylene	0.4	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	1.5	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 04/08/22 21:04, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	39.4	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	1.9	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	Not detected	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

Lab Sample ID: S33822.12 (continued)

Sample Tag: 224121-IA-78

TO-15, Method: TO-15, Run Date: 04/08/22 21:04, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	1.5	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	1.0	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	0.12	0.81	0.11	ug/m3	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	0.48	1.2	0.11	ug/m3	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	76.3	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	1.3	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	0.793	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.934	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	1.6	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	2.8	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	22	0.19	ug/m3	1	67-63-0	X
Methylene chloride	1.7	1.7	0.49	ug/m3	1	75-09-2	
2-Butanone (MEK)	1.15	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.25	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 0.26-----	1.0	0.052	ug/m3	1	91-20-3	JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.34	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	2.5	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	0.688	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	2.3	0.93	0.065	ug/m3	1	540-84-1	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33822.12 (continued)
Sample Tag: 224121-IA-78

TO-15, Method: TO-15, Run Date: 04/08/22 21:04, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	0.394	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.950	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	7.9	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	0.21	1.1	0.12	ug/m3	1	79-01-6	J
Trichlorofluoromethane	1.07	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	4.8	1.7	0.16	ug/m3	1		
o-Xylene	1.7	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	6.5	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33822.13

Sample Tag: 224121-OA-78

Collected Date/Time: 03/10/2022 12:22 - 03/11/2022 11:46

Matrix: Air

COC Reference: A5312

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-8	N/A	03/15/22 12:25	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/08/22 21:33, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	4.2	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.3	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	Not detected	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.020	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.430	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.050	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.080	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.030	0.2	0.019	ppbv	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	10.3	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.120	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	Not detected	2.0	0.049	ppbv	1	141-78-6	
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33822.13 (continued)

Sample Tag: 224121-OA-78

TO-15, Method: TO-15, Run Date: 04/08/22 21:33, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.160	0.2	0.015	ppbv	1	142-82-5	J
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.2	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	1.480	2.0	0.076	ppbv	1	67-63-0	J
Methylene chloride	0.7	0.5	0.14	ppbv	1	75-09-2	
2-Butanone (MEK)	0.280	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.030	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.030	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.120	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.040	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.130	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	Not detected	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	0.050	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.7	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.180	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.4	0.4	0.038	ppbv	1		
o-Xylene	0.140	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.570	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 04/08/22 21:33, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	10.0	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.96	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	Not detected	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.098	0.98	0.098	ug/m3	1	67-66-3	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33822.13 (continued)

Sample Tag: 224121-OA-78

TO-15, Method: TO-15, Run Date: 04/08/22 21:33, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	0.888	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.31	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.28	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	0.18	1.2	0.11	ug/m3	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	19.4	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.521	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	Not detected	7.2	0.18	ug/m3	1	141-78-6	
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	0.656	0.82	0.061	ug/m3	1	142-82-5	J
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	0.70	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	3.638	4.9	0.19	ug/m3	1	67-63-0	J
Methylene chloride	2.4	1.7	0.49	ug/m3	1	75-09-2	
2-Butanone (MEK)	0.826	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.16~~	1.0	0.052	ug/m3	1	91-20-3	~~JB~~ -U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.13	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.590	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.20	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	0.607	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	Not detected	3.0	0.12	ug/m3	1	75-65-0	
Tetrachloroethene	0.34	1.4	0.16	ug/m3	1	127-18-4	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 4/26/22



Analytical Laboratory Report

Lab Sample ID: S33822.13 (continued)
Sample Tag: 224121-OA-78

TO-15, Method: TO-15, Run Date: 04/08/22 21:33, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	2.6	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.01	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.7	1.7	0.16	ug/m3	1		
o-Xylene	0.608	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	2.47	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33822.14

Sample Tag: 224121-SS-152

Collected Date/Time: 03/10/2022 14:06 - 03/11/2022 13:58

Matrix: Air

COC Reference: A5312

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-8	N/A	03/15/22 12:25	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/08/22 22:03, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	86.2	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.3	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.150	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	31.6	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.5	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.050	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.6	0.024	ppbv	1	110-82-7	X
1,1-Dichloroethane	1.7	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	1.0	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	0.530	2.5	0.038	ppbv	1	123-91-1	J
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	83.6	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.080	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.620	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S33822.14 (continued)

Sample Tag: 224121-SS-152

TO-15, Method: TO-15, Run Date: 04/08/22 22:03, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.9	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	1.9	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	0.200	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	Not detected	6.8	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.23	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	6.7	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	0.320	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	0.010	0.2	0.010	ppbv	1	1634-04-4	J
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.050	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.040	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.130	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.040	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	2.6	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	1.7	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	0.180	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	0.3	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.6	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.190	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	1.9	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.300	0.4	0.038	ppbv	1		J
o-Xylene	0.100	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.400	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 04/08/22 22:03, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	205	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.96	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.467	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33822.14 (continued)

Sample Tag: 224121-SS-152

TO-15, Method: TO-15, Run Date: 04/08/22 22:03, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	83.4	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	2.4	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.31	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	2.1	0.083	ug/m3	1	110-82-7	X
1,1-Dichloroethane	6.9	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	4.0	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	1.91	9.0	0.14	ug/m3	1	123-91-1	J
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	158	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.35	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	2.23	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	3.7	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	6.7	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	0.819	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	Not detected	17	0.19	ug/m3	1	67-63-0	X
Methylene chloride	0.80	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	20	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	1.31	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	0.036	0.72	0.036	ug/m3	1	1634-04-4	J
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.26~~	1.0	0.052	ug/m3	1	91-20-3	~~JB~~ U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.17	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.639	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.20	0.98	0.12	ug/m3	1	108-67-8	J

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

ALH 4/26/22



Analytical Laboratory Report

Lab Sample ID: S33822.14 (continued)

Sample Tag: 224121-SS-152

TO-15, Method: TO-15, Run Date: 04/08/22 22:03, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2,2,4-Trimethylpentane	12	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	5.2	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	1.22	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	0.88	0.59	0.086	ug/m3	1	109-99-9	
Toluene	2.3	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.07	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	4.9	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.30	1.7	0.16	ug/m3	1		J
o-Xylene	0.434	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	1.74	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL

ALH 4/26/22



Analytical Laboratory Report

Lab Sample ID: S33822.15

Sample Tag: FD-031022-1

Collected Date/Time: 03/10/2022 14:06 - 03/11/2022 13:58

Matrix: Air

COC Reference: A5312

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-5	N/A	03/15/22 12:25	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/08/22 22:32, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	92.2	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.3	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.170	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	32.1	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.5	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.050	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.6	0.024	ppbv	1	110-82-7	X
1,1-Dichloroethane	1.7	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	1.0	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	0.580	2.5	0.038	ppbv	1	123-91-1	J
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	83.3	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.070	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.530	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S33822.15 (continued)

Sample Tag: FD-031022-1

TO-15, Method: TO-15, Run Date: 04/08/22 22:32, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.9	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	2.0	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	0.240	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	Not detected	7.0	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.25	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	7.1	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	0.380	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.040	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.040	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.080	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.040	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	2.8	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.790	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.190	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	0.3	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.7	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.2	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	1.9	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.210	0.4	0.038	ppbv	1		J
o-Xylene	0.080	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.290	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 04/08/22 22:32, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	219	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.96	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.529	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33822.15 (continued)

Sample Tag: FD-031022-1

TO-15, Method: TO-15, Run Date: 04/08/22 22:32, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	84.7	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	2.4	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.31	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	2.1	0.083	ug/m3	1	110-82-7	X
1,1-Dichloroethane	6.9	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	4.0	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	2.09	9.0	0.14	ug/m3	1	123-91-1	J
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	157	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.30	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	1.91	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	3.7	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	7.0	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	0.983	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	Not detected	17	0.19	ug/m3	1	67-63-0	X
Methylene chloride	0.87	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	21	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	1.56	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.21~~	1.0	0.052	ug/m3	1	91-20-3	~~JB~~ U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.17	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.39	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.20	0.98	0.12	ug/m3	1	108-67-8	J

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

ALH 4/26/22



Analytical Laboratory Report

Lab Sample ID: S33822.15 (continued)

Sample Tag: FD-031022-1

TO-15, Method: TO-15, Run Date: 04/08/22 22:32, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2,2,4-Trimethylpentane	13	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	2.39	3.0	0.12	ug/m3	1	75-65-0	--J--J
Tetrachloroethene	1.29	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	0.88	0.59	0.086	ug/m3	1	109-99-9	
Toluene	2.6	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.1	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	4.9	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	0.912	1.7	0.16	ug/m3	1		J
o-Xylene	0.35	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	1.26	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL

ALH 4/26/22



Analytical Laboratory Report

Lab Sample ID: S33822.16

Sample Tag: 224121-IA-152

Collected Date/Time: 03/10/2022 14:20 - 03/11/2022 14:00

Matrix: Air

COC Reference: A5312

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-1	N/A	03/15/22 12:25	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/08/22 23:02, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	9.7	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.4	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	Not detected	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.120	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.540	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.8	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.070	0.2	0.019	ppbv	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	236.8	2.5	0.068	ppbv	1	64-17-5	E
Ethylbenzene	0.6	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	1.050	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

E-Concentration exceeds calibration range

Analytical Laboratory Report

Lab Sample ID: S33822.16 (continued)

Sample Tag: 224121-IA-152

TO-15, Method: TO-15, Run Date: 04/08/22 23:02, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.120	0.2	0.032	ppbv	1	622-96-8	J
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.4	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.3	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	5.4	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.31	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.610	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.110	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	0.080	0.2	0.017	ppbv	1	80-62-6	J
Naphthalene	0.040	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.3	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.2	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.080	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.7	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.290	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.2	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.050	0.2	0.029	ppbv	1	109-99-9	J
Toluene	1.9	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	0.030	0.2	0.023	ppbv	1	79-01-6	J
Trichlorofluoromethane	0.2	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	2.0	0.4	0.038	ppbv	1		
o-Xylene	0.5	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	2.4	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 04/08/22 23:02, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	23	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	1.3	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	Not detected	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

Lab Sample ID: S33822.16 (continued)

Sample Tag: 224121-IA-152

TO-15, Method: TO-15, Run Date: 04/08/22 23:02, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.586	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	1.12	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	2.8	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	0.42	1.2	0.11	ug/m3	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	446.2	4.7	0.13	ug/m3	1	64-17-5	-E-J
Ethylbenzene	2.6	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	3.784	7.2	0.18	ug/m3	1	141-78-6	J--J
4-Ethyltoluene	0.590	0.98	0.16	ug/m3	1	622-96-8	J--J
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	1.6	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	1.1	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	13	0.19	ug/m3	1	67-63-0	X
Methylene chloride	1.1	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	1.80	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.451	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	0.33	0.82	0.070	ug/m3	1	80-62-6	J
Naphthalene	1.0 - 0.21--	1.0	0.052	ug/m3	1	91-20-3	-JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	1.3	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.98	0.98	0.14	ug/m3	1	95-63-6	

J-Estimated value less than reporting limit, but greater than MDL

E-Concentration exceeds calibration range

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33822.16 (continued)
Sample Tag: 224121-IA-152

TO-15, Method: TO-15, Run Date: 04/08/22 23:02, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,3,5-Trimethylbenzene	0.39	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	3.3	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	0.879	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	1.4	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	0.15	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	7.2	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	0.16	1.1	0.12	ug/m3	1	79-01-6	J
Trichlorofluoromethane	1.1	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	8.7	1.7	0.16	ug/m3	1		
o-Xylene	2.2	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	10	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL

ALH 4/26/22



Analytical Laboratory Report

Lab Sample ID: S33822.17

Sample Tag: FD-031022-2

Collected Date/Time: 03/10/2022 14:20 - 03/11/2022 14:00

Matrix: Air

COC Reference: A5312

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-7	N/A	03/15/22 12:25	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/08/22 23:32, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	10.2	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.3	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	Not detected	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.120	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.530	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.8	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.080	0.2	0.019	ppbv	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	262.1	2.5	0.068	ppbv	1	64-17-5	E
Ethylbenzene	0.6	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	0.600	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

E-Concentration exceeds calibration range

Analytical Laboratory Report

Lab Sample ID: S33822.17 (continued)

Sample Tag: FD-031022-2

TO-15, Method: TO-15, Run Date: 04/08/22 23:32, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.040	0.2	0.032	ppbv	1	622-96-8	J
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.4	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.3	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	5.2	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.29	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.500	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.090	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	0.100	0.2	0.017	ppbv	1	80-62-6	J
Naphthalene	0.050	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.3	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.140	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.050	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.4	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.290	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.3	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.050	0.2	0.029	ppbv	1	109-99-9	J
Toluene	1.6	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	0.030	0.2	0.023	ppbv	1	79-01-6	J
Trichlorofluoromethane	0.2	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	1.9	0.4	0.038	ppbv	1		
o-Xylene	0.4	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	2.3	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 04/08/22 23:32, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	24.2	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.96	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	Not detected	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33822.17 (continued)

Sample Tag: FD-031022-2

TO-15, Method: TO-15, Run Date: 04/08/22 23:32, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.586	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	1.09	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	2.8	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	0.48	1.2	0.11	ug/m3	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	493.9	4.7	0.13	ug/m3	1	64-17-5	-E-J
Ethylbenzene	2.6	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	2.16	7.2	0.18	ug/m3	1	141-78-6	-J-J
4-Ethyltoluene	0.20	0.98	0.16	ug/m3	1	622-96-8	-J---J
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	1.6	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	1.1	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	13	0.19	ug/m3	1	67-63-0	X
Methylene chloride	1.0	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	1.47	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.37	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	0.409	0.82	0.070	ug/m3	1	80-62-6	J
Naphthalene	1.0 -0.26----	1.0	0.052	ug/m3	1	91-20-3	-JB--U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	1.3	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.688	0.98	0.14	ug/m3	1	95-63-6	J

J-Estimated value less than reporting limit, but greater than MDL

E-Concentration exceeds calibration range

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

ALH 4/26/22



Analytical Laboratory Report

Lab Sample ID: S33822.17 (continued)
Sample Tag: FD-031022-2

TO-15, Method: TO-15, Run Date: 04/08/22 23:32, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,3,5-Trimethylbenzene	0.25	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	1.9	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	0.879	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	2.0	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	0.15	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	6.0	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	0.16	1.1	0.12	ug/m3	1	79-01-6	J
Trichlorofluoromethane	1.1	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	8.2	1.7	0.16	ug/m3	1		
o-Xylene	1.7	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	10.0	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL

ALH 4/26/22



Analytical Laboratory Report

Lab Sample ID: S33822.18

Sample Tag: 224121-IAA-107

Collected Date/Time: 03/11/2022 07:20 - 03/11/2022 14:23

Matrix: Air

COC Reference: A5312

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-8	N/A	03/15/22 12:25	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/09/22 00:01, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	10.0	0.058	ppbv	1	67-64-1	X
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.3	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	Not detected	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.030	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	Not detected	2.7	0.040	ppbv	1	74-87-3	X
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.190	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.030	0.2	0.019	ppbv	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	60.9	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.180	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.670	2.0	0.049	ppbv	1	141-78-6	J

X-Elevated reporting limit due to matrix interference

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S33822.18 (continued)

Sample Tag: 224121-IAA-107

TO-15, Method: TO-15, Run Date: 04/09/22 00:01, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.090	0.2	0.032	ppbv	1	622-96-8	J
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.4	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.4	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	0.060	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	Not detected	4.4	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.45	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.870	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.390	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	0.160	0.2	0.017	ppbv	1	80-62-6	J
Naphthalene	0.050	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.140	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.150	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.040	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.9	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.260	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.120	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	0.160	0.2	0.029	ppbv	1	109-99-9	J
Toluene	3.8	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	0.050	0.2	0.023	ppbv	1	79-01-6	J
Trichlorofluoromethane	0.190	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	0.110	2.0	0.015	ppbv	1	108-05-4	J
p,m-Xylene	0.6	0.4	0.038	ppbv	1		
o-Xylene	0.2	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	0.8	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 04/09/22 00:01, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	23.8	0.14	ug/m3	1	67-64-1	X
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.96	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	Not detected	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33822.18 (continued)

Sample Tag: 224121-IAA-107

TO-15, Method: TO-15, Run Date: 04/09/22 00:01, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.15	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	Not detected	5.6	0.083	ug/m3	1	74-87-3	X
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.654	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	0.18	1.2	0.11	ug/m3	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	115	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.782	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	2.41	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.44	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	1.6	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	1.4	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	0.25	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	Not detected	11	0.19	ug/m3	1	67-63-0	X
Methylene chloride	1.6	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	2.57	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	1.60	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	0.655	0.82	0.070	ug/m3	1	80-62-6	J
Naphthalene	1.0 ~~-0.26~~	1.0	0.052	ug/m3	1	91-20-3	~~--3B~~ U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.596	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.737	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.20	0.98	0.12	ug/m3	1	108-67-8	J

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

ALH 4/26/22



Analytical Laboratory Report

Lab Sample ID: S33822.18 (continued)
Sample Tag: 224121-IAA-107

TO-15, Method: TO-15, Run Date: 04/09/22 00:01, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2,2,4-Trimethylpentane	4.2	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	0.788	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.814	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	0.472	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	14	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	0.27	1.1	0.12	ug/m3	1	79-01-6	J
Trichlorofluoromethane	1.07	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	0.387	7.0	0.053	ug/m3	1	108-05-4	J
p,m-Xylene	2.6	1.7	0.16	ug/m3	1		
o-Xylene	0.87	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	3.5	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33822.19

Sample Tag: 224121-IAB-107

Collected Date/Time: 03/11/2022 07:22 - 03/11/2022 14:25

Matrix: Air

COC Reference: A5312

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-8	N/A	03/15/22 12:25	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/09/22 00:31, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	9.3	0.058	ppbv	1	67-64-1	X
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.3	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	Not detected	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.030	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	2.3	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.150	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.020	0.2	0.019	ppbv	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	44.7	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.160	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.620	2.0	0.049	ppbv	1	141-78-6	J

X-Elevated reporting limit due to matrix interference

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S33822.19 (continued)

Sample Tag: 224121-IAB-107

TO-15, Method: TO-15, Run Date: 04/09/22 00:31, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.050	0.2	0.032	ppbv	1	622-96-8	J
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.4	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.4	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	3.1	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.49	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.860	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.070	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	0.130	0.2	0.017	ppbv	1	80-62-6	J
Naphthalene	0.040	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.130	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.130	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.040	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.3	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.230	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.120	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	0.140	0.2	0.029	ppbv	1	109-99-9	J
Toluene	3.3	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	0.060	0.2	0.023	ppbv	1	79-01-6	J
Trichlorofluoromethane	0.190	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.5	0.4	0.038	ppbv	1		
o-Xylene	0.2	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	0.7	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 04/09/22 00:31, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	22	0.14	ug/m3	1	67-64-1	X
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.96	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	Not detected	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33822.19 (continued)

Sample Tag: 224121-IAB-107

TO-15, Method: TO-15, Run Date: 04/09/22 00:31, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.15	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	4.7	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.516	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	0.12	1.2	0.11	ug/m3	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	84.2	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.695	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	2.23	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.25	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	1.6	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	1.4	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	7.6	0.19	ug/m3	1	67-63-0	X
Methylene chloride	1.7	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	2.54	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.29	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	0.532	0.82	0.070	ug/m3	1	80-62-6	J
Naphthalene	1.0 0.21-----	1.0	0.052	ug/m3	1	91-20-3	JB-----U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.554	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.639	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.20	0.98	0.12	ug/m3	1	108-67-8	J

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

ALH 4/26/22



Analytical Laboratory Report

Lab Sample ID: S33822.19 (continued)

Sample Tag: 224121-IAB-107

TO-15, Method: TO-15, Run Date: 04/09/22 00:31, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2,2,4-Trimethylpentane	1.4	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	0.697	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.814	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	0.413	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	12	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	0.32	1.1	0.12	ug/m3	1	79-01-6	J
Trichlorofluoromethane	1.07	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	2.2	1.7	0.16	ug/m3	1		
o-Xylene	0.87	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	3.0	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33822.20

Sample Tag: 224121-OA-107

Collected Date/Time: 03/11/2022 07:28 - 03/11/2022 14:28

Matrix: Air

COC Reference: A5312

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-10	N/A	03/15/22 12:25	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/09/22 01:01, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	4.5	0.058	ppbv	1	67-64-1	X
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.170	0.2	0.019	ppbv	1	71-43-2	J
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	Not detected	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.020	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.460	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.060	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	5.7	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.080	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.160	2.0	0.049	ppbv	1	141-78-6	J

X-Elevated reporting limit due to matrix interference

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33822.20 (continued)

Sample Tag: 224121-OA-107

TO-15, Method: TO-15, Run Date: 04/09/22 01:01, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.120	0.2	0.015	ppbv	1	142-82-5	J
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.180	0.2	0.019	ppbv	1	110-54-3	J
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.34	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.530	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.210	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.040	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.020	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.130	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.040	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.4	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.190	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.070	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	0.070	0.2	0.029	ppbv	1	109-99-9	J
Toluene	0.6	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.190	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.250	0.4	0.038	ppbv	1		J
o-Xylene	0.100	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.350	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 04/09/22 01:01, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	11	0.14	ug/m3	1	67-64-1	X
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.543	0.64	0.061	ug/m3	1	71-43-2	J
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	Not detected	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S33822.20 (continued)

Sample Tag: 224121-OA-107

TO-15, Method: TO-15, Run Date: 04/09/22 01:01, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.098	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	0.950	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.21	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	11	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.35	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	0.577	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	0.492	0.82	0.061	ug/m3	1	142-82-5	J
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	0.634	0.70	0.067	ug/m3	1	110-54-3	J
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	1.2	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	1.56	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.860	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 0.21----	1.0	0.052	ug/m3	1	91-20-3	--JB--U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.085	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.639	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.20	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	1.9	0.93	0.065	ug/m3	1	540-84-1	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 4/26/22



Analytical Laboratory Report

Lab Sample ID: S33822.20 (continued)
Sample Tag: 224121-OA-107

TO-15, Method: TO-15, Run Date: 04/09/22 01:01, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	0.576	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.47	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	0.21	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	2.3	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.07	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.09	1.7	0.16	ug/m3	1		J
o-Xylene	0.434	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	1.52	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33822.21

Sample Tag: 224121-SS-153

Collected Date/Time: 03/11/2022 10:09 - 03/11/2022 16:49

Matrix: Air

COC Reference: A5337

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-4	N/A	03/15/22 12:25	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/09/22 03:24, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	49.0	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.6	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.060	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	55.3	2.0	0.046	ppbv	1	75-00-3	
Chloroform	10.1	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.040	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.5	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	1.8	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.9	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.020	0.2	0.019	ppbv	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	33.3	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.2	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	2.3	2.0	0.049	ppbv	1	141-78-6	
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33822.21 (continued)

Sample Tag: 224121-SS-153

TO-15, Method: TO-15, Run Date: 04/09/22 03:24, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	1.2	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	3.7	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	0.300	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	54.0	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.43	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	8.4	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	0.5	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.5	0.017	ppbv	1	80-62-6	X
Naphthalene	0.050	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.160	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	0.020	0.5	0.015	ppbv	1	120-82-1	JB
1,2,4-Trimethylbenzene	0.090	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.030	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	2.9	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.310	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	1.3	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.150	0.2	0.029	ppbv	1	109-99-9	J
Toluene	1.8	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	0.030	0.2	0.023	ppbv	1	79-01-6	J
Trichlorofluoromethane	0.3	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	6.3	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.7	0.4	0.038	ppbv	1		
o-Xylene	0.3	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	1.0	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 04/09/22 03:24, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	116	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	1.9	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.19	1.6	0.059	ug/m3	1	75-15-0	-J--J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	146	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

ALH 4/26/22

Lab Sample ID: S33822.21 (continued)

Sample Tag: 224121-SS-153

TO-15, Method: TO-15, Run Date: 04/09/22 03:24, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	49.3	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.25	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	1.7	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	7.3	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	3.6	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	0.12	1.2	0.11	ug/m3	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	62.7	4.7	0.13	ug/m3	1	64-17-5	J
Ethylbenzene	0.87	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	8.3	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	4.9	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	13	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	1.23	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	133	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	1.5	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	25	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	2.0	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	2.0	0.070	ug/m3	1	80-62-6	X
Naphthalene	1.0 ~~0.26~~	1.0	0.052	ug/m3	1	91-20-3	JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.682	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	3.7 ~~0.15~~	3.7	0.11	ug/m3	1	120-82-1	JB-U
1,2,4-Trimethylbenzene	0.44	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.15	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	14	0.93	0.065	ug/m3	1	540-84-1	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33822.21 (continued)

Sample Tag: 224121-SS-153

TO-15, Method: TO-15, Run Date: 04/09/22 03:24, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	0.940	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	8.8	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	0.442	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	6.8	0.75	0.049	ug/m3	1	108-88-3	J
Trichloroethene	0.16	1.1	0.12	ug/m3	1	79-01-6	J
Trichlorofluoromethane	1.7	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	16	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	3.0	1.7	0.16	ug/m3	1		J
o-Xylene	1.3	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	4.3	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL

ALH 4/26/22



Analytical Laboratory Report

Lab Sample ID: S33822.22

Sample Tag: FD-031122-1

Collected Date/Time: 03/11/2022 10:09 - 03/11/2022 16:49

Matrix: Air

COC Reference: A5337

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-10	N/A	03/15/22 12:25	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/09/22 03:54, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	65.2	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.9	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.440	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	79.2	2.0	0.046	ppbv	1	75-00-3	
Chloroform	14.6	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.040	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.7	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	2.6	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	1.3	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.020	0.2	0.019	ppbv	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	6.8	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.040	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.280	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S33822.22 (continued)

Sample Tag: FD-031122-1

TO-15, Method: TO-15, Run Date: 04/09/22 03:54, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	1.5	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	4.8	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	0.450	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	Not detected	2.2	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.28	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	10.2	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	0.6	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.6	0.017	ppbv	1	80-62-6	X
Naphthalene	0.040	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	Not detected	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.060	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	4.1	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.390	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	1.7	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.160	0.2	0.029	ppbv	1	109-99-9	J
Toluene	1.0	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	0.040	0.2	0.023	ppbv	1	79-01-6	J
Trichlorofluoromethane	0.3	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	8.9	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.170	0.4	0.038	ppbv	1		J
o-Xylene	0.070	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.240	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 04/09/22 03:54, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	155	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	2.9	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	1.37	1.6	0.059	ug/m3	1	75-15-0	--J--J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	209	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33822.22 (continued)

Sample Tag: FD-031122-1

TO-15, Method: TO-15, Run Date: 04/09/22 03:54, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	71.3	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.25	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	2.4	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	11	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	5.3	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	0.12	1.2	0.11	ug/m3	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	13	4.7	0.13	ug/m3	1	64-17-5	J
Ethylbenzene	0.17	0.87	0.087	ug/m3	1	100-41-4	J---J
Ethyl Acetate*	1.01	7.2	0.18	ug/m3	1	141-78-6	J---J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	6.1	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	17	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	1.84	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	Not detected	5.4	0.19	ug/m3	1	67-63-0	X
Methylene chloride	0.97	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	30.1	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	2.5	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	2.5	0.070	ug/m3	1	80-62-6	X
Naphthalene	1.0 0.21--	1.0	0.052	ug/m3	1	91-20-3	JB--U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	Not detected	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.29	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	19	0.93	0.065	ug/m3	1	540-84-1	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

ALH 4/26/22



Analytical Laboratory Report

Lab Sample ID: S33822.22 (continued)

Sample Tag: FD-031122-1

TO-15, Method: TO-15, Run Date: 04/09/22 03:54, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	1.18	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	12	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	0.472	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	3.8	0.75	0.049	ug/m3	1	108-88-3	J
Trichloroethene	0.21	1.1	0.12	ug/m3	1	79-01-6	J
Trichlorofluoromethane	1.7	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	23	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	0.738	1.7	0.16	ug/m3	1		--J--J
o-Xylene	0.30	0.87	0.087	ug/m3	1	95-47-6	--J---J
Total Xylenes	1.04	2.6	0.25	ug/m3	1	1330-20-7	J--J

J-Estimated value less than reporting limit, but greater than MDL

ALH 4/26/22



Analytical Laboratory Report

Lab Sample ID: S33822.23

Sample Tag: 224121-BA-153

Collected Date/Time: 03/11/2022 10:12 - 03/11/2022 16:52

Matrix: Air

COC Reference: A5337

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-12	N/A	03/15/22 12:25	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/09/22 04:24, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	8.0	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.3	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	Not detected	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.030	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.420	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.160	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	0.030	0.2	0.024	ppbv	1	75-35-4	J
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.020	0.2	0.019	ppbv	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	12.6	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.140	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.400	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.080	0.2	0.032	ppbv	1	622-96-8	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33822.23 (continued)

Sample Tag: 224121-BA-153

TO-15, Method: TO-15, Run Date: 04/09/22 04:24, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.3	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.5	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.19	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.370	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.040	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.020	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.2	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.060	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.4	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.120	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.070	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	1.0	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.170	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.5	0.4	0.038	ppbv	1		
o-Xylene	0.170	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.7	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 04/09/22 04:24, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	19	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.96	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	Not detected	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.15	0.98	0.098	ug/m3	1	67-66-3	--J-J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 4/26/22



Analytical Laboratory Report

Lab Sample ID: S33822.23 (continued)

Sample Tag: 224121-BA-153

TO-15, Method: TO-15, Run Date: 04/09/22 04:24, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	0.867	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.551	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	0.12	0.79	0.095	ug/m3	1	75-35-4	J
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	0.12	1.2	0.11	ug/m3	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	23.7	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.608	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	1.44	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.39	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	1.2	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	1.8	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.66	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	1.09	5.9	0.14	ug/m3	1	78-93-3	J--J
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 0.21--	1.0	0.052	ug/m3	1	91-20-3	--JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.085	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.98	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	0.29	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	1.9	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	0.364	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.47	1.4	0.16	ug/m3	1	127-18-4	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 4/26/22



Analytical Laboratory Report

Lab Sample ID: S33822.23 (continued)
Sample Tag: 224121-BA-153

TO-15, Method: TO-15, Run Date: 04/09/22 04:24, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	3.8	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	0.955	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	2.2	1.7	0.16	ug/m3	1		
o-Xylene	0.738	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	3.0	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33822.24

Sample Tag: FD-031122-2

Collected Date/Time: 03/11/2022 10:12 - 03/11/2022 16:52

Matrix: Air

COC Reference: A5337

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	0	N/A	03/15/22 12:25	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/09/22 04:54, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	7.2	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.3	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	Not detected	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.020	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.460	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.050	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.150	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	0.030	0.2	0.024	ppbv	1	75-35-4	J
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.020	0.2	0.019	ppbv	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	13.9	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.140	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.510	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.090	0.2	0.032	ppbv	1	622-96-8	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33822.24 (continued)

Sample Tag: FD-031122-2

TO-15, Method: TO-15, Run Date: 04/09/22 04:54, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	Not detected	0.5	0.015	ppbv	1	142-82-5	X
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.5	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	7.7	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.19	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.850	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.040	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.030	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.020	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.2	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.060	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.120	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	0.130	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.040	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	1.0	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.180	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.5	0.4	0.038	ppbv	1		
o-Xylene	0.170	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.7	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 04/09/22 04:54, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	17	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.96	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	Not detected	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33822.24 (continued)

Sample Tag: FD-031122-2

TO-15, Method: TO-15, Run Date: 04/09/22 04:54, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	0.098	0.98	0.098	ug/m3	1	67-66-3	--J--J
Chloromethane	0.950	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.31	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.516	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	0.12	0.79	0.095	ug/m3	1	75-35-4	J
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	0.12	1.2	0.11	ug/m3	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	26.2	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.608	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	1.84	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.44	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	Not detected	2.0	0.061	ug/m3	1	142-82-5	X
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	1.8	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	19	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.66	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	2.51	5.9	0.14	ug/m3	1	78-93-3	--J--J
4-Methyl-2-pentanone (MIBK)	0.16	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.16~~	1.0	0.052	ug/m3	1	91-20-3	--JB--U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.085	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.98	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	0.29	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	0.561	0.93	0.065	ug/m3	1	540-84-1	--J--J

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

ALH 4/26/22



Analytical Laboratory Report

Lab Sample ID: S33822.24 (continued)
Sample Tag: FD-031122-2

TO-15, Method: TO-15, Run Date: 04/09/22 04:54, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	0.394	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.27	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	3.8	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.01	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	2.2	1.7	0.16	ug/m3	1		
o-Xylene	0.738	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	3.0	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33822.25

Sample Tag: 224121-IA-153

Collected Date/Time: 03/11/2022 10:15 - 03/11/2022 16:55

Matrix: Air

COC Reference: A5337

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-10	N/A	03/15/22 12:25	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/09/22 05:24, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	24.4	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.2	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	Not detected	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.060	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.430	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.100	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.020	0.2	0.019	ppbv	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	127.3	2.5	0.068	ppbv	1	64-17-5	E
Ethylbenzene	0.130	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	10.6	2.0	0.049	ppbv	1	141-78-6	

J-Estimated value less than reporting limit, but greater than MDL

E-Concentration exceeds calibration range



Analytical Laboratory Report

Lab Sample ID: S33822.25 (continued)

Sample Tag: 224121-IA-153

TO-15, Method: TO-15, Run Date: 04/09/22 05:24, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.060	0.2	0.032	ppbv	1	622-96-8	J
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	Not detected	0.5	0.015	ppbv	1	142-82-5	X
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	Not detected	0.6	0.019	ppbv	1	110-54-3	X
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	3.5	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.20	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	3.0	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.030	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.030	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.110	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.030	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.120	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	0.140	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.040	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	0.100	0.2	0.029	ppbv	1	109-99-9	J
Toluene	0.7	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.170	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.360	0.4	0.038	ppbv	1		J
o-Xylene	0.130	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.490	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 04/09/22 05:24, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	58.0	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.64	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	Not detected	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

Lab Sample ID: S33822.25 (continued)

Sample Tag: 224121-IA-153

TO-15, Method: TO-15, Run Date: 04/09/22 05:24, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.29	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	0.888	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.344	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	0.12	1.2	0.11	ug/m3	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	239.9	4.7	0.13	ug/m3	1	64-17-5	-E-J
Ethylbenzene	0.564	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	38.2	7.2	0.18	ug/m3	1	141-78-6	
4-Ethyltoluene	0.29	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	Not detected	2.0	0.061	ug/m3	1	142-82-5	X
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	Not detected	2.1	0.067	ug/m3	1	110-54-3	X
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	8.6	0.19	ug/m3	1	67-63-0	X
Methylene chloride	0.69	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	8.8	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 0.16---	1.0	0.052	ug/m3	1	91-20-3	JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.13	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.541	0.98	0.14	ug/m3	1	95-63-6	J

J-Estimated value less than reporting limit, but greater than MDL

E-Concentration exceeds calibration range

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33822.25 (continued)

Sample Tag: 224121-IA-153

TO-15, Method: TO-15, Run Date: 04/09/22 05:24, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,3,5-Trimethylbenzene	0.15	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	0.561	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	0.424	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.27	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	0.295	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	2.6	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	0.955	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.56	1.7	0.16	ug/m3	1		J
o-Xylene	0.564	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	2.13	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33822.26

Sample Tag: 224121-OA-153

Collected Date/Time: 03/11/2022 10:19 - 03/11/2022 16:56

Matrix: Air

COC Reference: A5337

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-16	N/A	03/15/22 12:25	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/09/22 05:55, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	16.7	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.2	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	Not detected	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.020	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.100	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.030	0.2	0.019	ppbv	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	11.1	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.100	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.840	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.060	0.2	0.032	ppbv	1	622-96-8	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S33822.26 (continued)

Sample Tag: 224121-OA-153

TO-15, Method: TO-15, Run Date: 04/09/22 05:55, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	Not detected	0.4	0.015	ppbv	1	142-82-5	X
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.6	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	0.110	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	Not detected	6.3	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.45	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	1.130	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.100	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.080	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.060	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	0.020	0.5	0.015	ppbv	1	120-82-1	JB
1,2,4-Trimethylbenzene	0.100	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.030	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.100	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	0.290	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.110	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	0.040	0.2	0.029	ppbv	1	109-99-9	J
Toluene	0.9	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.2	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.310	0.4	0.038	ppbv	1		J
o-Xylene	0.110	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.420	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 04/09/22 05:55, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	39.7	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.64	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	Not detected	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S33822.26 (continued)

Sample Tag: 224121-OA-153

TO-15, Method: TO-15, Run Date: 04/09/22 05:55, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	0.098	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.344	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	0.18	1.2	0.11	ug/m3	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	20.9	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.434	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	3.03	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.29	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	Not detected	1.6	0.061	ug/m3	1	142-82-5	X
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	2.1	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	0.451	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	Not detected	15	0.19	ug/m3	1	67-63-0	X
Methylene chloride	1.6	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	3.333	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.410	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.42~~	1.0	0.052	ug/m3	1	91-20-3	-JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.26	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	3.7 ~~0.15~~	3.7	0.11	ug/m3	1	120-82-1	-JB-U
1,2,4-Trimethylbenzene	0.492	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.15	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	0.467	0.93	0.065	ug/m3	1	540-84-1	J

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

ALH 4/26/22



Analytical Laboratory Report

Lab Sample ID: S33822.26 (continued)

Sample Tag: 224121-OA-153

TO-15, Method: TO-15, Run Date: 04/09/22 05:55, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	0.879	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.746	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	0.12	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	3.4	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.1	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.35	1.7	0.16	ug/m3	1		J
o-Xylene	0.478	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	1.82	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL

VALIDATA

Chemical Services, Inc.

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DATA USABILITY SUMMARY REPORT

COMPANY: AECOM Technical Services Northeast, Inc.
PROJECT NAME: Meeker Ave. SVI
CONTRACTED LAB: Merit Laboratories, Inc.
QA/QC LEVEL: DUSR
ANALYTICAL METHOD(S): EPA Method TO-15
VALIDATION GUIDELINES: USEPA Region II data validation SOP (VOA-TO15 HW-31 Rev.6, Analysis of VOCs in Air contained in Canisters by Method TO-15, September 2016), Professional Judgment

SAMPLE MATRIX: Air
TYPES OF ANALYSES: Volatile Organic Compounds (VOC)
DATA REVIEWER(S): Amy L. Hogan
SDG NUMBER: 34308
SAMPLING DATE(S): March 24, 2022

SAMPLES:

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>VOC</u>
224121-OA-154	S34308.01	X
224121-IA-154	S34308.02	X
224121-SS-154	S34308.03	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Merit Laboratories, Inc. – 34308

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per EPA Method TO-15.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

Initial Calibration Verification data was not submitted for this SDG. Data qualification based on the absence of Initial Calibration Verification data was not required. No data qualification was necessary.

Continuing Calibration:

All Continuing Calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were detections in method blank GV220408g2 for the following compounds:

Propylene	0.21 ppbv
1,3-dichlorobenzene	0.03 ppbv
1,2,4-trichlorobenzene	0.04 ppbv
Naphthalene	0.07 ppbv

Since the blank results were less than the equal to the RL, the positive results for these compounds in the SDG samples, which were less than the RL, were qualified as undetected (U) with the result being raised to the RL.

Canister Blanks:

There were no detects in the canister check blanks for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS / LCSD set was analyzed by the laboratory for this SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Duplicate:

Matrix Duplicate analysis data was not submitted for this SDG. Data qualification based on the absence of MD data was not required. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met.

Appendix A

Qualified Form Is



Analytical Laboratory Report

Lab Sample ID: S34308.01

Sample Tag: 224121-OA-154

Collected Date/Time: 03/24/2022 14:30 - 03/25/2022 14:30

Matrix: Air

COC Reference: A5050

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-5	N/A	03/28/22 14:55	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/09/22 06:24, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	3.7	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.180	0.2	0.019	ppbv	1	71-43-2	J
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	Not detected	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.020	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.450	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.050	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.050	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	5.6	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.050	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	Not detected	2.0	0.049	ppbv	1	141-78-6	
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S34308.01 (continued)

Sample Tag: 224121-OA-154

TO-15, Method: TO-15, Run Date: 04/09/22 06:24, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.040	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.100	0.2	0.015	ppbv	1	142-82-5	J
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.120	0.2	0.019	ppbv	1	110-54-3	J
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	0.820	2.0	0.076	ppbv	1	67-63-0	J
Methylene chloride	0.21	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.200	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.020	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	Not detected	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.040	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.060	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	Not detected	1.0	0.041	ppbv	1	75-65-0	
Tetrachloroethene	Not detected	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.3	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.170	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.130	0.4	0.038	ppbv	1		J
o-Xylene	0.060	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.190	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 04/09/22 06:24, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	8.8	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.575	0.64	0.061	ug/m3	1	71-43-2	J
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	Not detected	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.098	0.98	0.098	ug/m3	1	67-66-3	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S34308.01 (continued)

Sample Tag: 224121-OA-154

TO-15, Method: TO-15, Run Date: 04/09/22 06:24, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	0.929	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.31	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.17	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	11	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.22	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	Not detected	7.2	0.18	ug/m3	1	141-78-6	
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.31	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	0.410	0.82	0.061	ug/m3	1	142-82-5	J
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	0.423	0.70	0.067	ug/m3	1	110-54-3	J
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	2.02	4.9	0.19	ug/m3	1	67-63-0	J
Methylene chloride	0.73	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	0.590	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 0.10-----	1.0	0.052	ug/m3	1	91-20-3	-JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	Not detected	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.20	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	0.28	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	Not detected	3.0	0.12	ug/m3	1	75-65-0	
Tetrachloroethene	Not detected	1.4	0.16	ug/m3	1	127-18-4	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 4/26/22



Analytical Laboratory Report

Lab Sample ID: S34308.01 (continued)
Sample Tag: 224121-OA-154

TO-15, Method: TO-15, Run Date: 04/09/22 06:24, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	1.1	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	0.955	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	0.564	1.7	0.16	ug/m3	1		J
o-Xylene	0.26	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	0.825	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S34308.02

Sample Tag: 224121-IA-154

Collected Date/Time: 03/24/2022 14:07 - 03/25/2022 14:07

Matrix: Air

COC Reference: A5050

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-8	N/A	03/28/22 14:55	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/09/22 06:55, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	7.4	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.180	0.2	0.019	ppbv	1	71-43-2	J
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	Not detected	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.050	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.450	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.050	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.120	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.020	0.2	0.019	ppbv	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	26.8	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.4	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	0.660	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	Not detected	0.2	0.032	ppbv	1	622-96-8	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S34308.02 (continued)

Sample Tag: 224121-IA-154

TO-15, Method: TO-15, Run Date: 04/09/22 06:55, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.3	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.3	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	2.2	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.5	0.5	0.14	ppbv	1	75-09-2	
2-Butanone (MEK)	0.400	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.030	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	Not detected	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	0.080	0.2	0.017	ppbv	1	71-55-6	J
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.030	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.060	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	0.050	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.6	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	Not detected	0.2	0.029	ppbv	1	109-99-9	
Toluene	0.7	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.170	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	1.1	0.4	0.038	ppbv	1		
o-Xylene	0.4	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	1.5	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 04/09/22 06:55, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	18	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.575	0.64	0.061	ug/m3	1	71-43-2	J
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	Not detected	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.24	0.98	0.098	ug/m3	1	67-66-3	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S34308.02 (continued)

Sample Tag: 224121-IA-154

TO-15, Method: TO-15, Run Date: 04/09/22 06:55, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	0.929	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.31	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.413	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	0.12	1.2	0.11	ug/m3	1	106-46-7	J
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	50.5	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	1.7	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	2.38	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	Not detected	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	1.2	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	1.1	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	5.4	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	1.7	1.7	0.49	ug/m3	1	75-09-2	
2-Butanone (MEK)	1.18	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	Not detected	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 0.16---	1.0	0.052	ug/m3	1	91-20-3	JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	Not detected	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	0.44	1.1	0.093	ug/m3	1	71-55-6	J
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.15	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	0.28	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	0.15	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	4.1	1.4	0.16	ug/m3	1	127-18-4	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 4/26/22



Analytical Laboratory Report

Lab Sample ID: S34308.02 (continued)
Sample Tag: 224121-IA-154

TO-15, Method: TO-15, Run Date: 04/09/22 06:55, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	Not detected	0.59	0.086	ug/m3	1	109-99-9	
Toluene	2.6	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	0.955	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	4.8	1.7	0.16	ug/m3	1		
o-Xylene	1.7	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	6.5	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S34308.03

Sample Tag: 224212-SS-154

Collected Date/Time: 03/24/2022 14:06 - 03/25/2022 14:06

Matrix: Air

COC Reference: A5050

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-5	N/A	03/28/22 14:55	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/09/22 07:24, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	42.3	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.4	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	Not detected	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.4	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.9	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.4	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	Not detected	0.2	0.019	ppbv	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	9.0	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	3.4	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	1.060	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.180	0.2	0.032	ppbv	1	622-96-8	J

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S34308.03 (continued)

Sample Tag: 224212-SS-154

TO-15, Method: TO-15, Run Date: 04/09/22 07:24, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 113	0.050	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	2.3	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	Not detected	10.4	0.019	ppbv	1	110-54-3	X
2-Hexanone*	0.6	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.20	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	90.3	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	0.5	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.160	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	Not detected	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	0.170	0.2	0.017	ppbv	1	71-55-6	J
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	0.050	0.5	0.015	ppbv	1	120-82-1	JB
1,2,4-Trimethylbenzene	0.4	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.110	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.120	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	0.470	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.7	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	58.3	0.2	0.029	ppbv	1	109-99-9	
Toluene	16.9	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.190	0.2	0.017	ppbv	1	75-69-4	J
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	4.3	0.4	0.038	ppbv	1		
o-Xylene	1.0	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	5.3	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 04/09/22 07:24, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	100	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	1.3	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	Not detected	1.6	0.059	ug/m3	1	75-15-0	
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S34308.03 (continued)

Sample Tag: 224212-SS-154

TO-15, Method: TO-15, Run Date: 04/09/22 07:24, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	2.0	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	3.1	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.0	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	Not detected	1.2	0.11	ug/m3	1	106-46-7	
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	17	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	15	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	3.820	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.885	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.38	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	9.4	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	Not detected	36.7	0.067	ug/m3	1	110-54-3	X
2-Hexanone*	2.5	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.69	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	266	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	2.0	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.839~~	1.0	0.052	ug/m3	1	91-20-3	JB--U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	Not detected	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	0.928	1.1	0.093	ug/m3	1	71-55-6	J
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	3.7 ~~0.37~~	3.7	0.11	ug/m3	1	120-82-1	JB--U
1,2,4-Trimethylbenzene	2.0	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	0.541	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	0.561	0.93	0.065	ug/m3	1	540-84-1	J

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

ALH 4/26/22



Analytical Laboratory Report

Lab Sample ID: S34308.03 (continued)

Sample Tag: 224212-SS-154

TO-15, Method: TO-15, Run Date: 04/09/22 07:24, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	1.42	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	4.7	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	172	0.59	0.086	ug/m3	1	109-99-9	
Toluene	63.7	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.07	1.1	0.096	ug/m3	1	75-69-4	J
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	19	1.7	0.16	ug/m3	1		
o-Xylene	4.3	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	23	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL

VALIDATA

Chemical Services, Inc.

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DATA USABILITY SUMMARY REPORT

COMPANY: AECOM Technical Services Northeast, Inc.
PROJECT NAME: Meeker Ave. SVI
CONTRACTED LAB: Merit Laboratories, Inc.
QA/QC LEVEL: DUSR
ANALYTICAL METHOD(S): EPA Method TO-15
VALIDATION GUIDELINES: USEPA Region II data validation SOP (VOA-TO15 HW-31 Rev.6, Analysis of VOCs in Air contained in Canisters by Method TO-15, September 2016), Professional Judgment

SAMPLE MATRIX: Air
TYPES OF ANALYSES: Volatile Organic Compounds (VOC)
DATA REVIEWER(S): Amy L. Hogan
SDG NUMBER: 34513
SAMPLING DATE(S): March 31- April 1, 2022

SAMPLES:

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>VOC</u>
224121-OA-155	S34513.01	X
224121-OA-155DL	S34513.01DL	X
224121-IA-155	S34513.02	X
224212-SS-155	S34513.03	X
224121-OA-157	S34513.04	X
224121-IA-157	S34513.05	X
224121-SS-157	S34513.06	X
224121-SS-157DL	S34513.06DL	X
224121-OA-156	S34513.07	X
224121-IA-156	S34513.08	X
224212-SS-156	S34513.09	X
224212-SS-156DL	S34513.09DL	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Merit Laboratories, Inc. – 34513

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per EPA Method TO-15.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

Initial Calibration Verification data was not submitted for this SDG. Data qualification based on the absence of Initial Calibration Verification data was not required. No data qualification was necessary.

Continuing Calibration:

The Percent Difference (%D) for the standards run on 4/26/22 at 11:47 on instrument Eldrazi was 35.7% for carbon disulfide, which exceeded the 30% QC limit. All positive and non-detect carbon disulfide results for the SDG samples were qualified as estimated (J) and (UJ).

VI.) Blanks:

Method Blanks:

There were detections in method blank GV220426g1 for the following compounds:

1,3-dichlorobenzene	0.02 ppbv
1,4-dichlorobenzene	0.05 ppbv
1,2,4-trichlorobenzene	0.02 ppbv
Naphthalene	0.03 ppbv

Since the blank results were less than the equal to the RL, the positive results for these compounds in the SDG samples, which were less than the RL, were qualified as undetected (U) with the result being raised to the RL.

Canister Blanks:

There were no detects in the canister check blanks for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS / LCSD set was analyzed by the laboratory for this SDG. The Percent Recovery (%R) for carbon disulfide at 135.7% for the LCS sample exceeded the QC limits. All positive carbon disulfide results for the SDG samples were qualified as estimated (J).

IX.) Matrix Duplicate:

Matrix Duplicate analysis data was not submitted for this SDG. Data qualification based on the absence of MD data was not required. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

The ethanol results for samples 224121-IA-157 and 224121-IA-156 exceeded the linear calibration range and was qualified as estimated (J).

The results for multiple compounds in the initial analyses for samples 224121-OA-155, 24212-SS-157 and 224212-SS-156 exceeded the linear calibration range. A dilution analysis was performed for each sample with all linear calibration criteria met. The results for these compounds in the initial analysis were qualified as estimated (J). Citing the linear calibration range exceedances and professional judgment, the validator has determined that the dilution analysis results for these compounds for the sample to be of preferable data quality to the initial analysis results for these compounds.

All other CRQL criteria were met.

Appendix A

Qualified Form Is



Analytical Laboratory Report

Lab Sample ID: S34513.01

Sample Tag: 224121-OA-155

Collected Date/Time: 03/31/2022 08:55 - 03/31/2022 16:55

Matrix: Air

COC Reference: A6111

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	0	N/A	04/06/22 15:50	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/26/22 12:59, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	102.4	2.0	0.058	ppbv	1	67-64-1	E
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.4	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	Not detected	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.090	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.4	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.5	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.050	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	214.8	2.5	0.068	ppbv	1	64-17-5	E
Ethylbenzene	1.0	0.2	0.020	ppbv	1	100-41-4	

E-Concentration exceeds calibration range

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S34513.01 (continued)

Sample Tag: 224121-OA-155

TO-15, Method: TO-15, Run Date: 04/26/22 12:59, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Ethyl Acetate*	0.890	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.090	0.2	0.032	ppbv	1	622-96-8	J
Freon 113	0.070	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.5	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	Not detected	11.0	0.019	ppbv	1	110-54-3	X
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	5.0	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.5	0.5	0.14	ppbv	1	75-09-2	
2-Butanone (MEK)	101.0	2.0	0.046	ppbv	1	78-93-3	E
4-Methyl-2-pentanone (MIBK)	0.090	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.020	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.100	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.160	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.040	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.170	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	0.170	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.3	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	36.3	0.2	0.029	ppbv	1	109-99-9	
Toluene	5.3	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	0.150	0.2	0.023	ppbv	1	79-01-6	J
Trichlorofluoromethane	0.2	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	1.3	0.4	0.038	ppbv	1		
o-Xylene	0.4	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	1.7	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 04/26/22 12:59, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	243.2	4.8	0.14	ug/m3	1	67-64-1	-E-J
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	1.3	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

E-Concentration exceeds calibration range

B-Compound also found in associated method blank

ALH 5/10/22

Lab Sample ID: S34513.01 (continued)

Sample Tag: 224121-OA-155

TO-15, Method: TO-15, Run Date: 04/26/22 12:59, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon disulfide	Not detected	1.6	0.059	ug/m3	1	75-15-0	UJ
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.44	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	1.4	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.5	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 ~~0.30~~	1.2	0.11	ug/m3	1	106-46-7	JB-U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	404.7	4.7	0.13	ug/m3	1	64-17-5	-E-J
Ethylbenzene	4.3	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	3.21	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.44	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.54	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	2.0	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	Not detected	38.8	0.067	ug/m3	1	110-54-3	X
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	12	0.19	ug/m3	1	67-63-0	X
Methylene chloride	1.7	1.7	0.49	ug/m3	1	75-09-2	
2-Butanone (MEK)	297.9	5.9	0.14	ug/m3	1	78-93-3	-E-J
4-Methyl-2-pentanone (MIBK)	0.37	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.10~~	1.0	0.052	ug/m3	1	91-20-3	JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.426	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

E-Concentration exceeds calibration range

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S34513.01 (continued)

Sample Tag: 224121-OA-155

TO-15, Method: TO-15, Run Date: 04/26/22 12:59, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.787	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.20	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	0.794	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	0.515	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	2.0	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	107	0.59	0.086	ug/m3	1	109-99-9	
Toluene	20	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	0.806	1.1	0.12	ug/m3	1	79-01-6	J
Trichlorofluoromethane	1.1	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	5.6	1.7	0.16	ug/m3	1		
o-Xylene	1.7	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	7.4	2.6	0.25	ug/m3	1	1330-20-7	

TO-15 (Replicate 01), Method: TO-15, Run Date: 04/26/22 16:44, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	80	20	0.58	ppbv	10	67-64-1	Y
1,3-Butadiene	Not detected	20	0.29	ppbv	10	106-99-0	Y
Benzene	0.30	2	0.19	ppbv	10	71-43-2	JY
Bromodichloromethane	Not detected	2	0.23	ppbv	10	75-27-4	Y
Bromoform	Not detected	2	0.23	ppbv	10	75-25-2	Y
Bromomethane	Not detected	2	0.33	ppbv	10	74-83-9	Y
Vinyl bromide	Not detected	2	0.35	ppbv	10	593-60-2	Y
Benzyl chloride	Not detected	2	0.29	ppbv	10	100-44-7	Y
Carbon disulfide	Not detected	5	0.19	ppbv	10	75-15-0	Y
Chlorobenzene	Not detected	2	0.17	ppbv	10	108-90-7	Y
Chloroethane	Not detected	20	0.46	ppbv	10	75-00-3	Y
Chloroform	Not detected	2	0.20	ppbv	10	67-66-3	Y
Chloromethane	Not detected	20	0.40	ppbv	10	74-87-3	Y
3-Chloropropene	Not detected	20	0.24	ppbv	10	107-05-1	Y
2-Chlorotoluene	Not detected	2	0.24	ppbv	10	95-49-8	Y
Carbon tetrachloride	Not detected	2	0.20	ppbv	10	56-23-5	Y
Cyclohexane	Not detected	2	0.24	ppbv	10	110-82-7	Y
1,1-Dichloroethane	Not detected	2	0.25	ppbv	10	75-34-3	Y
1,1-Dichloroethene	Not detected	2	0.24	ppbv	10	75-35-4	Y
1,2-Dibromoethane	Not detected	2	0.10	ppbv	10	106-93-4	Y
1,2-Dichloroethane	Not detected	2	0.28	ppbv	10	107-06-2	Y
1,2-Dichloropropane	Not detected	2	0.20	ppbv	10	78-87-5	Y
1,4-Dioxane	Not detected	25	0.38	ppbv	10	123-91-1	Y
Dichlorodifluoromethane	0.40	2	0.26	ppbv	10	75-71-8	JY
Dibromochloromethane	Not detected	2	0.17	ppbv	10	124-48-1	Y
trans-1,2-Dichloroethene	Not detected	2	0.21	ppbv	10	156-60-5	Y
cis-1,2-Dichloroethene	Not detected	2	0.23	ppbv	10	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	2	0.20	ppbv	10	10061-01-5	Y
1,3-Dichlorobenzene	Not detected	2	0.20	ppbv	10	541-73-1	Y
1,2-Dichlorobenzene	Not detected	2	0.24	ppbv	10	95-50-1	Y

J-Estimated value less than reporting limit, but greater than MDL

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S34513.01 (continued)

Sample Tag: 224121-OA-155

TO-15 (Replicate 01), Method: TO-15, Run Date: 04/26/22 16:44, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,4-Dichlorobenzene	Not detected	2	0.19	ppbv	10	106-46-7	Y
trans-1,3-Dichloropropene	Not detected	2	0.13	ppbv	10	10061-02-6	Y
Ethanol*	152	25	0.68	ppbv	10	64-17-5	Y
Ethylbenzene	0.80	2	0.20	ppbv	10	100-41-4	JY
Ethyl Acetate*	Not detected	20	0.49	ppbv	10	141-78-6	Y
4-Ethyltoluene	Not detected	2	0.32	ppbv	10	622-96-8	Y
Freon 113	Not detected	2	0.24	ppbv	10	76-13-1	Y
Freon 114	Not detected	2	0.29	ppbv	10	76-14-2	Y
Heptane	0.50	2	0.15	ppbv	10	142-82-5	JY
Hexachlorobutadiene	Not detected	2	0.29	ppbv	10	87-68-3	Y
Hexane	Not detected	10	0.19	ppbv	10	110-54-3	XY
2-Hexanone*	Not detected	5	0.21	ppbv	10	591-78-6	Y
Isopropyl Alcohol*	Not detected	20	0.76	ppbv	10	67-63-0	Y
Methylene chloride	Not detected	5	1.4	ppbv	10	75-09-2	Y
2-Butanone (MEK)	80	20	0.46	ppbv	10	78-93-3	Y
4-Methyl-2-pentanone (MIBK)	Not detected	5	0.17	ppbv	10	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	2	0.10	ppbv	10	1634-04-4	Y
Methyl methacrylate	Not detected	2	0.17	ppbv	10	80-62-6	Y
Naphthalene	Not detected	2	0.10	ppbv	10	91-20-3	Y
Propylene*	Not detected	100	0.38	ppbv	10	115-07-1	Y
Styrene	Not detected	2	0.15	ppbv	10	100-42-5	Y
1,1,1-Trichloroethane	Not detected	2	0.17	ppbv	10	71-55-6	Y
1,1,2,2-Tetrachloroethane	Not detected	2	0.14	ppbv	10	79-34-5	Y
1,1,2-Trichloroethane	Not detected	2	0.15	ppbv	10	79-00-5	Y
1,2,4-Trichlorobenzene	Not detected	5	0.15	ppbv	10	120-82-1	Y
1,2,4-Trimethylbenzene	Not detected	2	0.29	ppbv	10	95-63-6	Y
1,3,5-Trimethylbenzene	Not detected	2	0.25	ppbv	10	108-67-8	Y
2,2,4-Trimethylpentane	Not detected	2	0.14	ppbv	10	540-84-1	Y
Tert-butyl Alcohol	Not detected	10	0.41	ppbv	10	75-65-0	Y
Tetrachloroethene	Not detected	2	0.24	ppbv	10	127-18-4	Y
Tetrahydrofuran*	30	2	0.29	ppbv	10	109-99-9	Y
Toluene	4	2	0.13	ppbv	10	108-88-3	Y
Trichloroethene	Not detected	2	0.23	ppbv	10	79-01-6	Y
Trichlorofluoromethane	0.20	2	0.17	ppbv	10	75-69-4	JY
Vinyl chloride	Not detected	2	0.29	ppbv	10	75-01-4	Y
Vinyl acetate	Not detected	20	0.15	ppbv	10	108-05-4	Y
p,m-Xylene	1.00	4	0.38	ppbv	10		JY
o-Xylene	0.30	2	0.20	ppbv	10	95-47-6	JY
Total Xylenes	1.30	6	0.58	ppbv	10	1330-20-7	JY

TO-15 (Replicate 01), Method: TO-15, Run Date: 04/26/22 16:44, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	190	48	1.4	ug/m3	10	67-64-1	Y
1,3-Butadiene	Not detected	44	0.64	ug/m3	10	106-99-0	Y
Benzene	0.96	6.4	0.61	ug/m3	10	71-43-2	JY
Bromodichloromethane	Not detected	13	1.5	ug/m3	10	75-27-4	Y
Bromoform	Not detected	21	2.4	ug/m3	10	75-25-2	Y

Y-Elevated reporting limit due to high target concentration

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S34513.01 (continued)

Sample Tag: 224121-OA-155

TO-15 (Replicate 01), Method: TO-15, Run Date: 04/26/22 16:44, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Bromomethane	Not detected	7.8	1.3	ug/m3	10	74-83-9	Y
Vinyl bromide	Not detected	8.7	1.5	ug/m3	10	593-60-2	Y
Benzyl chloride	Not detected	10	1.5	ug/m3	10	100-44-7	Y
Carbon disulfide	Not detected	16	0.59	ug/m3	10	75-15-0	Y UJ
Chlorobenzene	Not detected	9.2	0.78	ug/m3	10	108-90-7	Y
Chloroethane	Not detected	53	1.2	ug/m3	10	75-00-3	Y
Chloroform	Not detected	9.8	0.98	ug/m3	10	67-66-3	Y
Chloromethane	Not detected	41	0.83	ug/m3	10	74-87-3	Y
3-Chloropropene	Not detected	63	0.75	ug/m3	10	107-05-1	Y
2-Chlorotoluene	Not detected	10	1.2	ug/m3	10	95-49-8	Y
Carbon tetrachloride	Not detected	13	1.3	ug/m3	10	56-23-5	Y
Cyclohexane	Not detected	6.9	0.83	ug/m3	10	110-82-7	Y
1,1-Dichloroethane	Not detected	8.1	1.0	ug/m3	10	75-34-3	Y
1,1-Dichloroethene	Not detected	7.9	0.95	ug/m3	10	75-35-4	Y
1,2-Dibromoethane	Not detected	15	0.77	ug/m3	10	106-93-4	Y
1,2-Dichloroethane	Not detected	8.1	1.1	ug/m3	10	107-06-2	Y
1,2-Dichloropropane	Not detected	9.2	0.92	ug/m3	10	78-87-5	Y
1,4-Dioxane	Not detected	90	1.4	ug/m3	10	123-91-1	Y
Dichlorodifluoromethane	2.0	9.9	1.3	ug/m3	10	75-71-8	JY
Dibromochloromethane	Not detected	17	1.4	ug/m3	10	124-48-1	Y
trans-1,2-Dichloroethene	Not detected	7.9	0.83	ug/m3	10	156-60-5	Y
cis-1,2-Dichloroethene	Not detected	7.9	0.91	ug/m3	10	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	9.1	0.91	ug/m3	10	10061-01-5	Y
1,3-Dichlorobenzene	Not detected	12	1.2	ug/m3	10	541-73-1	Y
1,2-Dichlorobenzene	Not detected	12	1.4	ug/m3	10	95-50-1	Y
1,4-Dichlorobenzene	Not detected	12	1.1	ug/m3	10	106-46-7	Y
trans-1,3-Dichloropropene	Not detected	9.1	0.59	ug/m3	10	10061-02-6	Y
Ethanol*	286	47	1.3	ug/m3	10	64-17-5	Y
Ethylbenzene	3.5	8.7	0.87	ug/m3	10	100-41-4	JY
Ethyl Acetate*	Not detected	72	1.8	ug/m3	10	141-78-6	Y
4-Ethyltoluene	Not detected	9.8	1.6	ug/m3	10	622-96-8	Y
Freon 113	Not detected	15	1.8	ug/m3	10	76-13-1	Y
Freon 114	Not detected	14	2.0	ug/m3	10	76-14-2	Y
Heptane	2.0	8.2	0.61	ug/m3	10	142-82-5	JY
Hexachlorobutadiene	Not detected	21	3.1	ug/m3	10	87-68-3	Y
Hexane	Not detected	35	0.67	ug/m3	10	110-54-3	XY
2-Hexanone*	Not detected	20	0.86	ug/m3	10	591-78-6	Y
Isopropyl Alcohol*	Not detected	49	1.9	ug/m3	10	67-63-0	Y
Methylene chloride	Not detected	17	4.9	ug/m3	10	75-09-2	Y
2-Butanone (MEK)	240	59	1.4	ug/m3	10	78-93-3	Y
4-Methyl-2-pentanone (MIBK)	Not detected	20	0.70	ug/m3	10	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	7.2	0.36	ug/m3	10	1634-04-4	Y
Methyl methacrylate	Not detected	8.2	0.70	ug/m3	10	80-62-6	Y
Naphthalene	Not detected	10	0.52	ug/m3	10	91-20-3	Y
Propylene*	Not detected	170	0.65	ug/m3	10	115-07-1	Y
Styrene	Not detected	8.5	0.64	ug/m3	10	100-42-5	Y
1,1,1-Trichloroethane	Not detected	11	0.93	ug/m3	10	71-55-6	Y

Y-Elevated reporting limit due to high target concentration

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

ALH 5/10/22



Analytical Laboratory Report

Lab Sample ID: S34513.01 (continued)
Sample Tag: 224121-OA-155

TO-15 (Replicate 01), Method: TO-15, Run Date: 04/26/22 16:44, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,1,2,2-Tetrachloroethane	Not detected	14	0.96	ug/m3	10	79-34-5	Y
1,1,2-Trichloroethane	Not detected	11	0.82	ug/m3	10	79-00-5	Y
1,2,4-Trichlorobenzene	Not detected	37	1.1	ug/m3	10	120-82-1	Y
1,2,4-Trimethylbenzene	Not detected	9.8	1.4	ug/m3	10	95-63-6	Y
1,3,5-Trimethylbenzene	Not detected	9.8	1.2	ug/m3	10	108-67-8	Y
2,2,4-Trimethylpentane	Not detected	9.3	0.65	ug/m3	10	540-84-1	Y
Tert-butyl Alcohol	Not detected	30	1.2	ug/m3	10	75-65-0	Y
Tetrachloroethene	Not detected	14	1.6	ug/m3	10	127-18-4	Y
Tetrahydrofuran*	88	5.9	0.86	ug/m3	10	109-99-9	Y
Toluene	15	7.5	0.49	ug/m3	10	108-88-3	Y
Trichloroethene	Not detected	11	1.2	ug/m3	10	79-01-6	Y
Trichlorofluoromethane	1.1	11	0.96	ug/m3	10	75-69-4	JY
Vinyl chloride	Not detected	5.1	0.74	ug/m3	10	75-01-4	Y
Vinyl acetate	Not detected	70	0.53	ug/m3	10	108-05-4	Y
p,m-Xylene	4.34	17	1.6	ug/m3	10		JY
o-Xylene	1.3	8.7	0.87	ug/m3	10	95-47-6	JY
Total Xylenes	5.64	26	2.5	ug/m3	10	1330-20-7	JY

Y-Elevated reporting limit due to high target concentration
J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S34513.02

Sample Tag: 224121-IA-155

Collected Date/Time: 03/31/2022 08:44 - 03/31/2022 16:45

Matrix: Air

COC Reference: A6111

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-2	N/A	04/06/22 15:50	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/26/22 13:24, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	16.1	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.4	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.070	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.100	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.110	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.5	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.060	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	72.0	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.2	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	0.740	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S34513.02 (continued)

Sample Tag: 224121-IA-155

TO-15, Method: TO-15, Run Date: 04/26/22 13:24, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.070	0.2	0.032	ppbv	1	622-96-8	J
Freon 113	0.080	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.5	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.5	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	3.9	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.6	0.5	0.14	ppbv	1	75-09-2	
2-Butanone (MEK)	1.220	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.110	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	Not detected	0.2	0.010	ppbv	1	91-20-3	
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.030	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	0.020	0.2	0.017	ppbv	1	71-55-6	J
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.120	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.2	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.100	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.4	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	0.3	0.2	0.029	ppbv	1	109-99-9	
Toluene	3.8	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	0.130	0.2	0.023	ppbv	1	79-01-6	J
Trichlorofluoromethane	0.2	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.5	0.4	0.038	ppbv	1		
o-Xylene	0.2	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	0.8	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 04/26/22 13:24, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	38.2	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	1.3	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.22	1.6	0.059	ug/m3	1	75-15-0	J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

ALH 5/10/22



Analytical Laboratory Report

Lab Sample ID: S34513.02 (continued)

Sample Tag: 224121-IA-155

TO-15, Method: TO-15, Run Date: 04/26/22 13:24, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	0.488	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.379	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.5	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 ~~0.36~~	1.2	0.11	ug/m3	1	106-46-7	JB-U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	136	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.87	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	2.67	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.34	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.61	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	2.0	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	1.8	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	9.6	0.19	ug/m3	1	67-63-0	X
Methylene chloride	2.1	1.7	0.49	ug/m3	1	75-09-2	
2-Butanone (MEK)	3.598	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.451	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	Not detected	1.0	0.052	ug/m3	1	91-20-3	
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.13	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	0.11	1.1	0.093	ug/m3	1	71-55-6	J
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.590	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	0.93	0.93	0.065	ug/m3	1	540-84-1	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference

ALH 5/10/22



Analytical Laboratory Report

Lab Sample ID: S34513.02 (continued)
Sample Tag: 224121-IA-155

TO-15, Method: TO-15, Run Date: 04/26/22 13:24, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	0.303	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	2.7	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	0.88	0.59	0.086	ug/m3	1	109-99-9	
Toluene	14	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	0.699	1.1	0.12	ug/m3	1	79-01-6	J
Trichlorofluoromethane	1.1	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	2.2	1.7	0.16	ug/m3	1		
o-Xylene	0.87	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	3.5	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S34513.03

Sample Tag: 224212-SS-155

Collected Date/Time: 03/31/2022 08:41 - 03/31/2022 16:42

Matrix: Air

COC Reference: A6111

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	0	N/A	04/06/22 15:50	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/26/22 13:48, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	26.6	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.2	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.340	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	2.3	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.6	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.180	0.2	0.024	ppbv	1	110-82-7	J
1,1-Dichloroethane	0.5	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.080	0.2	0.028	ppbv	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.5	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	0.4	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	4.4	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.020	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	7.7	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	2.0	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	0.370	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S34513.03 (continued)

Sample Tag: 224212-SS-155

TO-15, Method: TO-15, Run Date: 04/26/22 13:48, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.090	0.2	0.032	ppbv	1	622-96-8	J
Freon 113	0.100	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.7	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	Not detected	2.6	0.019	ppbv	1	110-54-3	X
2-Hexanone*	0.180	0.5	0.021	ppbv	1	591-78-6	J
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.34	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	19.8	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	0.220	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.020	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	Not detected	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	1.3	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.2	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.070	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.150	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	0.250	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	23.1	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	10.3	0.2	0.029	ppbv	1	109-99-9	
Toluene	7.1	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	6.8	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.2	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	2.6	0.4	0.038	ppbv	1		
o-Xylene	0.7	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	3.2	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 04/26/22 13:48, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	63.2	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.64	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	1.06	1.6	0.059	ug/m3	1	75-15-0	J--J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

ALH 5/10/22

Lab Sample ID: S34513.03 (continued)

Sample Tag: 224212-SS-155

TO-15, Method: TO-15, Run Date: 04/26/22 13:48, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroethane	6.1	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	2.9	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	0.620	0.69	0.083	ug/m3	1	110-82-7	J
1,1-Dichloroethane	2.0	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	0.32	0.81	0.11	ug/m3	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.5	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	1.6	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	17	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 0.12---	1.2	0.11	ug/m3	1	106-46-7	-JB-U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	15	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	8.7	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	1.33	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.44	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.766	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	2.9	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	Not detected	9.2	0.067	ug/m3	1	110-54-3	X
2-Hexanone*	0.737	2.0	0.086	ug/m3	1	591-78-6	J
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	1.2	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	58.4	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	0.901	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 0.10---	1.0	0.052	ug/m3	1	91-20-3	-JB-U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	Not detected	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	7.1	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.98	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	0.34	0.98	0.12	ug/m3	1	108-67-8	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S34513.03 (continued)
Sample Tag: 224212-SS-155

TO-15, Method: TO-15, Run Date: 04/26/22 13:48, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2,2,4-Trimethylpentane	0.701	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	0.758	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	157	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	30.4	0.59	0.086	ug/m3	1	109-99-9	
Toluene	27	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	37	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.1	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	11	1.7	0.16	ug/m3	1		
o-Xylene	3.0	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	14	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S34513.04

Sample Tag: 224121-OA-157

Collected Date/Time: 03/31/2022 12:25 - 04/01/2022 12:25

Matrix: Air

COC Reference: A6111

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-5	N/A	04/06/22 15:50	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/26/22 14:13, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	5.7	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.180	0.2	0.019	ppbv	1	71-43-2	J
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	Not detected	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.030	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.580	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.5	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.020	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	9.2	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.080	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.180	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S34513.04 (continued)

Sample Tag: 224121-OA-157

TO-15, Method: TO-15, Run Date: 04/26/22 14:13, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.040	0.2	0.032	ppbv	1	622-96-8	J
Freon 113	0.070	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.140	0.2	0.015	ppbv	1	142-82-5	J
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.160	0.2	0.019	ppbv	1	110-54-3	J
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	1.810	2.0	0.076	ppbv	1	67-63-0	J
Methylene chloride	0.24	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.590	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.140	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	Not detected	0.2	0.010	ppbv	1	91-20-3	
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.030	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.070	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.060	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	0.090	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.090	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	0.040	0.2	0.029	ppbv	1	109-99-9	J
Toluene	0.8	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.2	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.260	0.4	0.038	ppbv	1		J
o-Xylene	0.100	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.360	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 04/26/22 14:13, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	14	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.575	0.64	0.061	ug/m3	1	71-43-2	J
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	Not detected	1.6	0.059	ug/m3	1	75-15-0	UJ
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.15	0.98	0.098	ug/m3	1	67-66-3	J

J-Estimated value less than reporting limit, but greater than MDL

ALH 5/10/22



Analytical Laboratory Report

Lab Sample ID: S34513.04 (continued)

Sample Tag: 224121-OA-157

TO-15, Method: TO-15, Run Date: 04/26/22 14:13, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	1.20	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.5	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2	1.2	0.11	ug/m3	1	106-46-7	-3B-U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	17	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.35	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	0.649	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.20	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.54	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	0.574	0.82	0.061	ug/m3	1	142-82-5	J
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	0.564	0.70	0.067	ug/m3	1	110-54-3	J
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	4.449	4.9	0.19	ug/m3	1	67-63-0	J
Methylene chloride	0.83	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	1.74	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.574	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	Not detected	1.0	0.052	ug/m3	1	91-20-3	
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.13	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.34	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	0.28	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	0.27	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.61	1.4	0.16	ug/m3	1	127-18-4	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

ALH 5/10/22



Analytical Laboratory Report

Lab Sample ID: S34513.04 (continued)
Sample Tag: 224121-OA-157

TO-15, Method: TO-15, Run Date: 04/26/22 14:13, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	0.12	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	3.0	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.1	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.13	1.7	0.16	ug/m3	1		J
o-Xylene	0.434	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	1.56	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S34513.05
Sample Tag: 224121-IA-157
Collected Date/Time: 03/31/2022 12:20 - 04/01/2022 12:20
Matrix: Air
COC Reference: A6111

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-7	N/A	04/06/22 15:50	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/26/22 14:38, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	17.2	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.2	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	Not detected	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.120	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	1.260	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.060	0.2	0.028	ppbv	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.5	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.030	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	428.9	2.5	0.068	ppbv	1	64-17-5	E
Ethylbenzene	0.170	0.2	0.020	ppbv	1	100-41-4	J

J-Estimated value less than reporting limit, but greater than MDL
B-Compound also found in associated method blank
E-Concentration exceeds calibration range

Lab Sample ID: S34513.05 (continued)

Sample Tag: 224121-IA-157

TO-15, Method: TO-15, Run Date: 04/26/22 14:38, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Ethyl Acetate*	2.4	2.0	0.049	ppbv	1	141-78-6	
4-Ethyltoluene	0.090	0.2	0.032	ppbv	1	622-96-8	J
Freon 113	0.060	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.2	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.3	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	9.0	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.26	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.890	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.070	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	Not detected	0.2	0.010	ppbv	1	91-20-3	
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.030	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	0.020	0.2	0.017	ppbv	1	71-55-6	J
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.110	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	0.030	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.080	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	0.260	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.150	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	0.120	0.2	0.029	ppbv	1	109-99-9	J
Toluene	1.0	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	0.040	0.2	0.023	ppbv	1	79-01-6	J
Trichlorofluoromethane	0.2	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.5	0.4	0.038	ppbv	1		
o-Xylene	0.180	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.7	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 04/26/22 14:38, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	40.9	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.64	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	Not detected	1.6	0.059	ug/m3	1	75-15-0	UJ
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S34513.05 (continued)

Sample Tag: 224121-IA-157

TO-15, Method: TO-15, Run Date: 04/26/22 14:38, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloroform	0.586	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	2.602	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	0.24	0.81	0.11	ug/m3	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.5	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 0.18	1.2	0.11	ug/m3	1	106-46-7	JB--U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	808.2	4.7	0.13	ug/m3	1	64-17-5	E--J
Ethylbenzene	0.738	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	8.6	7.2	0.18	ug/m3	1	141-78-6	
4-Ethyltoluene	0.44	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.46	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	0.82	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	1.1	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	22	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.90	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	2.62	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.29	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	Not detected	1.0	0.052	ug/m3	1	91-20-3	
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.13	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	0.11	1.1	0.093	ug/m3	1	71-55-6	J
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.541	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	0.15	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	0.37	0.93	0.065	ug/m3	1	540-84-1	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

E-Concentration exceeds calibration range

ALH 5/10/22



Analytical Laboratory Report

Lab Sample ID: S34513.05 (continued)
Sample Tag: 224121-IA-157

TO-15, Method: TO-15, Run Date: 04/26/22 14:38, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tert-butyl Alcohol	0.788	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	1.02	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	0.354	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	3.8	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	0.21	1.1	0.12	ug/m3	1	79-01-6	J
Trichlorofluoromethane	1.1	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	2.2	1.7	0.16	ug/m3	1		
o-Xylene	0.782	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	3.0	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S34513.06
Sample Tag: 224212-SS-157
Collected Date/Time: 03/31/2022 12:15 - 04/01/2022 12:15
Matrix: Air
COC Reference: A6111

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-8	N/A	04/06/22 15:50	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/26/22 15:03, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	67.8	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.7	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.7	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	0.390	2.0	0.046	ppbv	1	75-00-3	J
Chloroform	1.5	0.2	0.020	ppbv	1	67-66-3	
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.090	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	1.2	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	0.080	0.2	0.025	ppbv	1	75-34-3	J
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.5	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.050	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	30.6	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	7.2	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	2.1	2.0	0.049	ppbv	1	141-78-6	

J-Estimated value less than reporting limit, but greater than MDL
B-Compound also found in associated method blank

Lab Sample ID: S34513.06 (continued)

Sample Tag: 224212-SS-157

TO-15, Method: TO-15, Run Date: 04/26/22 15:03, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.3	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.080	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	3.8	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	Not detected	19.4	0.019	ppbv	1	110-54-3	X
2-Hexanone*	1.7	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	4.9	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.22	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	164.6	2.0	0.046	ppbv	1	78-93-3	E
4-Methyl-2-pentanone (MIBK)	0.8	0.5	0.017	ppbv	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.190	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	10	10	0.038	ppbv	1	115-07-1	
Styrene	0.2	0.2	0.015	ppbv	1	100-42-5	
1,1,1-Trichloroethane	0.7	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.9	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.2	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.3	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.980	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	1.6	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	114.5	0.2	0.029	ppbv	1	109-99-9	E
Toluene	28.8	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	1.1	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.2	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	8.7	0.4	0.038	ppbv	1		
o-Xylene	2.2	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	10.9	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 04/26/22 15:03, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	161	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	2.2	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	2.2	1.6	0.059	ug/m3	1	75-15-0	J

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

E-Concentration exceeds calibration range

B-Compound also found in associated method blank

Lab Sample ID: S34513.06 (continued)

Sample Tag: 224212-SS-157

TO-15, Method: TO-15, Run Date: 04/26/22 15:03, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	1.03	5.3	0.12	ug/m3	1	75-00-3	J
Chloroform	7.3	0.98	0.098	ug/m3	1	67-66-3	
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.57	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	4.1	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	0.32	0.81	0.10	ug/m3	1	75-34-3	J
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.5	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 0.30---	1.2	0.11	ug/m3	1	106-46-7	JB--U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	57.7	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	31	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	7.6	7.2	0.18	ug/m3	1	141-78-6	
4-Ethyltoluene	1.5	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.61	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	16	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	Not detected	68.4	0.067	ug/m3	1	110-54-3	X
2-Hexanone*	7.0	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	12	0.19	ug/m3	1	67-63-0	X
Methylene chloride	0.76	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	485.5	5.9	0.14	ug/m3	1	78-93-3	-E--J
4-Methyl-2-pentanone (MIBK)	3.3	2.0	0.070	ug/m3	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 0.996---	1.0	0.052	ug/m3	1	91-20-3	JB--U
Propylene*	17	17	0.065	ug/m3	1	115-07-1	
Styrene	0.85	0.85	0.064	ug/m3	1	100-42-5	
1,1,1-Trichloroethane	3.8	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference

E-Concentration exceeds calibration range

Analytical Laboratory Report

Lab Sample ID: S34513.06 (continued)

Sample Tag: 224212-SS-157

TO-15, Method: TO-15, Run Date: 04/26/22 15:03, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2,4-Trimethylbenzene	4.4	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	0.98	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	1.4	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	2.97	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	11	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	337.7	0.59	0.086	ug/m3	1	109-99-9	--E-J
Toluene	109	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	5.9	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.1	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	38	1.7	0.16	ug/m3	1		
o-Xylene	9.6	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	47.3	2.6	0.25	ug/m3	1	1330-20-7	

TO-15 (Replicate 01), Method: TO-15, Run Date: 04/26/22 17:07, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	60	20	0.58	ppbv	10	67-64-1	Y
1,3-Butadiene	Not detected	20	0.29	ppbv	10	106-99-0	Y
Benzene	0.70	2	0.19	ppbv	10	71-43-2	JY
Bromodichloromethane	Not detected	2	0.23	ppbv	10	75-27-4	Y
Bromoform	Not detected	2	0.23	ppbv	10	75-25-2	Y
Bromomethane	Not detected	2	0.33	ppbv	10	74-83-9	Y
Vinyl bromide	Not detected	2	0.35	ppbv	10	593-60-2	Y
Benzyl chloride	Not detected	2	0.29	ppbv	10	100-44-7	Y
Carbon disulfide	Not detected	5	0.19	ppbv	10	75-15-0	Y
Chlorobenzene	Not detected	2	0.17	ppbv	10	108-90-7	Y
Chloroethane	Not detected	20	0.46	ppbv	10	75-00-3	Y
Chloroform	1.40	2	0.20	ppbv	10	67-66-3	JY
Chloromethane	Not detected	20	0.40	ppbv	10	74-87-3	Y
3-Chloropropene	Not detected	20	0.24	ppbv	10	107-05-1	Y
2-Chlorotoluene	Not detected	2	0.24	ppbv	10	95-49-8	Y
Carbon tetrachloride	Not detected	2	0.20	ppbv	10	56-23-5	Y
Cyclohexane	1.10	2	0.24	ppbv	10	110-82-7	JY
1,1-Dichloroethane	Not detected	2	0.25	ppbv	10	75-34-3	Y
1,1-Dichloroethene	Not detected	2	0.24	ppbv	10	75-35-4	Y
1,2-Dibromoethane	Not detected	2	0.10	ppbv	10	106-93-4	Y
1,2-Dichloroethane	Not detected	2	0.28	ppbv	10	107-06-2	Y
1,2-Dichloropropane	Not detected	2	0.20	ppbv	10	78-87-5	Y
1,4-Dioxane	Not detected	25	0.38	ppbv	10	123-91-1	Y
Dichlorodifluoromethane	0.40	2	0.26	ppbv	10	75-71-8	JY
Dibromochloromethane	Not detected	2	0.17	ppbv	10	124-48-1	Y
trans-1,2-Dichloroethene	Not detected	2	0.21	ppbv	10	156-60-5	Y
cis-1,2-Dichloroethene	Not detected	2	0.23	ppbv	10	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	2	0.20	ppbv	10	10061-01-5	Y
1,3-Dichlorobenzene	Not detected	2	0.20	ppbv	10	541-73-1	Y
1,2-Dichlorobenzene	Not detected	2	0.24	ppbv	10	95-50-1	Y

J-Estimated value less than reporting limit, but greater than MDL

E-Concentration exceeds calibration range

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S34513.06 (continued)

Sample Tag: 224212-SS-157

TO-15 (Replicate 01), Method: TO-15, Run Date: 04/26/22 17:07, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,4-Dichlorobenzene	Not detected	2	0.19	ppbv	10	106-46-7	Y
trans-1,3-Dichloropropene	Not detected	2	0.13	ppbv	10	10061-02-6	Y
Ethanol*	26	25	0.68	ppbv	10	64-17-5	Y
Ethylbenzene	6	2	0.20	ppbv	10	100-41-4	Y
Ethyl Acetate*	1.00	20	0.49	ppbv	10	141-78-6	JY
4-Ethyltoluene	Not detected	2	0.32	ppbv	10	622-96-8	Y
Freon 113	Not detected	2	0.24	ppbv	10	76-13-1	Y
Freon 114	Not detected	2	0.29	ppbv	10	76-14-2	Y
Heptane	3	2	0.15	ppbv	10	142-82-5	Y
Hexachlorobutadiene	Not detected	2	0.29	ppbv	10	87-68-3	Y
Hexane	Not detected	17	0.19	ppbv	10	110-54-3	XY
2-Hexanone*	1.10	5	0.21	ppbv	10	591-78-6	JY
Isopropyl Alcohol*	Not detected	20	0.76	ppbv	10	67-63-0	Y
Methylene chloride	Not detected	5	1.4	ppbv	10	75-09-2	Y
2-Butanone (MEK)	130	20	0.46	ppbv	10	78-93-3	Y
4-Methyl-2-pentanone (MIBK)	0.50	5	0.17	ppbv	10	108-10-1	JY
tert-Methyl butyl ether (MTBE)	Not detected	2	0.10	ppbv	10	1634-04-4	Y
Methyl methacrylate	Not detected	2	0.17	ppbv	10	80-62-6	Y
Naphthalene	Not detected	2	0.10	ppbv	10	91-20-3	Y
Propylene*	11.40	100	0.38	ppbv	10	115-07-1	JY
Styrene	0.20	2	0.15	ppbv	10	100-42-5	JY
1,1,1-Trichloroethane	0.60	2	0.17	ppbv	10	71-55-6	JY
1,1,2,2-Tetrachloroethane	Not detected	2	0.14	ppbv	10	79-34-5	Y
1,1,2-Trichloroethane	Not detected	2	0.15	ppbv	10	79-00-5	Y
1,2,4-Trichlorobenzene	Not detected	5	0.15	ppbv	10	120-82-1	Y
1,2,4-Trimethylbenzene	0.70	2	0.29	ppbv	10	95-63-6	JY
1,3,5-Trimethylbenzene	Not detected	2	0.25	ppbv	10	108-67-8	Y
2,2,4-Trimethylpentane	0.30	2	0.14	ppbv	10	540-84-1	JY
Tert-butyl Alcohol	Not detected	10	0.41	ppbv	10	75-65-0	Y
Tetrachloroethene	1.40	2	0.24	ppbv	10	127-18-4	JY
Tetrahydrofuran*	95	2	0.29	ppbv	10	109-99-9	Y
Toluene	25	2	0.13	ppbv	10	108-88-3	Y
Trichloroethene	1.00	2	0.23	ppbv	10	79-01-6	JY
Trichlorofluoromethane	0.20	2	0.17	ppbv	10	75-69-4	JY
Vinyl chloride	Not detected	2	0.29	ppbv	10	75-01-4	Y
Vinyl acetate	Not detected	20	0.15	ppbv	10	108-05-4	Y
p,m-Xylene	8	4	0.38	ppbv	10		Y
o-Xylene	1.90	2	0.20	ppbv	10	95-47-6	JY
Total Xylenes	9	6	0.58	ppbv	10	1330-20-7	Y

TO-15 (Replicate 01), Method: TO-15, Run Date: 04/26/22 17:07, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	140	48	1.4	ug/m3	10	67-64-1	Y
1,3-Butadiene	Not detected	44	0.64	ug/m3	10	106-99-0	Y
Benzene	2.2	6.4	0.61	ug/m3	10	71-43-2	JY
Bromodichloromethane	Not detected	13	1.5	ug/m3	10	75-27-4	Y
Bromoform	Not detected	21	2.4	ug/m3	10	75-25-2	Y

Y-Elevated reporting limit due to high target concentration

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S34513.06 (continued)

Sample Tag: 224212-SS-157

TO-15 (Replicate 01), Method: TO-15, Run Date: 04/26/22 17:07, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Bromomethane	Not detected	7.8	1.3	ug/m3	10	74-83-9	Y
Vinyl bromide	Not detected	8.7	1.5	ug/m3	10	593-60-2	Y
Benzyl chloride	Not detected	10	1.5	ug/m3	10	100-44-7	Y
Carbon disulfide	Not detected	16	0.59	ug/m3	10	75-15-0	Y UJ
Chlorobenzene	Not detected	9.2	0.78	ug/m3	10	108-90-7	Y
Chloroethane	Not detected	53	1.2	ug/m3	10	75-00-3	Y
Chloroform	6.84	9.8	0.98	ug/m3	10	67-66-3	JY
Chloromethane	Not detected	41	0.83	ug/m3	10	74-87-3	Y
3-Chloropropene	Not detected	63	0.75	ug/m3	10	107-05-1	Y
2-Chlorotoluene	Not detected	10	1.2	ug/m3	10	95-49-8	Y
Carbon tetrachloride	Not detected	13	1.3	ug/m3	10	56-23-5	Y
Cyclohexane	3.79	6.9	0.83	ug/m3	10	110-82-7	JY
1,1-Dichloroethane	Not detected	8.1	1.0	ug/m3	10	75-34-3	Y
1,1-Dichloroethene	Not detected	7.9	0.95	ug/m3	10	75-35-4	Y
1,2-Dibromoethane	Not detected	15	0.77	ug/m3	10	106-93-4	Y
1,2-Dichloroethane	Not detected	8.1	1.1	ug/m3	10	107-06-2	Y
1,2-Dichloropropane	Not detected	9.2	0.92	ug/m3	10	78-87-5	Y
1,4-Dioxane	Not detected	90	1.4	ug/m3	10	123-91-1	Y
Dichlorodifluoromethane	2.0	9.9	1.3	ug/m3	10	75-71-8	JY
Dibromochloromethane	Not detected	17	1.4	ug/m3	10	124-48-1	Y
trans-1,2-Dichloroethene	Not detected	7.9	0.83	ug/m3	10	156-60-5	Y
cis-1,2-Dichloroethene	Not detected	7.9	0.91	ug/m3	10	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	9.1	0.91	ug/m3	10	10061-01-5	Y
1,3-Dichlorobenzene	Not detected	12	1.2	ug/m3	10	541-73-1	Y
1,2-Dichlorobenzene	Not detected	12	1.4	ug/m3	10	95-50-1	Y
1,4-Dichlorobenzene	Not detected	12	1.1	ug/m3	10	106-46-7	Y
trans-1,3-Dichloropropene	Not detected	9.1	0.59	ug/m3	10	10061-02-6	Y
Ethanol*	49	47	1.3	ug/m3	10	64-17-5	Y
Ethylbenzene	26	8.7	0.87	ug/m3	10	100-41-4	Y
Ethyl Acetate*	3.60	72	1.8	ug/m3	10	141-78-6	JY
4-Ethyltoluene	Not detected	9.8	1.6	ug/m3	10	622-96-8	Y
Freon 113	Not detected	15	1.8	ug/m3	10	76-13-1	Y
Freon 114	Not detected	14	2.0	ug/m3	10	76-14-2	Y
Heptane	12	8.2	0.61	ug/m3	10	142-82-5	Y
Hexachlorobutadiene	Not detected	21	3.1	ug/m3	10	87-68-3	Y
Hexane	Not detected	60	0.67	ug/m3	10	110-54-3	XY
2-Hexanone*	4.51	20	0.86	ug/m3	10	591-78-6	JY
Isopropyl Alcohol*	Not detected	49	1.9	ug/m3	10	67-63-0	Y
Methylene chloride	Not detected	17	4.9	ug/m3	10	75-09-2	Y
2-Butanone (MEK)	380	59	1.4	ug/m3	10	78-93-3	Y
4-Methyl-2-pentanone (MIBK)	2.0	20	0.70	ug/m3	10	108-10-1	JY
tert-Methyl butyl ether (MTBE)	Not detected	7.2	0.36	ug/m3	10	1634-04-4	Y
Methyl methacrylate	Not detected	8.2	0.70	ug/m3	10	80-62-6	Y
Naphthalene	Not detected	10	0.52	ug/m3	10	91-20-3	Y
Propylene*	19.62	170	0.65	ug/m3	10	115-07-1	JY
Styrene	0.85	8.5	0.64	ug/m3	10	100-42-5	JY
1,1,1-Trichloroethane	3.3	11	0.93	ug/m3	10	71-55-6	JY

Y-Elevated reporting limit due to high target concentration

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

ALH 5/10/22

Lab Sample ID: S34513.06 (continued)

Sample Tag: 224212-SS-157

TO-15 (Replicate 01), Method: TO-15, Run Date: 04/26/22 17:07, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,1,2,2-Tetrachloroethane	Not detected	14	0.96	ug/m3	10	79-34-5	Y
1,1,2-Trichloroethane	Not detected	11	0.82	ug/m3	10	79-00-5	Y
1,2,4-Trichlorobenzene	Not detected	37	1.1	ug/m3	10	120-82-1	Y
1,2,4-Trimethylbenzene	3.4	9.8	1.4	ug/m3	10	95-63-6	JY
1,3,5-Trimethylbenzene	Not detected	9.8	1.2	ug/m3	10	108-67-8	Y
2,2,4-Trimethylpentane	1.4	9.3	0.65	ug/m3	10	540-84-1	JY
Tert-butyl Alcohol	Not detected	30	1.2	ug/m3	10	75-65-0	Y
Tetrachloroethene	9.50	14	1.6	ug/m3	10	127-18-4	JY
Tetrahydrofuran*	280	5.9	0.86	ug/m3	10	109-99-9	Y
Toluene	94	7.5	0.49	ug/m3	10	108-88-3	Y
Trichloroethene	5.37	11	1.2	ug/m3	10	79-01-6	JY
Trichlorofluoromethane	1.1	11	0.96	ug/m3	10	75-69-4	JY
Vinyl chloride	Not detected	5.1	0.74	ug/m3	10	75-01-4	Y
Vinyl acetate	Not detected	70	0.53	ug/m3	10	108-05-4	Y
p,m-Xylene	35	17	1.6	ug/m3	10		Y
o-Xylene	8.25	8.7	0.87	ug/m3	10	95-47-6	JY
Total Xylenes	39	26	2.5	ug/m3	10	1330-20-7	Y

Y-Elevated reporting limit due to high target concentration

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S34513.07

Sample Tag: 224121-OA-156

Collected Date/Time: 03/31/2022 10:17 - 04/01/2022 10:17

Matrix: Air

COC Reference: A6111

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-5	N/A	04/06/22 15:50	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/26/22 15:28, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	5.7	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.3	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.080	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.030	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	0.580	2.0	0.040	ppbv	1	74-87-3	J
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.060	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	Not detected	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.5	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.030	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	9.5	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	0.130	0.2	0.020	ppbv	1	100-41-4	J
Ethyl Acetate*	0.290	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S34513.07 (continued)

Sample Tag: 224121-OA-156

TO-15, Method: TO-15, Run Date: 04/26/22 15:28, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.050	0.2	0.032	ppbv	1	622-96-8	J
Freon 113	0.070	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	0.2	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	0.3	0.2	0.019	ppbv	1	110-54-3	
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	1.320	2.0	0.076	ppbv	1	67-63-0	J
Methylene chloride	0.35	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	0.680	2.0	0.046	ppbv	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	0.300	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	Not detected	0.2	0.010	ppbv	1	91-20-3	
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.030	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.090	0.2	0.029	ppbv	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	0.110	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	0.090	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.080	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	0.150	0.2	0.029	ppbv	1	109-99-9	J
Toluene	1.2	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.2	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	0.4	0.4	0.038	ppbv	1		
o-Xylene	0.160	0.2	0.020	ppbv	1	95-47-6	J
Total Xylenes	0.590	0.6	0.058	ppbv	1	1330-20-7	J

TO-15, Method: TO-15, Run Date: 04/26/22 15:28, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	14	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	0.96	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.25	1.6	0.059	ug/m3	1	75-15-0	J-J
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.15	0.98	0.098	ug/m3	1	67-66-3	J

J-Estimated value less than reporting limit, but greater than MDL

ALH 5/10/22

Lab Sample ID: S34513.07 (continued)

Sample Tag: 224121-OA-156

TO-15, Method: TO-15, Run Date: 04/26/22 15:28, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	1.20	4.1	0.083	ug/m3	1	74-87-3	J
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.38	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	Not detected	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.5	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.20-1.18	1.2	0.11	ug/m3	1	106-46-7	JB-U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	18	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	0.564	0.87	0.087	ug/m3	1	100-41-4	J
Ethyl Acetate*	1.05	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.25	0.98	0.16	ug/m3	1	622-96-8	J
Freon 113	0.54	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	0.82	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	1.1	0.70	0.067	ug/m3	1	110-54-3	
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	3.245	4.9	0.19	ug/m3	1	67-63-0	J
Methylene chloride	1.2	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	2.01	5.9	0.14	ug/m3	1	78-93-3	J
4-Methyl-2-pentanone (MIBK)	1.23	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	Not detected	1.0	0.052	ug/m3	1	91-20-3	
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.13	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	
1,2,4-Trimethylbenzene	0.44	0.98	0.14	ug/m3	1	95-63-6	J
1,3,5-Trimethylbenzene	Not detected	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	0.514	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	0.27	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.54	1.4	0.16	ug/m3	1	127-18-4	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S34513.07 (continued)

Sample Tag: 224121-OA-156

TO-15, Method: TO-15, Run Date: 04/26/22 15:28, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrahydrofuran*	0.442	0.59	0.086	ug/m3	1	109-99-9	J
Toluene	4.5	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.1	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	1.7	1.7	0.16	ug/m3	1		
o-Xylene	0.695	0.87	0.087	ug/m3	1	95-47-6	J
Total Xylenes	2.56	2.6	0.25	ug/m3	1	1330-20-7	J

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S34513.08

Sample Tag: 224121-IA-156

Collected Date/Time: 03/31/2022 10:10 - 04/01/2022 10:10

Matrix: Air

COC Reference: A6111

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-20	N/A	04/06/22 15:50	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/26/22 15:55, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	35.2	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.4	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.8	0.5	0.019	ppbv	1	75-15-0	
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.130	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.070	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.5	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	0.050	0.2	0.028	ppbv	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.5	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.050	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	138.9	2.5	0.068	ppbv	1	64-17-5	E
Ethylbenzene	0.6	0.2	0.020	ppbv	1	100-41-4	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

E-Concentration exceeds calibration range

Analytical Laboratory Report

Lab Sample ID: S34513.08 (continued)

Sample Tag: 224121-IA-156

TO-15, Method: TO-15, Run Date: 04/26/22 15:55, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Ethyl Acetate*	1.730	2.0	0.049	ppbv	1	141-78-6	J
4-Ethyltoluene	0.4	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.070	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	1.4	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	Not detected	2.1	0.019	ppbv	1	110-54-3	X
2-Hexanone*	Not detected	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	6.4	0.076	ppbv	1	67-63-0	X
Methylene chloride	0.38	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	10.2	2.0	0.046	ppbv	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	0.420	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.2	0.010	ppbv	1	1634-04-4	
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.010	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	10	10	0.038	ppbv	1	115-07-1	
Styrene	0.090	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.7	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.2	0.2	0.025	ppbv	1	108-67-8	
2,2,4-Trimethylpentane	2.2	0.2	0.014	ppbv	1	540-84-1	
Tert-butyl Alcohol	0.190	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	0.120	0.2	0.024	ppbv	1	127-18-4	J
Tetrahydrofuran*	7.2	0.2	0.029	ppbv	1	109-99-9	
Toluene	5.5	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.2	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	1.6	0.4	0.038	ppbv	1		
o-Xylene	0.7	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	2.3	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 04/26/22 15:55, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	83.6	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	1.3	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	2.5	1.6	0.059	ug/m3	1	75-15-0	J

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

Lab Sample ID: S34513.08 (continued)

Sample Tag: 224121-IA-156

TO-15, Method: TO-15, Run Date: 04/26/22 15:55, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.635	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.44	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	1.7	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	0.20	0.81	0.11	ug/m3	1	107-06-2	J
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.5	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2	0.30	0.11	ug/m3	1	106-46-7	JB-U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	261.7	4.7	0.13	ug/m3	1	64-17-5	E-J
Ethylbenzene	2.6	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	6.234	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	2.0	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.54	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	5.7	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	Not detected	7.4	0.067	ug/m3	1	110-54-3	X
2-Hexanone*	Not detected	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	16	0.19	ug/m3	1	67-63-0	X
Methylene chloride	1.3	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	30.1	5.9	0.14	ug/m3	1	78-93-3	
4-Methyl-2-pentanone (MIBK)	1.72	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	Not detected	0.72	0.036	ug/m3	1	1634-04-4	
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0	0.052	0.052	ug/m3	1	91-20-3	JB-U
Propylene*	17	17	0.065	ug/m3	1	115-07-1	
Styrene	0.38	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

E-Concentration exceeds calibration range

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S34513.08 (continued)

Sample Tag: 224121-IA-156

TO-15, Method: TO-15, Run Date: 04/26/22 15:55, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2,4-Trimethylbenzene	3.4	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	0.98	0.98	0.12	ug/m3	1	108-67-8	
2,2,4-Trimethylpentane	10	0.93	0.065	ug/m3	1	540-84-1	
Tert-butyl Alcohol	0.576	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	0.814	1.4	0.16	ug/m3	1	127-18-4	J
Tetrahydrofuran*	21	0.59	0.086	ug/m3	1	109-99-9	
Toluene	21	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.1	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	6.9	1.7	0.16	ug/m3	1		
o-Xylene	3.0	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	10.0	2.6	0.25	ug/m3	1	1330-20-7	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S34513.09

Sample Tag: 224212-SS-156

Collected Date/Time: 03/31/2022 10:03 - 04/01/2022 10:03

Matrix: Air

COC Reference: A6111

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-4	N/A	04/06/22 15:50	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 04/26/22 16:20, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	42.4	2.0	0.058	ppbv	1	67-64-1	
1,3-Butadiene	Not detected	2.0	0.029	ppbv	1	106-99-0	
Benzene	0.5	0.2	0.019	ppbv	1	71-43-2	
Bromodichloromethane	Not detected	0.2	0.023	ppbv	1	75-27-4	
Bromoform	Not detected	0.2	0.023	ppbv	1	75-25-2	
Bromomethane	Not detected	0.2	0.033	ppbv	1	74-83-9	
Vinyl bromide	Not detected	0.2	0.035	ppbv	1	593-60-2	
Benzyl chloride	Not detected	0.2	0.029	ppbv	1	100-44-7	
Carbon disulfide	0.120	0.5	0.019	ppbv	1	75-15-0	J
Chlorobenzene	Not detected	0.2	0.017	ppbv	1	108-90-7	
Chloroethane	Not detected	2.0	0.046	ppbv	1	75-00-3	
Chloroform	0.040	0.2	0.020	ppbv	1	67-66-3	J
Chloromethane	Not detected	2.0	0.040	ppbv	1	74-87-3	
3-Chloropropene	Not detected	2.0	0.024	ppbv	1	107-05-1	
2-Chlorotoluene	Not detected	0.2	0.024	ppbv	1	95-49-8	
Carbon tetrachloride	0.050	0.2	0.020	ppbv	1	56-23-5	J
Cyclohexane	0.7	0.2	0.024	ppbv	1	110-82-7	
1,1-Dichloroethane	Not detected	0.2	0.025	ppbv	1	75-34-3	
1,1-Dichloroethene	Not detected	0.2	0.024	ppbv	1	75-35-4	
1,2-Dibromoethane	Not detected	0.2	0.010	ppbv	1	106-93-4	
1,2-Dichloroethane	Not detected	0.2	0.028	ppbv	1	107-06-2	
1,2-Dichloropropane	Not detected	0.2	0.020	ppbv	1	78-87-5	
1,4-Dioxane	Not detected	2.5	0.038	ppbv	1	123-91-1	
Dichlorodifluoromethane	0.5	0.2	0.026	ppbv	1	75-71-8	
Dibromochloromethane	Not detected	0.2	0.017	ppbv	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.2	0.021	ppbv	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.2	0.023	ppbv	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.2	0.020	ppbv	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	0.2	0.020	ppbv	1	541-73-1	
1,2-Dichlorobenzene	Not detected	0.2	0.024	ppbv	1	95-50-1	
1,4-Dichlorobenzene	0.040	0.2	0.019	ppbv	1	106-46-7	JB
trans-1,3-Dichloropropene	Not detected	0.2	0.013	ppbv	1	10061-02-6	
Ethanol*	17.5	2.5	0.068	ppbv	1	64-17-5	
Ethylbenzene	5.5	0.2	0.020	ppbv	1	100-41-4	
Ethyl Acetate*	0.770	2.0	0.049	ppbv	1	141-78-6	J

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S34513.09 (continued)

Sample Tag: 224212-SS-156

TO-15, Method: TO-15, Run Date: 04/26/22 16:20, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Ethyltoluene	0.2	0.2	0.032	ppbv	1	622-96-8	
Freon 113	0.070	0.2	0.024	ppbv	1	76-13-1	J
Freon 114	Not detected	0.2	0.029	ppbv	1	76-14-2	
Heptane	2.4	0.2	0.015	ppbv	1	142-82-5	
Hexachlorobutadiene	Not detected	0.2	0.029	ppbv	1	87-68-3	
Hexane	Not detected	12.5	0.019	ppbv	1	110-54-3	X
2-Hexanone*	0.7	0.5	0.021	ppbv	1	591-78-6	
Isopropyl Alcohol*	Not detected	2.0	0.076	ppbv	1	67-63-0	
Methylene chloride	0.28	0.5	0.14	ppbv	1	75-09-2	J
2-Butanone (MEK)	106.5	2.0	0.046	ppbv	1	78-93-3	E
4-Methyl-2-pentanone (MIBK)	0.390	0.5	0.017	ppbv	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	0.070	0.2	0.010	ppbv	1	1634-04-4	J
Methyl methacrylate	Not detected	0.2	0.017	ppbv	1	80-62-6	
Naphthalene	0.120	0.2	0.010	ppbv	1	91-20-3	JB
Propylene*	Not detected	10	0.038	ppbv	1	115-07-1	
Styrene	0.170	0.2	0.015	ppbv	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	0.2	0.017	ppbv	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	0.2	0.014	ppbv	1	79-34-5	
1,1,2-Trichloroethane	Not detected	0.2	0.015	ppbv	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	0.5	0.015	ppbv	1	120-82-1	
1,2,4-Trimethylbenzene	0.6	0.2	0.029	ppbv	1	95-63-6	
1,3,5-Trimethylbenzene	0.180	0.2	0.025	ppbv	1	108-67-8	J
2,2,4-Trimethylpentane	0.190	0.2	0.014	ppbv	1	540-84-1	J
Tert-butyl Alcohol	0.520	1.0	0.041	ppbv	1	75-65-0	J
Tetrachloroethene	1.1	0.2	0.024	ppbv	1	127-18-4	
Tetrahydrofuran*	72.6	0.2	0.029	ppbv	1	109-99-9	
Toluene	22.6	0.2	0.013	ppbv	1	108-88-3	
Trichloroethene	Not detected	0.2	0.023	ppbv	1	79-01-6	
Trichlorofluoromethane	0.2	0.2	0.017	ppbv	1	75-69-4	
Vinyl chloride	Not detected	0.2	0.029	ppbv	1	75-01-4	
Vinyl acetate	Not detected	2.0	0.015	ppbv	1	108-05-4	
p,m-Xylene	6.8	0.4	0.038	ppbv	1		
o-Xylene	1.7	0.2	0.020	ppbv	1	95-47-6	
Total Xylenes	8.4	0.6	0.058	ppbv	1	1330-20-7	

TO-15, Method: TO-15, Run Date: 04/26/22 16:20, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	101	4.8	0.14	ug/m3	1	67-64-1	
1,3-Butadiene	Not detected	4.4	0.064	ug/m3	1	106-99-0	
Benzene	1.6	0.64	0.061	ug/m3	1	71-43-2	
Bromodichloromethane	Not detected	1.3	0.15	ug/m3	1	75-27-4	
Bromoform	Not detected	2.1	0.24	ug/m3	1	75-25-2	
Bromomethane	Not detected	0.78	0.13	ug/m3	1	74-83-9	
Vinyl bromide	Not detected	0.87	0.15	ug/m3	1	593-60-2	
Benzyl chloride	Not detected	1.0	0.15	ug/m3	1	100-44-7	
Carbon disulfide	0.374	1.6	0.059	ug/m3	1	75-15-0	J--J

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

E-Concentration exceeds calibration range

B-Compound also found in associated method blank

Lab Sample ID: S34513.09 (continued)

Sample Tag: 224212-SS-156

TO-15, Method: TO-15, Run Date: 04/26/22 16:20, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	0.92	0.078	ug/m3	1	108-90-7	
Chloroethane	Not detected	5.3	0.12	ug/m3	1	75-00-3	
Chloroform	0.20	0.98	0.098	ug/m3	1	67-66-3	J
Chloromethane	Not detected	4.1	0.083	ug/m3	1	74-87-3	
3-Chloropropene	Not detected	6.3	0.075	ug/m3	1	107-05-1	
2-Chlorotoluene	Not detected	1.0	0.12	ug/m3	1	95-49-8	
Carbon tetrachloride	0.31	1.3	0.13	ug/m3	1	56-23-5	J
Cyclohexane	2.4	0.69	0.083	ug/m3	1	110-82-7	
1,1-Dichloroethane	Not detected	0.81	0.10	ug/m3	1	75-34-3	
1,1-Dichloroethene	Not detected	0.79	0.095	ug/m3	1	75-35-4	
1,2-Dibromoethane	Not detected	1.5	0.077	ug/m3	1	106-93-4	
1,2-Dichloroethane	Not detected	0.81	0.11	ug/m3	1	107-06-2	
1,2-Dichloropropane	Not detected	0.92	0.092	ug/m3	1	78-87-5	
1,4-Dioxane	Not detected	9.0	0.14	ug/m3	1	123-91-1	
Dichlorodifluoromethane	2.5	0.99	0.13	ug/m3	1	75-71-8	
Dibromochloromethane	Not detected	1.7	0.14	ug/m3	1	124-48-1	
trans-1,2-Dichloroethene	Not detected	0.79	0.083	ug/m3	1	156-60-5	
cis-1,2-Dichloroethene	Not detected	0.79	0.091	ug/m3	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	0.91	0.091	ug/m3	1	10061-01-5	
1,3-Dichlorobenzene	Not detected	1.2	0.12	ug/m3	1	541-73-1	
1,2-Dichlorobenzene	Not detected	1.2	0.14	ug/m3	1	95-50-1	
1,4-Dichlorobenzene	1.2 ~~0.24~~	1.2	0.11	ug/m3	1	106-46-7	JB--U
trans-1,3-Dichloropropene	Not detected	0.91	0.059	ug/m3	1	10061-02-6	
Ethanol*	33.0	4.7	0.13	ug/m3	1	64-17-5	
Ethylbenzene	24	0.87	0.087	ug/m3	1	100-41-4	
Ethyl Acetate*	2.77	7.2	0.18	ug/m3	1	141-78-6	J
4-Ethyltoluene	0.98	0.98	0.16	ug/m3	1	622-96-8	
Freon 113	0.54	1.5	0.18	ug/m3	1	76-13-1	J
Freon 114	Not detected	1.4	0.20	ug/m3	1	76-14-2	
Heptane	9.8	0.82	0.061	ug/m3	1	142-82-5	
Hexachlorobutadiene	Not detected	2.1	0.31	ug/m3	1	87-68-3	
Hexane	Not detected	44.1	0.067	ug/m3	1	110-54-3	X
2-Hexanone*	2.9	2.0	0.086	ug/m3	1	591-78-6	
Isopropyl Alcohol*	Not detected	4.9	0.19	ug/m3	1	67-63-0	
Methylene chloride	0.97	1.7	0.49	ug/m3	1	75-09-2	J
2-Butanone (MEK)	314.1	5.9	0.14	ug/m3	1	78-93-3	E--J
4-Methyl-2-pentanone (MIBK)	1.60	2.0	0.070	ug/m3	1	108-10-1	J
tert-Methyl butyl ether (MTBE)	0.25	0.72	0.036	ug/m3	1	1634-04-4	J
Methyl methacrylate	Not detected	0.82	0.070	ug/m3	1	80-62-6	
Naphthalene	1.0 ~~0.629~~	1.0	0.052	ug/m3	1	91-20-3	JB--U
Propylene*	Not detected	17	0.065	ug/m3	1	115-07-1	
Styrene	0.724	0.85	0.064	ug/m3	1	100-42-5	J
1,1,1-Trichloroethane	Not detected	1.1	0.093	ug/m3	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1.4	0.096	ug/m3	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1.1	0.082	ug/m3	1	79-00-5	
1,2,4-Trichlorobenzene	Not detected	3.7	0.11	ug/m3	1	120-82-1	

J-Estimated value less than reporting limit, but greater than MDL

B-Compound also found in associated method blank

X-Elevated reporting limit due to matrix interference

E-Concentration exceeds calibration range



Analytical Laboratory Report

Lab Sample ID: S34513.09 (continued)

Sample Tag: 224212-SS-156

TO-15, Method: TO-15, Run Date: 04/26/22 16:20, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2,4-Trimethylbenzene	2.9	0.98	0.14	ug/m3	1	95-63-6	
1,3,5-Trimethylbenzene	0.885	0.98	0.12	ug/m3	1	108-67-8	J
2,2,4-Trimethylpentane	0.888	0.93	0.065	ug/m3	1	540-84-1	J
Tert-butyl Alcohol	1.58	3.0	0.12	ug/m3	1	75-65-0	J
Tetrachloroethene	7.5	1.4	0.16	ug/m3	1	127-18-4	
Tetrahydrofuran*	214	0.59	0.086	ug/m3	1	109-99-9	
Toluene	85.2	0.75	0.049	ug/m3	1	108-88-3	
Trichloroethene	Not detected	1.1	0.12	ug/m3	1	79-01-6	
Trichlorofluoromethane	1.1	1.1	0.096	ug/m3	1	75-69-4	
Vinyl chloride	Not detected	0.51	0.074	ug/m3	1	75-01-4	
Vinyl acetate	Not detected	7.0	0.053	ug/m3	1	108-05-4	
p,m-Xylene	30	1.7	0.16	ug/m3	1		
o-Xylene	7.4	0.87	0.087	ug/m3	1	95-47-6	
Total Xylenes	36	2.6	0.25	ug/m3	1	1330-20-7	

TO-15 (Replicate 01), Method: TO-15, Run Date: 04/26/22 17:55, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	30	20	0.58	ppbv	10	67-64-1	Y
1,3-Butadiene	Not detected	20	0.29	ppbv	10	106-99-0	Y
Benzene	0.30	2	0.19	ppbv	10	71-43-2	JY
Bromodichloromethane	Not detected	2	0.23	ppbv	10	75-27-4	Y
Bromoform	Not detected	2	0.23	ppbv	10	75-25-2	Y
Bromomethane	Not detected	2	0.33	ppbv	10	74-83-9	Y
Vinyl bromide	Not detected	2	0.35	ppbv	10	593-60-2	Y
Benzyl chloride	Not detected	2	0.29	ppbv	10	100-44-7	Y
Carbon disulfide	Not detected	5	0.19	ppbv	10	75-15-0	Y
Chlorobenzene	Not detected	2	0.17	ppbv	10	108-90-7	Y
Chloroethane	Not detected	20	0.46	ppbv	10	75-00-3	Y
Chloroform	Not detected	2	0.20	ppbv	10	67-66-3	Y
Chloromethane	Not detected	20	0.40	ppbv	10	74-87-3	Y
3-Chloropropene	Not detected	20	0.24	ppbv	10	107-05-1	Y
2-Chlorotoluene	Not detected	2	0.24	ppbv	10	95-49-8	Y
Carbon tetrachloride	Not detected	2	0.20	ppbv	10	56-23-5	Y
Cyclohexane	0.40	2	0.24	ppbv	10	110-82-7	JY
1,1-Dichloroethane	Not detected	2	0.25	ppbv	10	75-34-3	Y
1,1-Dichloroethene	Not detected	2	0.24	ppbv	10	75-35-4	Y
1,2-Dibromoethane	Not detected	2	0.10	ppbv	10	106-93-4	Y
1,2-Dichloroethane	Not detected	2	0.28	ppbv	10	107-06-2	Y
1,2-Dichloropropane	Not detected	2	0.20	ppbv	10	78-87-5	Y
1,4-Dioxane	Not detected	25	0.38	ppbv	10	123-91-1	Y
Dichlorodifluoromethane	0.40	2	0.26	ppbv	10	75-71-8	JY
Dibromochloromethane	Not detected	2	0.17	ppbv	10	124-48-1	Y
trans-1,2-Dichloroethene	Not detected	2	0.21	ppbv	10	156-60-5	Y
cis-1,2-Dichloroethene	Not detected	2	0.23	ppbv	10	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	2	0.20	ppbv	10	10061-01-5	Y
1,3-Dichlorobenzene	Not detected	2	0.20	ppbv	10	541-73-1	Y
1,2-Dichlorobenzene	Not detected	2	0.24	ppbv	10	95-50-1	Y
1,4-Dichlorobenzene	Not detected	2	0.19	ppbv	10	106-46-7	Y

J-Estimated value less than reporting limit, but greater than MDL

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S34513.09 (continued)

Sample Tag: 224212-SS-156

TO-15 (Replicate 01), Method: TO-15, Run Date: 04/26/22 17:55, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
trans-1,3-Dichloropropene	Not detected	2	0.13	ppbv	10	10061-02-6	Y
Ethanol*	11.60	25	0.68	ppbv	10	64-17-5	JY
Ethylbenzene	4	2	0.20	ppbv	10	100-41-4	Y
Ethyl Acetate*	Not detected	20	0.49	ppbv	10	141-78-6	Y
4-Ethyltoluene	Not detected	2	0.32	ppbv	10	622-96-8	Y
Freon 113	Not detected	2	0.24	ppbv	10	76-13-1	Y
Freon 114	Not detected	2	0.29	ppbv	10	76-14-2	Y
Heptane	1.80	2	0.15	ppbv	10	142-82-5	JY
Hexachlorobutadiene	Not detected	2	0.29	ppbv	10	87-68-3	Y
Hexane	Not detected	10	0.19	ppbv	10	110-54-3	XY
2-Hexanone*	0.40	5	0.21	ppbv	10	591-78-6	JY
Isopropyl Alcohol*	Not detected	20	0.76	ppbv	10	67-63-0	Y
Methylene chloride	Not detected	5	1.4	ppbv	10	75-09-2	Y
2-Butanone (MEK)	80	20	0.46	ppbv	10	78-93-3	Y
4-Methyl-2-pentanone (MIBK)	Not detected	5	0.17	ppbv	10	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	2	0.10	ppbv	10	1634-04-4	Y
Methyl methacrylate	Not detected	2	0.17	ppbv	10	80-62-6	Y
Naphthalene	Not detected	2	0.10	ppbv	10	91-20-3	Y
Propylene*	Not detected	100	0.38	ppbv	10	115-07-1	Y
Styrene	Not detected	2	0.15	ppbv	10	100-42-5	Y
1,1,1-Trichloroethane	Not detected	2	0.17	ppbv	10	71-55-6	Y
1,1,2,2-Tetrachloroethane	Not detected	2	0.14	ppbv	10	79-34-5	Y
1,1,2-Trichloroethane	Not detected	2	0.15	ppbv	10	79-00-5	Y
1,2,4-Trichlorobenzene	Not detected	5	0.15	ppbv	10	120-82-1	Y
1,2,4-Trimethylbenzene	0.40	2	0.29	ppbv	10	95-63-6	JY
1,3,5-Trimethylbenzene	Not detected	2	0.25	ppbv	10	108-67-8	Y
2,2,4-Trimethylpentane	Not detected	2	0.14	ppbv	10	540-84-1	Y
Tert-butyl Alcohol	Not detected	10	0.41	ppbv	10	75-65-0	Y
Tetrachloroethene	0.80	2	0.24	ppbv	10	127-18-4	JY
Tetrahydrofuran*	53	2	0.29	ppbv	10	109-99-9	Y
Toluene	16	2	0.13	ppbv	10	108-88-3	Y
Trichloroethene	Not detected	2	0.23	ppbv	10	79-01-6	Y
Trichlorofluoromethane	Not detected	2	0.17	ppbv	10	75-69-4	Y
Vinyl chloride	Not detected	2	0.29	ppbv	10	75-01-4	Y
Vinyl acetate	Not detected	20	0.15	ppbv	10	108-05-4	Y
p,m-Xylene	5	4	0.38	ppbv	10		Y
o-Xylene	1.30	2	0.20	ppbv	10	95-47-6	JY
Total Xylenes	6	6	0.58	ppbv	10	1330-20-7	Y

TO-15 (Replicate 01), Method: TO-15, Run Date: 04/26/22 17:55, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	71	48	1.4	ug/m3	10	67-64-1	Y
1,3-Butadiene	Not detected	44	0.64	ug/m3	10	106-99-0	Y
Benzene	0.96	6.4	0.61	ug/m3	10	71-43-2	JY
Bromodichloromethane	Not detected	13	1.5	ug/m3	10	75-27-4	Y
Bromoform	Not detected	21	2.4	ug/m3	10	75-25-2	Y
Bromomethane	Not detected	7.8	1.3	ug/m3	10	74-83-9	Y

Y-Elevated reporting limit due to high target concentration

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S34513.09 (continued)

Sample Tag: 224212-SS-156

TO-15 (Replicate 01), Method: TO-15, Run Date: 04/26/22 17:55, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Vinyl bromide	Not detected	8.7	1.5	ug/m3	10	593-60-2	Y
Benzyl chloride	Not detected	10	1.5	ug/m3	10	100-44-7	Y
Carbon disulfide	Not detected	16	0.59	ug/m3	10	75-15-0	Y UJ
Chlorobenzene	Not detected	9.2	0.78	ug/m3	10	108-90-7	Y
Chloroethane	Not detected	53	1.2	ug/m3	10	75-00-3	Y
Chloroform	Not detected	9.8	0.98	ug/m3	10	67-66-3	Y
Chloromethane	Not detected	41	0.83	ug/m3	10	74-87-3	Y
3-Chloropropene	Not detected	63	0.75	ug/m3	10	107-05-1	Y
2-Chlorotoluene	Not detected	10	1.2	ug/m3	10	95-49-8	Y
Carbon tetrachloride	Not detected	13	1.3	ug/m3	10	56-23-5	Y
Cyclohexane	1.4	6.9	0.83	ug/m3	10	110-82-7	JY
1,1-Dichloroethane	Not detected	8.1	1.0	ug/m3	10	75-34-3	Y
1,1-Dichloroethene	Not detected	7.9	0.95	ug/m3	10	75-35-4	Y
1,2-Dibromoethane	Not detected	15	0.77	ug/m3	10	106-93-4	Y
1,2-Dichloroethane	Not detected	8.1	1.1	ug/m3	10	107-06-2	Y
1,2-Dichloropropane	Not detected	9.2	0.92	ug/m3	10	78-87-5	Y
1,4-Dioxane	Not detected	90	1.4	ug/m3	10	123-91-1	Y
Dichlorodifluoromethane	2.0	9.9	1.3	ug/m3	10	75-71-8	JY
Dibromochloromethane	Not detected	17	1.4	ug/m3	10	124-48-1	Y
trans-1,2-Dichloroethene	Not detected	7.9	0.83	ug/m3	10	156-60-5	Y
cis-1,2-Dichloroethene	Not detected	7.9	0.91	ug/m3	10	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	9.1	0.91	ug/m3	10	10061-01-5	Y
1,3-Dichlorobenzene	Not detected	12	1.2	ug/m3	10	541-73-1	Y
1,2-Dichlorobenzene	Not detected	12	1.4	ug/m3	10	95-50-1	Y
1,4-Dichlorobenzene	Not detected	12	1.1	ug/m3	10	106-46-7	Y
trans-1,3-Dichloropropene	Not detected	9.1	0.59	ug/m3	10	10061-02-6	Y
Ethanol*	21.86	47	1.3	ug/m3	10	64-17-5	JY
Ethylbenzene	17	8.7	0.87	ug/m3	10	100-41-4	Y
Ethyl Acetate*	Not detected	72	1.8	ug/m3	10	141-78-6	Y
4-Ethyltoluene	Not detected	9.8	1.6	ug/m3	10	622-96-8	Y
Freon 113	Not detected	15	1.8	ug/m3	10	76-13-1	Y
Freon 114	Not detected	14	2.0	ug/m3	10	76-14-2	Y
Heptane	7.38	8.2	0.61	ug/m3	10	142-82-5	JY
Hexachlorobutadiene	Not detected	21	3.1	ug/m3	10	87-68-3	Y
Hexane	Not detected	35	0.67	ug/m3	10	110-54-3	XY
2-Hexanone*	1.6	20	0.86	ug/m3	10	591-78-6	JY
Isopropyl Alcohol*	Not detected	49	1.9	ug/m3	10	67-63-0	Y
Methylene chloride	Not detected	17	4.9	ug/m3	10	75-09-2	Y
2-Butanone (MEK)	240	59	1.4	ug/m3	10	78-93-3	Y
4-Methyl-2-pentanone (MIBK)	Not detected	20	0.70	ug/m3	10	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	7.2	0.36	ug/m3	10	1634-04-4	Y
Methyl methacrylate	Not detected	8.2	0.70	ug/m3	10	80-62-6	Y
Naphthalene	Not detected	10	0.52	ug/m3	10	91-20-3	Y
Propylene*	Not detected	170	0.65	ug/m3	10	115-07-1	Y
Styrene	Not detected	8.5	0.64	ug/m3	10	100-42-5	Y
1,1,1-Trichloroethane	Not detected	11	0.93	ug/m3	10	71-55-6	Y
1,1,2,2-Tetrachloroethane	Not detected	14	0.96	ug/m3	10	79-34-5	Y

Y-Elevated reporting limit due to high target concentration

J-Estimated value less than reporting limit, but greater than MDL

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S34513.09 (continued)
Sample Tag: 224212-SS-156

TO-15 (Replicate 01), Method: TO-15, Run Date: 04/26/22 17:55, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,1,2-Trichloroethane	Not detected	11	0.82	ug/m3	10	79-00-5	Y
1,2,4-Trichlorobenzene	Not detected	37	1.1	ug/m3	10	120-82-1	Y
1,2,4-Trimethylbenzene	2.0	9.8	1.4	ug/m3	10	95-63-6	JY
1,3,5-Trimethylbenzene	Not detected	9.8	1.2	ug/m3	10	108-67-8	Y
2,2,4-Trimethylpentane	Not detected	9.3	0.65	ug/m3	10	540-84-1	Y
Tert-butyl Alcohol	Not detected	30	1.2	ug/m3	10	75-65-0	Y
Tetrachloroethene	5.4	14	1.6	ug/m3	10	127-18-4	JY
Tetrahydrofuran*	160	5.9	0.86	ug/m3	10	109-99-9	Y
Toluene	60	7.5	0.49	ug/m3	10	108-88-3	Y
Trichloroethene	Not detected	11	1.2	ug/m3	10	79-01-6	Y
Trichlorofluoromethane	Not detected	11	0.96	ug/m3	10	75-69-4	Y
Vinyl chloride	Not detected	5.1	0.74	ug/m3	10	75-01-4	Y
Vinyl acetate	Not detected	70	0.53	ug/m3	10	108-05-4	Y
p,m-Xylene	22	17	1.6	ug/m3	10		Y
o-Xylene	5.64	8.7	0.87	ug/m3	10	95-47-6	JY
Total Xylenes	26	26	2.5	ug/m3	10	1330-20-7	Y

Y-Elevated reporting limit due to high target concentration
J-Estimated value less than reporting limit, but greater than MDL

APPENDIX B

NYSDOH SOIL VAPOR/INDOOR AIR DECISION MATRICES

Soil Vapor/Indoor Air Matrix A

May 2017

Analytes Assigned:

Trichloroethene (TCE), *cis*-1,2-Dichloroethene (c12-DCE), 1,1-Dichloroethene (11-DCE), Carbon Tetrachloride

SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m ³)	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m ³)		
	< 0.2	0.2 to < 1	1 and above
< 6	1. No further action	2. No Further Action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
6 to < 60	4. No further action	5. MONITOR	6. MITIGATE
60 and above	7. MITIGATE	8. MITIGATE	9. MITIGATE

No further action: No additional actions are recommended to address human exposures.

Identify Source(s) and Resample or Mitigate: We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

Monitor: We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Mitigate: We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

These general recommendations are made with consideration being given to the additional notes on page 2.

ADDITIONAL NOTES FOR MATRIX A

This matrix summarizes actions recommended to address current and potential exposures related to soil vapor intrusion. To use the matrix appropriately as a tool in the decision-making process, the following should be noted:

- [1] The matrix is generic. As such, it may be appropriate to modify a recommended action to accommodate analyte-specific, building-specific conditions (e.g., dirt floor in basement, crawl spaces, thick slabs, current occupancy, etc.), and/or factors provided in Section 3.2 of the guidance (e.g., current land use, environmental conditions, etc.). For example, collection of additional samples may be recommended when the matrix indicates "no further action" for a particular building, but the results of adjacent buildings (especially sub-slab vapor results) indicate a need to take actions to address exposures related to soil vapor intrusion. Mitigation might be recommended when the results of multiple contaminants indicate monitoring is recommended. Proactive actions may be proposed at any time. For example, the party implementing the actions may decide to install sub-slab depressurization systems on buildings where the matrix indicates "no further action" or "monitoring." Such an action might be undertaken for reasons other than public health (e.g., seeking community acceptance, reducing costs, etc.). However, actions implemented *in lieu* of sampling will typically be expected to be captured in the final engineering report and site management plan, and might not rule out the need for post-implementation sampling (e.g., to document effectiveness or to support terminating the action).
- [2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude investigating possible sources of soil vapor contamination, nor does it preclude remediating contaminated soil vapor or the source of soil vapor contamination.
- [3] Appropriate care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples should be analyzed by methods that can achieve a minimum reporting limit of 0.20 microgram per cubic meter for indoor and outdoor air samples. For sub-slab vapor samples and dirt floor soil vapor samples, a minimum reporting limit of 1 microgram per cubic meter is recommended.
- [4] Sub-slab vapor and indoor air samples are typically collected when the likelihood of soil vapor intrusion is considered to be the greatest (i.e., worst-case conditions). If samples are collected at other times (typically, samples collected outside of the heating season), then resampling during worst-case conditions might be appropriate to verify that actions taken to address exposures related to soil vapor intrusion are protective of human health.
- [5] When current exposures are attributed to sources other than soil vapor intrusion, the agencies should be given documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.
- [6] The party responsible for implementing the recommended actions will differ depending upon several factors, including but not limited to the following: the identified source of the volatile chemicals, the environmental remediation program, and analyte-specific, site-specific and building-specific factors.

Soil Vapor/Indoor Air Matrix B

May 2017

Analytes Assigned:

Tetrachloroethene (PCE), 1,1,1-Trichloroethane (111-TCA), Methylene Chloride

SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m ³)	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m ³)		
	< 3	3 to < 10	10 and above
< 100	1. No further action	2. No Further Action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
100 to < 1,000	4. No further action	5. MONITOR	6. MITIGATE
1,000 and above	7. MITIGATE	8. MITIGATE	9. MITIGATE

No further action: No additional actions are recommended to address human exposures.

Identify Source(s) and Resample or Mitigate: We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

Monitor: We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Mitigate: We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

These general recommendations are made with consideration being given to the additional notes on page 2.

ADDITIONAL NOTES FOR MATRIX B

This matrix summarizes actions recommended to address current and potential exposures related to soil vapor intrusion. To use the matrix appropriately as a tool in the decision-making process, the following should be noted:

- [1] The matrix is generic. As such, it may be appropriate to modify a recommended action to accommodate analyte-specific, building-specific conditions (e.g., dirt floor in basement, crawl spaces, thick slabs, current occupancy, etc.), and/or factors provided in Section 3.2 of the guidance (e.g., current land use, environmental conditions, etc.). For example, collection of additional samples may be recommended when the matrix indicates "no further action" for a particular building, but the results of adjacent buildings (especially sub-slab vapor results) indicate a need to take actions to address exposures related to soil vapor intrusion. Mitigation might be recommended when the results of multiple contaminants indicate monitoring is recommended. Proactive actions may be proposed at any time. For example, the party implementing the actions may decide to install sub-slab depressurization systems on buildings where the matrix indicates "no further action" or "monitoring." Such an action might be undertaken for reasons other than public health (e.g., seeking community acceptance, reducing costs, etc.). However, actions implemented *in lieu* of sampling will typically be expected to be captured in the final engineering report and site management plan, and might not rule out the need for post-implementation sampling (e.g., to document effectiveness or to support terminating the action).
- [2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude investigating possible sources of soil vapor contamination, nor does it preclude remediating contaminated soil vapor or the source of soil vapor contamination.
- [3] Appropriate care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples should be analyzed by methods that can achieve a minimum reporting limit of 1 microgram per cubic meter for indoor and outdoor air samples. For sub-slab vapor samples and dirt floor soil vapor samples, a minimum reporting limit of 1 microgram per cubic meter is recommended.
- [4] Sub-slab vapor and indoor air samples are typically collected when the likelihood of soil vapor intrusion is considered to be the greatest (i.e., worst-case conditions). If samples are collected at other times (typically, samples collected outside of the heating season), then resampling during worst-case conditions might be appropriate to verify that actions taken to address exposures related to soil vapor intrusion are protective of human health.
- [5] When current exposures are attributed to sources other than soil vapor intrusion, the agencies should be given documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.
- [6] The party responsible for implementing the recommended actions will differ depending upon several factors, including but not limited to the following: the identified source of the volatile chemicals, the environmental remediation program, and analyte-specific, site-specific and building-specific factors.

Soil Vapor/Indoor Air Matrix C

May 2017

Analytes Assigned:

Vinyl Chloride

SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m ³)	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m ³)	
	< 0.2	0.2 and above
< 6	1. No further action	2. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
6 to < 60	3. MONITOR	4. MITIGATE
60 and above	5. MITIGATE	6. MITIGATE

No further action: No additional actions are recommended to address human exposures.

Identify Source(s) and Resample or Mitigate: We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

Monitor: We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Mitigate: We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

These general recommendations are made with consideration being given to the additional notes on page 2.

ADDITIONAL NOTES FOR MATRIX C

This matrix summarizes actions recommended to address current and potential exposures related to soil vapor intrusion. To use the matrix appropriately as a tool in the decision-making process, the following should be noted:

- [1] The matrix is generic. As such, it may be appropriate to modify a recommended action to accommodate analyte-specific, building-specific conditions (e.g., dirt floor in basement, crawl spaces, thick slabs, current occupancy, etc.), and/or factors provided in Section 3.2 of the guidance (e.g., current land use, environmental conditions, etc.). For example, collection of additional samples may be recommended when the matrix indicates "no further action" for a particular building, but the results of adjacent buildings (especially sub-slab vapor results) indicate a need to take actions to address exposures related to soil vapor intrusion. Mitigation might be recommended when the results of multiple contaminants indicate monitoring is recommended. Proactive actions may be proposed at any time. For example, the party implementing the actions may decide to install sub-slab depressurization systems on buildings where the matrix indicates "no further action" or "monitoring." Such an action might be undertaken for reasons other than public health (e.g., seeking community acceptance, reducing costs, etc.). However, actions implemented *in lieu* of sampling will typically be expected to be captured in the final engineering report and site management plan, and might not rule out the need for post-implementation sampling (e.g., to document effectiveness or to support terminating the action).
- [2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude investigating possible sources of soil vapor contamination, nor does it preclude remediating contaminated soil vapor or the source of soil vapor contamination.
- [3] Appropriate care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples should be analyzed by methods that can achieve a minimum reporting limit of 0.20 microgram per cubic meter for indoor and outdoor air samples. For sub-slab vapor samples and dirt floor soil vapor samples, a minimum reporting limit of 1 microgram per cubic meter is recommended.
- [4] Sub-slab vapor and indoor air samples are typically collected when the likelihood of soil vapor intrusion is considered to be the greatest (i.e., worst-case conditions). If samples are collected at other times (typically, samples collected outside of the heating season), then resampling during worst-case conditions might be appropriate to verify that actions taken to address exposures related to soil vapor intrusion are protective of human health.
- [5] When current exposures are attributed to sources other than soil vapor intrusion, the agencies should be given documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.
- [6] The party responsible for implementing the recommended actions will differ depending upon several factors, including but not limited to the following: the identified source of the volatile chemicals, the environmental remediation program, and analyte-specific, site-specific and building-specific factors.

APPENDIX C

NYSDOH AIR GUIDELINES

Soil Vapor Intrusion Updates

Throughout this web page, reference is made to the **final guidance**. This refers to the [Guidance for Evaluating Soil Vapor Intrusion in New York State, October 2006](#).

The updates provide herein will be incorporated, as applicable, into the guidance document itself upon its periodic revision. If you have suggestions you would like us to consider during the next revision process, please share them with us at BEEI@health.ny.gov.

May 2017: Updates to Soil Vapor / Indoor Air Decision Matrices

Update

Based on reviews of toxicity data, risk assessments, and soil vapor intrusion data collected in New York State over the past decade, NYSDOH has assigned eight volatile chemicals to [three newly revised and renamed Soil Vapor / Indoor Air Decision Matrices](#). These assignments and SVI Decision Matrices supersede those provided in the [final guidance](#) and in subsequent updates to the guidance (please note: the June 2007 update is no longer posted on this web page). The assignments are summarized in the following table:

Soil Vapor/Indoor Air Matrix	Volatile Chemical
Matrix A	carbon tetrachloride 1,1-dichloroethene <i>cis</i> -1,2-dichloroethene trichloroethene
Matrix B	methylene chloride tetrachloroethene 1,1,1-trichloroethane
Matrix C	vinyl chloride

These modifications to the SVI Decision Matrices should not be interpreted as reflecting changes in the recommended approach for how, when, and where to collect soil vapor or soil vapor intrusion samples during the investigation of a contaminated site.

An overview of the Decision Matrices and factors NYSDOH considers when developing and assigning chemicals to them is provided in [Section 3.4 of the 2006 guidance](#).

August 2015: New Ambient Air Guideline for Trichloroethene

Announcement

NYSDOH has lowered their guideline for trichloroethene in ambient air from 5 micrograms per cubic meter (mcg/m³) to 2 mcg/m³ and developed a recommended immediate action level of 20 mcg/m³. The air guideline identified in [Table 3.1 of the final guidance](#) is no longer applicable.

September 2013: New Ambient Air Guideline for Tetrachloroethene

Announcement

NYSDOH has lowered their guideline for tetrachloroethene in ambient air from 100 micrograms per cubic meter (mcg/m³) to 30 mcg/m³ and their recommended immediate action level from 1000 mcg/m³ to 300 mcg/m³. The air guideline identified in [Table 3.1 of the final guidance](#) is no longer applicable.

May 2010: Update on Building Questionnaires and Product Inventories

The Indoor Air Quality Questionnaire and Building Inventory Form in [Appendix B of the final guidance \(as revised March 2007\)](#) is provided to aid with the evaluation of indoor air sampling results by collecting pertinent building and household product information that may influence soil vapor intrusion and indoor air quality.

Update

Based on comments received from field personnel and homeowners, as well as a review of indoor air evaluations at remedial sites, the NYSDOH and New York State Department of Environmental Conservation (NYSDEC) have created an abbreviated [Indoor Air Quality Questionnaire and Building Inventory Form](#).

The [abbreviated form](#) is intended to decrease the amount of time spent gathering and reporting the supplemental building information while still collecting the most relevant information necessary for conducting a soil vapor intrusion investigation. It is intended to supplement, rather than replace, the original form. When completed properly, the [abbreviated form](#) will capture the information needed to perform the data evaluation process in most cases. However, in the event that a complete evaluation cannot be conducted or additional information is needed, the NYSDEC and NYSDOH may recommend a return to the structure to collect the additional information and complete the [original form \(as revised March 2007\)](#).

April 2010: Clarification on Data Validation

Reference is often made to "third-party data validation" of soil vapor, sub-slab vapor, indoor air and outdoor air results. While the purpose is the same, validation of these soil vapor intrusion data does not mean the same as formal "third-party data validation," which is typically associated with litigation activities. A NYSDEC Analytical Service Protocol Category B format data deliverable for the sample analyses is still reviewed by a qualified individual not directly associated with the project or the analytical laboratory and the output of the review is in the form of a Data Usability Summary Report (DUSR) rather than a validation report containing detailed evaluation of every piece of information generated by the analysis. More information about DUSRs and the qualifications necessary to prepare a DUSR is available in the NYSDEC's [DER-10: Technical Guidance for Site Investigation and Remediation](#) (May 3, 2010).

January 2010: Update to Section 2.7.2

[Section 2.7.2\(d\) of the final guidance](#) contains the following recommendation: during the construction of sub-slab implants and probes, porous, inert backfill material (e.g., glass beads, washed #1 crushed stone, etc.) should be added to cover about 1 inch of the probe tip for permanent installations.

Update

NOTE: Updates to this final guidance are available at
http://health.ny.gov/environmental/indoors/vapor_intrusion/update.htm

the scientific basis for the guidance value. The peer reviewers provided technical comments on the data and methods used to derive the guidelines, each of which were addressed by the NYSDOH. Upon completion of the reviews and responses to comments, the guidelines were finalized.

Air guideline values derived by the NYSDOH are summarized in Table 3.1. Additional information about these guidelines is provided in the following:

- Appendix D — overview of how the NYSDOH develops air guidelines; and
- Appendix H — copies of fact sheets that discuss the air guidelines for PCE and TCE.

The purpose of a guideline is to help guide decisions about the nature of efforts to reduce exposure to the chemical. Reasonable and practical actions should be taken to reduce exposures when indoor air levels are above background, even when they are below the guideline. The urgency to complete these actions increases with indoor air levels, particularly when air levels are above the guideline, and additional actions taken if the initial actions do not sufficiently reduce levels. In all cases, the specific corrective actions to be taken depend on a case-by-case evaluation of the situation. The goal of the recommended actions is to reduce chemical levels in indoor air to as close to background as practical.

Table 3.1 Air guideline values derived by the NYSDOH

Chemical		Air Guideline Value (mcg/m ³)	Reference
methylene chloride (also referred to as dichloromethane)	MeCl	60	1
polychlorinated biphenyls	PCBs	1*	2,3
tetrachlorodibenzo- <i>p</i> -dioxin equivalents	TCDD	0.00001*	3,4
tetrachloroethene	PCE	100	5
trichloroethene	TCE	5	6,7

*The guideline is specific to indoor air.

References:

- [1] NYSDOH. 1988. Letter from N. Kim to T. Allen, Division of Air, New York State Department of Environmental Conservation. November 28, 1988.
- [2] NYSDOH. 1985. Binghamton State Office Building (BSOB) Re-Entry Guidelines: PCBs. Document 1330P. Albany, NY: Bureau of Toxic Substance Assessment.
- [3] NYSDOH. 1988. Letter from D. Axelrod to J. Egan, New York State Office of General Services. March 8, 1988.
- [4] NYSDOH. 1984. Re-Entry Guidelines. Binghamton State Office Building. Document 0549P. Albany, NY: Bureau of Toxic Substance Assessment.
- [5] NYSDOH. 1997. Tetrachloroethene Ambient Air Criteria Document. Albany, NY: Bureau of Toxic Substance Assessment.
- [6] NYSDOH. 2003. Letter from N. Kim to D. Desnoyers, Division of Environmental Remediation, New York State Department of Environmental Conservation. October 31, 2003. [Provided in Appendix D.]
- [7] NYSDOH. 2006. Final Report: Trichloroethene (TCE) Air Criteria Document. Center for Environmental Health, Bureau of Toxic Substance Assessment. Troy, NY.