Semiannual Monitoring Report

U.S. Dredging Shipyard Site
Tax Block 612, Lot 130
Brooklyn, New York
NYSDEC –BCP Number C224043

Prepared for:

IKEA Property, Inc.
(*formerly* One Beard Street, LLC)
420 Alan Wood Road
Conshohocken, PA 19428

Time Period
1/22/22 through 6/21/22

Prepared by:

SOIL MECHANICS DRILLING CORP.
3770 Merrick Road
Seaford, New York 11783
Phone: 516.221.7500
Fax: 516.679.1900

Table of Contents

I Introduction. . . . . Page 1

II Sub-Slab Vapor Mitigation System (SSVMS) Monitoring . Page 2 - 3

a) System Start-Up and Testing
b). System Operation/Monitoring
(i) 1/21/22 (January 2022)
(ii) 2/22/22 (February 2022 visit)
(iii) 3/22/22 (March 2022 visit)
(iv) 5/5/22 (April 2022 visit)
(v) 5/25/22 (May 2022 visit)
(vi) 6/21/22 (June 2022 visit)

III Semiannual Soil Vapor Sampling . . . . Page 3-6
a) Methane Sampling
b) Volatile Organic Compound (VOC) Sampling

IV Residual Management Zone - Work Conducted . . Page 6
Beneath Site Caps

V Conclusion, Comments, and Recommendations . . Page 7 - 8

Appendix

Appendix A Figures

Appendix B Charts and Tables

Appendix C Complete Laboratory Reports and Associated Chains of Custody

Appendix D Monthly Sub-Slab Vapor Mitigation System (SSVMS) Inspection Forms

Appendix E Quality Assurance/Quality Control (QA/QC) Samples

Appendix F Photo Log

I Introduction

The subject property (Site), located at 1 Beard Street, Brooklyn, N.Y. (Red Hook section – see Figure #1) was formerly occupied by the United States Dredging Shipyard (USDC). The Site was subject to remedial actions under the New York State Brownfield Cleanup Program (BCP) administered by the New York State Department of Environmental Conservation (NYSDEC) under New York Environmental Conservation Law (ECL) Section 27-1401 et seq. (the "Brownfields Law"). The Site was remediated, to facilitate construction of new IKEA retail store, in accordance with the Brownfield Cleanup Agreement (BCA) between One Beard Street, LLC (the Volunteer), a wholly owned subsidiary of IKEA Property, Inc. (IKEA), and NYSDEC under Index #W2-1023-04-10, Site #C224043 (effective on January 11, 2005).

Upon completion of the remedial actions referenced above, a Site Management Plan (SMP, dated 5/08) was prepared to address long term site management issues. The SMP was prepared in accordance with the environmental easement executed by the Volunteer and recorded against the property with the Kings County Clerk pursuant to ECL Section 27-1419(2)(e) and in accordance with the Brownfields Regulations. The SMP was prepared on behalf of the Volunteer in accordance with the Brownfields Law, the Brownfields Regulations, guidelines contained in NYSDEC Draft DER-10 Technical Guidance for Site Investigation and Remediation, dated December 2002, and other guidelines provided by NYSDEC. As required by the Brownfields Law and Regulations, the SMP, among other things, addresses the implementation of Site-specific engineering controls (ECs), which were identified in the Remedial Work Plan (RWP).

ECs identified in the SMP that require routine monitoring include:

- The composite site cap;
- The sub-slab vapor mitigation system (SSVMS) and associated perimeter soil-vapor monitoring system, which consists of 16 soil-vapor monitoring wells or implants.

The SMP mandates that the composite site cap be subject to yearly monitoring/inspection, the results of which will be reported in the Annual Site Management Report. The SMP further mandates that the SSVMS and associated perimeter monitoring wells be subject to monthly/quarterly monitoring and inspection. Notably, per the directive of the NYSDEC (dated 2/27/15) the monitoring period was reduced to semiannually because methane concentrations have been documented to be generally consistent. The results of required monitoring and inspection efforts for the time period 1/22/22 through 6/21/22 are presented herein and will also be incorporated into the Annual Site Management Report. All monitoring and inspection activities were conducted in conformance with the SMP.

II Sub-slab Vapor Mitigation System (SSVMS) Monitoring

The sub-slab vapor mitigation system associated with the IKEA retail store consists of: (i) a sub-slab network of horizontal slotted screen PVC piping in a gravel layer under selected portions of the building, which consists of two (2) separate manifolds or zones; (ii) two (2) separate riser pipes (one per manifold) that extend from the piping network to the roof; (iii) two (2) blower units (one per riser) mounted on the roof of the IKEA Building; and (iv) a Liquid Boot brand vapor barrier membrane, which was sprayed into the gravel layer and is attached to the underside of the building's structural slab. When operational, the blowers create negative air pressure or suction in the horizontal well network. As organic vapors naturally rise to the gravel layer, the vapors are captured and discharged through short stacks on top of the blowers to the atmosphere.

Visual inspection of accessible portions of the SSVMS was performed in conformance with Section 4.2 of the SMP. During the time period 1/22/22 through 6/21/22 there was no need for an unscheduled inspection or sampling due to: (i) suspected failure of the SSVMS; or (ii) other emergency other than that which is presented in Table A below.

a) System Start-Up and Testing

Prior to activation of the system, qualified Soil Mechanics Drilling Corp. (SMDC) professionals reviewed the status of the equipment and inspected/tested same to ensure all equipment meets performance requirements and were fully operational. The system was formally put into fulltime operation on 6/3/08.

b). Monthly System Operation/Monitoring

(i)	**1/21/22**	**(January 2022)**
(ii)	**2/22/22**	**(February 2022 visit)**
(iii)	**3/22/22**	**(March 2022 visit)**
(iv)	**5/5/22**	**(April 2022 visit)**
(v)	**5/25/22**	**(May 2022 visit)**
(vi)	**6/21/22**	**(June 2022 visit)**

Regular monthly inspections were conducted by qualified SMDC professionals on 1/21/22, 2/22/22, 3/22/22, 5/5/22, 5/25/22, and 6/21/22. The inspections were conducted to: (i) ensure the SSVMS is operating properly; (ii) to document any unusual conditions; and (iii) make any necessary repairs/adjustments. During the time period 1/22/22 through 6/21/22, the SSVMS operated as designed; there were no system malfunctions or low vacuum pressure alarms with the exception of that which is cited below in Table A below. Repairs and/or adjustments were made as necessary to ensure proper operation of the SSVMS and protection of building occupants (see Monthly SSVMS Inspection Forms attached for complete summaries).

Table A

Date	Comments
2/20/22	Responded to site and confirmed that Blower #1 had shut down due to an unexplained power interruption. The blower was restarted and is currently operating as designed.

Visual inspection of vapor sampling ports revealed no evidence of any damage (e.g., broken valve, cracked piping). Vapor discharge sampling, utilizing a GEM 2000 Landfill Gas Analyzer, indicated non-detectable concentrations of methane during monitoring efforts conducted 1/21/22, 2/22/22, 3/22/22, 5/5/22, 5/25/22, and 6/21/22 at both blower locations (see Monthly SSVMS Inspection Forms attached for complete summary).

III Semiannually Soil Vapor Sampling – 1/22/22 through 6/21/22

A series of 16 permanent soil-vapor monitoring wells, identified as SVW-1 through SVW-16, have been installed along the perimeter of the Site in conformance with the SMP (see Figure #2). Inspection of all well locations on 6/21/22 revealed all monitoring wells to be in good condition. Monitoring well SVW-7 was identified to have been accidentally destroyed during the prior reporting period (7/15/21 through 1/21/22) and, as such, could not be monitored or sampled. SVW-7 was re-installed in conformance with the SMP on 6/8/22. Accordingly, qualified SMDC professionals provided real-time monitoring of all well locations for methane and acquired samples for laboratory testing for volatile organic compounds (EPA method TO-15, including helium utilized as a tracer gas).

a) Methane Sampling

The wells were sampled, on 6/21/22, for the presence of methane, organic vapor, oxygen, and carbon dioxide utilizing a GEM 2000 Landfill Gas Analyzer and MiniRae 3000 organic vapor analyzer. Samples were collected via connection of the sampling equipment directly to dedicated valves at each well location. The sampling equipment was purged with ambient air between sample locations. Table #1 (Soil Vapor Sampling Form - see attached) provides a complete summary of all recorded measurements, including temperature, wind speed/direction, and barometric pressure. Chart #1 provides a graphic representation of methane monitoring results since commencement of data collection efforts. The results of monitoring activities for organic vapor and methane indicated:

- Non-detectible concentrations of methane at all monitoring well locations with the exception of SVW-13 (73.2%) and SVW-16 (0.6%). The detected concentration of methane at monitoring well SVW-13 exceeded the lower explosive limit (LEL) for methane of 5% gas by volume (see Table #1). Concerned parties, including National Grid, were advised of the identified condition so that appropriate actions could be taken.

Notably, methane gas has been recorded at concentrations exceeding its lower explosive limit or LEL at this monitoring well location during prior reporting periods (see Chart #1).

- Non-detectible concentrations of organic vapor at all monitoring well locations with the exception of SVW-1 (0.1 parts/million) and SVW-3 (0.1 parts/million – see Table #1).

b) Volatile Organic Compound (VOC) Sampling

Organic vapor samples were collected directly from the sample port(s) all accessible well locations, utilizing 1-liter Summa canisters equipped with flow regulators to allow sample collection over a two-hour period (see Site Plan). The vapor samples were collected from all wells on the property on 6/21/22, utilizing the procedure detailed below.

Samples were collected as follows:

- Prior to sample collection, one to three probe volumes were purged.
- Flow rates for both purging and sample collection did not exceed 0.2 liters per minute.
- New, clean 1/8-inch inside diameter polyethylene tubing was attached to the sampling port and the sample port valve opened.
- The inlet on a labeled Tedlar bag was opened and attached to the discharge end of the tubing. The bag was allowed to fill approximately two-thirds full and the inlet valve closed. The bag was subsequently detached and the valve on the sampling port closed.
- The Tedlar bag was field screened for VOCs by attaching the sample port to the PID probe using a new section of polyethylene tubing. The PID pump was allowed to draw the soil gas sample into the meter. Once the readings stabilized measurements were recorded.
- The tubing on the stack sample port was connected to the inlet of a certified clean, labeled Summa canister equipped with a flow regulator and vacuum gauge. The vacuum reading from the vacuum gauge on the canister at the beginning of the sampling period was recorded. The valve of the canister was opened and then the valve on the system sample port to initiate sample collection. The initial vacuum reading and sampling start time was recorded.
- At the end of the sampling period and prior to the vacuum gauge returning to ambient pressure, the valve was closed and the flow-rate controller and vacuum gauge removed, canister cap was installed, and the time recorded.
- The canister was placed into the shipping container for transportation to the testing laboratory.
- Sample locations, measurements, weather conditions are recorded (see Table #1).

The results of VOC sampling are presented in Table #2 for all acquired samples. Standards, criteria, and/or guidance values for selected compounds presented in Table #2, i.e., carbon tetrachloride (CCl_4), tetrachloroethene (C_2Cl_4), 1, 1, 1-trichloroethane ($C_2H_3Cl_3$), trichloroethene (C_2HCl_3), 1, 1-dichloroethene ($C_2H_3Cl_2$), *cis-1,2*-dichloroethene ($C_2H_3Cl_2$), and vinyl chloride (C_2H_3Cl) are contained in decision making matrices provided by New York State Department of Health - Guidance for Evaluating Soil Vapor Intrusion in the State of New York (10/06). Notably, however, the noted matrices could not be utilized for comparative purposes since soil vapor samples acquired at the Site were not collected from wells located in the footprint of the IKEA building or from a sub-slab environment. As per the SMP (5/08), up and down wind ambient air samples were collected for laboratory analysis (EPA Method TO-15). The results of these samples are also presented in Table #2. As a quality assurance/quality control (QA/QC) measure, helium tracer was utilized to verify that soil vapor samples were not diluted by outdoor air infiltration during sampling efforts. Helium was used because: (i) it is readily available; (ii) has a low toxicity; (iii) can be monitored with portable measurement devices; and (iv) it can be included in the targeted suite of analytical parameters requested by the testing laboratory.

Helium was utilized to enrich the atmosphere in the immediate vicinity of the area where the probe intersects the ground during all sampling efforts. Appropriate measures were implemented to keep the tracer gas in contact with the probe during the testing as shown in pp. 28 of NYSDEC Guidance for Evaluating Soil Vapor Intrusion in New York State (10/06). The effectiveness of the probe seals at well locations were documented as follow:

- Prior to and after completion of sampling efforts, vapor samples were monitored for elevated concentrations of tracer gas (> 10% of helium) utilizing MGD 2002 Portable Helium Monitor equipped with a Tedlar bag. Tracer gas was not detected by the field monitoring instrument at any of the probe locations during this round of sampling activities. Accordingly, probe seals did not require enhancement to reduce/eliminate the infiltration of outdoor air.
- Helium was not detected in soil vapor samples subject to laboratory testing.

Appropriate QA/QC procedures were followed during all aspects of sample collection and analysis to ensure that sampling error is minimized and high-quality data are obtained. Sampling team members avoided actions (e.g., fueling vehicles, using permanent marking pens, wearing freshly dry-cleaned clothing or personal fragrances, etc.). Portable air monitoring equipment or field instrumentation was properly maintained, calibrated and tested to ensure validity of measurements. Air sampling equipment was stored, transported and between samples decontaminated in a manner consistent with the best environmental consulting practices to minimize problems such as field contamination and cross-contamination. Samples were collected using certified clean sample devices supplied by the testing laboratory. Gas used by the laboratory to clean the sample device was different from the gas used as a tracer during sampling (e.g., helium). Samples met holding times and temperatures and were delivered to the analytical laboratory (CENTEK Laboratories or Syracuse, N.Y. – NYS ELAP certified) as

soon as possible after collection. Further, laboratory accession procedures were followed, including field documentation (sample collection information and locations), chain of custody, field/trip blanks, field sample duplicates and laboratory duplicates, as appropriate to prepare a Category "B" deliverables package (see attached). Qualified Soil Mechanics personnel completed all sampling activities, in general compliance with appropriate sampling and decontamination protocols recognized by the NYSDEC/NYSDOH.

IV Residual Management Zone – Work Conducted Beneath Site Cap

Since the potential for residual contamination and methane exist beneath the Site Cap, certain engineering and institutional controls were employed at the subject property to ensure the long-term effectiveness of the remedy to protect human health and the environment. Accordingly, based on the aforementioned, all activities on the Site that in any way disturbed residual contamination must be conducted in accordance with SMP.

During the time period of this report (1/22/22 through 6/21/22), no scheduled activities were conducted at the subject property that breached established site caps or that in any way disturbed Residual Management Zone (RMZ). Notably, however, IKEA property management contacted our office on Monday 6/27/22 to advise us that commencing on Saturday 6/25/22 field crews from National Grid had mistakenly installed, i.e., on the IKEA property, an underground gas supply line for a newly constructed Amazon building located to the east. SMDC field technical personnel responding to the IKEA Site confirmed that approximately 170 LF of new gas supply line piping, requiring breaching of the hard-cap and excavation into the Residual Management Zone RMZ (see Figure #3 and Photo Log), had accidentally been installed on the IKEA property. At the time of our arrival to the Site, a temporary cap of asphalt had already been installed over the gas line trenches, eliminating potential exposure pathways. The aforementioned work was conducted by National Grid without any prior notice to IKEA property management, our oversight, or implementation of monitoring efforts, etc. required by the SMP. Excavated soils were reportedly not utilized to backfill trenches and same disposed of off-site. Further, imported fill was reportedly utilized to backfill excavations. Finally, an addition 70 LF of hard-cap was saw cut in preparation of excavation efforts, i.e., to install additional gas supply line piping.

Upon discovery of their mistake, Nation Grid immediately ceased all ground intrusive work and agreed to: (i) abandon all newly installed piping on the IKEA property and re-install replacement piping directly on Beard St.; and (ii) replace the disturbed hard-cap in-kind. Representatives of National Grid were contacted to provide the following documentation, which, to date, has not been received by our office, and, as such, will be incorporated into the Site's Periodic Review Report (to be issued 8/22): (i) disposal manifests or Bill of Lading for all soil removed from the subject property along with landfill acceptance letter and results the of any waste characterization analysis; and (ii) Bill of Lading for soil imported to the subject property along with results of laboratory analysis documenting the environmental quality of same.

V Conclusion, Comments and Recommendations

The SSVMS was observed to be operating, as designed and in compliance with the SMP, during the time period of this report. The system operated continuously and did not require any shut downs or repairs.

Visual inspection of accessible portions of the SSVMS was performed in conformance with Section 4.2 of the SMP. During the time period of this report, there was no need for an unscheduled inspection or sampling due to: (i) suspected failure of the SSVMS; or (ii) other emergency. The only exception to the aforementioned was an unexplained power interruption to Blower #1 on 2/20/22. Field technical personnel responded to site and restarted the blower, which has been operating as designed since that time.

Based on the results of real time monitoring and laboratory testing of acquired samples, presented in Tables #1 and 2, no modifications or adjustments to the system are, in our opinion, required. SVW-7, identified to have been accidentally destroyed during the prior monitoring period (see semiannual report for time period 7/15/21 through 1/21/22), was replaced in conformance with the Site's SMP. Accordingly, we recommend that monthly/semiannual monitoring activities continue as established with the SMP.

An elevated concentration of methane gas was detected at monitoring well location SVW-13 during this reporting period. Notably, methane gas has been recorded at concentrations exceeding its lower explosive limit or LEL at this monitoring well location during prior reporting periods (see Chart #1). Notably, monitoring well SVW-13 was by design positioned along Beard St. to coincide with the location wherein utilities enter/exit the subject property, in this case, National Grid's natural gas supply line/valve, which is likely the source of the identified condition. Representatives of National Grid are routinely advised monitoring results so that appropriate actions may be taken. Implementation of mitigative measures has, however, to date, not been considered by National Grid. In any case, indoor air quality within the IKEA building is already protected with the subject property's SVMS. We, therefore, recommend that monitoring efforts continue as established with the SMP.

An oil-like substance was identified to be leaking from one of the four mothballed Gantry Cranes on the subject property during December of 2016 (see freestanding report, dated 6/20/17, and routine monitoring report for time period 12/20/16 to 6/27/17). As a result of mitigative measures established to be protective of human health and the environment, no evidence of any discharge(s) was observed in association with any of the mothballed Gantry Cranes during this reporting period. We, therefore, recommend that the Gantry Cranes continue to be subject to regular monitoring efforts for evidence of any discharges that would represent threat to human health or the environment.

National Grid mistakenly installed, i.e., on the IKEA property, an underground gas supply line for a newly constructed Amazon E-commerce building located to the east. The aforementioned work was conducted without any prior notice to IKEA property management, our oversight, or implementation of monitoring efforts, etc. required by the SMP. Field technical personnel from our office responded to the subject property upon discovery of the mistake by IKEA project management. At the time of our arrival to the Site, a temporary cap of asphalt had already been installed over the gas line trenches, eliminating potential exposure pathways. Excavated soils were reportedly not utilized to backfill the trenches and same disposed of off-site. Further, imported fill was reportedly utilized to backfill excavations.

Upon discovery of their mistake, Nation Grid immediately ceased all ground intrusive work and agreed to: (i) abandon all newly installed piping on the IKEA property and re-install new piping directly on Beard St.; and (ii) replace the disturbed hard-cap in-kind. Representatives of National Grid were contacted to provide the following documentation, which, to date, has not been received by our office, and, as such, will be incorporated into the Site's Periodic Review Report (to be issued 8/22): (i) disposal manifests or Bill of Lading for all soil removed from the subject property along with landfill acceptance letter and results the of any waste characterization analysis; and (ii) Bill of Lading for soil imported to the subject property along with results of laboratory analysis documenting the environmental quality of same.

Appendix

A) Figures

B) Charts and Tables

C) Complete Laboratory Reports and Associated Chains of Custody

D) Monthly SSVMS Inspection Forms

E) QA/QC Samples

F) Photo Log

Figures

U.S. Dredging Shipyard Site
Tax Block 612, Lot 130
Brooklyn, New York
NYSDEC - BCP Number C224043



Approximate Footprint of Upland Portion of Subject Property

SOIL MECHANICS ENVIRONMENTAL SERVICES
3770 Merrick Road, Seaford, NY 11783
P: 516.221.7500 Email: Soilmech@optonline.net

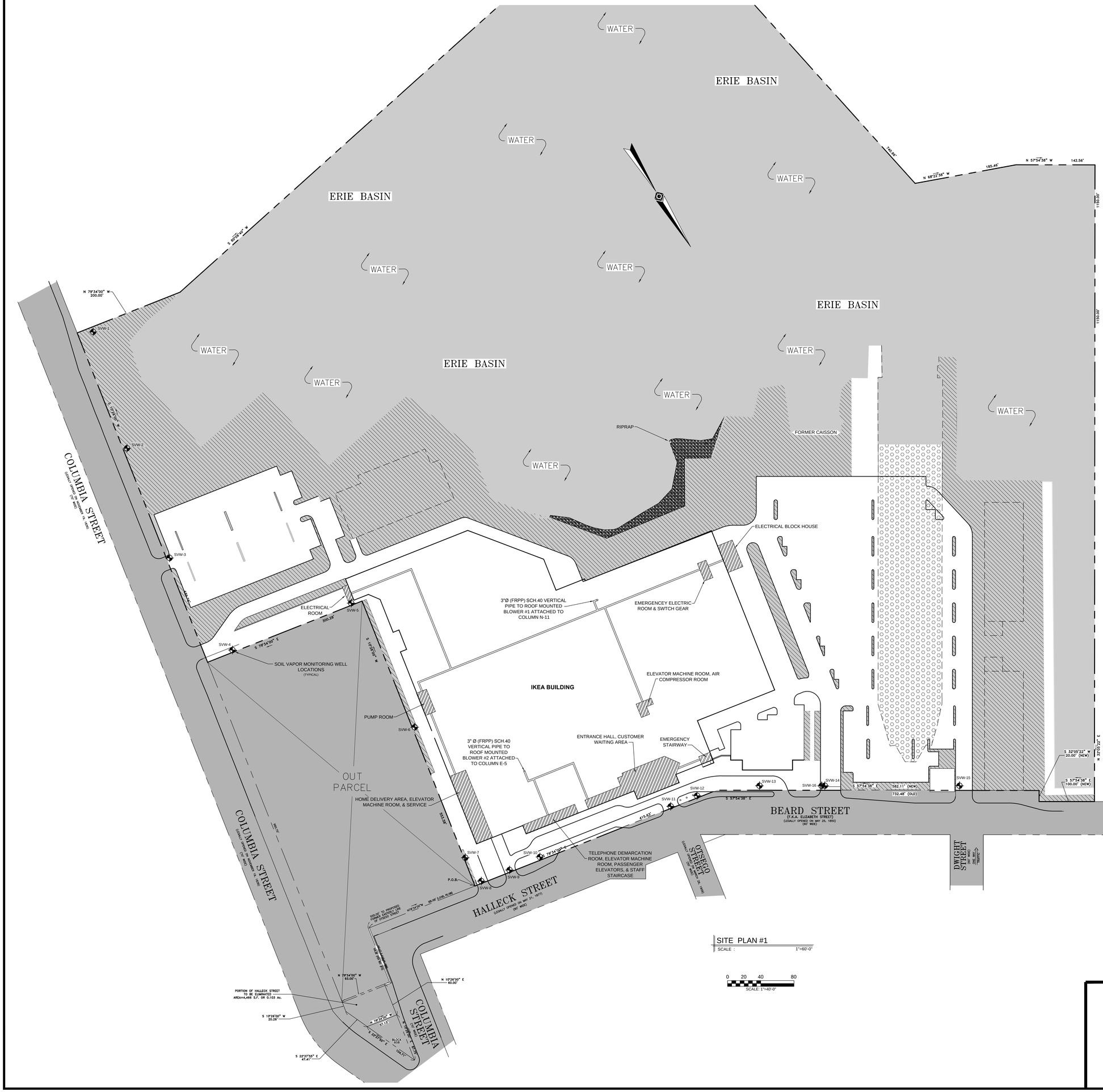
Figure #1
Project Location Plan
Brooklyn, NY

DATE: 6/17

SCALE: N.T.S.

JOB NO.: 08-387

N



LEGEND

- PERIMETER SOIL-VAPOR MONITORING WELL(S)
- OFF-SITE ROADS, OUT PARCELS, ETC...
- WATER (ERIE BASIN)
- 6 MIL PLASTIC DEMARCATION BARRIER COVERED BY AT LEAST FOUR FEET OF CLEAN FILL
- BACKFILLED PORTION OF FORMER DRYDOCK #1 (NOT ENVIRONMENTAL CONTROL AREA)
- SUB-SLAB METHANE/ VOC VENTING SYSTEM PLUMBING, GRAVEL LAYER, ETC. ASSOCIATED WITH METHANE MITIGATION SYSTEM
- SITE CAP - NO LESS THAN ONE FOOT OF CLEAN FILL AND CONCRETE, ASPHALT OR BUILDING STRUCTURES
- FOOTPRINT OF FUTURE BUILDINGS.
- 3" DIAMETER PVC PIPE BELOW ASPHALT PAVEMENT TO METHANE MITIGATION SYSTEM BLOWER UNIT

***NOTE:**
WELLS SVW-3, 8, 9, 10, 11, 12, 13, 14, 15, & 16, ARE POSITIONED IN UTILITY TRENCHES ASSOCIATED WITH GAS, ELECTRIC, WASTE, & WATER LINES

SITE PLAN #1
SCALE : 1"=60'-0"

0 20 40 80
SCALE: 1"=40'-0"

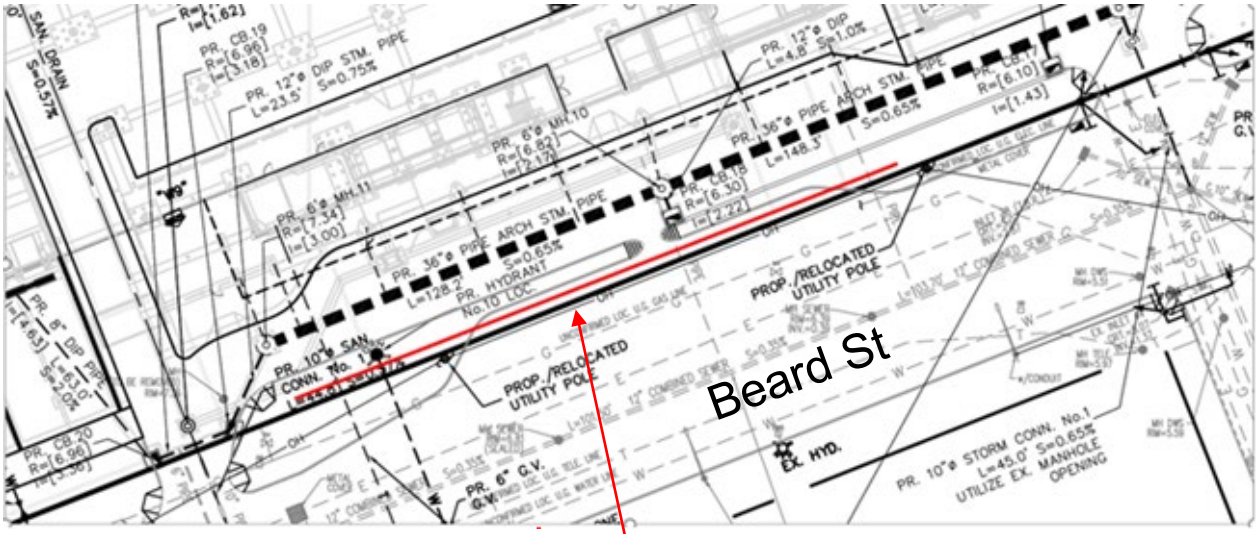
SOIL MECHANICS ENVIRONMENTAL SERVICES
subsoil investigations
3770 MERRICK ROAD * SEAFORD, NEW YORK 11783 * 516 - 221-7500

FIGURE #2 - ENGINEERING CONTROL LOCATION PLAN

IKEA BROOKLYN

BROOKLYN, NEW YORK

DRAWING DATE	DRAWING NUMBER
AUGUST 11, 2020	02L404
REVISED: JMR	SHEET 1 OF 1.



Approximate location of trenching

N

SOIL MECHANICS DRILLING CORP.
3770 MERRICK ROAD • SEAFORD, L. I., NEW YORK 11783
(516) 221-2333 • FAX (516) 221-0254

Figure #3
Brooklyn, NY

DATE: 6/22

SCALE: N.T.S.

JOB NO.: 08-387


77.5'
CONC. STEPS
17.6'
AIR
27.4'
GDN.
WOOD DECK
WOOD RAMP
PLANTER
WOOD STEPS
ENCLOSED PORCH
CONCRETE PORCH
METAL FIRE ESCAPE
ASPHALT
ASPHALT
TREE
GRASS
CONC. CURB
3 PARKING SPACES
CONC. CURB
35' WEAR
GRASS

Charts and Tables

U.S. Dredging Shipyard Site
Tax Block 612, Lot 130
Brooklyn, New York
NYSDEC - BCP Number C224043

Table #1 – Soil Vapor Sampling Form
IKEA (BCP Site No. C224043)
1 Beard Street, Brooklyn, N.Y.
Quarterly Methane Monitoring Results

Location/ID #	Leak Test (% He) ^	PID Readings**	CH_4*	CO_2*	O_2*	Lab Sample ID TO-15 Analysis
SVW-1	ND	0.1	0.0	5.9	12.5	C2206048-001A
SVW-2	ND	0.0	0.0	4.7	15.6	C2206048-003A
SVW-3	ND	0.1	0.0	6.0	1.4	C2206048-004A
SVW-4	ND	0.0	0.0	7.2	0.5	C2206048-005A
SVW-5	ND	0.0	0.0	0.2	19.6	C2206048-006A
SVW-6	ND	0.0	0.0	0.0	20.0	C2206048-007A
SVW-7	ND	0.0	0.0	0.0	20.1	C2206048-008A
SVW-8	ND	0.0	0.0	0.0	20.0	C2206048-009A
SVW-9	ND	0.0	0.0	0.0	20.1	C2206048-001A
SVW-10	ND	0.0	0.0	0.0	20.1	C2206048-010A
SVW-11	ND	0.0	0.0	0.0	20.1	C2206048-011A
SVW-12	ND	0.0	0.0	0.1	20.4	C2206048-012A
SVW-13	ND	0.0	**73.2**	0.0	7.6	C2206048-013A
SVW-14	ND	0.0	0.0	0.1	20.2	C2206048-014A
SVW-15	ND	0.0	0.0	0.1	20.2	C2206048-015A
SVW-16	ND	0.0	0.6	0.1	20.2	C2206048-016A

Date of work:
- 6/21/22

Weather:
- Partly cloudy, 74^0 F.; barometric pressure 30.13" Hg; winds from SSE at ±8 MPH

Monitoring equipment utilized:
- (*) GEM 2000 Land fill Gas Analyzer; results reported in percent gas by volume
- (**) MiniRae 3000 Organic Vapor Analyzer; results reported in parts/million

Field Technicians:
- Dan Marzano, Dave Shencavitz and Steve Anderson

ND non-detect
PID photo ionization detector
^ Results of laboratory testing for the presence of helium (He) tracer gas

Table #2
IKEA (BCP Site No. C224043)
1 Beard Street, Brooklyn, N.Y.
Quarterly VOC Analysis
EPA Method TO-15

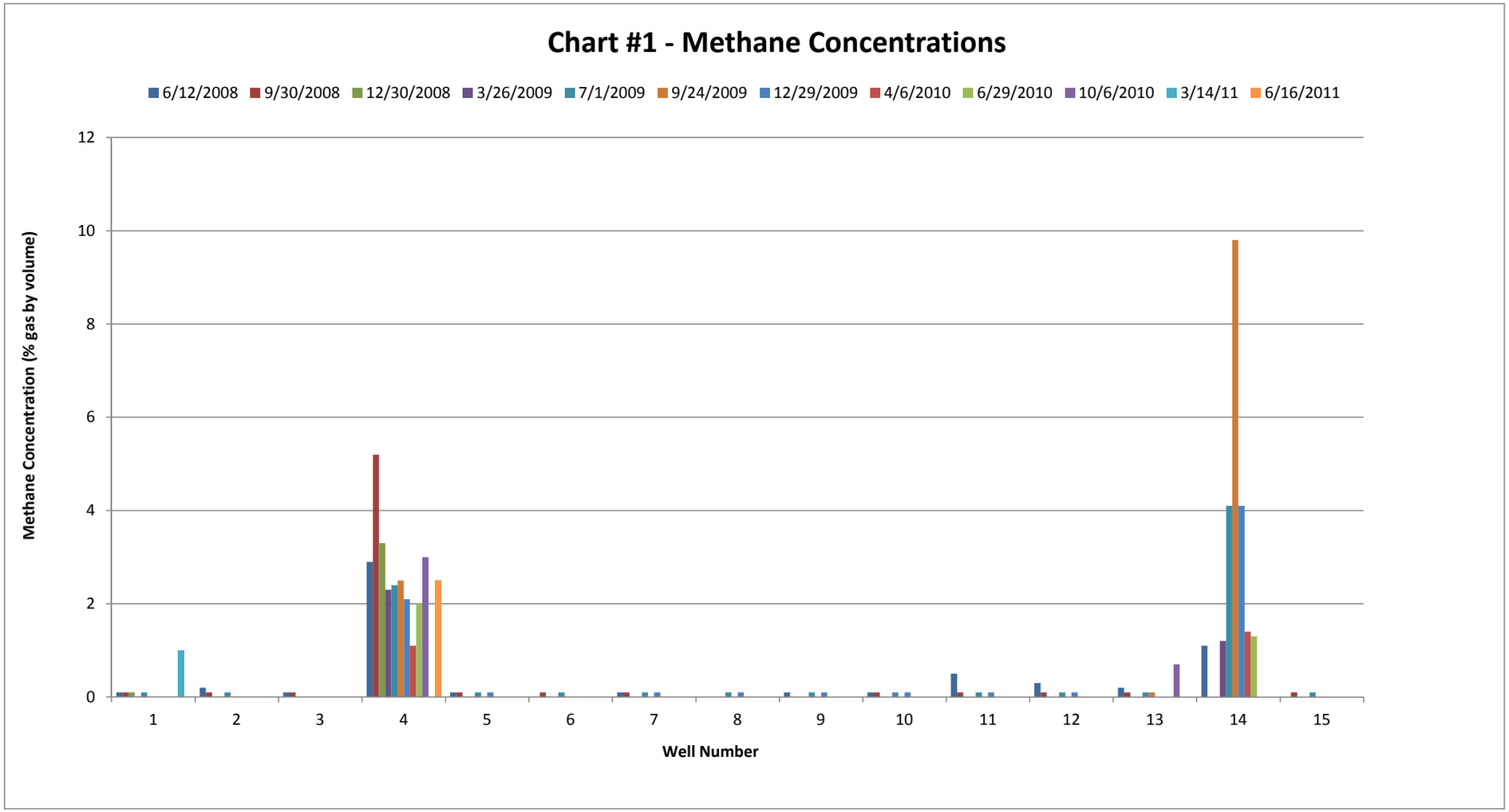
EPA Method TO-15	SVW-1	SVW-2	SVW-3	SVW-4	SVW-5	SVW-6	SVW-7	SVW-8
1,1,1-Trichloroethane	0	0	0.93	0	0	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0	0	0	0	0	0
1,1,2-Trichloroethane	0	0	1.0	0	0	0	0	0
1,1-Dichloroethane	0	0	0	0	0	0	0	0
1,1-Dichloroethene	0	0	0	0	0	0	0	0
1,2,4-Trichlorobenzene	0	0	0	0	0	0	0	0
1,2,4-Trimethylbenzene	0	0	0.84	0.59	0	11.0	3.3	1.4
1,2-Dibromoethane	0	0	0	0	0	0	0	0
1,2-Dichlorobenzene	0	0	0	0	0	0	0	0
1,2-Dichloroethane	0	0	2.9	0	0	0	0.81	0
1,2-Dichloropropane	0	0	6.4	0	0	0	0	0
1,3,5-Trimethylbenzene	0	0	0	0	0	3.8	1.3	0
1,3-butadiene	0	0	0	0	0	0	0	0
1,3-Dichlorobenzene	0	0	2.6	0	0.96	0	0	2.1
1,4-Dichlorobenzene	0	0	0	2.5	0	0	0	0.72
1,4-Dioxane	0	0	0	0	0	0	0	0
2,2,4-trimethylpentane	0	0	0.70	1.1	0	1.7	2.3	0.79
4-ethyltoluene	0	0	0	0	0	3.9	0.93	0
Acetone	8.4	45.0	98.0	82.0	47.0	41	39.0	66.0
Allyl chloride	0	0	0	0	0	0	0	0
Benzene	0.27	1.1	0.57	1.1	0.54	2.7	2.7	1.9
Benzyl chloride	0	0	0	0	0	0	0	0
Bromodichloromethane	0	0	0	0	0	0	0	0
Bromofluorobenzene	0	0	0	0	0	0	0	0
Bromoform	0	0	0	0	0	0	0	0
Bromomethane	0	0	0	0	0	0	0	0
Carbon disulfide	0.65	0.31	31.0	34.0	3.4	1.0	3.4	44.0
Carbon tetrachloride	2.5	2.2	0	0	0	0.69	1.0	0
Chlorobenzene	0	0	0	2.5	0	0	0	0
Chloroethane	0	0	0.71	0	0	0	0	0
Chloroform	1.9	3.9	5.7	0	0	0	1.1	0.68
Chloromethane	0.24	0.91	1.1	0	0	1.3	1.0	1.3
cis-1,2-Dichloroethene	0	0	0	0	0	0	0	0
cis-1,3-Dichloropropene	0	0	0	0	0	0	0	0
Cyclohexane	0	0	0.96	0.89	0	1.1	2.6	0
Dibromochloromethane	0	0	0	0	0	0	0	0
Ethyl acetate	1.1	1.2	1.3	0	1.3	4.0	0	2.0
Ethylbenzene	0	0	0	0	0	7.9	3.5	0.43
Freon 11	4.7	3.5	9.7	1.8	3.5	1.5	2.5	1.6
Freon 113	0	0	0	0	0	0	0	0
Freon 114	0	0	0	0	0	0	0	0
Freon 12	2.2	2.5	3.0	3.3	2.7	2.5	1.7	2.3
Helium	0	0	0	0	0	0	0	0
Heptane	0	0.70	0.57	1.1	0	5.6	3.5	0.86
Hexachloro-1,3-butadiene	0	0	0	0	0	0	0	0
Hexane	0.47	0.74	0	5.4	0	1.6	3.7	3.7
Isopropyl alcohol	0	0	0	0	0	75	0	0
m&p-Xylene	0.58	0.82	0.91	1.3	0.91	17	12.0	1.4
Methyl Butyl Ketone	0	0	0	0	0	0	0	0
Methyl Ethyl Ketone	0.66	0.91	4.5	2.7	2.1	4.9	4.1	4.0
Methyl Isobutyl Ketone	1.2	0	1.6	0	0	0	5.3	4.2
Methyl tert-butyl ether	0	0	0	0	0	0	0	0
Methylene chloride	1.2	1.8	3.0	0.87	0.90	1.0	6.0	1.3
o-Xylene	0	0	0.48	0.65	0	9.6	4.2	0.61
Propylene	0	0	0	0	0	0	0	0
Styrene	0	0	0	0	0	0	2.5	0
Tetrachloroethylene	0.90	1.8	3.1	0.75	1.6	0	2.4	2.1
Tetrahydrofuran	0	0	5.1	0	0	2.2	3.4	4.1
Toluene	2.5	2.9	2.4	5.4	2.8	23.0	28.0	4.0
trans-1,2-Dichloroethene	0	0	0	0	0	0	0	0
trans-1,3-Dichloropropene	0	0	0	0	0	0	0	0
Trichloroethene	0	1.2	0.81	0	0	0	0.86	0
Vinyl acetate	0	0	0	0	0	0	0	0
Vinyl Bromide	0	0	0	0	0	0	0	0
Vinyl chloride	0	0	0	0	0	0	0	0

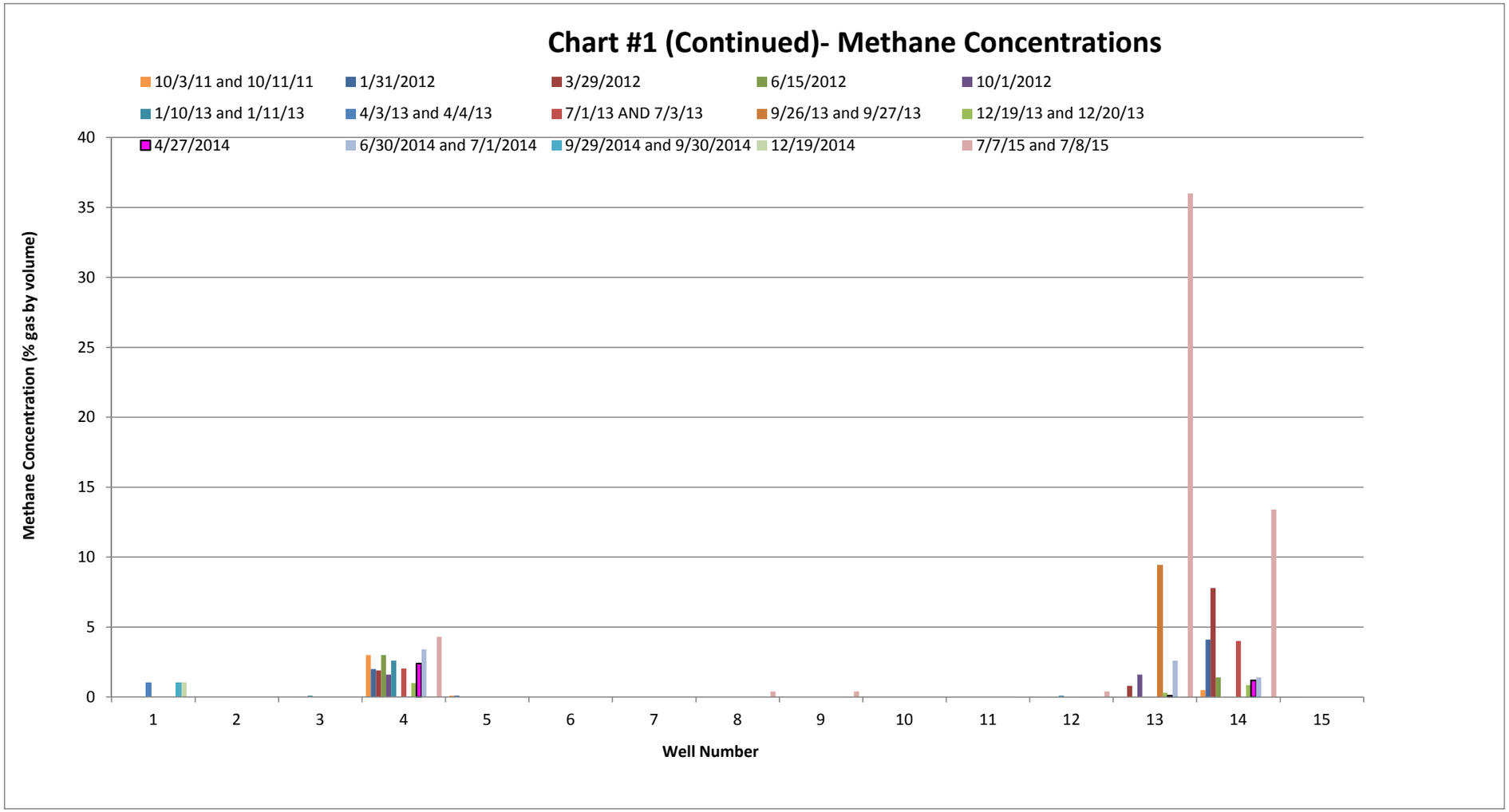
All concentrations in ug/m^3
AS ambient sample
0 = below detection limit

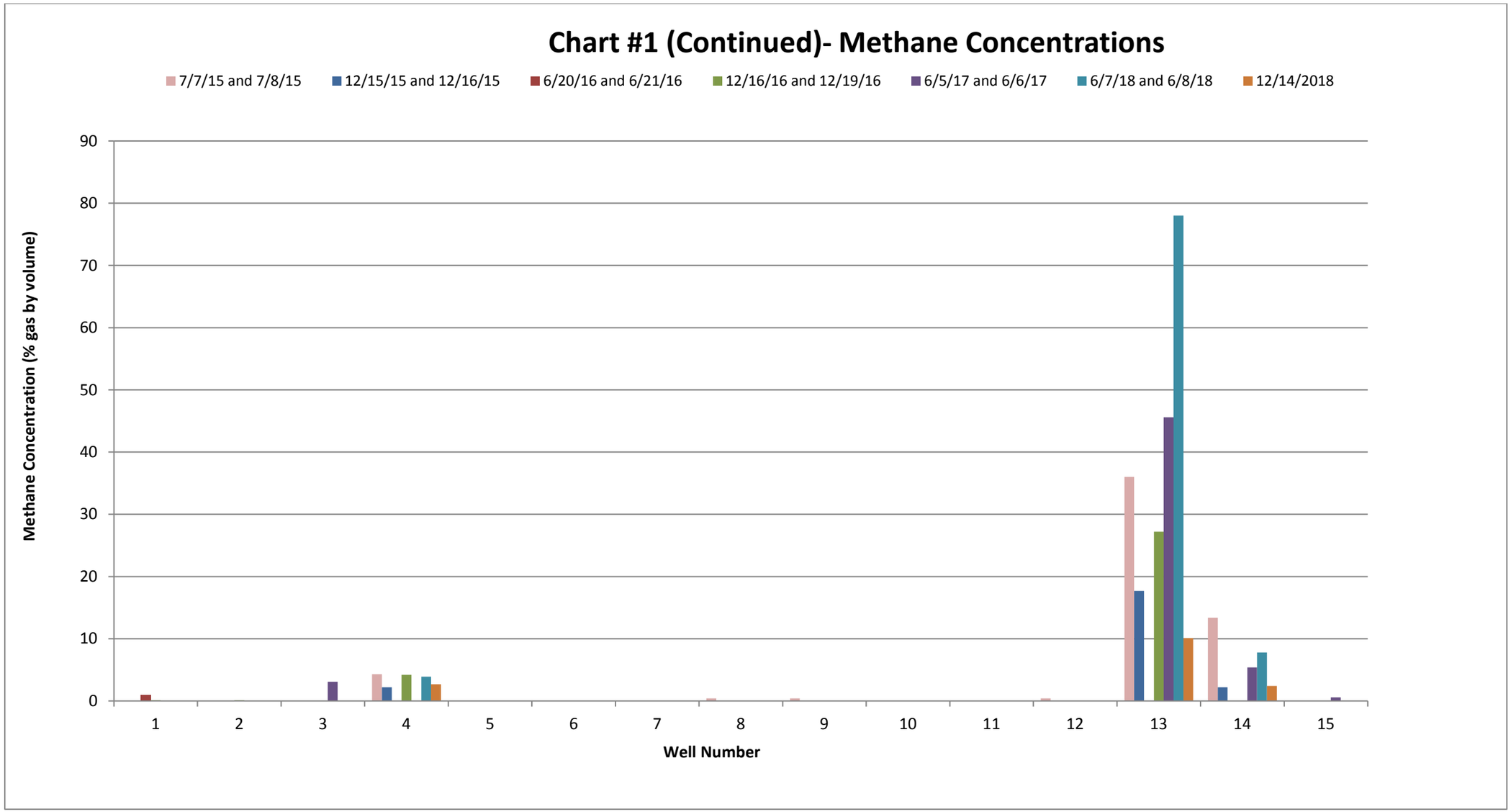
Table #2 continued
IKEA (BCP Site No. C224043)
1 Beard Street, Brooklyn, N.Y.
Quarterly VOC Analysis
EPA Method TO-15

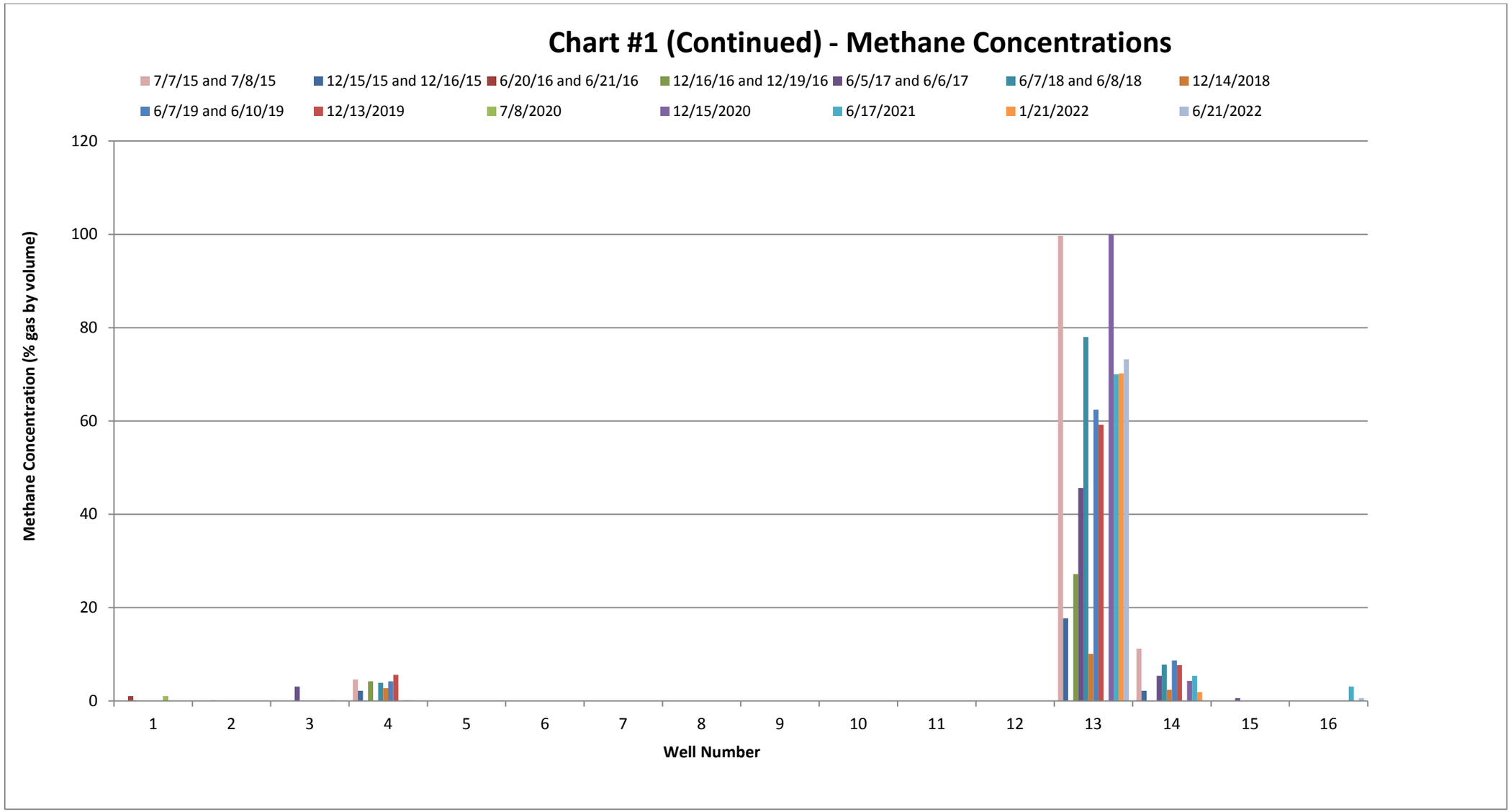
EPA Method TO-15	SVW-9	SVW-10	SVW-11	SVW-12	SVW-13	SVW-14	SVW-15	SVW-16	AS-1 up wind	AS-2 down wind
1,1,1-Trichloroethane	0	2.6	3.5	0	0	0	0.98	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0	0	0	0	0	0	0	0
1,1,2-Trichloroethane	0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethane	0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethene	0	0	0	0	0	0	0	0	0	0
1,2,4-Trichlorobenzene	0	0	0	0	0	0	0	0	0	0
1,2,4-Trimethylbenzene	19.0	1.0	1.1	37.0	10.0	36.0	1.4	1.1	0.54	0.54
1,2-Dibromoethane	0	0	0	0	0	0	0	0	0	0
1,2-Dichlorobenzene	0	0	0	0	0	0	0	0	0	0
1,2-Dichloroethane	0	0	0	0	0	0	0	0	0	0
1,2-Dichloropropane	0	0	0	0	0	0	0	0	0	0
1,3,5-Trimethylbenzene	9.3	0	0.64	14.0	4.9	15.0	1.2	0.69	0	0
1,3-butadiene	0	0	0	0	0	0	0	0	0	0
1,3-Dichlorobenzene	4.2	0.96	1.6	5.6	0	0	2.8	0	0	0
1,4-Dichlorobenzene	0	0	2.8	0	0	0	0	0	0	0
1,4-Dioxane	0	0	0	0	0	0	0	0	0	0
2,2,4-trimethylpentane	2.1	0	0	1.2	17.0	41.0	0.98	1.4	0.61	0.61
4-ethyltoluene	5.5	0	0	5.3	2.8	8.0	0.49	0	0	0
Acetone	520.0	49.0	100.0	210.0	150.0	670.0	57.0	12.0	19.0	17.0
Allyl chloride	0	0	0	0	0	0	0	0	0	0
Benzene	6.4	1.1	1.5	8.6	20.0	24.0	0.80	1.0	0.61	0.83
Benzyl chloride	0	0	0	0	0	0	0	0	0	0
Bromodichloromethane	0	0.87	0	0	0	0	0	0	0	0
Bromofluorobenzene	0	0	0	0	0	0	0	0	0	0
Bromoform	0	0	0	0	0	0	0	0	0	0
Bromomethane	0	0	0	0	0	0	0	0	0	0
Carbon disulfide	240.0	22.0	2.1	140.0	6.1	110.0	13.0	16.0	0	0.31
Carbon tetrachloride	0.88	0	1.7	1.1	0	0	0	0	0.63	0.63
Chlorobenzene	0	0	0	0	0	0	0	0	0	0
Chloroethane	1.2	0	0.34	0.55	0.71	2.5	0	0	0	0
Chloroform	4.6	160.0	7.4	2.5	0.54	0.83	27.0	1.8	0	0
Chloromethane	1.5	0	0.70	1.4	0	27	1.3	1.5	0.95	0.93
cis-1,2-Dichloroethene	0	0	0	0	0.59	7.1	0	0	0	0
cis-1,3-Dichloropropene	0	0	0	0	0	0	0	0	0	0
Cyclohexane	2.5	0	0.69	3.1	55.0	74.0	3.7	1.2	0	0
Dibromochloromethane	0	0								
Ethyl acetate	3.1	1.6	1.1	2.2	3.1		1.5	1.7	1.2	1.3
Ethylbenzene	5.1	0.52	0.69	4.3	5.2	8.2	0.52	0.74		0.48
Freon 11	1.8	1.9	20	2.0	1.4	0.90	23	1.3	1.3	1.4
Freon 113	0	0	0	0	0	0				
Freon 114	0	0	0	0	0	0				
Freon 12	2.2	2.5	2.4	2.1	0	2.5	2.6	2.2	2.2	2.3
Helium	0	0			0	0				
Heptane	3.3	0	1.0	5.3	15.0	72.0	3.7	0.94	0.57	0.78
Hexachloro-1,3-butadiene	0	0	0	0	0	0	0	0	0	0
Hexane	2.9	0	0	6.8	30.0	130.0	7.8	1.0	0.78	0.74
Isopropyl alcohol	0	0	0	0	0	0	0	0	3.5	3.2
m&p-Xylene	15	1.8	2.2	16.0	18.0	28.0	2.3	2.4	1.0	1.4
Methyl Butyl Ketone	0	0	0	0	0	20.0	0	0	0	0
Methyl Ethyl Ketone	39.0	3.5	3.9	13.0	15.0	94.0	3.8	1.3	1.2	1.3
Methyl Isobutyl Ketone	2500.0	3.1	4.5	450.0	11.0	760.0	3.8	0.94	0	0
Methyl tert-butyl ether	0	0	0	0	0	72.0	0	0	0	0
Methylene chloride	13.0	1.1	1.3	28.0	2.7	11.0	10.0	5.8	1.3	1.3
o-Xylene	10.0	0.78	0.91	13.0	12.0	19.0	0.78	0.91	0.48	0.56
Propylene	0	0	0	0	0	0	0	0	0	0
Styrene	2.0	0	0	2.4	1.5	5.5	0	0	0	0
Tetrachloroethylene	2.8	2.0	20.0	11.0	17.0	24.0	20.0	0.88	0	0
Tetrahydrofuran	22.0	7.1	2.4	11.0	0	37.0	0	0.77	0	0
Toluene	18.0	4.7	4.5	20.0	12.0	27.0	3.2	5.2	3.4	3.7
trans-1,2-Dichloroethene	0	0	0	0	0	0	0	0	0	0
trans-1,3-Dichloropropene	0	0	0	0	0	0	0	0	0	0
Trichloroethene	0.59	0	2.7	1.1	4.5	9.8	0	0	0	0
Vinyl acetate	0	0	0	0	0	0	0	0	0	0
Vinyl Bromide	0	0	0	0	0	0	0	0	0	0
Vinyl chloride	0	0	0	0	0	33.0	0	0	0	0

All concentrations in ug/m^3
AS ambient sample
0 = below detection limit


Chart #1 - Methane Concentrations
6/12/2008
9/30/2008
12/30/2008
3/26/2009
7/1/2009
9/24/2009
12/29/2009
4/6/2010
6/29/2010
10/6/2010
3/14/11
6/16/2011
Methane Concentration (% gas by volume)
0
2
4
6
8
10
12
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
Well Number


Chart #1 (Continued)- Methane Concentrations
10/3/11 and 10/11/11
1/31/2012
3/29/2012
6/15/2012
10/1/2012
1/10/13 and 1/11/13
4/3/13 and 4/4/13
7/1/13 AND 7/3/13
9/26/13 and 9/27/13
12/19/13 and 12/20/13
4/27/2014
6/30/2014 and 7/1/2014
9/29/2014 and 9/30/2014
12/19/2014
7/7/15 and 7/8/15
Methane Concentration (% gas by volume)
0
5
10
15
20
25
30
35
40
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
Well Number


Chart #1 (Continued)- Methane Concentrations
7/7/15 and 7/8/15
12/15/15 and 12/16/15
6/20/16 and 6/21/16
12/16/16 and 12/19/16
6/5/17 and 6/6/17
6/7/18 and 6/8/18
12/14/2018
Methane Concentration (% gas by volume)
90
80
70
60
50
40
30
20
10
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
Well Number


Chart #1 (Continued) - Methane Concentrations
7/7/15 and 7/8/15
12/15/15 and 12/16/15
6/20/16 and 6/21/16
12/16/16 and 12/19/16
6/5/17 and 6/6/17
6/7/18 and 6/8/18
12/14/2018
6/7/19 and 6/10/19
12/13/2019
7/8/2020
12/15/2020
6/17/2021
1/21/2022
6/21/2022
Methane Concentration (% gas by volume)
120
100
80
60
40
20
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
Well Number

Complete Laboratory Reports and Associated Chains of Custody

U.S. Dredging Shipyard Site
Tax Block 612, Lot 130
Brooklyn, New York
NYSDEC - BCP Number C224043

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-1
Lab Order:	C2206048	**Tag Number:**	569,1165
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-001A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.65	0.65		ug/m3	0.83	6/24/2022 4:49:00 PM
1,1,2,2-Tetrachloroethane	< 0.82	0.82		ug/m3	0.83	6/24/2022 4:49:00 PM
1,1,2-Trichloroethane	< 0.65	0.65		ug/m3	0.83	6/24/2022 4:49:00 PM
1,1-Dichloroethane	< 0.49	0.49		ug/m3	0.83	6/24/2022 4:49:00 PM
1,1-Dichloroethene	< 0.48	0.48		ug/m3	0.83	6/24/2022 4:49:00 PM
1,2,4-Trichlorobenzene	< 0.89	0.89		ug/m3	0.83	6/24/2022 4:49:00 PM
1,2,4-Trimethylbenzene	< 0.59	0.59		ug/m3	0.83	6/24/2022 4:49:00 PM
1,2-Dibromoethane	< 0.92	0.92		ug/m3	0.83	6/24/2022 4:49:00 PM
1,2-Dichlorobenzene	< 0.72	0.72		ug/m3	0.83	6/24/2022 4:49:00 PM
1,2-Dichloroethane	< 0.49	0.49		ug/m3	0.83	6/24/2022 4:49:00 PM
1,2-Dichloropropane	< 0.55	0.55		ug/m3	0.83	6/24/2022 4:49:00 PM
1,3,5-Trimethylbenzene	< 0.59	0.59		ug/m3	0.83	6/24/2022 4:49:00 PM
1,3-butadiene	< 0.27	0.27		ug/m3	0.83	6/24/2022 4:49:00 PM
1,3-Dichlorobenzene	< 0.72	0.72		ug/m3	0.83	6/24/2022 4:49:00 PM
1,4-Dichlorobenzene	< 0.72	0.72		ug/m3	0.83	6/24/2022 4:49:00 PM
1,4-Dioxane	< 0.90	0.90		ug/m3	0.83	6/24/2022 4:49:00 PM
2,2,4-trimethylpentane	< 0.56	0.56		ug/m3	0.83	6/24/2022 4:49:00 PM
4-ethyltoluene	< 0.59	0.59		ug/m3	0.83	6/24/2022 4:49:00 PM
Acetone	8.4	2.8		ug/m3	4	6/29/2022 4:08:00 AM
Allyl chloride	< 0.38	0.38		ug/m3	0.83	6/24/2022 4:49:00 PM
Benzene	0.27	0.38	J	ug/m3	0.83	6/24/2022 4:49:00 PM
Benzyl chloride	< 0.69	0.69		ug/m3	0.83	6/24/2022 4:49:00 PM
Bromodichloromethane	< 0.80	0.80		ug/m3	0.83	6/24/2022 4:49:00 PM
Bromoform	< 1.2	1.2		ug/m3	0.83	6/24/2022 4:49:00 PM
Bromomethane	< 0.47	0.47		ug/m3	0.83	6/24/2022 4:49:00 PM
Carbon disulfide	0.65	0.37		ug/m3	0.83	6/24/2022 4:49:00 PM
Carbon tetrachloride	2.5	0.75		ug/m3	0.83	6/24/2022 4:49:00 PM
Chlorobenzene	< 0.55	0.55		ug/m3	0.83	6/24/2022 4:49:00 PM
Chloroethane	< 0.32	0.32		ug/m3	0.83	6/24/2022 4:49:00 PM
Chloroform	1.9	0.59		ug/m3	0.83	6/24/2022 4:49:00 PM
Chloromethane	0.24	0.25	J	ug/m3	0.83	6/24/2022 4:49:00 PM
cis-1,2-Dichloroethene	< 0.48	0.48		ug/m3	0.83	6/24/2022 4:49:00 PM
cis-1,3-Dichloropropene	< 0.54	0.54		ug/m3	0.83	6/24/2022 4:49:00 PM
Cyclohexane	< 0.41	0.41		ug/m3	0.83	6/24/2022 4:49:00 PM
Dibromochloromethane	< 1.0	1.0		ug/m3	0.83	6/24/2022 4:49:00 PM
Ethyl acetate	1.1	0.43		ug/m3	0.83	6/24/2022 4:49:00 PM
Ethylbenzene	< 0.52	0.52		ug/m3	0.83	6/24/2022 4:49:00 PM
Freon 11	4.7	0.67		ug/m3	0.83	6/24/2022 4:49:00 PM
Freon 113	< 0.92	0.92		ug/m3	0.83	6/24/2022 4:49:00 PM
Freon 114	< 0.84	0.84		ug/m3	0.83	6/24/2022 4:49:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-1
Lab Order:	C2206048	**Tag Number:**	569,1165
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-001A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.2	0.59		ug/m3	0.83	6/24/2022 4:49:00 PM
Heptane	< 0.49	0.49		ug/m3	0.83	6/24/2022 4:49:00 PM
Hexachloro-1,3-butadiene	< 1.3	1.3		ug/m3	0.83	6/24/2022 4:49:00 PM
Hexane	0.47	0.42		ug/m3	0.83	6/24/2022 4:49:00 PM
Isopropyl alcohol	< 0.29	0.29		ug/m3	0.83	6/24/2022 4:49:00 PM
m&p-Xylene	0.58	1.1	J	ug/m3	0.83	6/24/2022 4:49:00 PM
Methyl Butyl Ketone	< 1.0	1.0		ug/m3	0.83	6/24/2022 4:49:00 PM
Methyl Ethyl Ketone	0.66	0.74	J	ug/m3	0.83	6/24/2022 4:49:00 PM
Methyl Isobutyl Ketone	1.2	1.0		ug/m3	0.83	6/24/2022 4:49:00 PM
Methyl tert-butyl ether	< 0.43	0.43		ug/m3	0.83	6/24/2022 4:49:00 PM
Methylene chloride	1.2	0.42		ug/m3	0.83	6/24/2022 4:49:00 PM
o-Xylene	< 0.52	0.52		ug/m3	0.83	6/24/2022 4:49:00 PM
Propylene	< 0.21	0.21		ug/m3	0.83	6/24/2022 4:49:00 PM
Styrene	< 0.51	0.51		ug/m3	0.83	6/24/2022 4:49:00 PM
Tetrachloroethylene	0.90	0.81		ug/m3	0.83	6/24/2022 4:49:00 PM
Tetrahydrofuran	< 0.35	0.35		ug/m3	0.83	6/24/2022 4:49:00 PM
Toluene	2.5	0.45		ug/m3	0.83	6/24/2022 4:49:00 PM
trans-1,2-Dichloroethene	< 0.48	0.48		ug/m3	0.83	6/24/2022 4:49:00 PM
trans-1,3-Dichloropropene	< 0.54	0.54		ug/m3	0.83	6/24/2022 4:49:00 PM
Trichloroethene	< 0.64	0.64		ug/m3	0.83	6/24/2022 4:49:00 PM
Vinyl acetate	< 0.42	0.42		ug/m3	0.83	6/24/2022 4:49:00 PM
Vinyl Bromide	< 0.52	0.52		ug/m3	0.83	6/24/2022 4:49:00 PM
Vinyl chloride	< 0.31	0.31		ug/m3	0.83	6/24/2022 4:49:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-1 Dup
Lab Order:	C2206048	**Tag Number:**	131,1165
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-002A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.65	0.65		ug/m3	0.83	6/24/2022 6:04:00 PM
1,1,2,2-Tetrachloroethane	< 0.82	0.82		ug/m3	0.83	6/24/2022 6:04:00 PM
1,1,2-Trichloroethane	< 0.65	0.65		ug/m3	0.83	6/24/2022 6:04:00 PM
1,1-Dichloroethane	< 0.49	0.49		ug/m3	0.83	6/24/2022 6:04:00 PM
1,1-Dichloroethene	< 0.48	0.48		ug/m3	0.83	6/24/2022 6:04:00 PM
1,2,4-Trichlorobenzene	< 0.89	0.89		ug/m3	0.83	6/24/2022 6:04:00 PM
1,2,4-Trimethylbenzene	< 0.59	0.59		ug/m3	0.83	6/24/2022 6:04:00 PM
1,2-Dibromoethane	< 0.92	0.92		ug/m3	0.83	6/24/2022 6:04:00 PM
1,2-Dichlorobenzene	< 0.72	0.72		ug/m3	0.83	6/24/2022 6:04:00 PM
1,2-Dichloroethane	< 0.49	0.49		ug/m3	0.83	6/24/2022 6:04:00 PM
1,2-Dichloropropane	< 0.55	0.55		ug/m3	0.83	6/24/2022 6:04:00 PM
1,3,5-Trimethylbenzene	< 0.59	0.59		ug/m3	0.83	6/24/2022 6:04:00 PM
1,3-butadiene	< 0.27	0.27		ug/m3	0.83	6/24/2022 6:04:00 PM
1,3-Dichlorobenzene	< 0.72	0.72		ug/m3	0.83	6/24/2022 6:04:00 PM
1,4-Dichlorobenzene	< 0.72	0.72		ug/m3	0.83	6/24/2022 6:04:00 PM
1,4-Dioxane	< 0.90	0.90		ug/m3	0.83	6/24/2022 6:04:00 PM
2,2,4-trimethylpentane	< 0.56	0.56		ug/m3	0.83	6/24/2022 6:04:00 PM
4-ethyltoluene	< 0.59	0.59		ug/m3	0.83	6/24/2022 6:04:00 PM
Acetone	4.1	0.59		ug/m3	0.83	6/24/2022 6:04:00 PM
Allyl chloride	< 0.38	0.38		ug/m3	0.83	6/24/2022 6:04:00 PM
Benzene	< 0.38	0.38		ug/m3	0.83	6/24/2022 6:04:00 PM
Benzyl chloride	< 0.69	0.69		ug/m3	0.83	6/24/2022 6:04:00 PM
Bromodichloromethane	< 0.80	0.80		ug/m3	0.83	6/24/2022 6:04:00 PM
Bromoform	< 1.2	1.2		ug/m3	0.83	6/24/2022 6:04:00 PM
Bromomethane	< 0.47	0.47		ug/m3	0.83	6/24/2022 6:04:00 PM
Carbon disulfide	0.36	0.37	J	ug/m3	0.83	6/24/2022 6:04:00 PM
Carbon tetrachloride	2.5	0.75		ug/m3	0.83	6/24/2022 6:04:00 PM
Chlorobenzene	< 0.55	0.55		ug/m3	0.83	6/24/2022 6:04:00 PM
Chloroethane	< 0.32	0.32		ug/m3	0.83	6/24/2022 6:04:00 PM
Chloroform	1.9	0.59		ug/m3	0.83	6/24/2022 6:04:00 PM
Chloromethane	0.46	0.25		ug/m3	0.83	6/24/2022 6:04:00 PM
cis-1,2-Dichloroethene	< 0.48	0.48		ug/m3	0.83	6/24/2022 6:04:00 PM
cis-1,3-Dichloropropene	< 0.54	0.54		ug/m3	0.83	6/24/2022 6:04:00 PM
Cyclohexane	< 0.41	0.41		ug/m3	0.83	6/24/2022 6:04:00 PM
Dibromochloromethane	< 1.0	1.0		ug/m3	0.83	6/24/2022 6:04:00 PM
Ethyl acetate	0.90	0.43		ug/m3	0.83	6/24/2022 6:04:00 PM
Ethylbenzene	< 0.52	0.52		ug/m3	0.83	6/24/2022 6:04:00 PM
Freon 11	4.7	0.67		ug/m3	0.83	6/24/2022 6:04:00 PM
Freon 113	< 0.92	0.92		ug/m3	0.83	6/24/2022 6:04:00 PM
Freon 114	< 0.84	0.84		ug/m3	0.83	6/24/2022 6:04:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-1 Dup
Lab Order:	C2206048	**Tag Number:**	131,1165
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-002A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.3	0.59		ug/m3	0.83	6/24/2022 6:04:00 PM
Heptane	< 0.49	0.49		ug/m3	0.83	6/24/2022 6:04:00 PM
Hexachloro-1,3-butadiene	< 1.3	1.3		ug/m3	0.83	6/24/2022 6:04:00 PM
Hexane	0.38	0.42	J	ug/m3	0.83	6/24/2022 6:04:00 PM
Isopropyl alcohol	< 0.29	0.29		ug/m3	0.83	6/24/2022 6:04:00 PM
m&p-Xylene	0.54	1.1	J	ug/m3	0.83	6/24/2022 6:04:00 PM
Methyl Butyl Ketone	< 1.0	1.0		ug/m3	0.83	6/24/2022 6:04:00 PM
Methyl Ethyl Ketone	0.56	0.74	J	ug/m3	0.83	6/24/2022 6:04:00 PM
Methyl Isobutyl Ketone	< 1.0	1.0		ug/m3	0.83	6/24/2022 6:04:00 PM
Methyl tert-butyl ether	< 0.43	0.43		ug/m3	0.83	6/24/2022 6:04:00 PM
Methylene chloride	0.69	0.42		ug/m3	0.83	6/24/2022 6:04:00 PM
o-Xylene	< 0.52	0.52		ug/m3	0.83	6/24/2022 6:04:00 PM
Propylene	< 0.21	0.21		ug/m3	0.83	6/24/2022 6:04:00 PM
Styrene	< 0.51	0.51		ug/m3	0.83	6/24/2022 6:04:00 PM
Tetrachloroethylene	1.6	0.81		ug/m3	0.83	6/24/2022 6:04:00 PM
Tetrahydrofuran	< 0.35	0.35		ug/m3	0.83	6/24/2022 6:04:00 PM
Toluene	2.1	0.45		ug/m3	0.83	6/24/2022 6:04:00 PM
trans-1,2-Dichloroethene	< 0.48	0.48		ug/m3	0.83	6/24/2022 6:04:00 PM
trans-1,3-Dichloropropene	< 0.54	0.54		ug/m3	0.83	6/24/2022 6:04:00 PM
Trichloroethene	< 0.64	0.64		ug/m3	0.83	6/24/2022 6:04:00 PM
Vinyl acetate	< 0.42	0.42		ug/m3	0.83	6/24/2022 6:04:00 PM
Vinyl Bromide	< 0.52	0.52		ug/m3	0.83	6/24/2022 6:04:00 PM
Vinyl chloride	< 0.31	0.31		ug/m3	0.83	6/24/2022 6:04:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-2 MS/MSD
Lab Order:	C2206048	**Tag Number:**	1207,1346
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-003A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 1:51:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/24/2022 1:51:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 1:51:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 1:51:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 1:51:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/24/2022 1:51:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/24/2022 1:51:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/24/2022 1:51:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 1:51:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 1:51:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/24/2022 1:51:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/24/2022 1:51:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/24/2022 1:51:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 1:51:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 1:51:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/24/2022 1:51:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	6/24/2022 1:51:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/24/2022 1:51:00 PM
Acetone	45	7.1		ug/m3	10	6/27/2022 2:02:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/24/2022 1:51:00 PM
Benzene	1.1	0.48		ug/m3	1	6/24/2022 1:51:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/24/2022 1:51:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/24/2022 1:51:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/24/2022 1:51:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/24/2022 1:51:00 PM
Carbon disulfide	0.31	0.47	J	ug/m3	1	6/24/2022 1:51:00 PM
Carbon tetrachloride	2.2	0.94		ug/m3	1	6/24/2022 1:51:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/24/2022 1:51:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/24/2022 1:51:00 PM
Chloroform	3.9	0.73		ug/m3	1	6/24/2022 1:51:00 PM
Chloromethane	0.91	0.31		ug/m3	1	6/24/2022 1:51:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 1:51:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 1:51:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/24/2022 1:51:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/24/2022 1:51:00 PM
Ethyl acetate	1.2	0.54		ug/m3	1	6/24/2022 1:51:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	6/24/2022 1:51:00 PM
Freon 11	3.5	0.84		ug/m3	1	6/24/2022 1:51:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/24/2022 1:51:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/24/2022 1:51:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-2 MS/MSD
Lab Order:	C2206048	**Tag Number:**	1207,1346
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-003A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.5	0.74		ug/m3	1	6/24/2022 1:51:00 PM
Heptane	0.70	0.61		ug/m3	1	6/24/2022 1:51:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/24/2022 1:51:00 PM
Hexane	0.74	0.53		ug/m3	1	6/24/2022 1:51:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/24/2022 1:51:00 PM
m&p-Xylene	0.82	1.3	J	ug/m3	1	6/24/2022 1:51:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 1:51:00 PM
Methyl Ethyl Ketone	0.91	0.88		ug/m3	1	6/24/2022 1:51:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 1:51:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/24/2022 1:51:00 PM
Methylene chloride	1.8	0.52		ug/m3	1	6/24/2022 1:51:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	6/24/2022 1:51:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/24/2022 1:51:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/24/2022 1:51:00 PM
Tetrachloroethylene	1.8	1.0		ug/m3	1	6/24/2022 1:51:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/24/2022 1:51:00 PM
Toluene	2.9	0.57		ug/m3	1	6/24/2022 1:51:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 1:51:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 1:51:00 PM
Trichloroethene	1.2	0.81		ug/m3	1	6/24/2022 1:51:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/24/2022 1:51:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/24/2022 1:51:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/24/2022 1:51:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-3
Lab Order:	C2206048	**Tag Number:**	1175,310
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-004A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	0.93	0.82		ug/m3	1	6/24/2022 6:48:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/24/2022 6:48:00 PM
1,1,2-Trichloroethane	1.0	0.82		ug/m3	1	6/24/2022 6:48:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 6:48:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 6:48:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/24/2022 6:48:00 PM
1,2,4-Trimethylbenzene	0.84	0.74		ug/m3	1	6/24/2022 6:48:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/24/2022 6:48:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 6:48:00 PM
1,2-Dichloroethane	2.9	0.61		ug/m3	1	6/24/2022 6:48:00 PM
1,2-Dichloropropane	6.4	0.69		ug/m3	1	6/24/2022 6:48:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/24/2022 6:48:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/24/2022 6:48:00 PM
1,3-Dichlorobenzene	2.6	0.90		ug/m3	1	6/24/2022 6:48:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 6:48:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/24/2022 6:48:00 PM
2,2,4-trimethylpentane	0.70	0.70		ug/m3	1	6/24/2022 6:48:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/24/2022 6:48:00 PM
Acetone	98	14		ug/m3	20	6/28/2022 12:09:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/24/2022 6:48:00 PM
Benzene	0.57	0.48		ug/m3	1	6/24/2022 6:48:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/24/2022 6:48:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/24/2022 6:48:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/24/2022 6:48:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/24/2022 6:48:00 PM
Carbon disulfide	31	9.3		ug/m3	20	6/28/2022 12:09:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/24/2022 6:48:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/24/2022 6:48:00 PM
Chloroethane	0.71	0.40		ug/m3	1	6/24/2022 6:48:00 PM
Chloroform	5.7	0.73		ug/m3	1	6/24/2022 6:48:00 PM
Chloromethane	1.1	0.31		ug/m3	1	6/24/2022 6:48:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 6:48:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 6:48:00 PM
Cyclohexane	0.96	0.52		ug/m3	1	6/24/2022 6:48:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/24/2022 6:48:00 PM
Ethyl acetate	1.3	0.54		ug/m3	1	6/24/2022 6:48:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	6/24/2022 6:48:00 PM
Freon 11	9.7	0.84		ug/m3	1	6/24/2022 6:48:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/24/2022 6:48:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/24/2022 6:48:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-3
Lab Order:	C2206048	**Tag Number:**	1175,310
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-004A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	3.0	0.74		ug/m3	1	6/24/2022 6:48:00 PM
Heptane	0.57	0.61	J	ug/m3	1	6/24/2022 6:48:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/24/2022 6:48:00 PM
Hexane	< 0.53	0.53		ug/m3	1	6/24/2022 6:48:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/24/2022 6:48:00 PM
m&p-Xylene	0.91	1.3	J	ug/m3	1	6/24/2022 6:48:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 6:48:00 PM
Methyl Ethyl Ketone	4.5	0.88		ug/m3	1	6/24/2022 6:48:00 PM
Methyl Isobutyl Ketone	1.6	1.2		ug/m3	1	6/24/2022 6:48:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/24/2022 6:48:00 PM
Methylene chloride	3.0	0.52		ug/m3	1	6/24/2022 6:48:00 PM
o-Xylene	0.48	0.65	J	ug/m3	1	6/24/2022 6:48:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/24/2022 6:48:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/24/2022 6:48:00 PM
Tetrachloroethylene	3.1	1.0		ug/m3	1	6/24/2022 6:48:00 PM
Tetrahydrofuran	5.1	0.44		ug/m3	1	6/24/2022 6:48:00 PM
Toluene	2.4	0.57		ug/m3	1	6/24/2022 6:48:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 6:48:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 6:48:00 PM
Trichloroethene	0.81	0.81		ug/m3	1	6/24/2022 6:48:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/24/2022 6:48:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/24/2022 6:48:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/24/2022 6:48:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-4
Lab Order:	C2206048	**Tag Number:**	1317,120
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-005A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 7:32:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/24/2022 7:32:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 7:32:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 7:32:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 7:32:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/24/2022 7:32:00 PM
1,2,4-Trimethylbenzene	0.59	0.74	J	ug/m3	1	6/24/2022 7:32:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/24/2022 7:32:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 7:32:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 7:32:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/24/2022 7:32:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/24/2022 7:32:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/24/2022 7:32:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 7:32:00 PM
1,4-Dichlorobenzene	2.5	0.90		ug/m3	1	6/24/2022 7:32:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/24/2022 7:32:00 PM
2,2,4-trimethylpentane	1.1	0.70		ug/m3	1	6/24/2022 7:32:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/24/2022 7:32:00 PM
Acetone	82	14		ug/m3	20	6/28/2022 12:51:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/24/2022 7:32:00 PM
Benzene	1.1	0.48		ug/m3	1	6/24/2022 7:32:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/24/2022 7:32:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/24/2022 7:32:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/24/2022 7:32:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/24/2022 7:32:00 PM
Carbon disulfide	34	9.3		ug/m3	20	6/28/2022 12:51:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/24/2022 7:32:00 PM
Chlorobenzene	2.5	0.69		ug/m3	1	6/24/2022 7:32:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/24/2022 7:32:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	6/24/2022 7:32:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/24/2022 7:32:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 7:32:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 7:32:00 PM
Cyclohexane	0.89	0.52		ug/m3	1	6/24/2022 7:32:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/24/2022 7:32:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	6/24/2022 7:32:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	6/24/2022 7:32:00 PM
Freon 11	1.8	0.84		ug/m3	1	6/24/2022 7:32:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/24/2022 7:32:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/24/2022 7:32:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-4
Lab Order:	C2206048	**Tag Number:**	1317,120
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-005A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	3.3	0.74		ug/m3	1	6/24/2022 7:32:00 PM
Heptane	1.1	0.61		ug/m3	1	6/24/2022 7:32:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/24/2022 7:32:00 PM
Hexane	5.4	0.53		ug/m3	1	6/24/2022 7:32:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/24/2022 7:32:00 PM
m&p-Xylene	1.3	1.3		ug/m3	1	6/24/2022 7:32:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 7:32:00 PM
Methyl Ethyl Ketone	2.7	0.88		ug/m3	1	6/24/2022 7:32:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 7:32:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/24/2022 7:32:00 PM
Methylene chloride	0.87	0.52		ug/m3	1	6/24/2022 7:32:00 PM
o-Xylene	0.65	0.65		ug/m3	1	6/24/2022 7:32:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/24/2022 7:32:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/24/2022 7:32:00 PM
Tetrachloroethylene	0.75	1.0	J	ug/m3	1	6/24/2022 7:32:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/24/2022 7:32:00 PM
Toluene	5.4	0.57		ug/m3	1	6/24/2022 7:32:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 7:32:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 7:32:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	6/24/2022 7:32:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/24/2022 7:32:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/24/2022 7:32:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/24/2022 7:32:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-5
Lab Order:	C2206048	**Tag Number:**	245,155
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-006A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 8:16:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/24/2022 8:16:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 8:16:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 8:16:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 8:16:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/24/2022 8:16:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/24/2022 8:16:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/24/2022 8:16:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 8:16:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 8:16:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/24/2022 8:16:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/24/2022 8:16:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/24/2022 8:16:00 PM
1,3-Dichlorobenzene	0.96	0.90		ug/m3	1	6/24/2022 8:16:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 8:16:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/24/2022 8:16:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	6/24/2022 8:16:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/24/2022 8:16:00 PM
Acetone	47	7.1		ug/m3	10	6/28/2022 1:33:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/24/2022 8:16:00 PM
Benzene	0.54	0.48		ug/m3	1	6/24/2022 8:16:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/24/2022 8:16:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/24/2022 8:16:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/24/2022 8:16:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/24/2022 8:16:00 PM
Carbon disulfide	3.4	0.47		ug/m3	1	6/24/2022 8:16:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/24/2022 8:16:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/24/2022 8:16:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/24/2022 8:16:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	6/24/2022 8:16:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/24/2022 8:16:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 8:16:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 8:16:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/24/2022 8:16:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/24/2022 8:16:00 PM
Ethyl acetate	1.3	0.54		ug/m3	1	6/24/2022 8:16:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	6/24/2022 8:16:00 PM
Freon 11	3.5	0.84		ug/m3	1	6/24/2022 8:16:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/24/2022 8:16:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/24/2022 8:16:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-5
Lab Order:	C2206048	**Tag Number:**	245,155
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-006A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.7	0.74		ug/m3	1	6/24/2022 8:16:00 PM
Heptane	< 0.61	0.61		ug/m3	1	6/24/2022 8:16:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/24/2022 8:16:00 PM
Hexane	< 0.53	0.53		ug/m3	1	6/24/2022 8:16:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/24/2022 8:16:00 PM
m&p-Xylene	0.91	1.3	J	ug/m3	1	6/24/2022 8:16:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 8:16:00 PM
Methyl Ethyl Ketone	2.1	0.88		ug/m3	1	6/24/2022 8:16:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 8:16:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/24/2022 8:16:00 PM
Methylene chloride	0.90	0.52		ug/m3	1	6/24/2022 8:16:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	6/24/2022 8:16:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/24/2022 8:16:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/24/2022 8:16:00 PM
Tetrachloroethylene	1.6	1.0		ug/m3	1	6/24/2022 8:16:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/24/2022 8:16:00 PM
Toluene	2.8	0.57		ug/m3	1	6/24/2022 8:16:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 8:16:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 8:16:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	6/24/2022 8:16:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/24/2022 8:16:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/24/2022 8:16:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/24/2022 8:16:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-6
Lab Order:	C2206048	**Tag Number:**	237,124
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-007A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 9:00:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/24/2022 9:00:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 9:00:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 9:00:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 9:00:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/24/2022 9:00:00 PM
1,2,4-Trimethylbenzene	11	15	J	ug/m3	20	6/28/2022 2:16:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/24/2022 9:00:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 9:00:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 9:00:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/24/2022 9:00:00 PM
1,3,5-Trimethylbenzene	3.8	0.74		ug/m3	1	6/24/2022 9:00:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/24/2022 9:00:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 9:00:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 9:00:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/24/2022 9:00:00 PM
2,2,4-trimethylpentane	1.7	0.70		ug/m3	1	6/24/2022 9:00:00 PM
4-ethyltoluene	3.9	0.74		ug/m3	1	6/24/2022 9:00:00 PM
Acetone	41	14		ug/m3	20	6/28/2022 2:16:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/24/2022 9:00:00 PM
Benzene	2.7	0.48		ug/m3	1	6/24/2022 9:00:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/24/2022 9:00:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/24/2022 9:00:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/24/2022 9:00:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/24/2022 9:00:00 PM
Carbon disulfide	1.0	0.47		ug/m3	1	6/24/2022 9:00:00 PM
Carbon tetrachloride	0.69	0.94	J	ug/m3	1	6/24/2022 9:00:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/24/2022 9:00:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/24/2022 9:00:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	6/24/2022 9:00:00 PM
Chloromethane	1.3	0.31		ug/m3	1	6/24/2022 9:00:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 9:00:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 9:00:00 PM
Cyclohexane	1.1	0.52		ug/m3	1	6/24/2022 9:00:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/24/2022 9:00:00 PM
Ethyl acetate	4.0	0.54		ug/m3	1	6/24/2022 9:00:00 PM
Ethylbenzene	7.9	0.65		ug/m3	1	6/24/2022 9:00:00 PM
Freon 11	1.5	0.84		ug/m3	1	6/24/2022 9:00:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/24/2022 9:00:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/24/2022 9:00:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-6
Lab Order:	C2206048	**Tag Number:**	237,124
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-007A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.5	0.74		ug/m3	1	6/24/2022 9:00:00 PM
Heptane	5.6	0.61		ug/m3	1	6/24/2022 9:00:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/24/2022 9:00:00 PM
Hexane	1.6	0.53		ug/m3	1	6/24/2022 9:00:00 PM
Isopropyl alcohol	75	7.4		ug/m3	20	6/28/2022 2:16:00 AM
m&p-Xylene	17	26	J	ug/m3	20	6/28/2022 2:16:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 9:00:00 PM
Methyl Ethyl Ketone	4.9	0.88		ug/m3	1	6/24/2022 9:00:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 9:00:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/24/2022 9:00:00 PM
Methylene chloride	1.0	0.52		ug/m3	1	6/24/2022 9:00:00 PM
o-Xylene	9.6	13	J	ug/m3	20	6/28/2022 2:16:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/24/2022 9:00:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/24/2022 9:00:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/24/2022 9:00:00 PM
Tetrahydrofuran	2.2	0.44		ug/m3	1	6/24/2022 9:00:00 PM
Toluene	23	11		ug/m3	20	6/28/2022 2:16:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 9:00:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 9:00:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	6/24/2022 9:00:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/24/2022 9:00:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/24/2022 9:00:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/24/2022 9:00:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-7
Lab Order:	C2206048	**Tag Number:**	1450,125
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-008A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/27/2022 12:39:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/27/2022 12:39:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/27/2022 12:39:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/27/2022 12:39:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/27/2022 12:39:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/27/2022 12:39:00 PM
1,2,4-Trimethylbenzene	3.3	0.74		ug/m3	1	6/27/2022 12:39:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/27/2022 12:39:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/27/2022 12:39:00 PM
1,2-Dichloroethane	0.81	0.61		ug/m3	1	6/27/2022 12:39:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/27/2022 12:39:00 PM
1,3,5-Trimethylbenzene	1.3	0.74		ug/m3	1	6/27/2022 12:39:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/27/2022 12:39:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/27/2022 12:39:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/27/2022 12:39:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/27/2022 12:39:00 PM
2,2,4-trimethylpentane	2.3	0.70		ug/m3	1	6/27/2022 12:39:00 PM
4-ethyltoluene	0.93	0.74		ug/m3	1	6/27/2022 12:39:00 PM
Acetone	39	7.1		ug/m3	10	6/28/2022 2:58:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/27/2022 12:39:00 PM
Benzene	2.7	0.48		ug/m3	1	6/27/2022 12:39:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/27/2022 12:39:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/27/2022 12:39:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/27/2022 12:39:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/27/2022 12:39:00 PM
Carbon disulfide	3.4	4.7	J	ug/m3	10	6/28/2022 2:58:00 AM
Carbon tetrachloride	1.0	0.94		ug/m3	1	6/27/2022 12:39:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/27/2022 12:39:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/27/2022 12:39:00 PM
Chloroform	1.1	0.73		ug/m3	1	6/27/2022 12:39:00 PM
Chloromethane	1.0	0.31		ug/m3	1	6/27/2022 12:39:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/27/2022 12:39:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/27/2022 12:39:00 PM
Cyclohexane	2.6	0.52		ug/m3	1	6/27/2022 12:39:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/27/2022 12:39:00 PM
Ethyl acetate	< 5.4	5.4		ug/m3	10	6/28/2022 2:58:00 AM
Ethylbenzene	3.5	0.65		ug/m3	1	6/27/2022 12:39:00 PM
Freon 11	2.5	0.84		ug/m3	1	6/27/2022 12:39:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/27/2022 12:39:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/27/2022 12:39:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-7
Lab Order:	C2206048	**Tag Number:**	1450,125
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-008A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	1.7	0.74		ug/m3	1	6/27/2022 12:39:00 PM
Heptane	3.5	0.61		ug/m3	1	6/27/2022 12:39:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/27/2022 12:39:00 PM
Hexane	3.7	0.53		ug/m3	1	6/27/2022 12:39:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/27/2022 12:39:00 PM
m&p-Xylene	12	1.3		ug/m3	1	6/27/2022 12:39:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/27/2022 12:39:00 PM
Methyl Ethyl Ketone	4.1	8.8	J	ug/m3	10	6/28/2022 2:58:00 AM
Methyl Isobutyl Ketone	5.3	12	J	ug/m3	10	6/28/2022 2:58:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/27/2022 12:39:00 PM
Methylene chloride	6.0	0.52		ug/m3	1	6/27/2022 12:39:00 PM
o-Xylene	4.2	0.65		ug/m3	1	6/27/2022 12:39:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/27/2022 12:39:00 PM
Styrene	2.5	0.64		ug/m3	1	6/27/2022 12:39:00 PM
Tetrachloroethylene	2.4	1.0		ug/m3	1	6/27/2022 12:39:00 PM
Tetrahydrofuran	3.4	0.44		ug/m3	1	6/27/2022 12:39:00 PM
Toluene	28	5.7		ug/m3	10	6/28/2022 2:58:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/27/2022 12:39:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/27/2022 12:39:00 PM
Trichloroethene	0.86	0.81		ug/m3	1	6/27/2022 12:39:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/27/2022 12:39:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/27/2022 12:39:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/27/2022 12:39:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-8
Lab Order:	C2206048	**Tag Number:**	242,187
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-009A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 10:59:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/24/2022 10:59:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 10:59:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 10:59:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 10:59:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/24/2022 10:59:00 PM
1,2,4-Trimethylbenzene	1.4	0.74		ug/m3	1	6/24/2022 10:59:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/24/2022 10:59:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 10:59:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 10:59:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/24/2022 10:59:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/24/2022 10:59:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/24/2022 10:59:00 PM
1,3-Dichlorobenzene	2.1	0.90		ug/m3	1	6/24/2022 10:59:00 PM
1,4-Dichlorobenzene	0.72	0.90	J	ug/m3	1	6/24/2022 10:59:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/24/2022 10:59:00 PM
2,2,4-trimethylpentane	0.79	0.70		ug/m3	1	6/24/2022 10:59:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/24/2022 10:59:00 PM
Acetone	66	28		ug/m3	40	6/28/2022 5:05:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/24/2022 10:59:00 PM
Benzene	1.9	0.48		ug/m3	1	6/24/2022 10:59:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/24/2022 10:59:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/24/2022 10:59:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/24/2022 10:59:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/24/2022 10:59:00 PM
Carbon disulfide	44	4.7		ug/m3	10	6/28/2022 4:23:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/24/2022 10:59:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/24/2022 10:59:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/24/2022 10:59:00 PM
Chloroform	0.68	0.73	J	ug/m3	1	6/24/2022 10:59:00 PM
Chloromethane	1.3	0.31		ug/m3	1	6/24/2022 10:59:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 10:59:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 10:59:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/24/2022 10:59:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/24/2022 10:59:00 PM
Ethyl acetate	2.0	0.54		ug/m3	1	6/24/2022 10:59:00 PM
Ethylbenzene	0.43	0.65	J	ug/m3	1	6/24/2022 10:59:00 PM
Freon 11	1.6	0.84		ug/m3	1	6/24/2022 10:59:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/24/2022 10:59:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/24/2022 10:59:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-8
Lab Order:	C2206048	**Tag Number:**	242,187
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-009A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.3	0.74		ug/m3	1	6/24/2022 10:59:00 PM
Heptane	0.86	0.61		ug/m3	1	6/24/2022 10:59:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/24/2022 10:59:00 PM
Hexane	3.7	0.53		ug/m3	1	6/24/2022 10:59:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/24/2022 10:59:00 PM
m&p-Xylene	1.4	1.3		ug/m3	1	6/24/2022 10:59:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 10:59:00 PM
Methyl Ethyl Ketone	4.0	0.88		ug/m3	1	6/24/2022 10:59:00 PM
Methyl Isobutyl Ketone	4.2	1.2		ug/m3	1	6/24/2022 10:59:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/24/2022 10:59:00 PM
Methylene chloride	1.3	0.52		ug/m3	1	6/24/2022 10:59:00 PM
o-Xylene	0.61	0.65	J	ug/m3	1	6/24/2022 10:59:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/24/2022 10:59:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/24/2022 10:59:00 PM
Tetrachloroethylene	2.1	1.0		ug/m3	1	6/24/2022 10:59:00 PM
Tetrahydrofuran	4.1	4.4	J	ug/m3	10	6/28/2022 4:23:00 AM
Toluene	4.0	0.57		ug/m3	1	6/24/2022 10:59:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 10:59:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 10:59:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	6/24/2022 10:59:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/24/2022 10:59:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/24/2022 10:59:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/24/2022 10:59:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-9
Lab Order:	C2206048	**Tag Number:**	362,1153
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-010A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 11:47:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/24/2022 11:47:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 11:47:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 11:47:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 11:47:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/24/2022 11:47:00 PM
1,2,4-Trimethylbenzene	19	7.4		ug/m3	10	6/29/2022 2:17:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/24/2022 11:47:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 11:47:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 11:47:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/24/2022 11:47:00 PM
1,3,5-Trimethylbenzene	9.3	7.4		ug/m3	10	6/29/2022 2:17:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/24/2022 11:47:00 PM
1,3-Dichlorobenzene	4.2	0.90		ug/m3	1	6/24/2022 11:47:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 11:47:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/24/2022 11:47:00 PM
2,2,4-trimethylpentane	2.1	0.70		ug/m3	1	6/24/2022 11:47:00 PM
4-ethyltoluene	5.5	0.74		ug/m3	1	6/24/2022 11:47:00 PM
Acetone	520	570	J	ug/m3	810	6/29/2022 3:04:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/24/2022 11:47:00 PM
Benzene	6.4	4.8		ug/m3	10	6/29/2022 2:17:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/24/2022 11:47:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/24/2022 11:47:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/24/2022 11:47:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/24/2022 11:47:00 PM
Carbon disulfide	240	19		ug/m3	40	6/28/2022 5:47:00 AM
Carbon tetrachloride	0.88	0.94	J	ug/m3	1	6/24/2022 11:47:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/24/2022 11:47:00 PM
Chloroethane	1.2	0.40		ug/m3	1	6/24/2022 11:47:00 PM
Chloroform	4.6	0.73		ug/m3	1	6/24/2022 11:47:00 PM
Chloromethane	1.5	0.31		ug/m3	1	6/24/2022 11:47:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 11:47:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 11:47:00 PM
Cyclohexane	2.5	0.52		ug/m3	1	6/24/2022 11:47:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/24/2022 11:47:00 PM
Ethyl acetate	3.1	0.54		ug/m3	1	6/24/2022 11:47:00 PM
Ethylbenzene	5.1	0.65		ug/m3	1	6/24/2022 11:47:00 PM
Freon 11	1.8	0.84		ug/m3	1	6/24/2022 11:47:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/24/2022 11:47:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/24/2022 11:47:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-9
Lab Order:	C2206048	**Tag Number:**	362,1153
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-010A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.2	0.74		ug/m3	1	6/24/2022 11:47:00 PM
Heptane	3.3	0.61		ug/m3	1	6/24/2022 11:47:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/24/2022 11:47:00 PM
Hexane	2.9	0.53		ug/m3	1	6/24/2022 11:47:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/24/2022 11:47:00 PM
m&p-Xylene	15	13		ug/m3	10	6/29/2022 2:17:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 11:47:00 PM
Methyl Ethyl Ketone	39	8.8		ug/m3	10	6/29/2022 2:17:00 PM
Methyl Isobutyl Ketone	2500	980		ug/m3	810	6/29/2022 3:04:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/24/2022 11:47:00 PM
Methylene chloride	13	5.2		ug/m3	10	6/29/2022 2:17:00 PM
o-Xylene	10	6.5		ug/m3	10	6/29/2022 2:17:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/24/2022 11:47:00 PM
Styrene	2.0	0.64		ug/m3	1	6/24/2022 11:47:00 PM
Tetrachloroethylene	2.8	1.0		ug/m3	1	6/24/2022 11:47:00 PM
Tetrahydrofuran	22	4.4		ug/m3	10	6/29/2022 2:17:00 PM
Toluene	18	5.7		ug/m3	10	6/29/2022 2:17:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 11:47:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 11:47:00 PM
Trichloroethene	0.59	0.81	J	ug/m3	1	6/24/2022 11:47:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/24/2022 11:47:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/24/2022 11:47:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/24/2022 11:47:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-10
Lab Order:	C2206048	**Tag Number:**	162,80
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-011A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	2.6	0.82		ug/m3	1	6/25/2022 12:31:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/25/2022 12:31:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 12:31:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 12:31:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 12:31:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/25/2022 12:31:00 AM
1,2,4-Trimethylbenzene	1.0	0.74		ug/m3	1	6/25/2022 12:31:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/25/2022 12:31:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 12:31:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 12:31:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/25/2022 12:31:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/25/2022 12:31:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/25/2022 12:31:00 AM
1,3-Dichlorobenzene	0.96	0.90		ug/m3	1	6/25/2022 12:31:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 12:31:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/25/2022 12:31:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	6/25/2022 12:31:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/25/2022 12:31:00 AM
Acetone	49	14		ug/m3	20	6/28/2022 7:11:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/25/2022 12:31:00 AM
Benzene	1.1	0.48		ug/m3	1	6/25/2022 12:31:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/25/2022 12:31:00 AM
Bromodichloromethane	0.87	1.0	J	ug/m3	1	6/25/2022 12:31:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/25/2022 12:31:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/25/2022 12:31:00 AM
Carbon disulfide	22	9.3		ug/m3	20	6/28/2022 7:11:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/25/2022 12:31:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/25/2022 12:31:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	6/25/2022 12:31:00 AM
Chloroform	160	15		ug/m3	20	6/28/2022 7:11:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	6/25/2022 12:31:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 12:31:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 12:31:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/25/2022 12:31:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/25/2022 12:31:00 AM
Ethyl acetate	1.6	0.54		ug/m3	1	6/25/2022 12:31:00 AM
Ethylbenzene	0.52	0.65	J	ug/m3	1	6/25/2022 12:31:00 AM
Freon 11	1.9	0.84		ug/m3	1	6/25/2022 12:31:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/25/2022 12:31:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/25/2022 12:31:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-10
Lab Order:	C2206048	**Tag Number:**	162,80
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-011A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.5	0.74		ug/m3	1	6/25/2022 12:31:00 AM
Heptane	< 0.61	0.61		ug/m3	1	6/25/2022 12:31:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/25/2022 12:31:00 AM
Hexane	< 0.53	0.53		ug/m3	1	6/25/2022 12:31:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/25/2022 12:31:00 AM
m&p-Xylene	1.8	1.3		ug/m3	1	6/25/2022 12:31:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/25/2022 12:31:00 AM
Methyl Ethyl Ketone	3.5	0.88		ug/m3	1	6/25/2022 12:31:00 AM
Methyl Isobutyl Ketone	3.1	1.2		ug/m3	1	6/25/2022 12:31:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/25/2022 12:31:00 AM
Methylene chloride	1.1	0.52		ug/m3	1	6/25/2022 12:31:00 AM
o-Xylene	0.78	0.65		ug/m3	1	6/25/2022 12:31:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/25/2022 12:31:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/25/2022 12:31:00 AM
Tetrachloroethylene	2.0	1.0		ug/m3	1	6/25/2022 12:31:00 AM
Tetrahydrofuran	7.1	8.8	J	ug/m3	20	6/28/2022 7:11:00 AM
Toluene	4.7	0.57		ug/m3	1	6/25/2022 12:31:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 12:31:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 12:31:00 AM
Trichloroethene	< 0.81	0.81		ug/m3	1	6/25/2022 12:31:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/25/2022 12:31:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/25/2022 12:31:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/25/2022 12:31:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-11
Lab Order:	C2206048	**Tag Number:**	320,48
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-012A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	3.5	0.82		ug/m3	1	6/25/2022 1:15:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/25/2022 1:15:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 1:15:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 1:15:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 1:15:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/25/2022 1:15:00 AM
1,2,4-Trimethylbenzene	1.1	0.74		ug/m3	1	6/25/2022 1:15:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/25/2022 1:15:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 1:15:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 1:15:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/25/2022 1:15:00 AM
1,3,5-Trimethylbenzene	0.64	0.74	J	ug/m3	1	6/25/2022 1:15:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/25/2022 1:15:00 AM
1,3-Dichlorobenzene	1.6	0.90		ug/m3	1	6/25/2022 1:15:00 AM
1,4-Dichlorobenzene	2.8	0.90		ug/m3	1	6/25/2022 1:15:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/25/2022 1:15:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	6/25/2022 1:15:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/25/2022 1:15:00 AM
Acetone	100	28		ug/m3	40	6/29/2022 6:15:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/25/2022 1:15:00 AM
Benzene	1.5	0.48		ug/m3	1	6/25/2022 1:15:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/25/2022 1:15:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/25/2022 1:15:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/25/2022 1:15:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/25/2022 1:15:00 AM
Carbon disulfide	2.1	0.47		ug/m3	1	6/25/2022 1:15:00 AM
Carbon tetrachloride	1.7	0.94		ug/m3	1	6/25/2022 1:15:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/25/2022 1:15:00 AM
Chloroethane	0.34	0.40	J	ug/m3	1	6/25/2022 1:15:00 AM
Chloroform	7.4	0.73		ug/m3	1	6/25/2022 1:15:00 AM
Chloromethane	0.70	0.31		ug/m3	1	6/25/2022 1:15:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 1:15:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 1:15:00 AM
Cyclohexane	0.69	0.52		ug/m3	1	6/25/2022 1:15:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/25/2022 1:15:00 AM
Ethyl acetate	1.1	0.54		ug/m3	1	6/25/2022 1:15:00 AM
Ethylbenzene	0.69	0.65		ug/m3	1	6/25/2022 1:15:00 AM
Freon 11	20	8.4		ug/m3	10	6/29/2022 5:33:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/25/2022 1:15:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/25/2022 1:15:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-11
Lab Order:	C2206048	**Tag Number:**	320,48
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-012A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.4	0.74		ug/m3	1	6/25/2022 1:15:00 AM
Heptane	1.0	0.61		ug/m3	1	6/25/2022 1:15:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/25/2022 1:15:00 AM
Hexane	< 0.53	0.53		ug/m3	1	6/25/2022 1:15:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/25/2022 1:15:00 AM
m&p-Xylene	2.2	1.3		ug/m3	1	6/25/2022 1:15:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/25/2022 1:15:00 AM
Methyl Ethyl Ketone	3.9	0.88		ug/m3	1	6/25/2022 1:15:00 AM
Methyl Isobutyl Ketone	4.5	1.2		ug/m3	1	6/25/2022 1:15:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/25/2022 1:15:00 AM
Methylene chloride	1.3	0.52		ug/m3	1	6/25/2022 1:15:00 AM
o-Xylene	0.91	0.65		ug/m3	1	6/25/2022 1:15:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/25/2022 1:15:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/25/2022 1:15:00 AM
Tetrachloroethylene	20	10		ug/m3	10	6/29/2022 5:33:00 AM
Tetrahydrofuran	2.4	0.44		ug/m3	1	6/25/2022 1:15:00 AM
Toluene	4.5	0.57		ug/m3	1	6/25/2022 1:15:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 1:15:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 1:15:00 AM
Trichloroethene	2.7	0.81		ug/m3	1	6/25/2022 1:15:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/25/2022 1:15:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/25/2022 1:15:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/25/2022 1:15:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-12
Lab Order:	C2206048	**Tag Number:**	234,147
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-013A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 2:30:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/25/2022 2:30:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 2:30:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 2:30:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 2:30:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/25/2022 2:30:00 AM
1,2,4-Trimethylbenzene	37	6.9		ug/m3	9	6/29/2022 3:48:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/25/2022 2:30:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 2:30:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 2:30:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/25/2022 2:30:00 AM
1,3,5-Trimethylbenzene	14	6.9		ug/m3	9	6/29/2022 3:48:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/25/2022 2:30:00 AM
1,3-Dichlorobenzene	5.6	0.90		ug/m3	1	6/25/2022 2:30:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 2:30:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/25/2022 2:30:00 AM
2,2,4-trimethylpentane	1.2	0.70		ug/m3	1	6/25/2022 2:30:00 AM
4-ethyltoluene	5.3	0.74		ug/m3	1	6/25/2022 2:30:00 AM
Acetone	210	64		ug/m3	90	6/29/2022 4:31:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/25/2022 2:30:00 AM
Benzene	8.6	4.5		ug/m3	9	6/29/2022 3:48:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/25/2022 2:30:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/25/2022 2:30:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/25/2022 2:30:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/25/2022 2:30:00 AM
Carbon disulfide	140	44		ug/m3	90	6/29/2022 4:31:00 PM
Carbon tetrachloride	1.1	0.94		ug/m3	1	6/25/2022 2:30:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/25/2022 2:30:00 AM
Chloroethane	0.55	0.40		ug/m3	1	6/25/2022 2:30:00 AM
Chloroform	2.5	0.73		ug/m3	1	6/25/2022 2:30:00 AM
Chloromethane	1.4	0.31		ug/m3	1	6/25/2022 2:30:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 2:30:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 2:30:00 AM
Cyclohexane	3.1	0.52		ug/m3	1	6/25/2022 2:30:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/25/2022 2:30:00 AM
Ethyl acetate	2.2	0.54		ug/m3	1	6/25/2022 2:30:00 AM
Ethylbenzene	4.3	0.65		ug/m3	1	6/25/2022 2:30:00 AM
Freon 11	2.0	0.84		ug/m3	1	6/25/2022 2:30:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/25/2022 2:30:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/25/2022 2:30:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-12
Lab Order:	C2206048	**Tag Number:**	234,147
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-013A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.1	0.74		ug/m3	1	6/25/2022 2:30:00 AM
Heptane	5.3	0.61		ug/m3	1	6/25/2022 2:30:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/25/2022 2:30:00 AM
Hexane	6.8	0.53		ug/m3	1	6/25/2022 2:30:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/25/2022 2:30:00 AM
m&p-Xylene	16	1.3		ug/m3	1	6/25/2022 2:30:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/25/2022 2:30:00 AM
Methyl Ethyl Ketone	13	8.0		ug/m3	9	6/29/2022 3:48:00 PM
Methyl Isobutyl Ketone	450	110		ug/m3	90	6/29/2022 4:31:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/25/2022 2:30:00 AM
Methylene chloride	28	4.9		ug/m3	9	6/29/2022 3:48:00 PM
o-Xylene	13	6.1		ug/m3	9	6/29/2022 3:48:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/25/2022 2:30:00 AM
Styrene	2.4	0.64		ug/m3	1	6/25/2022 2:30:00 AM
Tetrachloroethylene	11	1.0		ug/m3	1	6/25/2022 2:30:00 AM
Tetrahydrofuran	11	4.1		ug/m3	9	6/29/2022 3:48:00 PM
Toluene	20	5.3		ug/m3	9	6/29/2022 3:48:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 2:30:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 2:30:00 AM
Trichloroethene	1.1	0.81		ug/m3	1	6/25/2022 2:30:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/25/2022 2:30:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/25/2022 2:30:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/25/2022 2:30:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-13
Lab Order:	C2206048	**Tag Number:**	1192,175
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-014A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 3:58:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/25/2022 3:58:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 3:58:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 3:58:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 3:58:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/25/2022 3:58:00 AM
1,2,4-Trimethylbenzene	10	7.4		ug/m3	10	6/29/2022 5:14:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/25/2022 3:58:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 3:58:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 3:58:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/25/2022 3:58:00 AM
1,3,5-Trimethylbenzene	4.9	0.74		ug/m3	1	6/25/2022 3:58:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/25/2022 3:58:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 3:58:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 3:58:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/25/2022 3:58:00 AM
2,2,4-trimethylpentane	17	7.0		ug/m3	10	6/29/2022 5:14:00 PM
4-ethyltoluene	2.8	0.74		ug/m3	1	6/25/2022 3:58:00 AM
Acetone	150	28		ug/m3	40	6/29/2022 5:56:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/25/2022 3:58:00 AM
Benzene	20	4.8		ug/m3	10	6/29/2022 5:14:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/25/2022 3:58:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/25/2022 3:58:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/25/2022 3:58:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/25/2022 3:58:00 AM
Carbon disulfide	6.1	0.47		ug/m3	1	6/25/2022 3:58:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/25/2022 3:58:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/25/2022 3:58:00 AM
Chloroethane	0.71	0.40		ug/m3	1	6/25/2022 3:58:00 AM
Chloroform	0.54	0.73	J	ug/m3	1	6/25/2022 3:58:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	6/25/2022 3:58:00 AM
cis-1,2-Dichloroethene	0.59	0.59		ug/m3	1	6/25/2022 3:58:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 3:58:00 AM
Cyclohexane	55	5.2		ug/m3	10	6/29/2022 5:14:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/25/2022 3:58:00 AM
Ethyl acetate	3.1	0.54		ug/m3	1	6/25/2022 3:58:00 AM
Ethylbenzene	5.2	0.65		ug/m3	1	6/25/2022 3:58:00 AM
Freon 11	1.4	0.84		ug/m3	1	6/25/2022 3:58:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/25/2022 3:58:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/25/2022 3:58:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-13
Lab Order:	C2206048	**Tag Number:**	1192,175
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-014A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	< 0.74	0.74		ug/m3	1	6/25/2022 3:58:00 AM
Heptane	15	6.1		ug/m3	10	6/29/2022 5:14:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/25/2022 3:58:00 AM
Hexane	30	5.3		ug/m3	10	6/29/2022 5:14:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/25/2022 3:58:00 AM
m&p-Xylene	18	1.3		ug/m3	1	6/25/2022 3:58:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/25/2022 3:58:00 AM
Methyl Ethyl Ketone	15	8.8		ug/m3	10	6/29/2022 5:14:00 PM
Methyl Isobutyl Ketone	11	12	J	ug/m3	10	6/29/2022 5:14:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/25/2022 3:58:00 AM
Methylene chloride	2.7	0.52		ug/m3	1	6/25/2022 3:58:00 AM
o-Xylene	12	6.5		ug/m3	10	6/29/2022 5:14:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/25/2022 3:58:00 AM
Styrene	1.5	0.64		ug/m3	1	6/25/2022 3:58:00 AM
Tetrachloroethylene	17	10		ug/m3	10	6/29/2022 5:14:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/25/2022 3:58:00 AM
Toluene	12	5.7		ug/m3	10	6/29/2022 5:14:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 3:58:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 3:58:00 AM
Trichloroethene	4.5	0.81		ug/m3	1	6/25/2022 3:58:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/25/2022 3:58:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/25/2022 3:58:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/25/2022 3:58:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-14
Lab Order:	C2206048	**Tag Number:**	327,113
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-015A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 4:42:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/25/2022 4:42:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 4:42:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 4:42:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 4:42:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/25/2022 4:42:00 AM
1,2,4-Trimethylbenzene	36	7.4		ug/m3	10	6/28/2022 12:53:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/25/2022 4:42:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 4:42:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 4:42:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/25/2022 4:42:00 AM
1,3,5-Trimethylbenzene	15	7.4		ug/m3	10	6/28/2022 12:53:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/25/2022 4:42:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 4:42:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 4:42:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/25/2022 4:42:00 AM
2,2,4-trimethylpentane	41	7.0		ug/m3	10	6/28/2022 12:53:00 PM
4-ethyltoluene	8.0	0.74		ug/m3	1	6/25/2022 4:42:00 AM
Acetone	670	570		ug/m3	810	6/29/2022 6:39:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/25/2022 4:42:00 AM
Benzene	24	4.8		ug/m3	10	6/28/2022 12:53:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/25/2022 4:42:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/25/2022 4:42:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/25/2022 4:42:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/25/2022 4:42:00 AM
Carbon disulfide	110	19		ug/m3	40	6/28/2022 1:35:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/25/2022 4:42:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/25/2022 4:42:00 AM
Chloroethane	2.5	0.40		ug/m3	1	6/25/2022 4:42:00 AM
Chloroform	0.83	0.73		ug/m3	1	6/25/2022 4:42:00 AM
Chloromethane	27	3.1		ug/m3	10	6/28/2022 12:53:00 PM
cis-1,2-Dichloroethene	7.1	0.59		ug/m3	1	6/25/2022 4:42:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 4:42:00 AM
Cyclohexane	74	21		ug/m3	40	6/28/2022 1:35:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/25/2022 4:42:00 AM
Ethyl acetate	< 0.54	0.54		ug/m3	1	6/25/2022 4:42:00 AM
Ethylbenzene	8.2	0.65		ug/m3	1	6/25/2022 4:42:00 AM
Freon 11	0.90	0.84		ug/m3	1	6/25/2022 4:42:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/25/2022 4:42:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/25/2022 4:42:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-14
Lab Order:	C2206048	**Tag Number:**	327,113
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-015A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.5	0.74		ug/m3	1	6/25/2022 4:42:00 AM
Heptane	72	6.1		ug/m3	10	6/28/2022 12:53:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/25/2022 4:42:00 AM
Hexane	130	21		ug/m3	40	6/28/2022 1:35:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/25/2022 4:42:00 AM
m&p-Xylene	28	13		ug/m3	10	6/28/2022 12:53:00 PM
Methyl Butyl Ketone	20	12		ug/m3	10	6/28/2022 12:53:00 PM
Methyl Ethyl Ketone	94	35		ug/m3	40	6/28/2022 1:35:00 PM
Methyl Isobutyl Ketone	760	980	J	ug/m3	810	6/29/2022 6:39:00 PM
Methyl tert-butyl ether	72	22		ug/m3	40	6/28/2022 1:35:00 PM
Methylene chloride	11	5.2		ug/m3	10	6/28/2022 12:53:00 PM
o-Xylene	19	6.5		ug/m3	10	6/28/2022 12:53:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/25/2022 4:42:00 AM
Styrene	5.5	0.64		ug/m3	1	6/25/2022 4:42:00 AM
Tetrachloroethylene	24	10		ug/m3	10	6/28/2022 12:53:00 PM
Tetrahydrofuran	37	4.4		ug/m3	10	6/28/2022 12:53:00 PM
Toluene	27	5.7		ug/m3	10	6/28/2022 12:53:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 4:42:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 4:42:00 AM
Trichloroethene	9.8	0.81		ug/m3	1	6/25/2022 4:42:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/25/2022 4:42:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/25/2022 4:42:00 AM
Vinyl chloride	33	3.8		ug/m3	10	6/28/2022 12:53:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-15
Lab Order:	C2206048	**Tag Number:**	465,109
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-016A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	0.98	0.82		ug/m3	1	6/25/2022 5:26:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/25/2022 5:26:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 5:26:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 5:26:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 5:26:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/25/2022 5:26:00 AM
1,2,4-Trimethylbenzene	1.4	0.74		ug/m3	1	6/25/2022 5:26:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/25/2022 5:26:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 5:26:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 5:26:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/25/2022 5:26:00 AM
1,3,5-Trimethylbenzene	1.2	0.74		ug/m3	1	6/25/2022 5:26:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/25/2022 5:26:00 AM
1,3-Dichlorobenzene	2.8	0.90		ug/m3	1	6/25/2022 5:26:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 5:26:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/25/2022 5:26:00 AM
2,2,4-trimethylpentane	0.98	0.70		ug/m3	1	6/25/2022 5:26:00 AM
4-ethyltoluene	0.49	0.74	J	ug/m3	1	6/25/2022 5:26:00 AM
Acetone	57	28		ug/m3	40	6/29/2022 8:04:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/25/2022 5:26:00 AM
Benzene	0.80	0.48		ug/m3	1	6/25/2022 5:26:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/25/2022 5:26:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/25/2022 5:26:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/25/2022 5:26:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/25/2022 5:26:00 AM
Carbon disulfide	13	4.7		ug/m3	10	6/29/2022 7:22:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/25/2022 5:26:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/25/2022 5:26:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	6/25/2022 5:26:00 AM
Chloroform	27	7.3		ug/m3	10	6/29/2022 7:22:00 PM
Chloromethane	1.3	0.31		ug/m3	1	6/25/2022 5:26:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 5:26:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 5:26:00 AM
Cyclohexane	3.7	0.52		ug/m3	1	6/25/2022 5:26:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/25/2022 5:26:00 AM
Ethyl acetate	1.5	0.54		ug/m3	1	6/25/2022 5:26:00 AM
Ethylbenzene	0.52	0.65	J	ug/m3	1	6/25/2022 5:26:00 AM
Freon 11	23	8.4		ug/m3	10	6/29/2022 7:22:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/25/2022 5:26:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/25/2022 5:26:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-15
Lab Order:	C2206048	**Tag Number:**	465,109
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-016A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.6	0.74		ug/m3	1	6/25/2022 5:26:00 AM
Heptane	3.7	0.61		ug/m3	1	6/25/2022 5:26:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/25/2022 5:26:00 AM
Hexane	7.8	5.3		ug/m3	10	6/29/2022 7:22:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/25/2022 5:26:00 AM
m&p-Xylene	2.3	1.3		ug/m3	1	6/25/2022 5:26:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/25/2022 5:26:00 AM
Methyl Ethyl Ketone	3.8	0.88		ug/m3	1	6/25/2022 5:26:00 AM
Methyl Isobutyl Ketone	3.8	1.2		ug/m3	1	6/25/2022 5:26:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/25/2022 5:26:00 AM
Methylene chloride	10	5.2		ug/m3	10	6/29/2022 7:22:00 PM
o-Xylene	0.78	0.65		ug/m3	1	6/25/2022 5:26:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/25/2022 5:26:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/25/2022 5:26:00 AM
Tetrachloroethylene	20	10		ug/m3	10	6/29/2022 7:22:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/25/2022 5:26:00 AM
Toluene	3.2	0.57		ug/m3	1	6/25/2022 5:26:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 5:26:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 5:26:00 AM
Trichloroethene	< 0.81	0.81		ug/m3	1	6/25/2022 5:26:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/25/2022 5:26:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/25/2022 5:26:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/25/2022 5:26:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-16
Lab Order:	C2206048	**Tag Number:**	98,151
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-017A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 6:10:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/25/2022 6:10:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 6:10:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 6:10:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 6:10:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/25/2022 6:10:00 AM
1,2,4-Trimethylbenzene	1.1	0.74		ug/m3	1	6/25/2022 6:10:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/25/2022 6:10:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 6:10:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 6:10:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/25/2022 6:10:00 AM
1,3,5-Trimethylbenzene	0.69	0.74	J	ug/m3	1	6/25/2022 6:10:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/25/2022 6:10:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 6:10:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 6:10:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/25/2022 6:10:00 AM
2,2,4-trimethylpentane	1.4	0.70		ug/m3	1	6/25/2022 6:10:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/25/2022 6:10:00 AM
Acetone	12	7.1		ug/m3	10	6/29/2022 8:47:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/25/2022 6:10:00 AM
Benzene	1.0	0.48		ug/m3	1	6/25/2022 6:10:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/25/2022 6:10:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/25/2022 6:10:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/25/2022 6:10:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/25/2022 6:10:00 AM
Carbon disulfide	160	19		ug/m3	40	6/29/2022 9:29:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/25/2022 6:10:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/25/2022 6:10:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	6/25/2022 6:10:00 AM
Chloroform	1.8	0.73		ug/m3	1	6/25/2022 6:10:00 AM
Chloromethane	1.5	0.31		ug/m3	1	6/25/2022 6:10:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 6:10:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 6:10:00 AM
Cyclohexane	1.2	0.52		ug/m3	1	6/25/2022 6:10:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/25/2022 6:10:00 AM
Ethyl acetate	1.7	0.54		ug/m3	1	6/25/2022 6:10:00 AM
Ethylbenzene	0.74	0.65		ug/m3	1	6/25/2022 6:10:00 AM
Freon 11	1.3	0.84		ug/m3	1	6/25/2022 6:10:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/25/2022 6:10:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/25/2022 6:10:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-16
Lab Order:	C2206048	**Tag Number:**	98,151
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-017A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.2	0.74		ug/m3	1	6/25/2022 6:10:00 AM
Heptane	0.94	0.61		ug/m3	1	6/25/2022 6:10:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/25/2022 6:10:00 AM
Hexane	1.0	0.53		ug/m3	1	6/25/2022 6:10:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/25/2022 6:10:00 AM
m&p-Xylene	2.4	1.3		ug/m3	1	6/25/2022 6:10:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/25/2022 6:10:00 AM
Methyl Ethyl Ketone	1.3	0.88		ug/m3	1	6/25/2022 6:10:00 AM
Methyl Isobutyl Ketone	0.94	1.2	J	ug/m3	1	6/25/2022 6:10:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/25/2022 6:10:00 AM
Methylene chloride	5.8	0.52		ug/m3	1	6/25/2022 6:10:00 AM
o-Xylene	0.91	0.65		ug/m3	1	6/25/2022 6:10:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/25/2022 6:10:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/25/2022 6:10:00 AM
Tetrachloroethylene	0.88	1.0	J	ug/m3	1	6/25/2022 6:10:00 AM
Tetrahydrofuran	0.77	0.44		ug/m3	1	6/25/2022 6:10:00 AM
Toluene	5.2	0.57		ug/m3	1	6/25/2022 6:10:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 6:10:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 6:10:00 AM
Trichloroethene	< 0.81	0.81		ug/m3	1	6/25/2022 6:10:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/25/2022 6:10:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/25/2022 6:10:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/25/2022 6:10:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	AS-1
Lab Order:	C2206048	**Tag Number:**	1182,453
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-018A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 12:22:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/24/2022 12:22:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 12:22:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 12:22:00 PM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	6/24/2022 12:22:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/24/2022 12:22:00 PM
1,2,4-Trimethylbenzene	0.54	0.74	J	ug/m3	1	6/24/2022 12:22:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/24/2022 12:22:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 12:22:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 12:22:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/24/2022 12:22:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/24/2022 12:22:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/24/2022 12:22:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 12:22:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 12:22:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/24/2022 12:22:00 PM
2,2,4-trimethylpentane	0.61	0.70	J	ug/m3	1	6/24/2022 12:22:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/24/2022 12:22:00 PM
Acetone	19	7.1		ug/m3	10	6/25/2022 7:37:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/24/2022 12:22:00 PM
Benzene	0.61	0.48		ug/m3	1	6/24/2022 12:22:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/24/2022 12:22:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/24/2022 12:22:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/24/2022 12:22:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/24/2022 12:22:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	6/24/2022 12:22:00 PM
Carbon tetrachloride	0.63	0.19		ug/m3	1	6/24/2022 12:22:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/24/2022 12:22:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/24/2022 12:22:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	6/24/2022 12:22:00 PM
Chloromethane	0.95	0.31		ug/m3	1	6/24/2022 12:22:00 PM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	6/24/2022 12:22:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 12:22:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/24/2022 12:22:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/24/2022 12:22:00 PM
Ethyl acetate	1.2	0.54		ug/m3	1	6/24/2022 12:22:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	6/24/2022 12:22:00 PM
Freon 11	1.3	0.84		ug/m3	1	6/24/2022 12:22:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/24/2022 12:22:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/24/2022 12:22:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	AS-1
Lab Order:	C2206048	**Tag Number:**	1182,453
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-018A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
Freon 12	2.2	0.74		ug/m3	1	6/24/2022 12:22:00 PM
Heptane	0.57	0.61	J	ug/m3	1	6/24/2022 12:22:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/24/2022 12:22:00 PM
Hexane	0.78	0.53		ug/m3	1	6/24/2022 12:22:00 PM
Isopropyl alcohol	3.5	0.37		ug/m3	1	6/24/2022 12:22:00 PM
m&p-Xylene	1.0	1.3	J	ug/m3	1	6/24/2022 12:22:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 12:22:00 PM
Methyl Ethyl Ketone	1.2	0.88		ug/m3	1	6/24/2022 12:22:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 12:22:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/24/2022 12:22:00 PM
Methylene chloride	1.3	0.52		ug/m3	1	6/24/2022 12:22:00 PM
o-Xylene	0.48	0.65	J	ug/m3	1	6/24/2022 12:22:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/24/2022 12:22:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/24/2022 12:22:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/24/2022 12:22:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/24/2022 12:22:00 PM
Toluene	3.4	0.57		ug/m3	1	6/24/2022 12:22:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 12:22:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 12:22:00 PM
Trichloroethene	< 0.16	0.16		ug/m3	1	6/24/2022 12:22:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/24/2022 12:22:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/24/2022 12:22:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/24/2022 12:22:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	AS-2
Lab Order:	C2206048	**Tag Number:**	85,1152
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-019A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 1:06:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/24/2022 1:06:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 1:06:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 1:06:00 PM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	6/24/2022 1:06:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/24/2022 1:06:00 PM
1,2,4-Trimethylbenzene	0.54	0.74	J	ug/m3	1	6/24/2022 1:06:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/24/2022 1:06:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 1:06:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 1:06:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/24/2022 1:06:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/24/2022 1:06:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/24/2022 1:06:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 1:06:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 1:06:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/24/2022 1:06:00 PM
2,2,4-trimethylpentane	0.61	0.70	J	ug/m3	1	6/24/2022 1:06:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/24/2022 1:06:00 PM
Acetone	17	7.1		ug/m3	10	6/25/2022 8:20:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/24/2022 1:06:00 PM
Benzene	0.83	0.48		ug/m3	1	6/24/2022 1:06:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/24/2022 1:06:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/24/2022 1:06:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/24/2022 1:06:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/24/2022 1:06:00 PM
Carbon disulfide	0.31	0.47	J	ug/m3	1	6/24/2022 1:06:00 PM
Carbon tetrachloride	0.63	0.19		ug/m3	1	6/24/2022 1:06:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/24/2022 1:06:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/24/2022 1:06:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	6/24/2022 1:06:00 PM
Chloromethane	0.93	0.31		ug/m3	1	6/24/2022 1:06:00 PM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	6/24/2022 1:06:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 1:06:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/24/2022 1:06:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/24/2022 1:06:00 PM
Ethyl acetate	1.3	0.54		ug/m3	1	6/24/2022 1:06:00 PM
Ethylbenzene	0.48	0.65	J	ug/m3	1	6/24/2022 1:06:00 PM
Freon 11	1.4	0.84		ug/m3	1	6/24/2022 1:06:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/24/2022 1:06:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/24/2022 1:06:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	AS-2
Lab Order:	C2206048	**Tag Number:**	85,1152
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-019A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
Freon 12	2.3	0.74		ug/m3	1	6/24/2022 1:06:00 PM
Heptane	0.78	0.61		ug/m3	1	6/24/2022 1:06:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/24/2022 1:06:00 PM
Hexane	0.74	0.53		ug/m3	1	6/24/2022 1:06:00 PM
Isopropyl alcohol	3.2	0.37		ug/m3	1	6/24/2022 1:06:00 PM
m&p-Xylene	1.4	1.3		ug/m3	1	6/24/2022 1:06:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 1:06:00 PM
Methyl Ethyl Ketone	1.3	0.88		ug/m3	1	6/24/2022 1:06:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 1:06:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/24/2022 1:06:00 PM
Methylene chloride	1.3	0.52		ug/m3	1	6/24/2022 1:06:00 PM
o-Xylene	0.56	0.65	J	ug/m3	1	6/24/2022 1:06:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/24/2022 1:06:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/24/2022 1:06:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/24/2022 1:06:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/24/2022 1:06:00 PM
Toluene	3.7	0.57		ug/m3	1	6/24/2022 1:06:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 1:06:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 1:06:00 PM
Trichloroethene	< 0.16	0.16		ug/m3	1	6/24/2022 1:06:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/24/2022 1:06:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/24/2022 1:06:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/24/2022 1:06:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	TB-1
Lab Order:	C2206048	**Tag Number:**	158
Project:	IKEA Red Hook	**Collection Date:**	
Lab ID:	C2206048-020A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/29/2022 3:21:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/29/2022 3:21:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/29/2022 3:21:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/29/2022 3:21:00 AM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	6/29/2022 3:21:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/29/2022 3:21:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/29/2022 3:21:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/29/2022 3:21:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/29/2022 3:21:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/29/2022 3:21:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/29/2022 3:21:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/29/2022 3:21:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/29/2022 3:21:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/29/2022 3:21:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/29/2022 3:21:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/29/2022 3:21:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	6/29/2022 3:21:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/29/2022 3:21:00 AM
Acetone	< 0.71	0.71		ug/m3	1	6/29/2022 3:21:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/29/2022 3:21:00 AM
Benzene	< 0.48	0.48		ug/m3	1	6/29/2022 3:21:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/29/2022 3:21:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/29/2022 3:21:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/29/2022 3:21:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/29/2022 3:21:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	6/29/2022 3:21:00 AM
Carbon tetrachloride	< 0.19	0.19		ug/m3	1	6/29/2022 3:21:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/29/2022 3:21:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	6/29/2022 3:21:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	6/29/2022 3:21:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	6/29/2022 3:21:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	6/29/2022 3:21:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/29/2022 3:21:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/29/2022 3:21:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/29/2022 3:21:00 AM
Ethyl acetate	< 0.54	0.54		ug/m3	1	6/29/2022 3:21:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	6/29/2022 3:21:00 AM
Freon 11	< 0.84	0.84		ug/m3	1	6/29/2022 3:21:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/29/2022 3:21:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/29/2022 3:21:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	TB-1
Lab Order:	C2206048	**Tag Number:**	158
Project:	IKEA Red Hook	**Collection Date:**	
Lab ID:	C2206048-020A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
Freon 12	< 0.74	0.74		ug/m3	1	6/29/2022 3:21:00 AM
Heptane	< 0.61	0.61		ug/m3	1	6/29/2022 3:21:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/29/2022 3:21:00 AM
Hexane	< 0.53	0.53		ug/m3	1	6/29/2022 3:21:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/29/2022 3:21:00 AM
m&p-Xylene	< 1.3	1.3		ug/m3	1	6/29/2022 3:21:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/29/2022 3:21:00 AM
Methyl Ethyl Ketone	< 0.88	0.88		ug/m3	1	6/29/2022 3:21:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/29/2022 3:21:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/29/2022 3:21:00 AM
Methylene chloride	< 0.52	0.52		ug/m3	1	6/29/2022 3:21:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	6/29/2022 3:21:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/29/2022 3:21:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/29/2022 3:21:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/29/2022 3:21:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/29/2022 3:21:00 AM
Toluene	< 0.57	0.57		ug/m3	1	6/29/2022 3:21:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/29/2022 3:21:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/29/2022 3:21:00 AM
Trichloroethene	< 0.16	0.16		ug/m3	1	6/29/2022 3:21:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/29/2022 3:21:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/29/2022 3:21:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/29/2022 3:21:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek Labs - Chain of Custody

Centek Laboratories
143 Midler Park Drive
Syracuse, NY 13206
315-431-9730
www.CentekLabs.com
Vapor Intrusion & IAQ

Site Name:	IKEA
Project:	Red Hook
PO#:	08-397
Quote #	Q- SP
Canister Order #:	5366

Detection Limit	Report Level
☐ 5ppbv	☐ Level I
☒ 1ug/M3	☐ Level II
☐ 1ug/M3 + 0.2 NYS	☑ Cat "B" Like
☐	☐

TAT Turnaround Time:	Check One	Rush TAT Surcharge %	Due Date:
5 Business Days	☑	0%	
4 Business Days	☐	25%	
3 Business Days	☐	50%	
2 Business Days	☐	75%	
*Next Day by 5pm	☐	100%	
*Next Day by Noon	☐	150%	
*Same Day	☐	200%	

*For Same and Next Day TAT Please Notify Lab

Company:	Soil Mech
Report to:	
Address:	3220 Merrick Rd.
City, State, Zip	Seaford N.Y. 11783
Email:	soilmechenv@earthlink.net
Phone:	516-221-2500

Company:	
Check Here If Same:	☐
Invoice to:	
Address:	
City, State, Zip	
Email:	
Phone:	

Sample ID	Date Sampled	Canister Number	Regulator Number	Analysis Request	Field Vacuum Start / Stop	Labs Vacuum** Rec'V/Analysis	Comments
Svw-1	6-21-22	569	1165	To 15 + Helium	30 / 17	-16 /	
Svw-1 Dup	↑	131	1165	↑	30 / 17	-16 /	Duplicate
Svw-2 MS/MSD		1207	1346		30 / 9	-6 /	Matrix spike + Dup
Svw-3		1175	310		30 / 1	-1 /	
Svw-4		1317	120		29 / 1	-1 /	
Svw-5		245	155		30 / 5	-4 /	
Svw-6		237	124		30 / 2	-1 /	
Svw-7		1450	125		24 / 3	0 /	
Svw-8		242	187		30 / 3	-2 /	
Svw-9		362	1153		30 / 14	-12 /	
Svw-10		162	80		30 / 0	0 /	
Svw-11		320	48		30+ / 4	-1 /	
Svw-12		234	147		30 / 17	-14 /	
Svw-13		1192	175		30+ / 5	-3 /	
Svw-14		327	113		30+ / 6	-6 /	
Svw-15		465	109		30+ / 3	-1 /	
Svw-16	↓	98	151	↓	30 / 4	-4 /	
					/	/	

Chain of Custody	Print Name	Signature	Date/Time
Sampled by:	Steve Anderson		
Relinquished by:	Steve Anderson		6-21-22
Received at Lab by:	Robin Gushlaw	Robin Gushlaw	6/23/22

Courier: CIRCLE ONE
FedEx UPS Pickup/Dropoff

**For LAB USE ONLY
Work Order # C2206048

***Chain of Custody must be completed in full. Lack of any missing information will affect your Turn Around Times (TAT)

*** By signing Centek Labs Chain of Custody, you are accepting Centek Labs Terms and Conditions listed on the reverse side.

Centek Labs - Chain of Custody

Centek Laboratories
143 Midler Park Drive
Syracuse, NY 13206
315-431-9730
www.CentekLabs.com
Vapor Intrusion & IAQ

Site Name: IKEA
Project: Red Hook
PO#: 08-737
Quote #: Q-SP
Canister Order #: 9360

Detection Limit	Report Level
☐ 5ppbv	☐ Level I
☒ 1ug/M3	☐ Level II
☐ 1ug/M3 + 0.2 NYS	☒ Cat "B" Like
☐	☐

TAT Turnaround Time:	Check One	Rush TAT Surcharge %	Due Date:
5 Business Days	☑	0%	
4 Business Days	☐	25%	
3 Business Days	☐	50%	
2 Business Days	☐	75%	
*Next Day by 5pm	☐	100%	
*Next Day by Noon	☐	150%	
*Same Day	☐	200%	

*For Same and Next Day TAT Please Notify Lab

Company: Soil Mech

Report to:
Address: 3770 Merrick rd.
City, State, Zip Seaford NY 11783
Email: Soilmechenv@earthlink.net
Phone: 516-221-7600

Company:
Check Here If Same: ☐

Invoice to:
Address:
City, State, Zip
Email:
Phone:

Sample ID	Date Sampled	Canister Number	Regulator Number	Analysis Request	Field Vacuum Start / Stop	Labs Vacuum** Rec'd/Analysis	Comments
					/	/	
					/	/	
AS-1	6-21-22	1182	453		30 / 2	-1 /	
AS-2	↑	85	1152		28 / 0	-1 /	
TR-1	↓	153			/	+1? /	Trip Blank
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	

Chain of Custody	Print Name	Signature	Date/Time
Sampled by:	Steve Nelson		
Relinquished by:	Steve Nelson		6-21-22
Received at Lab by:	Robin Bushlow	Robin Bushlow	6/23/22

Courier: CIRCLE ONE
FedEx UPS Pickup/Dropoff

**For LAB USE ONLY
Work Order # C2206048

***Chain of Custody must be completed in full. Lack of any missing information will affect your Turn Around Times (TAT)

*** By signing Centek Labs Chain of Custody, you are accepting Centek Labs Terms and Conditions listed on the reverse side.

This Page Intentionally Blank

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-1
Lab Order:	C2206048	**Tag Number:**	569,1165
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-001A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-16			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		**GC**				Analyst: **NP**
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,1,2,2-Tetrachloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,1,2-Trichloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,1-Dichloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,1-Dichloroethene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,2,4-Trichlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,2,4-Trimethylbenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,2-Dibromoethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,2-Dichlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,2-Dichloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,2-Dichloropropane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,3,5-Trimethylbenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,3-butadiene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,3-Dichlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,4-Dichlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,4-Dioxane	< 0.25	0.25		ppbV	0.83	6/24/2022 4:49:00 PM
2,2,4-trimethylpentane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
4-ethyltoluene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Acetone	3.5	1.2		ppbV	4	6/29/2022 4:08:00 AM
Allyl chloride	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Benzene	0.083	0.12	J	ppbV	0.83	6/24/2022 4:49:00 PM
Benzyl chloride	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Bromodichloromethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Bromoform	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Bromomethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Carbon disulfide	0.21	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Carbon tetrachloride	0.39	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Chlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Chloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Chloroform	0.40	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Chloromethane	0.12	0.12	J	ppbV	0.83	6/24/2022 4:49:00 PM
cis-1,2-Dichloroethene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
cis-1,3-Dichloropropene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Cyclohexane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-1
Lab Order:	C2206048	**Tag Number:**	569,1165
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-001A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Ethyl acetate	0.32	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Ethylbenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Freon 11	0.83	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Freon 113	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Freon 114	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Freon 12	0.44	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Heptane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Hexachloro-1,3-butadiene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Hexane	0.13	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Isopropyl alcohol	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
m&p-Xylene	0.13	0.25	J	ppbV	0.83	6/24/2022 4:49:00 PM
Methyl Butyl Ketone	< 0.25	0.25		ppbV	0.83	6/24/2022 4:49:00 PM
Methyl Ethyl Ketone	0.22	0.25	J	ppbV	0.83	6/24/2022 4:49:00 PM
Methyl Isobutyl Ketone	0.30	0.25		ppbV	0.83	6/24/2022 4:49:00 PM
Methyl tert-butyl ether	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Methylene chloride	0.35	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
o-Xylene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Propylene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Styrene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Tetrachloroethylene	0.13	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Tetrahydrofuran	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Toluene	0.66	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
trans-1,2-Dichloroethene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
trans-1,3-Dichloropropene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Trichloroethene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Vinyl acetate	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Vinyl Bromide	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Vinyl chloride	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Surr: Bromofluorobenzene	90.0	46.7-129		%REC	0.83	6/24/2022 4:49:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-1 Dup
Lab Order:	C2206048	**Tag Number:**	131,1165
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-002A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-16			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		**GC**				Analyst: **NP**
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,1,2,2-Tetrachloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,1,2-Trichloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,1-Dichloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,1-Dichloroethene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,2,4-Trichlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,2,4-Trimethylbenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,2-Dibromoethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,2-Dichlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,2-Dichloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,2-Dichloropropane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,3,5-Trimethylbenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,3-butadiene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,3-Dichlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,4-Dichlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,4-Dioxane	< 0.25	0.25		ppbV	0.83	6/24/2022 6:04:00 PM
2,2,4-trimethylpentane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
4-ethyltoluene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Acetone	1.7	0.25		ppbV	0.83	6/24/2022 6:04:00 PM
Allyl chloride	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Benzene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Benzyl chloride	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Bromodichloromethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Bromoform	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Bromomethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Carbon disulfide	0.12	0.12	J	ppbV	0.83	6/24/2022 6:04:00 PM
Carbon tetrachloride	0.39	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Chlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Chloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Chloroform	0.40	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Chloromethane	0.22	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
cis-1,2-Dichloroethene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
cis-1,3-Dichloropropene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Cyclohexane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-1 Dup
Lab Order:	C2206048	**Tag Number:**	131,1165
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-002A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Ethyl acetate	0.25	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Ethylbenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Freon 11	0.84	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Freon 113	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Freon 114	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Freon 12	0.46	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Heptane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Hexachloro-1,3-butadiene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Hexane	0.11	0.12	J	ppbV	0.83	6/24/2022 6:04:00 PM
Isopropyl alcohol	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
m&p-Xylene	0.12	0.25	J	ppbV	0.83	6/24/2022 6:04:00 PM
Methyl Butyl Ketone	< 0.25	0.25		ppbV	0.83	6/24/2022 6:04:00 PM
Methyl Ethyl Ketone	0.19	0.25	J	ppbV	0.83	6/24/2022 6:04:00 PM
Methyl Isobutyl Ketone	< 0.25	0.25		ppbV	0.83	6/24/2022 6:04:00 PM
Methyl tert-butyl ether	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Methylene chloride	0.20	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
o-Xylene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Propylene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Styrene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Tetrachloroethylene	0.24	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Tetrahydrofuran	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Toluene	0.56	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
trans-1,2-Dichloroethene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
trans-1,3-Dichloropropene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Trichloroethene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Vinyl acetate	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Vinyl Bromide	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Vinyl chloride	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Surr: Bromofluorobenzene	88.0	46.7-129		%REC	0.83	6/24/2022 6:04:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-2 MS/MSD
Lab Order:	C2206048	**Tag Number:**	1207,1346
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-003A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-6			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		**GC**				Analyst: **NP**
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/24/2022 1:51:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Acetone	19	3.0		ppbV	10	6/27/2022 2:02:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Benzene	0.35	0.15		ppbV	1	6/24/2022 1:51:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Carbon disulfide	0.10	0.15	J	ppbV	1	6/24/2022 1:51:00 PM
Carbon tetrachloride	0.35	0.15		ppbV	1	6/24/2022 1:51:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Chloroform	0.80	0.15		ppbV	1	6/24/2022 1:51:00 PM
Chloromethane	0.44	0.15		ppbV	1	6/24/2022 1:51:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-2 MS/MSD
Lab Order:	C2206048	**Tag Number:**	1207,1346
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-003A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Ethyl acetate	0.33	0.15		ppbV	1	6/24/2022 1:51:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Freon 11	0.63	0.15		ppbV	1	6/24/2022 1:51:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Freon 12	0.50	0.15		ppbV	1	6/24/2022 1:51:00 PM
Heptane	0.17	0.15		ppbV	1	6/24/2022 1:51:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Hexane	0.21	0.15		ppbV	1	6/24/2022 1:51:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
m&p-Xylene	0.19	0.30	J	ppbV	1	6/24/2022 1:51:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 1:51:00 PM
Methyl Ethyl Ketone	0.31	0.30		ppbV	1	6/24/2022 1:51:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 1:51:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Methylene chloride	0.51	0.15		ppbV	1	6/24/2022 1:51:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Tetrachloroethylene	0.26	0.15		ppbV	1	6/24/2022 1:51:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Toluene	0.77	0.15		ppbV	1	6/24/2022 1:51:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Trichloroethene	0.23	0.15		ppbV	1	6/24/2022 1:51:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Surr: Bromofluorobenzene	92.0	46.7-129		%REC	1	6/24/2022 1:51:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-3
Lab Order:	C2206048	**Tag Number:**	1175,310
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-004A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-1			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		**GC**				Analyst: **NP**
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	0.17	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,1,2-Trichloroethane	0.19	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,2,4-Trimethylbenzene	0.17	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,2-Dichloroethane	0.71	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,2-Dichloropropane	1.4	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,3-Dichlorobenzene	0.43	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/24/2022 6:48:00 PM
2,2,4-trimethylpentane	0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Acetone	41	6.0		ppbV	20	6/28/2022 12:09:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Benzene	0.18	0.15		ppbV	1	6/24/2022 6:48:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Carbon disulfide	10	3.0		ppbV	20	6/28/2022 12:09:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Chloroethane	0.27	0.15		ppbV	1	6/24/2022 6:48:00 PM
Chloroform	1.2	0.15		ppbV	1	6/24/2022 6:48:00 PM
Chloromethane	0.51	0.15		ppbV	1	6/24/2022 6:48:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Cyclohexane	0.28	0.15		ppbV	1	6/24/2022 6:48:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-3
Lab Order:	C2206048	**Tag Number:**	1175,310
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-004A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Ethyl acetate	0.35	0.15		ppbV	1	6/24/2022 6:48:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Freon 11	1.7	0.15		ppbV	1	6/24/2022 6:48:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Freon 12	0.60	0.15		ppbV	1	6/24/2022 6:48:00 PM
Heptane	0.14	0.15	J	ppbV	1	6/24/2022 6:48:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Hexane	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
m&p-Xylene	0.21	0.30	J	ppbV	1	6/24/2022 6:48:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 6:48:00 PM
Methyl Ethyl Ketone	1.5	0.30		ppbV	1	6/24/2022 6:48:00 PM
Methyl Isobutyl Ketone	0.40	0.30		ppbV	1	6/24/2022 6:48:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Methylene chloride	0.85	0.15		ppbV	1	6/24/2022 6:48:00 PM
o-Xylene	0.11	0.15	J	ppbV	1	6/24/2022 6:48:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Tetrachloroethylene	0.45	0.15		ppbV	1	6/24/2022 6:48:00 PM
Tetrahydrofuran	1.7	0.15		ppbV	1	6/24/2022 6:48:00 PM
Toluene	0.63	0.15		ppbV	1	6/24/2022 6:48:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Trichloroethene	0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Surr: Bromofluorobenzene	93.0	46.7-129		%REC	1	6/24/2022 6:48:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-4
Lab Order:	C2206048	**Tag Number:**	1317,120
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-005A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-1			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		**GC**				Analyst: **NP**
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,2,4-Trimethylbenzene	0.12	0.15	J	ppbV	1	6/24/2022 7:32:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,4-Dichlorobenzene	0.42	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/24/2022 7:32:00 PM
2,2,4-trimethylpentane	0.23	0.15		ppbV	1	6/24/2022 7:32:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Acetone	35	6.0		ppbV	20	6/28/2022 12:51:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Benzene	0.34	0.15		ppbV	1	6/24/2022 7:32:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Carbon disulfide	11	3.0		ppbV	20	6/28/2022 12:51:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Chlorobenzene	0.54	0.15		ppbV	1	6/24/2022 7:32:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Chloroform	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Cyclohexane	0.26	0.15		ppbV	1	6/24/2022 7:32:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-4
Lab Order:	C2206048	**Tag Number:**	1317,120
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-005A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Ethyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Freon 11	0.32	0.15		ppbV	1	6/24/2022 7:32:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Freon 12	0.67	0.15		ppbV	1	6/24/2022 7:32:00 PM
Heptane	0.26	0.15		ppbV	1	6/24/2022 7:32:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Hexane	1.5	0.15		ppbV	1	6/24/2022 7:32:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
m&p-Xylene	0.30	0.30		ppbV	1	6/24/2022 7:32:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 7:32:00 PM
Methyl Ethyl Ketone	0.92	0.30		ppbV	1	6/24/2022 7:32:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 7:32:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Methylene chloride	0.25	0.15		ppbV	1	6/24/2022 7:32:00 PM
o-Xylene	0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Tetrachloroethylene	0.11	0.15	J	ppbV	1	6/24/2022 7:32:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Toluene	1.4	0.15		ppbV	1	6/24/2022 7:32:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Surr: Bromofluorobenzene	99.0	46.7-129		%REC	1	6/24/2022 7:32:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-5
Lab Order:	C2206048	**Tag Number:**	245,155
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-006A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-4			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		**GC**				Analyst: **NP**
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,3-Dichlorobenzene	0.16	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/24/2022 8:16:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Acetone	20	3.0		ppbV	10	6/28/2022 1:33:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Benzene	0.17	0.15		ppbV	1	6/24/2022 8:16:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Carbon disulfide	1.1	0.15		ppbV	1	6/24/2022 8:16:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Chloroform	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-5
Lab Order:	C2206048	**Tag Number:**	245,155
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-006A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Ethyl acetate	0.37	0.15		ppbV	1	6/24/2022 8:16:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Freon 11	0.63	0.15		ppbV	1	6/24/2022 8:16:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Freon 12	0.55	0.15		ppbV	1	6/24/2022 8:16:00 PM
Heptane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Hexane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
m&p-Xylene	0.21	0.30	J	ppbV	1	6/24/2022 8:16:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 8:16:00 PM
Methyl Ethyl Ketone	0.70	0.30		ppbV	1	6/24/2022 8:16:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 8:16:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Methylene chloride	0.26	0.15		ppbV	1	6/24/2022 8:16:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Tetrachloroethylene	0.24	0.15		ppbV	1	6/24/2022 8:16:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Toluene	0.74	0.15		ppbV	1	6/24/2022 8:16:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Surr: Bromofluorobenzene	92.0	46.7-129		%REC	1	6/24/2022 8:16:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-6
Lab Order:	C2206048	**Tag Number:**	237,124
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-007A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-1			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		**GC**				Analyst: **NP**
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,2,4-Trimethylbenzene	2.2	3.0	J	ppbV	20	6/28/2022 2:16:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,3,5-Trimethylbenzene	0.78	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/24/2022 9:00:00 PM
2,2,4-trimethylpentane	0.36	0.15		ppbV	1	6/24/2022 9:00:00 PM
4-ethyltoluene	0.79	0.15		ppbV	1	6/24/2022 9:00:00 PM
Acetone	17	6.0		ppbV	20	6/28/2022 2:16:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Benzene	0.86	0.15		ppbV	1	6/24/2022 9:00:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Carbon disulfide	0.33	0.15		ppbV	1	6/24/2022 9:00:00 PM
Carbon tetrachloride	0.11	0.15	J	ppbV	1	6/24/2022 9:00:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Chloroform	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Chloromethane	0.64	0.15		ppbV	1	6/24/2022 9:00:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Cyclohexane	0.33	0.15		ppbV	1	6/24/2022 9:00:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-6
Lab Order:	C2206048	**Tag Number:**	237,124
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-007A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Ethyl acetate	1.1	0.15		ppbV	1	6/24/2022 9:00:00 PM
Ethylbenzene	1.8	0.15		ppbV	1	6/24/2022 9:00:00 PM
Freon 11	0.27	0.15		ppbV	1	6/24/2022 9:00:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Freon 12	0.50	0.15		ppbV	1	6/24/2022 9:00:00 PM
Heptane	1.4	0.15		ppbV	1	6/24/2022 9:00:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Hexane	0.45	0.15		ppbV	1	6/24/2022 9:00:00 PM
Isopropyl alcohol	30	3.0		ppbV	20	6/28/2022 2:16:00 AM
m&p-Xylene	4.0	6.0	J	ppbV	20	6/28/2022 2:16:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 9:00:00 PM
Methyl Ethyl Ketone	1.7	0.30		ppbV	1	6/24/2022 9:00:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 9:00:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Methylene chloride	0.29	0.15		ppbV	1	6/24/2022 9:00:00 PM
o-Xylene	2.2	3.0	J	ppbV	20	6/28/2022 2:16:00 AM
Propylene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Tetrahydrofuran	0.76	0.15		ppbV	1	6/24/2022 9:00:00 PM
Toluene	6.2	3.0		ppbV	20	6/28/2022 2:16:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Surr: Bromofluorobenzene	100	46.7-129		%REC	1	6/24/2022 9:00:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-7
Lab Order:	C2206048	**Tag Number:**	1450,125
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-008A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	0			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		**GC**				Analyst: **NP**
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,2,4-Trimethylbenzene	0.67	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,2-Dichloroethane	0.20	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,3,5-Trimethylbenzene	0.27	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/27/2022 12:39:00 PM
2,2,4-trimethylpentane	0.50	0.15		ppbV	1	6/27/2022 12:39:00 PM
4-ethyltoluene	0.19	0.15		ppbV	1	6/27/2022 12:39:00 PM
Acetone	17	3.0		ppbV	10	6/28/2022 2:58:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Benzene	0.86	0.15		ppbV	1	6/27/2022 12:39:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Carbon disulfide	1.1	1.5	J	ppbV	10	6/28/2022 2:58:00 AM
Carbon tetrachloride	0.16	0.15		ppbV	1	6/27/2022 12:39:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Chloroform	0.23	0.15		ppbV	1	6/27/2022 12:39:00 PM
Chloromethane	0.50	0.15		ppbV	1	6/27/2022 12:39:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Cyclohexane	0.76	0.15		ppbV	1	6/27/2022 12:39:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-7
Lab Order:	C2206048	**Tag Number:**	1450,125
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-008A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Ethyl acetate	< 1.5	1.5		ppbV	10	6/28/2022 2:58:00 AM
Ethylbenzene	0.81	0.15		ppbV	1	6/27/2022 12:39:00 PM
Freon 11	0.45	0.15		ppbV	1	6/27/2022 12:39:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Freon 12	0.35	0.15		ppbV	1	6/27/2022 12:39:00 PM
Heptane	0.85	0.15		ppbV	1	6/27/2022 12:39:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Hexane	1.1	0.15		ppbV	1	6/27/2022 12:39:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
m&p-Xylene	2.7	0.30		ppbV	1	6/27/2022 12:39:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/27/2022 12:39:00 PM
Methyl Ethyl Ketone	1.4	3.0	J	ppbV	10	6/28/2022 2:58:00 AM
Methyl Isobutyl Ketone	1.3	3.0	J	ppbV	10	6/28/2022 2:58:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Methylene chloride	1.7	0.15		ppbV	1	6/27/2022 12:39:00 PM
o-Xylene	0.97	0.15		ppbV	1	6/27/2022 12:39:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Styrene	0.59	0.15		ppbV	1	6/27/2022 12:39:00 PM
Tetrachloroethylene	0.35	0.15		ppbV	1	6/27/2022 12:39:00 PM
Tetrahydrofuran	1.1	0.15		ppbV	1	6/27/2022 12:39:00 PM
Toluene	7.4	1.5		ppbV	10	6/28/2022 2:58:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Trichloroethene	0.16	0.15		ppbV	1	6/27/2022 12:39:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Surr: Bromofluorobenzene	96.0	46.7-129		%REC	1	6/27/2022 12:39:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-8
Lab Order:	C2206048	**Tag Number:**	242,187
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-009A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-2			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		**GC**				Analyst: **NP**
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,2,4-Trimethylbenzene	0.28	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,3-Dichlorobenzene	0.35	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,4-Dichlorobenzene	0.12	0.15	J	ppbV	1	6/24/2022 10:59:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/24/2022 10:59:00 PM
2,2,4-trimethylpentane	0.17	0.15		ppbV	1	6/24/2022 10:59:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Acetone	28	12		ppbV	40	6/28/2022 5:05:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Benzene	0.60	0.15		ppbV	1	6/24/2022 10:59:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Carbon disulfide	14	1.5		ppbV	10	6/28/2022 4:23:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Chloroform	0.14	0.15	J	ppbV	1	6/24/2022 10:59:00 PM
Chloromethane	0.64	0.15		ppbV	1	6/24/2022 10:59:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-8
Lab Order:	C2206048	**Tag Number:**	242,187
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-009A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Ethyl acetate	0.55	0.15		ppbV	1	6/24/2022 10:59:00 PM
Ethylbenzene	0.10	0.15	J	ppbV	1	6/24/2022 10:59:00 PM
Freon 11	0.28	0.15		ppbV	1	6/24/2022 10:59:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Freon 12	0.47	0.15		ppbV	1	6/24/2022 10:59:00 PM
Heptane	0.21	0.15		ppbV	1	6/24/2022 10:59:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Hexane	1.0	0.15		ppbV	1	6/24/2022 10:59:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
m&p-Xylene	0.33	0.30		ppbV	1	6/24/2022 10:59:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 10:59:00 PM
Methyl Ethyl Ketone	1.3	0.30		ppbV	1	6/24/2022 10:59:00 PM
Methyl Isobutyl Ketone	1.0	0.30		ppbV	1	6/24/2022 10:59:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Methylene chloride	0.38	0.15		ppbV	1	6/24/2022 10:59:00 PM
o-Xylene	0.14	0.15	J	ppbV	1	6/24/2022 10:59:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Tetrachloroethylene	0.31	0.15		ppbV	1	6/24/2022 10:59:00 PM
Tetrahydrofuran	1.4	1.5	J	ppbV	10	6/28/2022 4:23:00 AM
Toluene	1.1	0.15		ppbV	1	6/24/2022 10:59:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Surr: Bromofluorobenzene	95.0	46.7-129		%REC	1	6/24/2022 10:59:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-9
Lab Order:	C2206048	**Tag Number:**	362,1153
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-010A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-12			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		**GC**				Analyst: **NP**
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,2,4-Trimethylbenzene	3.9	1.5		ppbV	10	6/29/2022 2:17:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,3,5-Trimethylbenzene	1.9	1.5		ppbV	10	6/29/2022 2:17:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,3-Dichlorobenzene	0.70	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/24/2022 11:47:00 PM
2,2,4-trimethylpentane	0.44	0.15		ppbV	1	6/24/2022 11:47:00 PM
4-ethyltoluene	1.1	0.15		ppbV	1	6/24/2022 11:47:00 PM
Acetone	220	240	J	ppbV	810	6/29/2022 3:04:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Benzene	2.0	1.5		ppbV	10	6/29/2022 2:17:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Carbon disulfide	78	6.0		ppbV	40	6/28/2022 5:47:00 AM
Carbon tetrachloride	0.14	0.15	J	ppbV	1	6/24/2022 11:47:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Chloroethane	0.47	0.15		ppbV	1	6/24/2022 11:47:00 PM
Chloroform	0.94	0.15		ppbV	1	6/24/2022 11:47:00 PM
Chloromethane	0.71	0.15		ppbV	1	6/24/2022 11:47:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Cyclohexane	0.72	0.15		ppbV	1	6/24/2022 11:47:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-9
Lab Order:	C2206048	**Tag Number:**	362,1153
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-010A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Ethyl acetate	0.86	0.15		ppbV	1	6/24/2022 11:47:00 PM
Ethylbenzene	1.2	0.15		ppbV	1	6/24/2022 11:47:00 PM
Freon 11	0.32	0.15		ppbV	1	6/24/2022 11:47:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Freon 12	0.44	0.15		ppbV	1	6/24/2022 11:47:00 PM
Heptane	0.81	0.15		ppbV	1	6/24/2022 11:47:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Hexane	0.81	0.15		ppbV	1	6/24/2022 11:47:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
m&p-Xylene	3.5	3.0		ppbV	10	6/29/2022 2:17:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 11:47:00 PM
Methyl Ethyl Ketone	13	3.0		ppbV	10	6/29/2022 2:17:00 PM
Methyl Isobutyl Ketone	620	240		ppbV	810	6/29/2022 3:04:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Methylene chloride	3.7	1.5		ppbV	10	6/29/2022 2:17:00 PM
o-Xylene	2.3	1.5		ppbV	10	6/29/2022 2:17:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Styrene	0.48	0.15		ppbV	1	6/24/2022 11:47:00 PM
Tetrachloroethylene	0.41	0.15		ppbV	1	6/24/2022 11:47:00 PM
Tetrahydrofuran	7.5	1.5		ppbV	10	6/29/2022 2:17:00 PM
Toluene	4.8	1.5		ppbV	10	6/29/2022 2:17:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Trichloroethene	0.11	0.15	J	ppbV	1	6/24/2022 11:47:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Surr: Bromofluorobenzene	99.0	46.7-129		%REC	1	6/24/2022 11:47:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-10
Lab Order:	C2206048	**Tag Number:**	162,80
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-011A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	0			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		**GC**				Analyst: **NP**
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	0.48	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,2,4-Trimethylbenzene	0.21	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,3-Dichlorobenzene	0.16	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/25/2022 12:31:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Acetone	21	6.0		ppbV	20	6/28/2022 7:11:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Benzene	0.33	0.15		ppbV	1	6/25/2022 12:31:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Bromodichloromethane	0.13	0.15	J	ppbV	1	6/25/2022 12:31:00 AM
Bromoform	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Carbon disulfide	7.0	3.0		ppbV	20	6/28/2022 7:11:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Chloroform	32	3.0		ppbV	20	6/28/2022 7:11:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-10
Lab Order:	C2206048	**Tag Number:**	162,80
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-011A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Ethyl acetate	0.44	0.15		ppbV	1	6/25/2022 12:31:00 AM
Ethylbenzene	0.12	0.15	J	ppbV	1	6/25/2022 12:31:00 AM
Freon 11	0.34	0.15		ppbV	1	6/25/2022 12:31:00 AM
Freon 113	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Freon 114	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Freon 12	0.51	0.15		ppbV	1	6/25/2022 12:31:00 AM
Heptane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Hexane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
m&p-Xylene	0.42	0.30		ppbV	1	6/25/2022 12:31:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/25/2022 12:31:00 AM
Methyl Ethyl Ketone	1.2	0.30		ppbV	1	6/25/2022 12:31:00 AM
Methyl Isobutyl Ketone	0.76	0.30		ppbV	1	6/25/2022 12:31:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Methylene chloride	0.32	0.15		ppbV	1	6/25/2022 12:31:00 AM
o-Xylene	0.18	0.15		ppbV	1	6/25/2022 12:31:00 AM
Propylene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Styrene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Tetrachloroethylene	0.30	0.15		ppbV	1	6/25/2022 12:31:00 AM
Tetrahydrofuran	2.4	3.0	J	ppbV	20	6/28/2022 7:11:00 AM
Toluene	1.2	0.15		ppbV	1	6/25/2022 12:31:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Surr: Bromofluorobenzene	95.0	46.7-129		%REC	1	6/25/2022 12:31:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-11
Lab Order:	C2206048	**Tag Number:**	320,48
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-012A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-1			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		**GC**				Analyst: **NP**
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	0.64	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,2,4-Trimethylbenzene	0.23	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,3,5-Trimethylbenzene	0.13	0.15	J	ppbV	1	6/25/2022 1:15:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,3-Dichlorobenzene	0.27	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,4-Dichlorobenzene	0.47	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/25/2022 1:15:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Acetone	42	12		ppbV	40	6/29/2022 6:15:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Benzene	0.48	0.15		ppbV	1	6/25/2022 1:15:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Bromoform	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Carbon disulfide	0.67	0.15		ppbV	1	6/25/2022 1:15:00 AM
Carbon tetrachloride	0.27	0.15		ppbV	1	6/25/2022 1:15:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Chloroethane	0.13	0.15	J	ppbV	1	6/25/2022 1:15:00 AM
Chloroform	1.5	0.15		ppbV	1	6/25/2022 1:15:00 AM
Chloromethane	0.34	0.15		ppbV	1	6/25/2022 1:15:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Cyclohexane	0.20	0.15		ppbV	1	6/25/2022 1:15:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-11
Lab Order:	C2206048	**Tag Number:**	320,48
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-012A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Ethyl acetate	0.30	0.15		ppbV	1	6/25/2022 1:15:00 AM
Ethylbenzene	0.16	0.15		ppbV	1	6/25/2022 1:15:00 AM
Freon 11	3.6	1.5		ppbV	10	6/29/2022 5:33:00 AM
Freon 113	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Freon 114	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Freon 12	0.49	0.15		ppbV	1	6/25/2022 1:15:00 AM
Heptane	0.25	0.15		ppbV	1	6/25/2022 1:15:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Hexane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
m&p-Xylene	0.50	0.30		ppbV	1	6/25/2022 1:15:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/25/2022 1:15:00 AM
Methyl Ethyl Ketone	1.3	0.30		ppbV	1	6/25/2022 1:15:00 AM
Methyl Isobutyl Ketone	1.1	0.30		ppbV	1	6/25/2022 1:15:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Methylene chloride	0.36	0.15		ppbV	1	6/25/2022 1:15:00 AM
o-Xylene	0.21	0.15		ppbV	1	6/25/2022 1:15:00 AM
Propylene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Styrene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Tetrachloroethylene	2.9	1.5		ppbV	10	6/29/2022 5:33:00 AM
Tetrahydrofuran	0.81	0.15		ppbV	1	6/25/2022 1:15:00 AM
Toluene	1.2	0.15		ppbV	1	6/25/2022 1:15:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Trichloroethene	0.51	0.15		ppbV	1	6/25/2022 1:15:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Surr: Bromofluorobenzene	97.0	46.7-129		%REC	1	6/25/2022 1:15:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-12
Lab Order:	C2206048	**Tag Number:**	234,147
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-013A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-14			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		**GC**				Analyst: **NP**
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,2,4-Trimethylbenzene	7.6	1.4		ppbV	9	6/29/2022 3:48:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,3,5-Trimethylbenzene	2.8	1.4		ppbV	9	6/29/2022 3:48:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,3-Dichlorobenzene	0.93	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/25/2022 2:30:00 AM
2,2,4-trimethylpentane	0.25	0.15		ppbV	1	6/25/2022 2:30:00 AM
4-ethyltoluene	1.1	0.15		ppbV	1	6/25/2022 2:30:00 AM
Acetone	89	27		ppbV	90	6/29/2022 4:31:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Benzene	2.7	1.4		ppbV	9	6/29/2022 3:48:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Bromoform	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Carbon disulfide	45	14		ppbV	90	6/29/2022 4:31:00 PM
Carbon tetrachloride	0.17	0.15		ppbV	1	6/25/2022 2:30:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Chloroethane	0.21	0.15		ppbV	1	6/25/2022 2:30:00 AM
Chloroform	0.51	0.15		ppbV	1	6/25/2022 2:30:00 AM
Chloromethane	0.66	0.15		ppbV	1	6/25/2022 2:30:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Cyclohexane	0.91	0.15		ppbV	1	6/25/2022 2:30:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-12
Lab Order:	C2206048	**Tag Number:**	234,147
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-013A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Ethyl acetate	0.61	0.15		ppbV	1	6/25/2022 2:30:00 AM
Ethylbenzene	1.0	0.15		ppbV	1	6/25/2022 2:30:00 AM
Freon 11	0.36	0.15		ppbV	1	6/25/2022 2:30:00 AM
Freon 113	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Freon 114	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Freon 12	0.42	0.15		ppbV	1	6/25/2022 2:30:00 AM
Heptane	1.3	0.15		ppbV	1	6/25/2022 2:30:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Hexane	1.9	0.15		ppbV	1	6/25/2022 2:30:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
m&p-Xylene	3.8	0.30		ppbV	1	6/25/2022 2:30:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/25/2022 2:30:00 AM
Methyl Ethyl Ketone	4.5	2.7		ppbV	9	6/29/2022 3:48:00 PM
Methyl Isobutyl Ketone	110	27		ppbV	90	6/29/2022 4:31:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Methylene chloride	8.0	1.4		ppbV	9	6/29/2022 3:48:00 PM
o-Xylene	3.0	1.4		ppbV	9	6/29/2022 3:48:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Styrene	0.57	0.15		ppbV	1	6/25/2022 2:30:00 AM
Tetrachloroethylene	1.7	0.15		ppbV	1	6/25/2022 2:30:00 AM
Tetrahydrofuran	3.9	1.4		ppbV	9	6/29/2022 3:48:00 PM
Toluene	5.4	1.4		ppbV	9	6/29/2022 3:48:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Trichloroethene	0.20	0.15		ppbV	1	6/25/2022 2:30:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Surr: Bromofluorobenzene	97.0	46.7-129		%REC	1	6/25/2022 2:30:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-13
Lab Order:	C2206048	**Tag Number:**	1192,175
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-014A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-3			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		**GC**				Analyst: **NP**
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,2,4-Trimethylbenzene	2.1	1.5		ppbV	10	6/29/2022 5:14:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,3,5-Trimethylbenzene	1.0	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/25/2022 3:58:00 AM
2,2,4-trimethylpentane	3.6	1.5		ppbV	10	6/29/2022 5:14:00 PM
4-ethyltoluene	0.56	0.15		ppbV	1	6/25/2022 3:58:00 AM
Acetone	62	12		ppbV	40	6/29/2022 5:56:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Benzene	6.4	1.5		ppbV	10	6/29/2022 5:14:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Bromoform	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Carbon disulfide	2.0	0.15		ppbV	1	6/25/2022 3:58:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Chloroethane	0.27	0.15		ppbV	1	6/25/2022 3:58:00 AM
Chloroform	0.11	0.15	J	ppbV	1	6/25/2022 3:58:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
cis-1,2-Dichloroethene	0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Cyclohexane	16	1.5		ppbV	10	6/29/2022 5:14:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-13
Lab Order:	C2206048	**Tag Number:**	1192,175
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-014A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Ethyl acetate	0.85	0.15		ppbV	1	6/25/2022 3:58:00 AM
Ethylbenzene	1.2	0.15		ppbV	1	6/25/2022 3:58:00 AM
Freon 11	0.25	0.15		ppbV	1	6/25/2022 3:58:00 AM
Freon 113	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Freon 114	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Freon 12	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Heptane	3.6	1.5		ppbV	10	6/29/2022 5:14:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Hexane	8.6	1.5		ppbV	10	6/29/2022 5:14:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
m&p-Xylene	4.1	0.30		ppbV	1	6/25/2022 3:58:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/25/2022 3:58:00 AM
Methyl Ethyl Ketone	5.0	3.0		ppbV	10	6/29/2022 5:14:00 PM
Methyl Isobutyl Ketone	2.7	3.0	J	ppbV	10	6/29/2022 5:14:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Methylene chloride	0.78	0.15		ppbV	1	6/25/2022 3:58:00 AM
o-Xylene	2.7	1.5		ppbV	10	6/29/2022 5:14:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Styrene	0.36	0.15		ppbV	1	6/25/2022 3:58:00 AM
Tetrachloroethylene	2.5	1.5		ppbV	10	6/29/2022 5:14:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Toluene	3.1	1.5		ppbV	10	6/29/2022 5:14:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Trichloroethene	0.83	0.15		ppbV	1	6/25/2022 3:58:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Surr: Bromofluorobenzene	112	46.7-129		%REC	1	6/25/2022 3:58:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-14
Lab Order:	C2206048	**Tag Number:**	327,113
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-015A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-6			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		**GC**				Analyst: **NP**
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,2,4-Trimethylbenzene	7.4	1.5		ppbV	10	6/28/2022 12:53:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,3,5-Trimethylbenzene	3.0	1.5		ppbV	10	6/28/2022 12:53:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/25/2022 4:42:00 AM
2,2,4-trimethylpentane	8.8	1.5		ppbV	10	6/28/2022 12:53:00 PM
4-ethyltoluene	1.6	0.15		ppbV	1	6/25/2022 4:42:00 AM
Acetone	280	240		ppbV	810	6/29/2022 6:39:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Benzene	7.5	1.5		ppbV	10	6/28/2022 12:53:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Bromoform	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Carbon disulfide	37	6.0		ppbV	40	6/28/2022 1:35:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Chloroethane	0.96	0.15		ppbV	1	6/25/2022 4:42:00 AM
Chloroform	0.17	0.15		ppbV	1	6/25/2022 4:42:00 AM
Chloromethane	13	1.5		ppbV	10	6/28/2022 12:53:00 PM
cis-1,2-Dichloroethene	1.8	0.15		ppbV	1	6/25/2022 4:42:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Cyclohexane	22	6.0		ppbV	40	6/28/2022 1:35:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-14
Lab Order:	C2206048	**Tag Number:**	327,113
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-015A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Ethyl acetate	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Ethylbenzene	1.9	0.15		ppbV	1	6/25/2022 4:42:00 AM
Freon 11	0.16	0.15		ppbV	1	6/25/2022 4:42:00 AM
Freon 113	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Freon 114	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Freon 12	0.50	0.15		ppbV	1	6/25/2022 4:42:00 AM
Heptane	18	1.5		ppbV	10	6/28/2022 12:53:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Hexane	37	6.0		ppbV	40	6/28/2022 1:35:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
m&p-Xylene	6.5	3.0		ppbV	10	6/28/2022 12:53:00 PM
Methyl Butyl Ketone	4.8	3.0		ppbV	10	6/28/2022 12:53:00 PM
Methyl Ethyl Ketone	32	12		ppbV	40	6/28/2022 1:35:00 PM
Methyl Isobutyl Ketone	190	240	J	ppbV	810	6/29/2022 6:39:00 PM
Methyl tert-butyl ether	20	6.0		ppbV	40	6/28/2022 1:35:00 PM
Methylene chloride	3.1	1.5		ppbV	10	6/28/2022 12:53:00 PM
o-Xylene	4.4	1.5		ppbV	10	6/28/2022 12:53:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Styrene	1.3	0.15		ppbV	1	6/25/2022 4:42:00 AM
Tetrachloroethylene	3.5	1.5		ppbV	10	6/28/2022 12:53:00 PM
Tetrahydrofuran	13	1.5		ppbV	10	6/28/2022 12:53:00 PM
Toluene	7.2	1.5		ppbV	10	6/28/2022 12:53:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Trichloroethene	1.8	0.15		ppbV	1	6/25/2022 4:42:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Vinyl chloride	13	1.5		ppbV	10	6/28/2022 12:53:00 PM
Surr: Bromofluorobenzene	108	46.7-129		%REC	1	6/25/2022 4:42:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-15
Lab Order:	C2206048	**Tag Number:**	465,109
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-016A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-1			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		**GC**				Analyst: **NP**
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	0.18	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,2,4-Trimethylbenzene	0.28	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,3,5-Trimethylbenzene	0.25	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,3-Dichlorobenzene	0.46	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/25/2022 5:26:00 AM
2,2,4-trimethylpentane	0.21	0.15		ppbV	1	6/25/2022 5:26:00 AM
4-ethyltoluene	0.10	0.15	J	ppbV	1	6/25/2022 5:26:00 AM
Acetone	24	12		ppbV	40	6/29/2022 8:04:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Benzene	0.25	0.15		ppbV	1	6/25/2022 5:26:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Bromoform	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Carbon disulfide	4.3	1.5		ppbV	10	6/29/2022 7:22:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Chloroform	5.5	1.5		ppbV	10	6/29/2022 7:22:00 PM
Chloromethane	0.62	0.15		ppbV	1	6/25/2022 5:26:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Cyclohexane	1.1	0.15		ppbV	1	6/25/2022 5:26:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-15
Lab Order:	C2206048	**Tag Number:**	465,109
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-016A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Ethyl acetate	0.43	0.15		ppbV	1	6/25/2022 5:26:00 AM
Ethylbenzene	0.12	0.15	J	ppbV	1	6/25/2022 5:26:00 AM
Freon 11	4.1	1.5		ppbV	10	6/29/2022 7:22:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Freon 114	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Freon 12	0.53	0.15		ppbV	1	6/25/2022 5:26:00 AM
Heptane	0.91	0.15		ppbV	1	6/25/2022 5:26:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Hexane	2.2	1.5		ppbV	10	6/29/2022 7:22:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
m&p-Xylene	0.53	0.30		ppbV	1	6/25/2022 5:26:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/25/2022 5:26:00 AM
Methyl Ethyl Ketone	1.3	0.30		ppbV	1	6/25/2022 5:26:00 AM
Methyl Isobutyl Ketone	0.92	0.30		ppbV	1	6/25/2022 5:26:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Methylene chloride	2.9	1.5		ppbV	10	6/29/2022 7:22:00 PM
o-Xylene	0.18	0.15		ppbV	1	6/25/2022 5:26:00 AM
Propylene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Styrene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Tetrachloroethylene	2.9	1.5		ppbV	10	6/29/2022 7:22:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Toluene	0.85	0.15		ppbV	1	6/25/2022 5:26:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Surr: Bromofluorobenzene	97.0	46.7-129		%REC	1	6/25/2022 5:26:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-16
Lab Order:	C2206048	**Tag Number:**	98,151
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-017A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-4			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		**GC**				Analyst: **NP**
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,2,4-Trimethylbenzene	0.22	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,3,5-Trimethylbenzene	0.14	0.15	J	ppbV	1	6/25/2022 6:10:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/25/2022 6:10:00 AM
2,2,4-trimethylpentane	0.29	0.15		ppbV	1	6/25/2022 6:10:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Acetone	5.0	3.0		ppbV	10	6/29/2022 8:47:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Benzene	0.32	0.15		ppbV	1	6/25/2022 6:10:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Bromoform	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Carbon disulfide	51	6.0		ppbV	40	6/29/2022 9:29:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Chloroform	0.36	0.15		ppbV	1	6/25/2022 6:10:00 AM
Chloromethane	0.75	0.15		ppbV	1	6/25/2022 6:10:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Cyclohexane	0.35	0.15		ppbV	1	6/25/2022 6:10:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-16
Lab Order:	C2206048	**Tag Number:**	98,151
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-017A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Ethyl acetate	0.47	0.15		ppbV	1	6/25/2022 6:10:00 AM
Ethylbenzene	0.17	0.15		ppbV	1	6/25/2022 6:10:00 AM
Freon 11	0.23	0.15		ppbV	1	6/25/2022 6:10:00 AM
Freon 113	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Freon 114	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Freon 12	0.44	0.15		ppbV	1	6/25/2022 6:10:00 AM
Heptane	0.23	0.15		ppbV	1	6/25/2022 6:10:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Hexane	0.29	0.15		ppbV	1	6/25/2022 6:10:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
m&p-Xylene	0.55	0.30		ppbV	1	6/25/2022 6:10:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/25/2022 6:10:00 AM
Methyl Ethyl Ketone	0.44	0.30		ppbV	1	6/25/2022 6:10:00 AM
Methyl Isobutyl Ketone	0.23	0.30	J	ppbV	1	6/25/2022 6:10:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Methylene chloride	1.7	0.15		ppbV	1	6/25/2022 6:10:00 AM
o-Xylene	0.21	0.15		ppbV	1	6/25/2022 6:10:00 AM
Propylene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Styrene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Tetrachloroethylene	0.13	0.15	J	ppbV	1	6/25/2022 6:10:00 AM
Tetrahydrofuran	0.26	0.15		ppbV	1	6/25/2022 6:10:00 AM
Toluene	1.4	0.15		ppbV	1	6/25/2022 6:10:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Surr: Bromofluorobenzene	92.0	46.7-129		%REC	1	6/25/2022 6:10:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	AS-1
Lab Order:	C2206048	**Tag Number:**	1182,453
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-018A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-1			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	6/24/2022 12:22:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,2,4-Trimethylbenzene	0.11	0.15	J	ppbV	1	6/24/2022 12:22:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/24/2022 12:22:00 PM
2,2,4-trimethylpentane	0.13	0.15	J	ppbV	1	6/24/2022 12:22:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Acetone	7.8	3.0		ppbV	10	6/25/2022 7:37:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Benzene	0.19	0.15		ppbV	1	6/24/2022 12:22:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Carbon tetrachloride	0.10	0.030		ppbV	1	6/24/2022 12:22:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Chloroform	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Chloromethane	0.46	0.15		ppbV	1	6/24/2022 12:22:00 PM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	6/24/2022 12:22:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Ethyl acetate	0.32	0.15		ppbV	1	6/24/2022 12:22:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	AS-1
Lab Order:	C2206048	**Tag Number:**	1182,453
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-018A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Freon 11	0.24	0.15		ppbV	1	6/24/2022 12:22:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Freon 12	0.45	0.15		ppbV	1	6/24/2022 12:22:00 PM
Heptane	0.14	0.15	J	ppbV	1	6/24/2022 12:22:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Hexane	0.22	0.15		ppbV	1	6/24/2022 12:22:00 PM
Isopropyl alcohol	1.4	0.15		ppbV	1	6/24/2022 12:22:00 PM
m&p-Xylene	0.24	0.30	J	ppbV	1	6/24/2022 12:22:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 12:22:00 PM
Methyl Ethyl Ketone	0.40	0.30		ppbV	1	6/24/2022 12:22:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 12:22:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Methylene chloride	0.36	0.15		ppbV	1	6/24/2022 12:22:00 PM
o-Xylene	0.11	0.15	J	ppbV	1	6/24/2022 12:22:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Toluene	0.89	0.15		ppbV	1	6/24/2022 12:22:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Trichloroethene	< 0.030	0.030		ppbV	1	6/24/2022 12:22:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	6/24/2022 12:22:00 PM
Surr: Bromofluorobenzene	91.0	47-124		%REC	1	6/24/2022 12:22:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	AS-2
Lab Order:	C2206048	**Tag Number:**	85,1152
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-019A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-1			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	6/24/2022 1:06:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,2,4-Trimethylbenzene	0.11	0.15	J	ppbV	1	6/24/2022 1:06:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/24/2022 1:06:00 PM
2,2,4-trimethylpentane	0.13	0.15	J	ppbV	1	6/24/2022 1:06:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Acetone	7.2	3.0		ppbV	10	6/25/2022 8:20:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Benzene	0.26	0.15		ppbV	1	6/24/2022 1:06:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Carbon disulfide	0.10	0.15	J	ppbV	1	6/24/2022 1:06:00 PM
Carbon tetrachloride	0.10	0.030		ppbV	1	6/24/2022 1:06:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Chloroform	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Chloromethane	0.45	0.15		ppbV	1	6/24/2022 1:06:00 PM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	6/24/2022 1:06:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Ethyl acetate	0.36	0.15		ppbV	1	6/24/2022 1:06:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	AS-2
Lab Order:	C2206048	**Tag Number:**	85,1152
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-019A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.11	0.15	J	ppbV	1	6/24/2022 1:06:00 PM
Freon 11	0.25	0.15		ppbV	1	6/24/2022 1:06:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Freon 12	0.47	0.15		ppbV	1	6/24/2022 1:06:00 PM
Heptane	0.19	0.15		ppbV	1	6/24/2022 1:06:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Hexane	0.21	0.15		ppbV	1	6/24/2022 1:06:00 PM
Isopropyl alcohol	1.3	0.15		ppbV	1	6/24/2022 1:06:00 PM
m&p-Xylene	0.32	0.30		ppbV	1	6/24/2022 1:06:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 1:06:00 PM
Methyl Ethyl Ketone	0.43	0.30		ppbV	1	6/24/2022 1:06:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 1:06:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Methylene chloride	0.36	0.15		ppbV	1	6/24/2022 1:06:00 PM
o-Xylene	0.13	0.15	J	ppbV	1	6/24/2022 1:06:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Toluene	0.97	0.15		ppbV	1	6/24/2022 1:06:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Trichloroethene	< 0.030	0.030		ppbV	1	6/24/2022 1:06:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	6/24/2022 1:06:00 PM
Surr: Bromofluorobenzene	93.0	47-124		%REC	1	6/24/2022 1:06:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	TB-1
Lab Order:	C2206048	**Tag Number:**	158
Project:	IKEA Red Hook	**Collection Date:**	
Lab ID:	C2206048-020A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	+19			"Hg		6/23/2022
Lab Vacuum Out	+19			"Hg		6/23/2022
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	6/29/2022 3:21:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/29/2022 3:21:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Acetone	< 0.30	0.30		ppbV	1	6/29/2022 3:21:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Benzene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Bromoform	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Carbon tetrachloride	< 0.030	0.030		ppbV	1	6/29/2022 3:21:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Chloroform	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	6/29/2022 3:21:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Ethyl acetate	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek/SanAir Technologies Laboratory

Date: *30-Jun-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	TB-1
Lab Order:	C2206048	**Tag Number:**	158
Project:	IKEA Red Hook	**Collection Date:**	
Lab ID:	C2206048-020A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Freon 11	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Freon 113	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Freon 114	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Freon 12	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Heptane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Hexane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
m&p-Xylene	< 0.30	0.30		ppbV	1	6/29/2022 3:21:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/29/2022 3:21:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	6/29/2022 3:21:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/29/2022 3:21:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Propylene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Styrene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Toluene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Trichloroethene	< 0.030	0.030		ppbV	1	6/29/2022 3:21:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	6/29/2022 3:21:00 AM
Surr: Bromofluorobenzene	79.0	47-124		%REC	1	6/29/2022 3:21:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

PRELIMINARY

Centek Labs - Chain of Custody

Centek Laboratories
143 Midler Park Drive
Syracuse, NY 13206
315-431-9730
www.CentekLabs.com
Vapor Intrusion & IAQ

Site Name:	IKEA
Project:	Red Hook
PO#:	08-397
Quote #	Q- SP
Canister Order #:	5366

Detection Limit	Report Level
☐ 5ppbv	☐ Level I
☒ 1ug/M3	☐ Level II
☐ 1ug/M3 + 0.2 NYS	☑ Cat "B" Like
☐	☐

TAT Turnaround Time:	Check One	Rush TAT Surcharge %	Due Date:
5 Business Days	☑	0%	
4 Business Days	☐	25%	
3 Business Days	☐	50%	
2 Business Days	☐	75%	
*Next Day by 5pm	☐	100%	
*Next Day by Noon	☐	150%	
*Same Day	☐	200%	

*For Same and Next Day TAT Please Notify Lab

Company:	Soil Mech
Report to:	
Address:	3220 Merrick Rd.
City, State, Zip	Seaford N.Y. 11783
Email:	soilmechenv@earthlink.net
Phone:	516-221-2500

Company:	
Check Here If Same:	☐
Invoice to:	
Address:	
City, State, Zip	
Email:	
Phone:	

Sample ID	Date Sampled	Canister Number	Regulator Number	Analysis Request	Field Vacuum Start / Stop	Labs Vacuum** Rec'V/Analysis	Comments
Svw-1	6-21-22	569	1165	To 15 + Helium	30 / 17	-16 /	
Svw-1 Dup	↑	131	1165	↑	30 / 17	-16 /	Duplicate
Svw-2 MS/MSD		1207	1346		30 / 9	-6 /	Matrix spike + Dup
Svw-3		1175	310		30 / 1	-1 /	
Svw-4		1317	120		29 / 1	-1 /	
Svw-5		245	155		30 / 5	-4 /	
Svw-6		237	124		30 / 2	-1 /	
Svw-7		1450	125		24 / 3	0 /	
Svw-8		242	187		30 / 3	-2 /	
Svw-9		362	1153		30 / 14	-12 /	
Svw-10		162	80		30 / 0	0 /	
Svw-11		320	48		30+ / 4	-1 /	
Svw-12		234	147		30 / 17	-14 /	
Svw-13		1192	175		30+ / 5	-3 /	
Svw-14		327	113		30+ / 6	-6 /	
Svw-15		465	109		30+ / 3	-1 /	
Svw-16	↓	98	151	↓	30 / 4	-4 /	
					/	/	

Chain of Custody	Print Name	Signature	Date/Time
Sampled by:	Steve Anderson		
Relinquished by:	Steve Anderson		6-21-22
Received at Lab by:	Robin Gushlaw	Robin Gushlaw	6/23/22

Courier: CIRCLE ONE
FedEx UPS Pickup/Dropoff

**For LAB USE ONLY
Work Order # C2206048

***Chain of Custody must be completed in full. Lack of any missing information will affect your Turn Around Times (TAT)

*** By signing Centek Labs Chain of Custody, you are accepting Centek Labs Terms and Conditions listed on the reverse side.

Centek Labs - Chain of Custody

Centek Laboratories
143 Midler Park Drive
Syracuse, NY 13206
315-431-9730
www.CentekLabs.com
Vapor Intrusion & IAQ

Site Name: IKEA
Project: Red Hook
PO#: 08-737
Quote #: Q-SP
Canister Order #: 9360

Detection Limit	Report Level
☐ 5ppbv	☐ Level I
☒ 1ug/M3	☐ Level II
☐ 1ug/M3 + 0.2 NYS	☒ Cat "B" Like
☐	☐

TAT Turnaround Time:	Check One	Rush TAT Surcharge %	Due Date:
5 Business Days	☑	0%	
4 Business Days	☐	25%	
3 Business Days	☐	50%	
2 Business Days	☐	75%	
*Next Day by 5pm	☐	100%	
*Next Day by Noon	☐	150%	
*Same Day	☐	200%	

*For Same and Next Day TAT Please Notify Lab

Company: Soil Mech

Report to:
Address: 3770 Merrick rd.
City, State, Zip Seaford NY 11783
Email: Soilmechenv@earthlink.net
Phone: 516-221-7600

Company:
Check Here If Same: ☐

Invoice to:
Address:
City, State, Zip
Email:
Phone:

Sample ID	Date Sampled	Canister Number	Regulator Number	Analysis Request	Field Vacuum Start / Stop	Labs Vacuum** Rec'd/Analysis	Comments
					/	/	
					/	/	
AS-1	6-21-22	1182	453		30 / 2	-1 /	
AS-2	↑	85	1152		28 / 0	-1 /	
TR-1	↓	153			/	+1? /	Trip Blank
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	

Chain of Custody	Print Name	Signature	Date/Time
Sampled by:	Steve Nelson		
Relinquished by:	Steve Nelson		6-21-22
Received at Lab by:	Robin Bushlow	Robin Bushlow	6/23/22

Courier: CIRCLE ONE
FedEx UPS Pickup/Dropoff

**For LAB USE ONLY
Work Order # C2206048

***Chain of Custody must be completed in full. Lack of any missing information will affect your Turn Around Times (TAT)

*** By signing Centek Labs Chain of Custody, you are accepting Centek Labs Terms and Conditions listed on the reverse side.

Monthly SSVMS Inspection Forms

U.S. Dredging Shipyard Site
Tax Block 612, Lot 130
Brooklyn, New York
NYSDEC - BCP Number C224043

METHANE MITIGATION SYSTEM MEASUREMENTS

DATE: 1/21/22 WEATHER Cldy 14°F BARO. PRESS 30.52Hg SMES #: 08-387	BLOWER #1	BLOWER #2	COMMENTS
Electric Control Room			January 2022
Current hour meter reading	54845.2	47769.2	Both Blowers operating normally.
Previous hour meter reading	54244.2	47168.1	
Total elapsed motor run time (hr.) (Current monitoring period)	601	601.1	
Total days operational	Approx. 4744.3	Approx.4820.8	
Alarm Condition	None	None	
Roof Top Blowers			
Filter inlet gauge reading	-50.0" H_2O	-46.0" H_2O	
Filter outlet gauge reading	-74.0" H_2O	-60.0" H_2O	
Magnehelic gauge reading	10.0" H_2O	10.0" H_2O	
Flow at stack	360 SCFM	360 SCFM	
Methane (CH_4) concentration At exhaust stack *	0.0	0.0	
Dilution valve	CLOSED	CLOSED	

*** = Percent Gas by Volumn**

Monthly Sub-Slab Vapor Mitigation System Inspection Form
IKEA (BCP Site No. C224043)
1 Beard Street, Brooklyn, NY

Inspector: DAVE S
Date: 1-21-22
Weather: CLOY
Temp: 14 F^0
Barometric Pressure 30.52 in. Hg

1. General

a). When was the last rain event? 1-20-22
b). Are system fans operating? YES
If no, please list: -0-
c). Any evidence of system tampering or vandalism? NO
d). Were all cleanout and sampling port caps securely attached prior to system testing? YES
e). Please list caps that were not securely in place: -0-

2. Operations

a). Attach Fan Operation Routine Checklist as per Manufacturer Specifications

3. Comments

BOTH BLOWERS OPERATING NORMALLY.

METHANE MITIGATION SYSTEM MEASUREMENTS

DATE: 2/22/22 WEATHER Cldy 14°F BARO. PRESS 30.36Hg SMES #: 08-387	BLOWER #1	BLOWER #2	COMMENTS
Electric Control Room			February 2022
Current hour meter reading	55561.8	48534.5	*On 2-20-22 we received a low vacuum
Previous hour meter reading	54845.2	47769.2	Alert. On 2-22-22 we arrived on site and
			found blower #1 had shut down due to an
Total elapsed motor run time (hr.) (Current monitoring period)	716.6	765.3	unexplained power interruption. The blower was restarted and now both blowers are operating normally.
Total days operational	Approx. 4744.3	Approx.4820.8	
Alarm Condition	*Yes	None	
Roof Top Blowers			
Filter inlet gauge reading	-40.0" H_2O	-46.0" H_2O	
Filter outlet gauge reading	-76.0" H_2O	-58.0" H_2O	
Magnehelic gauge reading	10.0" H_2O	10.0" H_2O	
Flow at stack	360 SCFM	360 SCFM	
Methane (CH_4) concentration At exhaust stack *	0.0	0.0	
Dilution valve	CLOSED	CLOSED	

*** = Percent Gas by Volumn**

Monthly Sub-Slab Vapor Mitigation System Inspection Form
IKEA (BCP Site No. C224043)
1 Beard Street, Brooklyn, NY

Inspector: DAVE S
Date: 2-22-22
Weather: CLOUDY
Temp: 44 F^0
Barometric Pressure 30.36 in. Hg

1. General

a). When was the last rain event? 2-21-22
b). Are system fans operating? BLOW #1 NO, BLOWER # 2 YES
If no, please list: BLOWER #1 NOT RUNNING
c). Any evidence of system tampering or vandalism? NO
d). Were all cleanout and sampling port caps securely attached prior to system testing? YES
e). Please list caps that were not securely in place: NA

2. Operations

a). Attach Fan Operation Routine Checklist as per Manufacturer Specifications

3. Comments

ON 2-20-22 WE RECIEVED A LOW VACUUM ALERT
ON 2-22-22 WE ARRIVED ON SITE AND FOUND THAT BLOWER #1 HAD SHUT DOWN DUE TO A UNEXPLAINED POWER INTERRUPTION. BLOWER #1 WAS RESTARTED AND NOW BOTH BLOWERS ARE OPERATING NORMALLY.

METHANE MITIGATION SYSTEM MEASUREMENTS

DATE: 3/22/22 WEATHER Sunny 49°F BARO. PRESS 30.12Hg SMES #: 08-387	BLOWER #1	BLOWER #2	COMMENTS
Electric Control Room			March 2022
Current hour meter reading	56234.5	48986.9	Both blowers operating normally.
Previous hour meter reading	55561.8	48534.5	
Total elapsed motor run time (hr.) (Current monitoring period)	672.7	452.4	
Total days operational	Approx. 4772.3	Approx.4839.8	
Alarm Condition	*Yes	None	
Roof Top Blowers			
Filter inlet gauge reading	-42.0" H_2O	-46.0" H_2O	
Filter outlet gauge reading	-66.0" H_2O	-60.0" H_2O	
Magnehelic gauge reading	10.0" H_2O	10.0" H_2O	
Flow at stack	360 SCFM	360 SCFM	
Methane (CH_4) concentration At exhaust stack *	0.0	0.0	
Dilution valve	CLOSED	CLOSED	

*** = Percent Gas by Volumn**

Monthly Sub-Slab Vapor Mitigation System Inspection Form
IKEA (BCP Site No. C224043)
1 Beard Street, Brooklyn, NY

Inspector: DAVE S.
Date: 3-22-22
Weather:
Temp: 49 F^0
Barometric Pressure 30.12 in. Hg

1. General

a). When was the last rain event? 2-25-22
b). Are system fans operating? Yes
If no, please list: -0-
c). Any evidence of system tampering or vandalism? NO
d). Were all cleanout and sampling port caps securely attached prior to system testing? YES
e). Please list caps that were not securely in place: -0-

2. Operations

a). Attach Fan Operation Routine Checklist as per Manufacturer Specifications

3. Comments

BOTH BLOWER OPERATING NORMALLY.

METHANE MITIGATION SYSTEM MEASUREMENTS

DATE: 5/5/22 WEATHER Sunny 64°F BARO. PRESS 30.02Hg SMES #: 08-387	BLOWER #1	BLOWER #2	COMMENTS
Electric Control Room			April 2022
Current hour meter reading	57290.1	48986.9	Both blowers operating normally.
Previous hour meter reading	56234.5	48986.9	Blower #2 hour meter not working.
Total elapsed motor run time (hr.) (Current monitoring period)	1055.6	1055.6	
Total days operational	Approx. 4815.3	Approx.4882.8	
Alarm Condition	None	None	
Roof Top Blowers			
Filter inlet gauge reading	-40.0" H_2O	-45.0" H_2O	
Filter outlet gauge reading	-70.0" H_2O	-60.0" H_2O	
Magnehelic gauge reading	12.0" H_2O	9.0" H_2O	
Flow at stack	400 SCFM	300 SCFM	
Methane (CH_4) concentration At exhaust stack *	0.0	0.0	
Dilution valve	CLOSED	CLOSED	

*** = Percent Gas by Volumn**

Monthly Sub-Slab Vapor Mitigation System Inspection Form
IKEA (BCP Site No. C224043)
1 Beard Street, Brooklyn, NY

Field Personnel: DAN MARZANO
Date: 5-5-22
Weather: SUNNY
Temp: 64°F
Barometric: 30.02
Pressure:

1. General

a). When was the last rain event? 4-19-22
b). Are system fans operating? YES
c). Any evidence of system tampering or vandalism? NO
d). Were all cleanout and sampling port caps securely attached prior to system testing? YES
e). Please list caps that were not securely in place: NA

2. Operations

a). Attach Fan Operation Routine Checklist as per Manufacturer Specifications.

3. Comments

BOTH BLOWERS OPERATING NORMALLY

BLOW #2 HOUR METER NOT WORKING - WILL REPLACE ASAP

METHANE MITIGATION SYSTEM MEASUREMENTS

DATE: 5/25/22 WEATHER Mtly Cldy 65°F BARO. PRESS 30.33Hg SMES #: 08-387	BLOWER #1	BLOWER #2	COMMENTS
Electric Control Room			May 2022
Current hour meter reading	57770.2	48986.9	Both blowers operating normally.
Previous hour meter reading	57290.1	48986.9	Waiting for replacement hour meter for
			Blower # 2
Total elapsed motor run time (hr.) (Current monitoring period)	480.1	480.1	
Total days operational	Approx. 4833.1	Approx.4900.6	
Alarm Condition	None	None	
Roof Top Blowers			
Filter inlet gauge reading	-45.0" H_2O	-46.0" H_2O	
Filter outlet gauge reading	-68.0" H_2O	-58.0" H_2O	
Magnehelic gauge reading	12.0" H_2O	8.0" H_2O	
Flow at stack	380 SCFM	300 SCFM	
Methane (CH_4) concentration At exhaust stack *	0.0	0.0	
Dilution valve	CLOSED	CLOSED	

*** = Percent Gas by Volumn**

Monthly Sub-Slab Vapor Mitigation System Inspection Form
IKEA (BCP Site No. C224043)
1 Beard Street, Brooklyn, NY

Inspector: DAN MARZANO
Date: 5-25-22
Weather: MTLY CLDY
Temp: 65 F^0
Barometric Pressure 30.33 **in. Hg**

1. General

a). When was the last rain event? 5-19-22
b). Are system fans operating? YES
If no, please list: -0-
c). Any evidence of system tampering or vandalism? No
d). Were all cleanout and sampling port caps securely attached prior to system testing? YES
e). Please list caps that were not securely in place: NA

2. Operations

a). Attach Fan Operation Routine Checklist as per Manufacturer Specifications

3. Comments

BOTH BLOWERS ARE OPERATING NORMALLY.
WAITING FOR REPLACEMENT HOUR METER FOR BLOWER # 2

METHANE MITIGATION SYSTEM MEASUREMENTS

DATE: 6/21/22 WEATHER Cldy 77°F BARO. PRESS 30.03Hg SMES #: 08-387	BLOWER #1	BLOWER #2	COMMENTS
Electric Control Room			June 2022
Current hour meter reading	58416.0	116.0	Both blowers operating normally.
Previous hour meter reading	57770.2	-0-	Replaced hour meter for blower #2
			On 6-16-22.
Total elapsed motor run time (hr.) (Current monitoring period)	645.8	645.8	
Total days operational	Approx. 4860.1	Approx.4927.6	
Alarm Condition	None	None	
Roof Top Blowers			
Filter inlet gauge reading	-56.0" H_2O	-46.0" H_2O	
Filter outlet gauge reading	-56.0" H_2O	-52.0" H_2O	
Magnehelic gauge reading	10.0" H_2O	8.0" H_2O	
Flow at stack	360 SCFM	300 SCFM	
Methane (CH_4) concentration At exhaust stack *	0.0	0.0	
Dilution valve	CLOSED	CLOSED	

*** = Percent Gas by Volumn**

Monthly Sub-Slab Vapor Mitigation System Inspection Form
IKEA (BCP Site No. C224043)
1 Beard Street, Brooklyn, NY

Inspector: DAN MARZANO
Date: 6-21-22
Weather: CLDY
Temp: 77 F^0
Barometric Pressure 30.03 in. Hg

1. General

a). When was the last rain event? JUNE 16TH 2022
b). Are system fans operating? YES
If no, please list: -0-
c). Any evidence of system tampering or vandalism? NO
d). Were all cleanout and sampling port caps securely attached prior to system testing? YES
e). Please list caps that were not securely in place: -0-

2. Operations

a). Attach Fan Operation Routine Checklist as per Manufacturer Specifications

3. Comments

BOTH BLOWERS OPERATING NORMALLY.
HOUR METER FOR BLOWER #2 REPLACED ON 6-16-22

QA/QC Samples

U.S. Dredging Shipyard Site
Tax Block 612, Lot 130
Brooklyn, New York
NYSDEC - BCP Number C224043

Centek/SanAir Laboratories TO-15 Package Review CheckList

Client: Soil Mechanics **Project:** IKEA Red Hook SDG: C2206048

		YES	NO	NA
Analytical Results	Present and Complete	✓		
TIC's Present	Present and Complete	✓		
	Holdin Times Met	✓		

Comments:

Chain of Custody	Present and Complete	✓		
Surrogate	Present and Complete	✓		
	Recoveries within Limits	✓		
	Sample(s) reanalyzed			✓
Internal Standards	Present and Complete	✓		
Recovery	Recoveries within Limits		✓	
	Sample(s) reanalyzed	✓		

Comments: * SEE CASE NARRATIVE

Lab Control Sample	Present and Complete	✓		
(LCS)	Recoveries within Limits		✓	
Lab Control Sample Dupe	Present and Complete	✓		
(LCSD)	Recoveries within Limits		✓	
MS/MSD	Present and Complete	✓		
	Recoveries within Limits		✓	

Comments: * SEE CASE NARRATIVE

Sample Raw Data	Present and Complete	✓		
	Spectra present	✓		

Comments:

Centek/SanAir Laboratories TO-15 Package Review CheckList

Client: Soil Mechanics **Project:** IKEA Red Hook **SDG:** C2206048

		YES	NO	NA
Standards Data				
Intial Calibration	Present and Complete	✓		
	Calibration meets criteria	✓		
Continuing Calibration	Present and Complete	✓		
	Calibration meets criteria		✓	
Standards Raw Data	Present and Complete	✓		

Comments: *SEE CASE NARRATIVE

Raw Quality Control Data				
Tune Criteria Report	Present and Complete	✓		
Method Blank Data	MB Results <PQL	✓		
	Associated results flagged "B"			✓
LCS Sample Data	Present and Complete	✓		
LCSD Sample Data	Present and Complete	✓		
MS/MSD Sample Data	Present and Complete	✓		

Comments:

Logbooks			
Injection Log	✓		
Standards Log	✓		
Can Cleaning Log	✓		
Calculation Sheet	✓		
IDL's	✓		
Canister Order Form	✓		
Sample Tracking Form	✓		

Additional Comments:

Section Supervisor: [signature] Date: 7/29/22

QC Supervisor: Nick Dahl Date: 8/1/2022

Centek/SanAir Technologies Laboratory
143 Midler Park Drive * Syracuse, NY 13206
Phone (315) 431-9730 * Emergency 24/7 (315) 416-2752
NYSDOH ELAP Certificate No. 11830

Analytical Report

Dan Marzano
SOIL MECHANICS
3770 Merrick Road
Seaford, NY 11783

TEL: 516-221-7500
FAX 516-679-1900

Thursday, June 30, 2022
Order No.: C2206048

RE: IKEA Red Hook

Dear Dan Marzano:

Centek/SanAir Technologies Laboratory received 20 sample(s) on 6/23/2022 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the case narrative. All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

Centek/SanAir Laboratories is distinctively qualified to meet your needs for precise and timely volatile organic compound analysis. We perform all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

Centek/SanAir Laboratories SOP TS-80

Analytical results relate to samples as received at laboratory. We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services.

Please contact your client service representative at (315) 431-9730 or myself, if you would like any additional information regarding this report.

This report cannot be reproduced except in its entirety, without prior written authorization.

Sincerely,

William Dobbin
Lead Technical Director

Disclaimer: The test results and procedures utilized, and laboratory interpretations of the data obtained by Centek/SanAir as contained in this report are believed by Centek to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of Centek for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages. ELAP does not offer certification for the following parameters by this method at present time, they are: 4-ethyltoluene, ethyl acetate, propylene, tetrahydrofuran, 4-PCH, sulfur derived and silcon series compounds.

Centek/SanAir Laboratories - Terms and Conditions

Chain of Custody
Chain of Custody must be completed in full. Lack of any missing information will affect your Turn Around Times (TAT)
Internal Chain of Custody provided when you notify Centek/SanAir Laboratories

Sample Submission
All samples sent to Centek/SanAir Laboratories should be accompanied by our Request for Analysis Form or Chain of Custody Form. A Chain of Custody will be provided with each order shipped for all sampling events, or if needed, one is available at our website www.Centek/SanAirLabs.us. Samples received after 3:00pm are considered to be a part of the next day's business.

Sample Media
Samples can be collected in a canister or a Tedlar bag. Depending on your analytical needs, Centek/SanAir Laboratories may receive a bulk, liquid, soil or other matrix sample for headspace analysis.

Blanks
Every sample is run with a surrogate or tracer compound at a pre-established concentration. The surrogate compound run with each sample is used as a standard to measure the performance of each run of the instrument. If required, a Minican can be provided containing nitrogen to be run as a trip blank with your samples.

Sampling Equipment
Centek/SanAir Laboratories will be happy to provide the canisters to carry-out your sampling event at no charge. The necessary accessories, such as regulators, tubing or personal sampling belts, are also provided to meet your sampling needs. The customer is responsible for all shipping charges to the client's destination and return shipping to the laboratory. Client assumes all responsibility for lost, stolen and any damages of equipment.

Any sampling equipment that exceeds holding times, cancellation of job or non-notice of rescheduling is subject to restocking fees

Turn Around time (TAT)
Centek/SanAir Laboratories will provide results to its clients in one business-week by 6:00pm EST after receipt of samples. For example, if samples are received on a Monday they are due on the following Monday by 6:00pm EST. Results are faxed or emailed to the requested location indicated on the Chain of Custody. Non-routine analysis may require more than the one business-week turnaround time. Please confirm non-routine sample turnaround times.

Reporting
Results are emailed or faxed at no additional charge. A hard copy of the result report is mailed within 24 hours of the faxing or emailing of your results. Cat "B" like packages are within 3-4 weeks from time of analysis (add 10%/sample for Cat B). Standard Electronic Disk Deliverables (EDD) is also available at no additional charge.

Payment Terms
Payment for all purchases shall be due within 30 days from date of invoice. The client agrees to pay a finance charge of 1.5% per month on the overdue balance and cost of collection, including attorney fees, if collection proceedings are necessary. You must have a completed credit application on file to extend credit. Purchase orders or checks information must be submitted for us to release results

Rush Turnaround Samples
Expedited turn around times is available. Please confirm rush turnaround times with Client Services before submitting samples.

Applicable Surcharges for Rush Turnaround Samples:
Same day TAT = 200%
Next business day TAT by Noon = 150%
Next business day TAT by 6:00pm = 100%
Second business day TAT by 6:00pm = 75%
Third business day TAT by 6:00pm = 50%
Fourth business day TAT by 6:00pm = 35%
Fifth business day = Standard

Statement of Confidentiality
Centek/SanAir Laboratories is aware of the importance of the confidentiality of results to many of our clients. Your name and data will be held in the strictest of confidence. We will not accept business that may constitute a conflict of interest. We commonly sign Confidential Nondisclosure Agreements with clients prior to beginning work. All research, results and reports will be kept strictly confidential. Secrecy Agreements and Disclosure Statements will be signed for the client if so specified. Results will be provided only to the addressee specified on the Chain of Custody Form submitted with the samples unless law requires release. Written permission is required from the addressee to release results to any other party.

Limitation on Liability
Centek/SanAir Laboratories warrants the test results to be accurate to the methodology and sample type for each sample submitted to Centek/SanAir Laboratories. In no event shall Centek/SanAir Laboratories be liable for direct, indirect, special, punitive, incidental, exemplary

or consequential damages, or any damages whatsoever, even if Centek/SanAir Laboratories has been previously advised of the possibility of such damages whether in an action under contract, negligence, or any other theory, arising out of or in connection with the use, inability to use or performance of the information, services, products and materials available from the laboratory or this site. These limitations shall apply notwithstanding any failure of essential purpose of any limited remedy. Because some jurisdictions do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of liability for consequential or incidental damages, the above limitations may not apply to you. This is a comprehensive limitation of liability that applies to all damages of any kind, including (without limitation) compensatory, direct, indirect or consequential damages, loss of data, income or profit and or loss of or damage to property and claims of third parties.

ASP CAT B DELIVERABLE PACKAGE
Table of Contents

1. Package Review Check List

2. Case Narrative
   a. Corrective actions

3. Sample Summary Form

4. Sample Tracking Form

5. Bottle Order

6. Analytical Results
   a. Form 1

7. Quality Control Summary
   a. Qc Summary Report
   b. IS Summary Report
   c. MB Summary Report
   d. LCS Summary Report
   e. MSD Summary Report
   f. IDL's
   g. Calculation

8. Sample Data
   a. Form 1 (if requested) TIC's
   b. Quantitation Report with Spectra

9. Standards Data
   a. Initial Calibration with Quant Report
   b. Continuing Calibration with Quant Report

10. Raw Data
   a. Tuning Data

11. Raw QC Data
   a. Method Blank
   b. LCS
   c. MS/MSD

12. Log Books
   a. Injection Log Book
   b. Standards Log Book
   c. QC Canister Log Book

Centek/SanAir Technologies Laboratory

Date: *30-Jul-22*

CLIENT: SOIL MECHANICS
Project: IKEA Red Hook
Lab Order: C2206048

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Centek Laboratories, LLC SOP TS-80
Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

NYSDEC ASP samples:
Canisters should be evacuated to a reading of less than or equal to 50 millitorr prior to shipment to sampling personnel. The vacuum in the canister will be field checked prior to sampling, and must read 28" of Hg (±2", vacuum, absolute) before a sample can be collected. After the sample has been collected, the pressure of the canister will be read and recorded again, and must be 5" of Hg (±1", vacuum, absolute) for the sample to be valid. Once received at the laboratory, the canister vacuum should be confirmed to be 5" of Hg,±1". Please record and report the pressure/vacuum of received canisters on the sample receipt paperwork. A pressure/vacuum reading should also be taken just prior to the withdrawal of sample from the canister, and recorded on the sample preparation log sheet. All regulators are calibrated to meet these requirements before they leave the laboratory. However, due to environmental conditions and use of the equipment Centek can not guarantee that this criteria can always be achieved.

See Corrective Action: [4520] Insufficient sample collected
See Corrective Action: [4521] LCS & LCSD did not meet criteria due to in house limits
See Corrective Action: [4522] IS did not meet criteria.
See Corrective Action: [4523] MS/MSD did not meet criteria.
See Corrective Action: [4524] CC did not meet criteria.

Centek/SanAir Technologies Laboratory

Corrective Action Report

Date Initiated: 23-Jun-22 **Corrective Action Report ID:** 4520

Initiated By: Robin Gushlaw **Department:** LOGIN

Corrective Action Description

CAR Summary: Insufficient sample collected

Description of Nonconformance Root/Cause(s): Samples C2206048-001 & 002 did not collect enough sample to meet the minimum detection limits. They do have enough sample to at least meet a 2x dilution.

Description of Corrective Action w/Proposed C.A.: Lab will continue to analyze and add a dilution factor to the final test results.

Performed By: Russell Pellegrino **Completion Date:** 29-Jun-22

Client Notification

Client Notification Required: No **Notified By:**

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: Lab was able to analyze samples with a 0.83x dilution factor. No further corrective action can be done.

Approval and Closure

Technical Director / Deputy Tech. Dir.: William Dobbin **Close Date:** 01-Jul-22

QA Officer Approval: Russell Pellegrino **QA Date:** 01-Jul-22

Last Updated BY russ Updated: 30-Jul-2022 2:52 PM Reported: 30-Jul-2022 2:52 PM

Centek/SanAir Technologies Laboratory

Corrective Action Report

Date Initiated: 24-Jun-22 **Corrective Action Report ID:** 4521

Initiated By: Russell Pellegrino **Department:** MSVOA

Corrective Action Description

CAR Summary: LCS & LCSD did not meet criteria due to in house limits

Description of Nonconformance Root/Cause(s): LCS & LCSD 6/24/22 & 6/27/22 did not meet criteria for several compounds % recoveries. All other QC required met criteria. The compounds that did not meet criteria were not needed for the associated sample dilutions. The LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister. The in house criteria was just updated and all compounds that failed have very tight limits. However all other criteria was met

Description of Corrective Action w/Proposed C.A.: Since the LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister and all other QC required met criteria, then continue with analysis. If results continue outside established limits then recalibrate system. All sets of data submitted.

Performed By: Russell Pellegrino **Completion Date:** 28-Jun-22

Client Notification

Client Notification Required: No **Notified By:**

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: When enough data points are collected update the in house criteria. If results continue outside established criteria then recalibrate the system. Perform new stock LCS. Monitor all quality control to meet established criteria. All sets of data submitted.

Approval and Closure

Technical Director / Deputy Tech. Dir.: Russell Pellegrino **Close Date:** 01-Jul-22

QA Officer Approval: William Dobbin **QA Date:** 01-Jul-22

Last Updated BY russ Updated: 30-Jul-2022 2:58 PM Reported: 30-Jul-2022 2:58 PM

Centek/SanAir Technologies Laboratory

Corrective Action Report

Date Initiated: 27-Jun-22 **Corrective Action Report ID:** 4522

Initiated By: Russell Pellegrino **Department:** MSVOA

Corrective Action Description

CAR Summary: IS did not meet criteria.

Description of Nonconformance Root/Cause(s): IS was high and did not meet criteria for samples C2206048-008. All surrogates met criteria Based on the chromatographic evidence, it appears that the contamination is from high concentration of interfering compounds.

Description of Corrective Action w/Proposed C.A.: Samples were analyzed further as dilutions with criteria being met. Due to matrix being in a canister it is difficult to see any signs of problems. All sets of data submitted.

Performed By: Russell Pellegrino **Completion Date:** 29-Jun-22

Client Notification

Client Notification Required: No **Notified By:**

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: Monitor all quality control for sample matrix interference. At this time no further corrective action taken. All sets of data submitted.

Approval and Closure

Technical Director / Deputy Tech. Dir.: Russell Pellegrino **Close Date:** 01-Jul-22

QA Officer Approval: William Dobbin **QA Date:** 01-Jul-22

Last Updated BY russ Updated: 30-Jul-2022 3:03 PM Reported: 30-Jul-2022 3:03 PM

Centek/SanAir Technologies Laboratory

Corrective Action Report

Date Initiated: 24-Jun-22 **Corrective Action Report ID:** 4523

Initiated By: Russell Pellegrino **Department:** MSVOA

Corrective Action Description

CAR Summary: MS/MSD did not meet criteria.

Description of Nonconformance Root/Cause(s): Several compounds did not meet criteria for sample C2206048-003 MS/MSD. Based on the chromatographic evidence this is most likely due to matrix interference.

Description of Corrective Action w/Proposed C.A.: Since MS/MSD show similar results at this time no further corrective action taken. All other QC meets criteria. The samples show many hits in the matrix which will interfere with spike results. All sets of data submitted

Performed By: Russell Pellegrino **Completion Date:** 26-Jun-22

Client Notification

Client Notification Required: No **Notified By:**

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: Monitor all quality control for sample matrix interference. At this time no further corrective action taken. All sets of data submitted

Approval and Closure

Technical Director / Deputy Tech. Dir.: Russell Pellegrino **Close Date:** 01-Jul-22

QA Officer Approval: William Dobbin **QA Date:** 01-Jul-22

Last Updated BY russ Updated: 30-Jul-2022 3:09 PM Reported: 30-Jul-2022 3:09 PM

Centek/SanAir Technologies Laboratory

Corrective Action Report

Date Initiated: 29-Jun-22
Corrective Action Report ID: 4524
Initiated By: Russell Pellegrino
Department: MSVOA

Corrective Action Description

CAR Summary: CC did not meet criteria.

Description of Nonconformance Root/Cause(s): Continuing calibration did not meet criteria on 6/29/221 for many compounds. The compounds were more sensitive. The compounds in question were not detected in the associated samples. The results would have been biased high.

Description of Corrective Action w/Proposed C.A.: The sample results should be considered valid, since the compounds of interest were not detected and would have been considered biased high. No corrective action taken at this time. If results continue to be outside established limits then recalibrate system. All sets of data submitted.

Performed By: Russell Pellegrino
Completion Date: 01-Jul-22

Client Notification

Client Notification Required: No
Notified By:
Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: Recalibrate the system ASAP if compound remains outside criteria. Monitoring of all quality control remains post initial calibration. All sets of data submitted.

Approval and Closure

Technical Director / Deputy Tech. Dir.: Russell Pellegrino
Close Date: 05-Jul-22

QA Officer Approval: William Dobbin
QA Date: 05-Jul-22

Last Updated BY russ
Updated: 30-Jul-2022 3:12 PM
Reported: 30-Jul-2022 3:12 PM

Centek Labs - Chain of Custody

Centek Laboratories
143 Midler Park Drive
Syracuse, NY 13206
315-431-9730
www.CentekLabs.com
Vapor Intrusion & IAQ

Site Name: IKEA
Project: Red Hook
PO#: 08-387
Quote # Q-50
Canister Order #: 7366

Detection Limit	Report Level
☐ 5ppbv	☐ Level I
☑ 1ug/M3	☐ Level II
☐ 1ug/M3 + 0.2 NYS	☑ Cat "B" Like
☐	☐

TAT Turnaround Time:	Check One	Rush TAT Surcharge %	Due Date:
5 Business Days	☑	0%	
4 Business Days	☐	25%	
3 Business Days	☐	50%	
2 Business Days	☐	75%	
*Next Day by 5pm	☐	100%	
*Next Day by Noon	☐	150%	
*Same Day	☐	200%	

*For Same and Next Day TAT Please Notify Lab

Company: Soil Mech

Report to:
Address: 3720 Merrick Rd.
City, State, Zip Seaford N.Y. 11783
Email: Soil Mech env@ earthlink.net
Phone: 516-221-7500

Company:
Check Here If Same: ☐

Invoice to:
Address:
City, State, Zip
Email:
Phone:

Sample ID	Date Sampled	Canister Number	Regulator Number	Analysis Request	Field Vacuum Start / Stop	Labs Vacuum** Recv/Analysis	Comments
Svw-1	6-21-22	569	1165	To 15 + Helium	30 / 17	-16/-6	
Svw-1 Dup	↑	131	1165	↑	30 / 17	-16 / -6	Duplicate
Svw-2 MS/MSD		1207	1346		30 / 9	-6 / -6	Matrix spike + Dup
Svw-3		1175	310		30 / 1	-1 / -1	
Svw-4		1317	120		29 / 1	-1 / -1	
Svw-5		245	155		30 / 5	-4 / -4	
Svw-6		237	124		30 / 2	-1 / -1	
Svw-7		1450	125		24 / 3	0 / 0	
Svw-8		242	187		30 / 3	-2 / -2	
Svw-9		362	1153		30 / 14	-12 / -12	
Svw-10		162	80		30 / 0	0 / 0	
Svw-11		320	48		30+ / 4	-1 / -1	
Svw-12		234	147		30 / 17	-14 / -14	
Svw-13		1192	175		30+ / 5	-3 / -3	
Svw-14		327	113		30+ / 6	-6 / -6	
Svw-15		465	109		30+ / 3	-1 / -1	
Svw-16	↓	98	151	↓	30 / 4	-4 / -4	
					/	/	

Chain of Custody	Print Name	Signature	Date/Time
Sampled by:	Steve Anderson		
Relinquished by:	Steve Anderson		6-21-22
Received at Lab by:	Robin Gushlaw	Robin Gushlaw	6/23/22

Courier: CIRCLE ONE
FedEx UPS Pickup/Dropoff

**For LAB USE ONLY
Work Order # C2206048

***Chain of Custody must be completed in full. Lack of any missing information will affect your Turn Around Times (TAT)

*** By signing Centek Labs Chain of Custody, you are accepting Centek Labs Terms and Conditions listed on the reverse side.

1 of 2

Centek/SanAir Laboratories

Centek Labs - Chain of Custody

Centek Laboratories
143 Midler Park Drive
Syracuse, NY 13206
315-431-9730
www.CentekLabs.com

Vapor Intrusion & IAQ

Site Name: IKEA
Project: Red Hook
PO#: 02-387
Quote # Q-38
Canister Order #: 9360

Detection Limit	Report Level
☐ 5ppbv	☐ Level I
☑ 1ug/M3	☐ Level II
☐ 1ug/M3 + 0.2 NYS	☑ Cat "B" Like
☐	☐

TAT Turnaround Time:	Check One	Rush TAT Surcharge %	Due Date:
5 Business Days	☑	0%	
4 Business Days	☐	25%	
3 Business Days	☐	50%	
2 Business Days	☐	75%	
*Next Day by 5pm	☐	100%	
*Next Day by Noon	☐	150%	
*Same Day	☐	200%	

*For Same and Next Day TAT Please Notify Lab

Company: Soil Mech
Report to:
Address: 8770 Merrick rd.
City, State, Zip Seaford NY 11783
Email: Soil Mech env@earthlink.net
Phone: 516-221-7600

Company:
Check Here If Same: ☐
Invoice to:
Address:
City, State, Zip
Email:
Phone:

Sample ID	Date Sampled	Canister Number	Regulator Number	Analysis Request	Field Vacuum Start / Stop	Labs Vacuum** Recv/Analysis	Comments
					/	/	
					/	/	
AS-1	6-21-22	1182	453		30 / 2	-1 / -1	
AS-2	↑	85	1152		28 / 0	-1 / -1	
TB-1	↓	158			/	+19 / +19	Trip Blank
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	
					/	/	

Chain of Custody	Print Name	Signature	Date/Time
Sampled by:	Steve Nelson		
Relinquished by:	Steve Nelson		6-21-22
Received at Lab by:	Robin Bushlow	Robin Bushlow	6/23/22

Courier: CIRCLE ONE
FedEx UPS Pickup/Dropoff

**For LAB USE ONLY
Work Order # C2206048

***Chain of Custody must be completed in full. Lack of any missing information will affect your Turn Around Times (TAT)

*** By signing Centek Labs Chain of Custody, you are accepting Centek Labs Terms and Conditions listed on the reverse side.

2 of 2

Centek/SanAir Laboratories

Date: *30-Jul-22*

Centek/SanAir Technologies Laboratory

CLIENT: SOIL MECHANICS
Project: IKEA Red Hook
Lab Order: C2206048

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C2206048-001A	SVW-1	569,1165	6/21/2022	6/23/2022
C2206048-002A	SVW-1 Dup	131,1165	6/21/2022	6/23/2022
C2206048-003A	SVW-2 MS/MSD	1207,1346	6/21/2022	6/23/2022
C2206048-004A	SVW-3	1175,310	6/21/2022	6/23/2022
C2206048-005A	SVW-4	1317,120	6/21/2022	6/23/2022
C2206048-006A	SVW-5	245,155	6/21/2022	6/23/2022
C2206048-007A	SVW-6	237,124	6/21/2022	6/23/2022

CLIENT: SOIL MECHANICS
Project: IKEA Red Hook
Lab Order: C2206048

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C2206048-008A	SVW-7	1450,125	6/21/2022	6/23/2022
C2206048-009A	SVW-8	242,187	6/21/2022	6/23/2022
C2206048-010A	SVW-9	362,1153	6/21/2022	6/23/2022
C2206048-011A	SVW-10	162,80	6/21/2022	6/23/2022
C2206048-012A	SVW-11	320,48	6/21/2022	6/23/2022
C2206048-013A	SVW-12	234,147	6/21/2022	6/23/2022
C2206048-014A	SVW-13	1192,175	6/21/2022	6/23/2022
C2206048-015A	SVW-14	327,113	6/21/2022	6/23/2022

CLIENT: SOIL MECHANICS
Project: IKEA Red Hook
Lab Order: C2206048

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C2206048-016A	SVW-15	465,109	6/21/2022	6/23/2022
C2206048-017A	SVW-16	98,151	6/21/2022	6/23/2022
C2206048-018A	AS-1	1182,453	6/21/2022	6/23/2022
C2206048-019A	AS-2	85,1152	6/21/2022	6/23/2022
C2206048-020A	TB-1	158		6/23/2022

Centek/SanAir Technologies Laboratory

Sample Receipt Checklist

Client Name: **SOIL MECHANICS**

Date and Time Received: **6/23/2022**

Work Order Number: **C2206048**

Received by: RG

Checklist completed by: [signature] 6/23/22 (Signature / Date)

Reviewed by: WD 6/23/2022 (Initials / Date)

Matrix:

Carrier name: UPS - Ground

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
COC signed when relinquished and received?	Yes ☑	No ☐	
COC agrees with sample labels?	Yes ☑	No ☐	
COC completely filled out?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☑	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section bel

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

QC'd By: WD DATE: 8/1/2022

Lab Order: C2206048
Client: SOIL MECHANICS
Project: IKEA Red Hook

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C2206048-001A	SVW-1	6/21/2022	Air	ug/M3 by Method TO15			6/29/2022
				ug/M3 by Method TO15			6/24/2022
				Helium Leak Test			6/30/2022
C2206048-002A	SVW-1 Dup			ug/M3 by Method TO15			6/24/2022
				Helium Leak Test			6/30/2022
C2206048-003A	SVW-2 MS/MSD			ug/M3 by Method TO15			6/24/2022
				ug/M3 by Method TO15			6/27/2022
				Helium Leak Test			6/30/2022
C2206048-004A	SVW-3			ug/M3 by Method TO15			6/24/2022
				ug/M3 by Method TO15			6/28/2022
				Helium Leak Test			6/30/2022
C2206048-005A	SVW-4			ug/M3 by Method TO15			6/24/2022
				ug/M3 by Method TO15			6/28/2022
				Helium Leak Test			6/30/2022
C2206048-006A	SVW-5			ug/M3 by Method TO15			6/28/2022
				ug/M3 by Method TO15			6/24/2022
				Helium Leak Test			6/30/2022
C2206048-007A	SVW-6			ug/M3 by Method TO15			6/24/2022
				ug/M3 by Method TO15			6/28/2022
				Helium Leak Test			6/30/2022
C2206048-008A	SVW-7			ug/M3 by Method TO15			6/27/2022
				ug/M3 by Method TO15			6/28/2022
				Helium Leak Test			6/30/2022
C2206048-009A	SVW-8			ug/M3 by Method TO15			6/24/2022
				ug/M3 by Method TO15			6/28/2022
				ug/M3 by Method TO15			6/28/2022
				Helium Leak Test			6/30/2022
C2206048-010A	SVW-9			ug/M3 by Method TO15			6/29/2022

Centek/SanAir Laboratories

Lab Order: C2206048
Client: SOIL MECHANICS
Project: IKEA Red Hook

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C2206048-010A	SVW-9	6/21/2022	Air	1ug/M3 by Method TO15			6/29/2022
				1ug/M3 by Method TO15			6/24/2022
				1ug/M3 by Method TO15			6/28/2022
				Helium Leak Test			6/30/2022
C2206048-011A	SVW-10			1ug/M3 by Method TO15			6/28/2022
				1ug/M3 by Method TO15			6/25/2022
				Helium Leak Test			6/30/2022
C2206048-012A	SVW-11			1ug/M3 by Method TO15			6/25/2022
				1ug/M3 by Method TO15			6/29/2022
				1ug/M3 by Method TO15			6/29/2022
				Helium Leak Test			6/30/2022
C2206048-013A	SVW-12			1ug/M3 by Method TO15			6/29/2022
				1ug/M3 by Method TO15			6/29/2022
				1ug/M3 by Method TO15			6/25/2022
				Helium Leak Test			6/30/2022
C2206048-014A	SVW-13			1ug/M3 by Method TO15			6/29/2022
				1ug/M3 by Method TO15			6/29/2022
				1ug/M3 by Method TO15			6/25/2022
				Helium Leak Test			6/30/2022
C2206048-015A	SVW-14			1ug/M3 by Method TO15			6/25/2022
				1ug/M3 by Method TO15			6/29/2022
				1ug/M3 by Method TO15			6/28/2022
				1ug/M3 by Method TO15			6/28/2022
				Helium Leak Test			6/30/2022
C2206048-016A	SVW-15			1ug/M3 by Method TO15			6/25/2022
				1ug/M3 by Method TO15			6/29/2022
				1ug/M3 by Method TO15			6/29/2022
				Helium Leak Test			6/30/2022

Centek/SanAir Laboratories

Lab Order: C2206048
Client: SOIL MECHANICS
Project: IKEA Red Hook

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C2206048-017A	SVW-16	6/21/2022	Air	1ug/M3 by Method TO15			6/25/2022
				1ug/M3 by Method TO15			6/29/2022
				1ug/M3 by Method TO15			6/29/2022
				Helium Leak Test			6/30/2022
C2206048-018A	AS-1			1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			6/24/2022
				1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			6/25/2022
C2206048-019A	AS-2			1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			6/24/2022
				1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			6/25/2022
C2206048-020A	TB-1			1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			6/29/2022

Centek/SanAir Laboratories

Centek/SanAir Technologies Laboratory
Air Quality Testing...It's a Gas
143 Midler Park Drive * Syracuse, NY 13206
TEL: 315-431-9730 * FAX: 315-431-9731

CANISTER ORDER

9360

30-Jul-22

SHIPPED TO:

Company: SOIL MECHANICS
Contact: Dan Marzano
Address: 3770 Merrick Road
Seaford, NY 11783
Phone: 516-221-7500
Quote ID: 0
Project:
PO:

Submitted By:
MadeBy: rjp

Ship Date: 6/14/2022
VIA: UPS - Ground
Due Date: 6/20/2022

Bottle Code	Bottle Type	TEST(s)	QTY
MC1400CC	1.4L Mini-Can	1ug/M3 by Method TO15	1
MC1000CC	1L Mini-Can	1ug/M3 by Method TO15	21

Can / Reg ID	Description
48	Time-Set Reg - 545 VI
80	Time-Set Reg VI
85	1L Mini-Can - 1098 VI
98	1L Mini-Can - 1099 VI
109	Time-Set Reg - 584 VI
113	Time-Set Reg - 587 VI
1317	1 L Mini-Can -7330 VI
1346	Time-Set Reg-1042 IAQ
1450	1L Mini-Can - 7651 VI
1153	Time-Set Reg-0745 VI
1165	Time-Set Reg-0678 VI
1175	1L Mini-Can - 1245 VI
1182	1L Mini-Can - 1237 VI
1192	1L Mini-Can - 1241 VI
1207	1.4L Mini-Can - 1367 VI
368	1L Mini-Can - 1317 VI
406	Time-Set Reg - 785 VI
453	Time-Set Reg - 832 VI
465	1L Mini-Can - 1369 VI
569	1L Mini-Can - 141 VI
1152	Time-Set Reg-0744 VI
242	1L Mini-Can - 1174 VI
245	1L Mini-Can - 1177 VI
310	Time-Set Reg - 733 VI
320	1L Mini-Can - 1283 VI
325	1L Mini-Can - 1288 VI
362	1L Mini-Can - 1311 VI
158	1L Mini-Can - 1128 VI
162	1L Mini-Can - 1132 VI
175	Time-Set Reg - 658 VI
187	Time-Set Reg - 625 VI
234	1L Mini-Can - 1165 VI

SHIPPED TO:

Company: SOIL MECHANICS
Contact: Dan Marzano
Address: 3770 Merrick Road
Seaford, NY 11783
Phone: 516-221-7500
Quote ID: 0
Project:
PO:

Submitted By:
MadeBy: rjp
Ship Date: 6/14/2022
VIA: UPS - Ground
Due Date: 6/20/2022

Bottle Code	Bottle Type	TEST(s)	QTY
237	1L Mini-Can - 1168 VI		
120	Time-Set Reg - 624 VI		
124	Time-Set Reg - 628 VI		
125	Time-Set Reg - 629 VI		
147	Time-Set Reg - 642 VI		
151	Time-Set Reg - 646 VI		
155	Time-Set Reg - 650 VI		

Comments: (19) 1L @ 2 hr. + (1) 1.4 @ 2hr + dupe + trip blank IKEA Site WAC 042222C-E, 051122A-H, 060222 E-F

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-001A

Client Sample ID: SVW-1
Tag Number: 569,1165
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-16			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: **NP**
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,1,2,2-Tetrachloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,1,2-Trichloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,1-Dichloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,1-Dichloroethene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,2,4-Trichlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,2,4-Trimethylbenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,2-Dibromoethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,2-Dichlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,2-Dichloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,2-Dichloropropane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,3,5-Trimethylbenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,3-butadiene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,3-Dichlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,4-Dichlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,4-Dioxane	< 0.25	0.25		ppbV	0.83	6/24/2022 4:49:00 PM
2,2,4-trimethylpentane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
4-ethyltoluene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Acetone	3.5	1.2		ppbV	4	6/29/2022 4:08:00 AM
Allyl chloride	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Benzene	0.083	0.12	J	ppbV	0.83	6/24/2022 4:49:00 PM
Benzyl chloride	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Bromodichloromethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Bromoform	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Bromomethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Carbon disulfide	0.21	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Carbon tetrachloride	0.39	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Chlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Chloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Chloroform	0.40	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Chloromethane	0.12	0.12	J	ppbV	0.83	6/24/2022 4:49:00 PM
cis-1,2-Dichloroethene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
cis-1,3-Dichloropropene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Cyclohexane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM

Qualifiers:

- . Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-001A

Client Sample ID: SVW-1
Tag Number: 569,1165
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Dibromochloromethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Ethyl acetate	0.32	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Ethylbenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Freon 11	0.83	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Freon 113	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Freon 114	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Freon 12	0.44	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Heptane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Hexachloro-1,3-butadiene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Hexane	0.13	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Isopropyl alcohol	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
m&p-Xylene	0.13	0.25	J	ppbV	0.83	6/24/2022 4:49:00 PM
Methyl Butyl Ketone	< 0.25	0.25		ppbV	0.83	6/24/2022 4:49:00 PM
Methyl Ethyl Ketone	0.22	0.25	J	ppbV	0.83	6/24/2022 4:49:00 PM
Methyl Isobutyl Ketone	0.30	0.25		ppbV	0.83	6/24/2022 4:49:00 PM
Methyl tert-butyl ether	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Methylene chloride	0.35	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
o-Xylene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Propylene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Styrene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Tetrachloroethylene	0.13	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Tetrahydrofuran	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Toluene	0.66	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
trans-1,2-Dichloroethene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
trans-1,3-Dichloropropene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Trichloroethene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Vinyl acetate	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Vinyl Bromide	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Vinyl chloride	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Surr: Bromofluorobenzene	90.0	46.7-129		%REC	0.83	6/24/2022 4:49:00 PM

NOTES:
Detection limit raise due to limited amount of samples

Qualifiers:

.	Results reported are not blank corrected
DL	Detection Limit
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
E	Estimated Value above quantitation range
J	Analyte detected below quantitation limit
ND	Not Detected at the Limit of Detection
SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-001A

Client Sample ID: SVW-1
Tag Number: 569,1165
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.65	0.65		ug/m3	0.83	6/24/2022 4:49:00 PM
1,1,2,2-Tetrachloroethane	< 0.82	0.82		ug/m3	0.83	6/24/2022 4:49:00 PM
1,1,2-Trichloroethane	< 0.65	0.65		ug/m3	0.83	6/24/2022 4:49:00 PM
1,1-Dichloroethane	< 0.49	0.49		ug/m3	0.83	6/24/2022 4:49:00 PM
1,1-Dichloroethene	< 0.48	0.48		ug/m3	0.83	6/24/2022 4:49:00 PM
1,2,4-Trichlorobenzene	< 0.89	0.89		ug/m3	0.83	6/24/2022 4:49:00 PM
1,2,4-Trimethylbenzene	< 0.59	0.59		ug/m3	0.83	6/24/2022 4:49:00 PM
1,2-Dibromoethane	< 0.92	0.92		ug/m3	0.83	6/24/2022 4:49:00 PM
1,2-Dichlorobenzene	< 0.72	0.72		ug/m3	0.83	6/24/2022 4:49:00 PM
1,2-Dichloroethane	< 0.49	0.49		ug/m3	0.83	6/24/2022 4:49:00 PM
1,2-Dichloropropane	< 0.55	0.55		ug/m3	0.83	6/24/2022 4:49:00 PM
1,3,5-Trimethylbenzene	< 0.59	0.59		ug/m3	0.83	6/24/2022 4:49:00 PM
1,3-butadiene	< 0.27	0.27		ug/m3	0.83	6/24/2022 4:49:00 PM
1,3-Dichlorobenzene	< 0.72	0.72		ug/m3	0.83	6/24/2022 4:49:00 PM
1,4-Dichlorobenzene	< 0.72	0.72		ug/m3	0.83	6/24/2022 4:49:00 PM
1,4-Dioxane	< 0.90	0.90		ug/m3	0.83	6/24/2022 4:49:00 PM
2,2,4-trimethylpentane	< 0.56	0.56		ug/m3	0.83	6/24/2022 4:49:00 PM
4-ethyltoluene	< 0.59	0.59		ug/m3	0.83	6/24/2022 4:49:00 PM
Acetone	8.4	2.8		ug/m3	4	6/29/2022 4:08:00 AM
Allyl chloride	< 0.38	0.38		ug/m3	0.83	6/24/2022 4:49:00 PM
Benzene	0.27	0.38	J	ug/m3	0.83	6/24/2022 4:49:00 PM
Benzyl chloride	< 0.69	0.69		ug/m3	0.83	6/24/2022 4:49:00 PM
Bromodichloromethane	< 0.80	0.80		ug/m3	0.83	6/24/2022 4:49:00 PM
Bromoform	< 1.2	1.2		ug/m3	0.83	6/24/2022 4:49:00 PM
Bromomethane	< 0.47	0.47		ug/m3	0.83	6/24/2022 4:49:00 PM
Carbon disulfide	0.65	0.37		ug/m3	0.83	6/24/2022 4:49:00 PM
Carbon tetrachloride	2.5	0.75		ug/m3	0.83	6/24/2022 4:49:00 PM
Chlorobenzene	< 0.55	0.55		ug/m3	0.83	6/24/2022 4:49:00 PM
Chloroethane	< 0.32	0.32		ug/m3	0.83	6/24/2022 4:49:00 PM
Chloroform	1.9	0.59		ug/m3	0.83	6/24/2022 4:49:00 PM
Chloromethane	0.24	0.25	J	ug/m3	0.83	6/24/2022 4:49:00 PM
cis-1,2-Dichloroethene	< 0.48	0.48		ug/m3	0.83	6/24/2022 4:49:00 PM
cis-1,3-Dichloropropene	< 0.54	0.54		ug/m3	0.83	6/24/2022 4:49:00 PM
Cyclohexane	< 0.41	0.41		ug/m3	0.83	6/24/2022 4:49:00 PM
Dibromochloromethane	< 1.0	1.0		ug/m3	0.83	6/24/2022 4:49:00 PM
Ethyl acetate	1.1	0.43		ug/m3	0.83	6/24/2022 4:49:00 PM
Ethylbenzene	< 0.52	0.52		ug/m3	0.83	6/24/2022 4:49:00 PM
Freon 11	4.7	0.67		ug/m3	0.83	6/24/2022 4:49:00 PM
Freon 113	< 0.92	0.92		ug/m3	0.83	6/24/2022 4:49:00 PM
Freon 114	< 0.84	0.84		ug/m3	0.83	6/24/2022 4:49:00 PM

Qualifiers:

- . Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-001A

Client Sample ID: SVW-1
Tag Number: 569,1165
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.2	0.59		ug/m3	0.83	6/24/2022 4:49:00 PM
Heptane	< 0.49	0.49		ug/m3	0.83	6/24/2022 4:49:00 PM
Hexachloro-1,3-butadiene	< 1.3	1.3		ug/m3	0.83	6/24/2022 4:49:00 PM
Hexane	0.47	0.42		ug/m3	0.83	6/24/2022 4:49:00 PM
Isopropyl alcohol	< 0.29	0.29		ug/m3	0.83	6/24/2022 4:49:00 PM
m&p-Xylene	0.58	1.1	J	ug/m3	0.83	6/24/2022 4:49:00 PM
Methyl Butyl Ketone	< 1.0	1.0		ug/m3	0.83	6/24/2022 4:49:00 PM
Methyl Ethyl Ketone	0.66	0.74	J	ug/m3	0.83	6/24/2022 4:49:00 PM
Methyl Isobutyl Ketone	1.2	1.0		ug/m3	0.83	6/24/2022 4:49:00 PM
Methyl tert-butyl ether	< 0.43	0.43		ug/m3	0.83	6/24/2022 4:49:00 PM
Methylene chloride	1.2	0.42		ug/m3	0.83	6/24/2022 4:49:00 PM
o-Xylene	< 0.52	0.52		ug/m3	0.83	6/24/2022 4:49:00 PM
Propylene	< 0.21	0.21		ug/m3	0.83	6/24/2022 4:49:00 PM
Styrene	< 0.51	0.51		ug/m3	0.83	6/24/2022 4:49:00 PM
Tetrachloroethylene	0.90	0.81		ug/m3	0.83	6/24/2022 4:49:00 PM
Tetrahydrofuran	< 0.35	0.35		ug/m3	0.83	6/24/2022 4:49:00 PM
Toluene	2.5	0.45		ug/m3	0.83	6/24/2022 4:49:00 PM
trans-1,2-Dichloroethene	< 0.48	0.48		ug/m3	0.83	6/24/2022 4:49:00 PM
trans-1,3-Dichloropropene	< 0.54	0.54		ug/m3	0.83	6/24/2022 4:49:00 PM
Trichloroethene	< 0.64	0.64		ug/m3	0.83	6/24/2022 4:49:00 PM
Vinyl acetate	< 0.42	0.42		ug/m3	0.83	6/24/2022 4:49:00 PM
Vinyl Bromide	< 0.52	0.52		ug/m3	0.83	6/24/2022 4:49:00 PM
Vinyl chloride	< 0.31	0.31		ug/m3	0.83	6/24/2022 4:49:00 PM

NOTES:
Detection limit raise due to limited amount of samples

Qualifiers:

*	Results reported are not blank corrected
DL	Detection Limit
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
E	Estimated Value above quantitation range
J	Analyte detected below quantitation limit
ND	Not Detected at the Limit of Detection
SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-1 Dup
Lab Order:	C2206048	**Tag Number:**	131,1165
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-002A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-16			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: **NP**
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,1,2,2-Tetrachloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,1,2-Trichloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,1-Dichloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,1-Dichloroethene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,2,4-Trichlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,2,4-Trimethylbenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,2-Dibromoethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,2-Dichlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,2-Dichloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,2-Dichloropropane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,3,5-Trimethylbenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,3-butadiene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,3-Dichlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,4-Dichlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,4-Dioxane	< 0.25	0.25		ppbV	0.83	6/24/2022 6:04:00 PM
2,2,4-trimethylpentane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
4-ethyltoluene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Acetone	1.7	0.25		ppbV	0.83	6/24/2022 6:04:00 PM
Allyl chloride	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Benzene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Benzyl chloride	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Bromodichloromethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Bromoform	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Bromomethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Carbon disulfide	0.12	0.12	J	ppbV	0.83	6/24/2022 6:04:00 PM
Carbon tetrachloride	0.39	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Chlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Chloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Chloroform	0.40	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Chloromethane	0.22	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
cis-1,2-Dichloroethene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
cis-1,3-Dichloropropene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Cyclohexane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM

Qualifiers:

- . Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-002A

Client Sample ID: SVW-1 Dup
Tag Number: 131,1165
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Quat	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Ethyl acetate	0.25	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Ethylbenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Freon 11	0.84	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Freon 113	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Freon 114	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Freon 12	0.46	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Heptane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Hexachloro-1,3-butadiene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Hexane	0.11	0.12	J	ppbV	0.83	6/24/2022 6:04:00 PM
Isopropyl alcohol	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
m&p-Xylene	0.12	0.25	J	ppbV	0.83	6/24/2022 6:04:00 PM
Methyl Butyl Ketone	< 0.25	0.25		ppbV	0.83	6/24/2022 6:04:00 PM
Methyl Ethyl Ketone	0.19	0.25	J	ppbV	0.83	6/24/2022 6:04:00 PM
Methyl Isobutyl Ketone	< 0.25	0.25		ppbV	0.83	6/24/2022 6:04:00 PM
Methyl tert-butyl ether	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Methylene chloride	0.20	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
o-Xylene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Propylene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Styrene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Tetrachloroethylene	0.24	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Tetrahydrofuran	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Toluene	0.56	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
trans-1,2-Dichloroethene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
trans-1,3-Dichloropropene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Trichloroethene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Vinyl acetate	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Vinyl Bromide	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Vinyl chloride	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Surr: Bromofluorobenzene	88.0	46.7-129		%REC	0.83	6/24/2022 6:04:00 PM

NOTES:
Detection limit raise due to limited amount of samples

Qualifiers:

*	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-002A

Client Sample ID: SVW-1 Dup
Tag Number: 131,1165
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.65	0.65		ug/m3	0.83	6/24/2022 6:04:00 PM
1,1,2,2-Tetrachloroethane	< 0.82	0.82		ug/m3	0.83	6/24/2022 6:04:00 PM
1,1,2-Trichloroethane	< 0.65	0.65		ug/m3	0.83	6/24/2022 6:04:00 PM
1,1-Dichloroethane	< 0.49	0.49		ug/m3	0.83	6/24/2022 6:04:00 PM
1,1-Dichloroethene	< 0.48	0.48		ug/m3	0.83	6/24/2022 6:04:00 PM
1,2,4-Trichlorobenzene	< 0.89	0.89		ug/m3	0.83	6/24/2022 6:04:00 PM
1,2,4-Trimethylbenzene	< 0.59	0.59		ug/m3	0.83	6/24/2022 6:04:00 PM
1,2-Dibromoethane	< 0.92	0.92		ug/m3	0.83	6/24/2022 6:04:00 PM
1,2-Dichlorobenzene	< 0.72	0.72		ug/m3	0.83	6/24/2022 6:04:00 PM
1,2-Dichloroethane	< 0.49	0.49		ug/m3	0.83	6/24/2022 6:04:00 PM
1,2-Dichloropropane	< 0.55	0.55		ug/m3	0.83	6/24/2022 6:04:00 PM
1,3,5-Trimethylbenzene	< 0.59	0.59		ug/m3	0.83	6/24/2022 6:04:00 PM
1,3-butadiene	< 0.27	0.27		ug/m3	0.83	6/24/2022 6:04:00 PM
1,3-Dichlorobenzene	< 0.72	0.72		ug/m3	0.83	6/24/2022 6:04:00 PM
1,4-Dichlorobenzene	< 0.72	0.72		ug/m3	0.83	6/24/2022 6:04:00 PM
1,4-Dioxane	< 0.90	0.90		ug/m3	0.83	6/24/2022 6:04:00 PM
2,2,4-trimethylpentane	< 0.56	0.56		ug/m3	0.83	6/24/2022 6:04:00 PM
4-ethyltoluene	< 0.59	0.59		ug/m3	0.83	6/24/2022 6:04:00 PM
Acetone	4.1	0.59		ug/m3	0.83	6/24/2022 6:04:00 PM
Allyl chloride	< 0.38	0.38		ug/m3	0.83	6/24/2022 6:04:00 PM
Benzene	< 0.38	0.38		ug/m3	0.83	6/24/2022 6:04:00 PM
Benzyl chloride	< 0.69	0.69		ug/m3	0.83	6/24/2022 6:04:00 PM
Bromodichloromethane	< 0.80	0.80		ug/m3	0.83	6/24/2022 6:04:00 PM
Bromoform	< 1.2	1.2		ug/m3	0.83	6/24/2022 6:04:00 PM
Bromomethane	< 0.47	0.47		ug/m3	0.83	6/24/2022 6:04:00 PM
Carbon disulfide	0.36	0.37	J	ug/m3	0.83	6/24/2022 6:04:00 PM
Carbon tetrachloride	2.5	0.75		ug/m3	0.83	6/24/2022 6:04:00 PM
Chlorobenzene	< 0.55	0.55		ug/m3	0.83	6/24/2022 6:04:00 PM
Chloroethane	< 0.32	0.32		ug/m3	0.83	6/24/2022 6:04:00 PM
Chloroform	1.9	0.59		ug/m3	0.83	6/24/2022 6:04:00 PM
Chloromethane	0.46	0.25		ug/m3	0.83	6/24/2022 6:04:00 PM
cis-1,2-Dichloroethene	< 0.48	0.48		ug/m3	0.83	6/24/2022 6:04:00 PM
cis-1,3-Dichloropropene	< 0.54	0.54		ug/m3	0.83	6/24/2022 6:04:00 PM
Cyclohexane	< 0.41	0.41		ug/m3	0.83	6/24/2022 6:04:00 PM
Dibromochloromethane	< 1.0	1.0		ug/m3	0.83	6/24/2022 6:04:00 PM
Ethyl acetate	0.90	0.43		ug/m3	0.83	6/24/2022 6:04:00 PM
Ethylbenzene	< 0.52	0.52		ug/m3	0.83	6/24/2022 6:04:00 PM
Freon 11	4.7	0.67		ug/m3	0.83	6/24/2022 6:04:00 PM
Freon 113	< 0.92	0.92		ug/m3	0.83	6/24/2022 6:04:00 PM
Freon 114	< 0.84	0.84		ug/m3	0.83	6/24/2022 6:04:00 PM

Qualifiers:

- . Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-002A

Client Sample ID: SVW-1 Dup
Tag Number: 131,1165
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.3	0.59		ug/m3	0.83	6/24/2022 6:04:00 PM
Heptane	< 0.49	0.49		ug/m3	0.83	6/24/2022 6:04:00 PM
Hexachloro-1,3-butadiene	< 1.3	1.3		ug/m3	0.83	6/24/2022 6:04:00 PM
Hexane	0.38	0.42	J	ug/m3	0.83	6/24/2022 6:04:00 PM
Isopropyl alcohol	< 0.29	0.29		ug/m3	0.83	6/24/2022 6:04:00 PM
m&p-Xylene	0.54	1.1	J	ug/m3	0.83	6/24/2022 6:04:00 PM
Methyl Butyl Ketone	< 1.0	1.0		ug/m3	0.83	6/24/2022 6:04:00 PM
Methyl Ethyl Ketone	0.56	0.74	J	ug/m3	0.83	6/24/2022 6:04:00 PM
Methyl Isobutyl Ketone	< 1.0	1.0		ug/m3	0.83	6/24/2022 6:04:00 PM
Methyl tert-butyl ether	< 0.43	0.43		ug/m3	0.83	6/24/2022 6:04:00 PM
Methylene chloride	0.69	0.42		ug/m3	0.83	6/24/2022 6:04:00 PM
o-Xylene	< 0.52	0.52		ug/m3	0.83	6/24/2022 6:04:00 PM
Propylene	< 0.21	0.21		ug/m3	0.83	6/24/2022 6:04:00 PM
Styrene	< 0.51	0.51		ug/m3	0.83	6/24/2022 6:04:00 PM
Tetrachloroethylene	1.6	0.81		ug/m3	0.83	6/24/2022 6:04:00 PM
Tetrahydrofuran	< 0.35	0.35		ug/m3	0.83	6/24/2022 6:04:00 PM
Toluene	2.1	0.45		ug/m3	0.83	6/24/2022 6:04:00 PM
trans-1,2-Dichloroethene	< 0.48	0.48		ug/m3	0.83	6/24/2022 6:04:00 PM
trans-1,3-Dichloropropene	< 0.54	0.54		ug/m3	0.83	6/24/2022 6:04:00 PM
Trichloroethene	< 0.64	0.64		ug/m3	0.83	6/24/2022 6:04:00 PM
Vinyl acetate	< 0.42	0.42		ug/m3	0.83	6/24/2022 6:04:00 PM
Vinyl Bromide	< 0.52	0.52		ug/m3	0.83	6/24/2022 6:04:00 PM
Vinyl chloride	< 0.31	0.31		ug/m3	0.83	6/24/2022 6:04:00 PM

NOTES:
Detection limit raise due to limited amount of samples

Qualifiers:

.	Results reported are not blank corrected
DL	Detection Limit
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
E	Estimated Value above quantitation range
J	Analyte detected below quantitation limit
ND	Not Detected at the Limit of Detection
SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-003A

Client Sample ID: SVW-2 MS/MSD
Tag Number: 1207,1346
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-6			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: NP
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/24/2022 1:51:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Acetone	19	3.0		ppbV	10	6/27/2022 2:02:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Benzene	0.35	0.15		ppbV	1	6/24/2022 1:51:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Carbon disulfide	0.10	0.15	J	ppbV	1	6/24/2022 1:51:00 PM
Carbon tetrachloride	0.35	0.15		ppbV	1	6/24/2022 1:51:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Chloroform	0.80	0.15		ppbV	1	6/24/2022 1:51:00 PM
Chloromethane	0.44	0.15		ppbV	1	6/24/2022 1:51:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM

Qualifiers:

- . Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-003A

Client Sample ID: SVW-2 MS/MSD
Tag Number: 1207,1346
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Ethyl acetate	0.33	0.15		ppbV	1	6/24/2022 1:51:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Freon 11	0.63	0.15		ppbV	1	6/24/2022 1:51:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Freon 12	0.50	0.15		ppbV	1	6/24/2022 1:51:00 PM
Heptane	0.17	0.15		ppbV	1	6/24/2022 1:51:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Hexane	0.21	0.15		ppbV	1	6/24/2022 1:51:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
m&p-Xylene	0.19	0.30	J	ppbV	1	6/24/2022 1:51:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 1:51:00 PM
Methyl Ethyl Ketone	0.31	0.30		ppbV	1	6/24/2022 1:51:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 1:51:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Methylene chloride	0.51	0.15		ppbV	1	6/24/2022 1:51:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Tetrachloroethylene	0.26	0.15		ppbV	1	6/24/2022 1:51:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Toluene	0.77	0.15		ppbV	1	6/24/2022 1:51:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Trichloroethene	0.23	0.15		ppbV	1	6/24/2022 1:51:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Surr: Bromofluorobenzene	92.0	46.7-129		%REC	1	6/24/2022 1:51:00 PM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-003A

Client Sample ID: SVW-2 MS/MSD
Tag Number: 1207,1346
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 1:51:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/24/2022 1:51:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 1:51:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 1:51:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 1:51:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/24/2022 1:51:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/24/2022 1:51:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/24/2022 1:51:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 1:51:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 1:51:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/24/2022 1:51:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/24/2022 1:51:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/24/2022 1:51:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 1:51:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 1:51:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/24/2022 1:51:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	6/24/2022 1:51:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/24/2022 1:51:00 PM
Acetone	45	7.1		ug/m3	10	6/27/2022 2:02:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/24/2022 1:51:00 PM
Benzene	1.1	0.48		ug/m3	1	6/24/2022 1:51:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/24/2022 1:51:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/24/2022 1:51:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/24/2022 1:51:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/24/2022 1:51:00 PM
Carbon disulfide	0.31	0.47	J	ug/m3	1	6/24/2022 1:51:00 PM
Carbon tetrachloride	2.2	0.94		ug/m3	1	6/24/2022 1:51:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/24/2022 1:51:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/24/2022 1:51:00 PM
Chloroform	3.9	0.73		ug/m3	1	6/24/2022 1:51:00 PM
Chloromethane	0.91	0.31		ug/m3	1	6/24/2022 1:51:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 1:51:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 1:51:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/24/2022 1:51:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/24/2022 1:51:00 PM
Ethyl acetate	1.2	0.54		ug/m3	1	6/24/2022 1:51:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	6/24/2022 1:51:00 PM
Freon 11	3.5	0.84		ug/m3	1	6/24/2022 1:51:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/24/2022 1:51:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/24/2022 1:51:00 PM

Qualifiers:

- . Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-003A

Client Sample ID: SVW-2 MS/MSD
Tag Number: 1207,1346
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.5	0.74		ug/m3	1	6/24/2022 1:51:00 PM
Heptane	0.70	0.61		ug/m3	1	6/24/2022 1:51:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/24/2022 1:51:00 PM
Hexane	0.74	0.53		ug/m3	1	6/24/2022 1:51:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/24/2022 1:51:00 PM
m&p-Xylene	0.82	1.3	J	ug/m3	1	6/24/2022 1:51:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 1:51:00 PM
Methyl Ethyl Ketone	0.91	0.88		ug/m3	1	6/24/2022 1:51:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 1:51:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/24/2022 1:51:00 PM
Methylene chloride	1.8	0.52		ug/m3	1	6/24/2022 1:51:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	6/24/2022 1:51:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/24/2022 1:51:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/24/2022 1:51:00 PM
Tetrachloroethylene	1.8	1.0		ug/m3	1	6/24/2022 1:51:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/24/2022 1:51:00 PM
Toluene	2.9	0.57		ug/m3	1	6/24/2022 1:51:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 1:51:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 1:51:00 PM
Trichloroethene	1.2	0.81		ug/m3	1	6/24/2022 1:51:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/24/2022 1:51:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/24/2022 1:51:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/24/2022 1:51:00 PM

Qualifiers:

- `*` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-004A

Client Sample ID: SVW-3
Tag Number: 1175,310
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-1			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: NP
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.17	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,1,2-Trichloroethane	0.19	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,2,4-Trimethylbenzene	0.17	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,2-Dichloroethane	0.71	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,2-Dichloropropane	1.4	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,3-Dichlorobenzene	0.43	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/24/2022 6:48:00 PM
2,2,4-trimethylpentane	0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Acetone	41	6.0		ppbV	20	6/28/2022 12:09:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Benzene	0.18	0.15		ppbV	1	6/24/2022 6:48:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Carbon disulfide	10	3.0		ppbV	20	6/28/2022 12:09:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Chloroethane	0.27	0.15		ppbV	1	6/24/2022 6:48:00 PM
Chloroform	1.2	0.15		ppbV	1	6/24/2022 6:48:00 PM
Chloromethane	0.51	0.15		ppbV	1	6/24/2022 6:48:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Cyclohexane	0.28	0.15		ppbV	1	6/24/2022 6:48:00 PM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-004A

Client Sample ID: SVW-3
Tag Number: 1175,310
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Ethyl acetate	0.35	0.15		ppbV	1	6/24/2022 6:48:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Freon 11	1.7	0.15		ppbV	1	6/24/2022 6:48:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Freon 12	0.60	0.15		ppbV	1	6/24/2022 6:48:00 PM
Heptane	0.14	0.15	J	ppbV	1	6/24/2022 6:48:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Hexane	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
m&p-Xylene	0.21	0.30	J	ppbV	1	6/24/2022 6:48:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 6:48:00 PM
Methyl Ethyl Ketone	1.5	0.30		ppbV	1	6/24/2022 6:48:00 PM
Methyl Isobutyl Ketone	0.40	0.30		ppbV	1	6/24/2022 6:48:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Methylene chloride	0.85	0.15		ppbV	1	6/24/2022 6:48:00 PM
o-Xylene	0.11	0.15	J	ppbV	1	6/24/2022 6:48:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Tetrachloroethylene	0.45	0.15		ppbV	1	6/24/2022 6:48:00 PM
Tetrahydrofuran	1.7	0.15		ppbV	1	6/24/2022 6:48:00 PM
Toluene	0.63	0.15		ppbV	1	6/24/2022 6:48:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Trichloroethene	0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Surr: Bromofluorobenzene	93.0	46.7-129		%REC	1	6/24/2022 6:48:00 PM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-004A

Client Sample ID: SVW-3
Tag Number: 1175,310
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.93	0.82		ug/m3	1	6/24/2022 6:48:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/24/2022 6:48:00 PM
1,1,2-Trichloroethane	1.0	0.82		ug/m3	1	6/24/2022 6:48:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 6:48:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 6:48:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/24/2022 6:48:00 PM
1,2,4-Trimethylbenzene	0.84	0.74		ug/m3	1	6/24/2022 6:48:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/24/2022 6:48:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 6:48:00 PM
1,2-Dichloroethane	2.9	0.61		ug/m3	1	6/24/2022 6:48:00 PM
1,2-Dichloropropane	6.4	0.69		ug/m3	1	6/24/2022 6:48:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/24/2022 6:48:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/24/2022 6:48:00 PM
1,3-Dichlorobenzene	2.6	0.90		ug/m3	1	6/24/2022 6:48:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 6:48:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/24/2022 6:48:00 PM
2,2,4-trimethylpentane	0.70	0.70		ug/m3	1	6/24/2022 6:48:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/24/2022 6:48:00 PM
Acetone	98	14		ug/m3	20	6/28/2022 12:09:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/24/2022 6:48:00 PM
Benzene	0.57	0.48		ug/m3	1	6/24/2022 6:48:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/24/2022 6:48:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/24/2022 6:48:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/24/2022 6:48:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/24/2022 6:48:00 PM
Carbon disulfide	31	9.3		ug/m3	20	6/28/2022 12:09:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/24/2022 6:48:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/24/2022 6:48:00 PM
Chloroethane	0.71	0.40		ug/m3	1	6/24/2022 6:48:00 PM
Chloroform	5.7	0.73		ug/m3	1	6/24/2022 6:48:00 PM
Chloromethane	1.1	0.31		ug/m3	1	6/24/2022 6:48:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 6:48:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 6:48:00 PM
Cyclohexane	0.96	0.52		ug/m3	1	6/24/2022 6:48:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/24/2022 6:48:00 PM
Ethyl acetate	1.3	0.54		ug/m3	1	6/24/2022 6:48:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	6/24/2022 6:48:00 PM
Freon 11	9.7	0.84		ug/m3	1	6/24/2022 6:48:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/24/2022 6:48:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/24/2022 6:48:00 PM

Qualifiers:

- `.` Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-004A

Client Sample ID: SVW-3
Tag Number: 1175,310
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	3.0	0.74		ug/m3	1	6/24/2022 6:48:00 PM
Heptane	0.57	0.61	J	ug/m3	1	6/24/2022 6:48:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/24/2022 6:48:00 PM
Hexane	< 0.53	0.53		ug/m3	1	6/24/2022 6:48:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/24/2022 6:48:00 PM
m&p-Xylene	0.91	1.3	J	ug/m3	1	6/24/2022 6:48:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 6:48:00 PM
Methyl Ethyl Ketone	4.5	0.88		ug/m3	1	6/24/2022 6:48:00 PM
Methyl Isobutyl Ketone	1.6	1.2		ug/m3	1	6/24/2022 6:48:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/24/2022 6:48:00 PM
Methylene chloride	3.0	0.52		ug/m3	1	6/24/2022 6:48:00 PM
o-Xylene	0.48	0.65	J	ug/m3	1	6/24/2022 6:48:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/24/2022 6:48:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/24/2022 6:48:00 PM
Tetrachloroethylene	3.1	1.0		ug/m3	1	6/24/2022 6:48:00 PM
Tetrahydrofuran	5.1	0.44		ug/m3	1	6/24/2022 6:48:00 PM
Toluene	2.4	0.57		ug/m3	1	6/24/2022 6:48:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 6:48:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 6:48:00 PM
Trichloroethene	0.81	0.81		ug/m3	1	6/24/2022 6:48:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/24/2022 6:48:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/24/2022 6:48:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/24/2022 6:48:00 PM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-005A

Client Sample ID: SVW-4
Tag Number: 1317,120
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-1			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: NP
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,2,4-Trimethylbenzene	0.12	0.15	J	ppbV	1	6/24/2022 7:32:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,4-Dichlorobenzene	0.42	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/24/2022 7:32:00 PM
2,2,4-trimethylpentane	0.23	0.15		ppbV	1	6/24/2022 7:32:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Acetone	35	6.0		ppbV	20	6/28/2022 12:51:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Benzene	0.34	0.15		ppbV	1	6/24/2022 7:32:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Carbon disulfide	11	3.0		ppbV	20	6/28/2022 12:51:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Chlorobenzene	0.54	0.15		ppbV	1	6/24/2022 7:32:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Chloroform	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Cyclohexane	0.26	0.15		ppbV	1	6/24/2022 7:32:00 PM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-005A

Client Sample ID: SVW-4
Tag Number: 1317,120
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Ethyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Freon 11	0.32	0.15		ppbV	1	6/24/2022 7:32:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Freon 12	0.67	0.15		ppbV	1	6/24/2022 7:32:00 PM
Heptane	0.26	0.15		ppbV	1	6/24/2022 7:32:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Hexane	1.5	0.15		ppbV	1	6/24/2022 7:32:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
m&p-Xylene	0.30	0.30		ppbV	1	6/24/2022 7:32:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 7:32:00 PM
Methyl Ethyl Ketone	0.92	0.30		ppbV	1	6/24/2022 7:32:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 7:32:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Methylene chloride	0.25	0.15		ppbV	1	6/24/2022 7:32:00 PM
o-Xylene	0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Tetrachloroethylene	0.11	0.15	J	ppbV	1	6/24/2022 7:32:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Toluene	1.4	0.15		ppbV	1	6/24/2022 7:32:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Surr: Bromofluorobenzene	99.0	46.7-129		%REC	1	6/24/2022 7:32:00 PM

Qualifiers:

*	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-005A

Client Sample ID: SVW-4
Tag Number: 1317,120
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 7:32:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/24/2022 7:32:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 7:32:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 7:32:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 7:32:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/24/2022 7:32:00 PM
1,2,4-Trimethylbenzene	0.59	0.74	J	ug/m3	1	6/24/2022 7:32:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/24/2022 7:32:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 7:32:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 7:32:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/24/2022 7:32:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/24/2022 7:32:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/24/2022 7:32:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 7:32:00 PM
1,4-Dichlorobenzene	2.5	0.90		ug/m3	1	6/24/2022 7:32:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/24/2022 7:32:00 PM
2,2,4-trimethylpentane	1.1	0.70		ug/m3	1	6/24/2022 7:32:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/24/2022 7:32:00 PM
Acetone	82	14		ug/m3	20	6/28/2022 12:51:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/24/2022 7:32:00 PM
Benzene	1.1	0.48		ug/m3	1	6/24/2022 7:32:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/24/2022 7:32:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/24/2022 7:32:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/24/2022 7:32:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/24/2022 7:32:00 PM
Carbon disulfide	34	9.3		ug/m3	20	6/28/2022 12:51:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/24/2022 7:32:00 PM
Chlorobenzene	2.5	0.69		ug/m3	1	6/24/2022 7:32:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/24/2022 7:32:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	6/24/2022 7:32:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/24/2022 7:32:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 7:32:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 7:32:00 PM
Cyclohexane	0.89	0.52		ug/m3	1	6/24/2022 7:32:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/24/2022 7:32:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	6/24/2022 7:32:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	6/24/2022 7:32:00 PM
Freon 11	1.8	0.84		ug/m3	1	6/24/2022 7:32:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/24/2022 7:32:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/24/2022 7:32:00 PM

Qualifiers:

- `*` Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-005A

Client Sample ID: SVW-4
Tag Number: 1317,120
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	3.3	0.74		ug/m3	1	6/24/2022 7:32:00 PM
Heptane	1.1	0.61		ug/m3	1	6/24/2022 7:32:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/24/2022 7:32:00 PM
Hexane	5.4	0.53		ug/m3	1	6/24/2022 7:32:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/24/2022 7:32:00 PM
m&p-Xylene	1.3	1.3		ug/m3	1	6/24/2022 7:32:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 7:32:00 PM
Methyl Ethyl Ketone	2.7	0.88		ug/m3	1	6/24/2022 7:32:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 7:32:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/24/2022 7:32:00 PM
Methylene chloride	0.87	0.52		ug/m3	1	6/24/2022 7:32:00 PM
o-Xylene	0.65	0.65		ug/m3	1	6/24/2022 7:32:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/24/2022 7:32:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/24/2022 7:32:00 PM
Tetrachloroethylene	0.75	1.0	J	ug/m3	1	6/24/2022 7:32:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/24/2022 7:32:00 PM
Toluene	5.4	0.57		ug/m3	1	6/24/2022 7:32:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 7:32:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 7:32:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	6/24/2022 7:32:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/24/2022 7:32:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/24/2022 7:32:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/24/2022 7:32:00 PM

Qualifiers:

- `*` Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-006A

Client Sample ID: SVW-5
Tag Number: 245,155
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Quat	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-4			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: NP
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,3-Dichlorobenzene	0.16	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/24/2022 8:16:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Acetone	20	3.0		ppbV	10	6/28/2022 1:33:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Benzene	0.17	0.15		ppbV	1	6/24/2022 8:16:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Carbon disulfide	1.1	0.15		ppbV	1	6/24/2022 8:16:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Chloroform	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-006A

Client Sample ID: SVW-5
Tag Number: 245,155
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Ethyl acetate	0.37	0.15		ppbV	1	6/24/2022 8:16:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Freon 11	0.63	0.15		ppbV	1	6/24/2022 8:16:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Freon 12	0.65	0.15		ppbV	1	6/24/2022 8:16:00 PM
Heptane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Hexane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
m&p-Xylene	0.21	0.30	J	ppbV	1	6/24/2022 8:16:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 8:16:00 PM
Methyl Ethyl Ketone	0.70	0.30		ppbV	1	6/24/2022 8:16:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 8:16:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Methylene chloride	0.26	0.15		ppbV	1	6/24/2022 8:16:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Tetrachloroethylene	0.24	0.15		ppbV	1	6/24/2022 8:16:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Toluene	0.74	0.15		ppbV	1	6/24/2022 8:16:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Surr: Bromofluorobenzene	92.0	46.7-129		%REC	1	6/24/2022 8:16:00 PM

Qualifiers:

- `*` Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-5
Lab Order:	C2206048	**Tag Number:**	245,155
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-006A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 8:16:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/24/2022 8:16:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 8:16:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 8:16:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 8:16:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/24/2022 8:16:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/24/2022 8:16:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/24/2022 8:16:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 8:16:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 8:16:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/24/2022 8:16:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/24/2022 8:16:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/24/2022 8:16:00 PM
1,3-Dichlorobenzene	0.96	0.90		ug/m3	1	6/24/2022 8:16:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 8:16:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/24/2022 8:16:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	6/24/2022 8:16:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/24/2022 8:16:00 PM
Acetone	47	7.1		ug/m3	10	6/28/2022 1:33:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/24/2022 8:16:00 PM
Benzene	0.54	0.48		ug/m3	1	6/24/2022 8:16:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/24/2022 8:16:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/24/2022 8:16:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/24/2022 8:16:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/24/2022 8:16:00 PM
Carbon disulfide	3.4	0.47		ug/m3	1	6/24/2022 8:16:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/24/2022 8:16:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/24/2022 8:16:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/24/2022 8:16:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	6/24/2022 8:16:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/24/2022 8:16:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 8:16:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 8:16:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/24/2022 8:16:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/24/2022 8:16:00 PM
Ethyl acetate	1.3	0.54		ug/m3	1	6/24/2022 8:16:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	6/24/2022 8:16:00 PM
Freon 11	3.5	0.84		ug/m3	1	6/24/2022 8:16:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/24/2022 8:16:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/24/2022 8:16:00 PM

Qualifiers:

- . Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-006A

Client Sample ID: SVW-5
Tag Number: 245,155
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.7	0.74		ug/m3	1	6/24/2022 8:16:00 PM
Heptane	< 0.61	0.61		ug/m3	1	6/24/2022 8:16:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/24/2022 8:16:00 PM
Hexane	< 0.53	0.53		ug/m3	1	6/24/2022 8:16:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/24/2022 8:16:00 PM
m&p-Xylene	0.91	1.3	J	ug/m3	1	6/24/2022 8:16:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 8:16:00 PM
Methyl Ethyl Ketone	2.1	0.88		ug/m3	1	6/24/2022 8:16:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 8:16:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/24/2022 8:16:00 PM
Methylene chloride	0.90	0.52		ug/m3	1	6/24/2022 8:16:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	6/24/2022 8:16:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/24/2022 8:16:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/24/2022 8:16:00 PM
Tetrachloroethylene	1.6	1.0		ug/m3	1	6/24/2022 8:16:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/24/2022 8:16:00 PM
Toluene	2.8	0.57		ug/m3	1	6/24/2022 8:16:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 8:16:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 8:16:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	6/24/2022 8:16:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/24/2022 8:16:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/24/2022 8:16:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/24/2022 8:16:00 PM

Qualifiers:

- `*` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-007A

Client Sample ID: SVW-6
Tag Number: 237,124
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-1			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: **NP**
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,2,4-Trimethylbenzene	2.2	3.0	J	ppbV	20	6/28/2022 2:16:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,3,5-Trimethylbenzene	0.78	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/24/2022 9:00:00 PM
2,2,4-trimethylpentane	0.36	0.15		ppbV	1	6/24/2022 9:00:00 PM
4-ethyltoluene	0.79	0.15		ppbV	1	6/24/2022 9:00:00 PM
Acetone	17	6.0		ppbV	20	6/28/2022 2:16:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Benzene	0.86	0.15		ppbV	1	6/24/2022 9:00:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Carbon disulfide	0.33	0.15		ppbV	1	6/24/2022 9:00:00 PM
Carbon tetrachloride	0.11	0.15	J	ppbV	1	6/24/2022 9:00:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Chloroform	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Chloromethane	0.64	0.15		ppbV	1	6/24/2022 9:00:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Cyclohexane	0.33	0.15		ppbV	1	6/24/2022 9:00:00 PM

Qualifiers:

- `*` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-007A

Client Sample ID: SVW-6
Tag Number: 237,124
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Ethyl acetate	1.1	0.15		ppbV	1	6/24/2022 9:00:00 PM
Ethylbenzene	1.8	0.15		ppbV	1	6/24/2022 9:00:00 PM
Freon 11	0.27	0.15		ppbV	1	6/24/2022 9:00:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Freon 12	0.50	0.15		ppbV	1	6/24/2022 9:00:00 PM
Heptane	1.4	0.15		ppbV	1	6/24/2022 9:00:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Hexane	0.45	0.15		ppbV	1	6/24/2022 9:00:00 PM
Isopropyl alcohol	30	3.0		ppbV	20	6/28/2022 2:16:00 AM
m&p-Xylene	4.0	6.0	J	ppbV	20	6/28/2022 2:16:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 9:00:00 PM
Methyl Ethyl Ketone	1.7	0.30		ppbV	1	6/24/2022 9:00:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 9:00:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Methylene chloride	0.29	0.15		ppbV	1	6/24/2022 9:00:00 PM
o-Xylene	2.2	3.0	J	ppbV	20	6/28/2022 2:16:00 AM
Propylene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Tetrahydrofuran	0.76	0.15		ppbV	1	6/24/2022 9:00:00 PM
Toluene	6.2	3.0		ppbV	20	6/28/2022 2:16:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Surr: Bromofluorobenzene	100	46.7-129		%REC	1	6/24/2022 9:00:00 PM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-007A

Client Sample ID: SVW-6
Tag Number: 237,124
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 9:00:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/24/2022 9:00:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 9:00:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 9:00:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 9:00:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/24/2022 9:00:00 PM
1,2,4-Trimethylbenzene	11	15	J	ug/m3	20	6/28/2022 2:16:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/24/2022 9:00:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 9:00:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 9:00:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/24/2022 9:00:00 PM
1,3,5-Trimethylbenzene	3.8	0.74		ug/m3	1	6/24/2022 9:00:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/24/2022 9:00:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 9:00:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 9:00:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/24/2022 9:00:00 PM
2,2,4-trimethylpentane	1.7	0.70		ug/m3	1	6/24/2022 9:00:00 PM
4-ethyltoluene	3.9	0.74		ug/m3	1	6/24/2022 9:00:00 PM
Acetone	41	14		ug/m3	20	6/28/2022 2:16:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/24/2022 9:00:00 PM
Benzene	2.7	0.48		ug/m3	1	6/24/2022 9:00:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/24/2022 9:00:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/24/2022 9:00:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/24/2022 9:00:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/24/2022 9:00:00 PM
Carbon disulfide	1.0	0.47		ug/m3	1	6/24/2022 9:00:00 PM
Carbon tetrachloride	0.69	0.94	J	ug/m3	1	6/24/2022 9:00:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/24/2022 9:00:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/24/2022 9:00:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	6/24/2022 9:00:00 PM
Chloromethane	1.3	0.31		ug/m3	1	6/24/2022 9:00:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 9:00:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 9:00:00 PM
Cyclohexane	1.1	0.52		ug/m3	1	6/24/2022 9:00:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/24/2022 9:00:00 PM
Ethyl acetate	4.0	0.54		ug/m3	1	6/24/2022 9:00:00 PM
Ethylbenzene	7.9	0.65		ug/m3	1	6/24/2022 9:00:00 PM
Freon 11	1.5	0.84		ug/m3	1	6/24/2022 9:00:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/24/2022 9:00:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/24/2022 9:00:00 PM

Qualifiers:

- Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-007A

Client Sample ID: SVW-6
Tag Number: 237,124
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.5	0.74		ug/m3	1	6/24/2022 9:00:00 PM
Heptane	5.6	0.61		ug/m3	1	6/24/2022 9:00:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/24/2022 9:00:00 PM
Hexane	1.6	0.53		ug/m3	1	6/24/2022 9:00:00 PM
Isopropyl alcohol	75	7.4		ug/m3	20	6/28/2022 2:16:00 AM
m&p-Xylene	17	26	J	ug/m3	20	6/28/2022 2:16:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 9:00:00 PM
Methyl Ethyl Ketone	4.9	0.88		ug/m3	1	6/24/2022 9:00:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 9:00:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/24/2022 9:00:00 PM
Methylene chloride	1.0	0.52		ug/m3	1	6/24/2022 9:00:00 PM
o-Xylene	9.6	13	J	ug/m3	20	6/28/2022 2:16:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/24/2022 9:00:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/24/2022 9:00:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/24/2022 9:00:00 PM
Tetrahydrofuran	2.2	0.44		ug/m3	1	6/24/2022 9:00:00 PM
Toluene	23	11		ug/m3	20	6/28/2022 2:16:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 9:00:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 9:00:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	6/24/2022 9:00:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/24/2022 9:00:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/24/2022 9:00:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/24/2022 9:00:00 PM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-008A

Client Sample ID: SVW-7
Tag Number: 1450,125
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	0			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: NP
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,2,4-Trimethylbenzene	0.67	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,2-Dichloroethane	0.20	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,3,5-Trimethylbenzene	0.27	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/27/2022 12:39:00 PM
2,2,4-trimethylpentane	0.50	0.15		ppbV	1	6/27/2022 12:39:00 PM
4-ethyltoluene	0.19	0.15		ppbV	1	6/27/2022 12:39:00 PM
Acetone	17	3.0		ppbV	10	6/28/2022 2:58:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Benzene	0.86	0.15		ppbV	1	6/27/2022 12:39:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Carbon disulfide	1.1	1.5	J	ppbV	10	6/28/2022 2:58:00 AM
Carbon tetrachloride	0.16	0.15		ppbV	1	6/27/2022 12:39:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Chloroform	0.23	0.15		ppbV	1	6/27/2022 12:39:00 PM
Chloromethane	0.50	0.15		ppbV	1	6/27/2022 12:39:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Cyclohexane	0.76	0.15		ppbV	1	6/27/2022 12:39:00 PM

Qualifiers:

- `*` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-008A

Client Sample ID: SVW-7
Tag Number: 1450,125
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Ethyl acetate	< 1.5	1.5		ppbV	10	6/28/2022 2:58:00 AM
Ethylbenzene	0.81	0.15		ppbV	1	6/27/2022 12:39:00 PM
Freon 11	0.45	0.15		ppbV	1	6/27/2022 12:39:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Freon 12	0.35	0.15		ppbV	1	6/27/2022 12:39:00 PM
Heptane	0.85	0.15		ppbV	1	6/27/2022 12:39:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Hexane	1.1	0.15		ppbV	1	6/27/2022 12:39:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
m&p-Xylene	2.7	0.30		ppbV	1	6/27/2022 12:39:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/27/2022 12:39:00 PM
Methyl Ethyl Ketone	1.4	3.0	J	ppbV	10	6/28/2022 2:58:00 AM
Methyl Isobutyl Ketone	1.3	3.0	J	ppbV	10	6/28/2022 2:58:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Methylene chloride	1.7	0.15		ppbV	1	6/27/2022 12:39:00 PM
o-Xylene	0.97	0.15		ppbV	1	6/27/2022 12:39:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Styrene	0.59	0.15		ppbV	1	6/27/2022 12:39:00 PM
Tetrachloroethylene	0.35	0.15		ppbV	1	6/27/2022 12:39:00 PM
Tetrahydrofuran	1.1	0.15		ppbV	1	6/27/2022 12:39:00 PM
Toluene	7.4	1.5		ppbV	10	6/28/2022 2:58:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Trichloroethene	0.16	0.15		ppbV	1	6/27/2022 12:39:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Surr: Bromofluorobenzene	96.0	46.7-129		%REC	1	6/27/2022 12:39:00 PM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-008A

Client Sample ID: SVW-7
Tag Number: 1450,125
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/27/2022 12:39:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/27/2022 12:39:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/27/2022 12:39:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/27/2022 12:39:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/27/2022 12:39:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/27/2022 12:39:00 PM
1,2,4-Trimethylbenzene	3.3	0.74		ug/m3	1	6/27/2022 12:39:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/27/2022 12:39:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/27/2022 12:39:00 PM
1,2-Dichloroethane	0.81	0.61		ug/m3	1	6/27/2022 12:39:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/27/2022 12:39:00 PM
1,3,5-Trimethylbenzene	1.3	0.74		ug/m3	1	6/27/2022 12:39:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/27/2022 12:39:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/27/2022 12:39:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/27/2022 12:39:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/27/2022 12:39:00 PM
2,2,4-trimethylpentane	2.3	0.70		ug/m3	1	6/27/2022 12:39:00 PM
4-ethyltoluene	0.93	0.74		ug/m3	1	6/27/2022 12:39:00 PM
Acetone	39	7.1		ug/m3	10	6/28/2022 2:58:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/27/2022 12:39:00 PM
Benzene	2.7	0.48		ug/m3	1	6/27/2022 12:39:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/27/2022 12:39:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/27/2022 12:39:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/27/2022 12:39:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/27/2022 12:39:00 PM
Carbon disulfide	3.4	4.7	J	ug/m3	10	6/28/2022 2:58:00 AM
Carbon tetrachloride	1.0	0.94		ug/m3	1	6/27/2022 12:39:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/27/2022 12:39:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/27/2022 12:39:00 PM
Chloroform	1.1	0.73		ug/m3	1	6/27/2022 12:39:00 PM
Chloromethane	1.0	0.31		ug/m3	1	6/27/2022 12:39:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/27/2022 12:39:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/27/2022 12:39:00 PM
Cyclohexane	2.6	0.52		ug/m3	1	6/27/2022 12:39:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/27/2022 12:39:00 PM
Ethyl acetate	< 5.4	5.4		ug/m3	10	6/28/2022 2:58:00 AM
Ethylbenzene	3.5	0.65		ug/m3	1	6/27/2022 12:39:00 PM
Freon 11	2.5	0.84		ug/m3	1	6/27/2022 12:39:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/27/2022 12:39:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/27/2022 12:39:00 PM

Qualifiers:

- `*` Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-008A

Client Sample ID: SVW-7
Tag Number: 1450,125
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	1.7	0.74		ug/m3	1	6/27/2022 12:39:00 PM
Heptane	3.5	0.61		ug/m3	1	6/27/2022 12:39:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/27/2022 12:39:00 PM
Hexane	3.7	0.53		ug/m3	1	6/27/2022 12:39:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/27/2022 12:39:00 PM
m&p-Xylene	12	1.3		ug/m3	1	6/27/2022 12:39:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/27/2022 12:39:00 PM
Methyl Ethyl Ketone	4.1	8.8	J	ug/m3	10	6/28/2022 2:58:00 AM
Methyl Isobutyl Ketone	5.3	12	J	ug/m3	10	6/28/2022 2:58:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/27/2022 12:39:00 PM
Methylene chloride	6.0	0.52		ug/m3	1	6/27/2022 12:39:00 PM
o-Xylene	4.2	0.65		ug/m3	1	6/27/2022 12:39:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/27/2022 12:39:00 PM
Styrene	2.5	0.64		ug/m3	1	6/27/2022 12:39:00 PM
Tetrachloroethylene	2.4	1.0		ug/m3	1	6/27/2022 12:39:00 PM
Tetrahydrofuran	3.4	0.44		ug/m3	1	6/27/2022 12:39:00 PM
Toluene	28	5.7		ug/m3	10	6/28/2022 2:58:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/27/2022 12:39:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/27/2022 12:39:00 PM
Trichloroethene	0.86	0.81		ug/m3	1	6/27/2022 12:39:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/27/2022 12:39:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/27/2022 12:39:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/27/2022 12:39:00 PM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte, Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-8
Lab Order:	C2206048	**Tag Number:**	242,187
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-009A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: NP
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,2,4-Trimethylbenzene	0.28	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,3-Dichlorobenzene	0.35	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,4-Dichlorobenzene	0.12	0.15	J	ppbV	1	6/24/2022 10:59:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/24/2022 10:59:00 PM
2,2,4-trimethylpentane	0.17	0.15		ppbV	1	6/24/2022 10:59:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Acetone	28	12		ppbV	40	6/28/2022 5:05:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Benzene	0.60	0.15		ppbV	1	6/24/2022 10:59:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Carbon disulfide	14	1.5		ppbV	10	6/28/2022 4:23:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Chloroform	0.14	0.15	J	ppbV	1	6/24/2022 10:59:00 PM
Chloromethane	0.64	0.15		ppbV	1	6/24/2022 10:59:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM

Qualifiers:

- . Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-009A

Client Sample ID: SVW-8
Tag Number: 242,187
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Ethyl acetate	0.55	0.15		ppbV	1	6/24/2022 10:59:00 PM
Ethylbenzene	0.10	0.15	J	ppbV	1	6/24/2022 10:59:00 PM
Freon 11	0.28	0.15		ppbV	1	6/24/2022 10:59:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Freon 12	0.47	0.15		ppbV	1	6/24/2022 10:59:00 PM
Heptane	0.21	0.15		ppbV	1	6/24/2022 10:59:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Hexane	1.0	0.15		ppbV	1	6/24/2022 10:59:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
m&p-Xylene	0.33	0.30		ppbV	1	6/24/2022 10:59:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 10:59:00 PM
Methyl Ethyl Ketone	1.3	0.30		ppbV	1	6/24/2022 10:59:00 PM
Methyl Isobutyl Ketone	1.0	0.30		ppbV	1	6/24/2022 10:59:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Methylene chloride	0.38	0.15		ppbV	1	6/24/2022 10:59:00 PM
o-Xylene	0.14	0.15	J	ppbV	1	6/24/2022 10:59:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Tetrachloroethylene	0.31	0.15		ppbV	1	6/24/2022 10:59:00 PM
Tetrahydrofuran	1.4	1.5	J	ppbV	10	6/28/2022 4:23:00 AM
Toluene	1.1	0.15		ppbV	1	6/24/2022 10:59:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Surr: Bromofluorobenzene	95.0	46.7-129		%REC	1	6/24/2022 10:59:00 PM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-009A

Client Sample ID: SVW-8
Tag Number: 242,187
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 10:59:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/24/2022 10:59:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 10:59:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 10:59:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 10:59:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/24/2022 10:59:00 PM
1,2,4-Trimethylbenzene	1.4	0.74		ug/m3	1	6/24/2022 10:59:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/24/2022 10:59:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 10:59:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 10:59:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/24/2022 10:59:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/24/2022 10:59:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/24/2022 10:59:00 PM
1,3-Dichlorobenzene	2.1	0.90		ug/m3	1	6/24/2022 10:59:00 PM
1,4-Dichlorobenzene	0.72	0.90	J	ug/m3	1	6/24/2022 10:59:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/24/2022 10:59:00 PM
2,2,4-trimethylpentane	0.79	0.70		ug/m3	1	6/24/2022 10:59:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/24/2022 10:59:00 PM
Acetone	66	28		ug/m3	40	6/28/2022 5:05:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/24/2022 10:59:00 PM
Benzene	1.9	0.48		ug/m3	1	6/24/2022 10:59:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/24/2022 10:59:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/24/2022 10:59:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/24/2022 10:59:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/24/2022 10:59:00 PM
Carbon disulfide	44	4.7		ug/m3	10	6/28/2022 4:23:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/24/2022 10:59:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/24/2022 10:59:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/24/2022 10:59:00 PM
Chloroform	0.68	0.73	J	ug/m3	1	6/24/2022 10:59:00 PM
Chloromethane	1.3	0.31		ug/m3	1	6/24/2022 10:59:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 10:59:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 10:59:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/24/2022 10:59:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/24/2022 10:59:00 PM
Ethyl acetate	2.0	0.54		ug/m3	1	6/24/2022 10:59:00 PM
Ethylbenzene	0.43	0.65	J	ug/m3	1	6/24/2022 10:59:00 PM
Freon 11	1.6	0.84		ug/m3	1	6/24/2022 10:59:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/24/2022 10:59:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/24/2022 10:59:00 PM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-009A

Client Sample ID: SVW-8
Tag Number: 242,187
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	2.3	0.74		ug/m3	1	6/24/2022 10:59:00 PM
Heptane	0.86	0.61		ug/m3	1	6/24/2022 10:59:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/24/2022 10:59:00 PM
Hexane	3.7	0.53		ug/m3	1	6/24/2022 10:59:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/24/2022 10:59:00 PM
m&p-Xylene	1.4	1.3		ug/m3	1	6/24/2022 10:59:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 10:59:00 PM
Methyl Ethyl Ketone	4.0	0.88		ug/m3	1	6/24/2022 10:59:00 PM
Methyl Isobutyl Ketone	4.2	1.2		ug/m3	1	6/24/2022 10:59:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/24/2022 10:59:00 PM
Methylene chloride	1.3	0.52		ug/m3	1	6/24/2022 10:59:00 PM
o-Xylene	0.61	0.65	J	ug/m3	1	6/24/2022 10:59:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/24/2022 10:59:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/24/2022 10:59:00 PM
Tetrachloroethylene	2.1	1.0		ug/m3	1	6/24/2022 10:59:00 PM
Tetrahydrofuran	4.1	4.4	J	ug/m3	10	6/28/2022 4:23:00 AM
Toluene	4.0	0.57		ug/m3	1	6/24/2022 10:59:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 10:59:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 10:59:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	6/24/2022 10:59:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/24/2022 10:59:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/24/2022 10:59:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/24/2022 10:59:00 PM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-9
Lab Order:	C2206048	**Tag Number:**	362,1153
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-010A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-12			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: NP
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,2,4-Trimethylbenzene	3.9	1.5		ppbV	10	6/29/2022 2:17:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,3,5-Trimethylbenzene	1.9	1.5		ppbV	10	6/29/2022 2:17:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,3-Dichlorobenzene	0.70	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/24/2022 11:47:00 PM
2,2,4-trimethylpentane	0.44	0.15		ppbV	1	6/24/2022 11:47:00 PM
4-ethyltoluene	1.1	0.15		ppbV	1	6/24/2022 11:47:00 PM
Acetone	220	240	J	ppbV	810	6/29/2022 3:04:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Benzene	2.0	1.5		ppbV	10	6/29/2022 2:17:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Carbon disulfide	78	6.0		ppbV	40	6/28/2022 5:47:00 AM
Carbon tetrachloride	0.14	0.15	J	ppbV	1	6/24/2022 11:47:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Chloroethane	0.47	0.15		ppbV	1	6/24/2022 11:47:00 PM
Chloroform	0.94	0.15		ppbV	1	6/24/2022 11:47:00 PM
Chloromethane	0.71	0.15		ppbV	1	6/24/2022 11:47:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Cyclohexane	0.72	0.15		ppbV	1	6/24/2022 11:47:00 PM

Qualifiers:

- . Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-010A

Client Sample ID: SVW-9
Tag Number: 362,1153
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Ethyl acetate	0.86	0.15		ppbV	1	6/24/2022 11:47:00 PM
Ethylbenzene	1.2	0.15		ppbV	1	6/24/2022 11:47:00 PM
Freon 11	0.32	0.15		ppbV	1	6/24/2022 11:47:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Freon 12	0.44	0.15		ppbV	1	6/24/2022 11:47:00 PM
Heptane	0.81	0.15		ppbV	1	6/24/2022 11:47:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Hexane	0.81	0.15		ppbV	1	6/24/2022 11:47:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
m&p-Xylene	3.5	3.0		ppbV	10	6/29/2022 2:17:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 11:47:00 PM
Methyl Ethyl Ketone	13	3.0		ppbV	10	6/29/2022 2:17:00 PM
Methyl Isobutyl Ketone	620	240		ppbV	810	6/29/2022 3:04:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Methylene chloride	3.7	1.5		ppbV	10	6/29/2022 2:17:00 PM
o-Xylene	2.3	1.5		ppbV	10	6/29/2022 2:17:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Styrene	0.48	0.15		ppbV	1	6/24/2022 11:47:00 PM
Tetrachloroethylene	0.41	0.15		ppbV	1	6/24/2022 11:47:00 PM
Tetrahydrofuran	7.5	1.5		ppbV	10	6/29/2022 2:17:00 PM
Toluene	4.8	1.5		ppbV	10	6/29/2022 2:17:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Trichloroethene	0.11	0.15	J	ppbV	1	6/24/2022 11:47:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Surr: Bromofluorobenzene	99.0	46.7-129		%REC	1	6/24/2022 11:47:00 PM

Qualifiers:

- `*` Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-010A

Client Sample ID: SVW-9
Tag Number: 362,1153
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 11:47:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/24/2022 11:47:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 11:47:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 11:47:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 11:47:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/24/2022 11:47:00 PM
1,2,4-Trimethylbenzene	19	7.4		ug/m3	10	6/29/2022 2:17:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/24/2022 11:47:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 11:47:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 11:47:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/24/2022 11:47:00 PM
1,3,5-Trimethylbenzene	9.3	7.4		ug/m3	10	6/29/2022 2:17:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/24/2022 11:47:00 PM
1,3-Dichlorobenzene	4.2	0.90		ug/m3	1	6/24/2022 11:47:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 11:47:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/24/2022 11:47:00 PM
2,2,4-trimethylpentane	2.1	0.70		ug/m3	1	6/24/2022 11:47:00 PM
4-ethyltoluene	5.5	0.74		ug/m3	1	6/24/2022 11:47:00 PM
Acetone	520	570	J	ug/m3	810	6/29/2022 3:04:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/24/2022 11:47:00 PM
Benzene	6.4	4.8		ug/m3	10	6/29/2022 2:17:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/24/2022 11:47:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/24/2022 11:47:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/24/2022 11:47:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/24/2022 11:47:00 PM
Carbon disulfide	240	19		ug/m3	40	6/28/2022 5:47:00 AM
Carbon tetrachloride	0.88	0.94	J	ug/m3	1	6/24/2022 11:47:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/24/2022 11:47:00 PM
Chloroethane	1.2	0.40		ug/m3	1	6/24/2022 11:47:00 PM
Chloroform	4.6	0.73		ug/m3	1	6/24/2022 11:47:00 PM
Chloromethane	1.5	0.31		ug/m3	1	6/24/2022 11:47:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 11:47:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 11:47:00 PM
Cyclohexane	2.5	0.52		ug/m3	1	6/24/2022 11:47:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/24/2022 11:47:00 PM
Ethyl acetate	3.1	0.54		ug/m3	1	6/24/2022 11:47:00 PM
Ethylbenzene	5.1	0.65		ug/m3	1	6/24/2022 11:47:00 PM
Freon 11	1.8	0.84		ug/m3	1	6/24/2022 11:47:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/24/2022 11:47:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/24/2022 11:47:00 PM

Qualifiers:

- . Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-010A

Client Sample ID: SVW-9
Tag Number: 362,1153
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	2.2	0.74		ug/m3	1	6/24/2022 11:47:00 PM
Heptane	3.3	0.61		ug/m3	1	6/24/2022 11:47:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/24/2022 11:47:00 PM
Hexane	2.9	0.53		ug/m3	1	6/24/2022 11:47:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/24/2022 11:47:00 PM
m&p-Xylene	15	13		ug/m3	10	6/29/2022 2:17:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 11:47:00 PM
Methyl Ethyl Ketone	39	8.8		ug/m3	10	6/29/2022 2:17:00 PM
Methyl Isobutyl Ketone	2500	980		ug/m3	810	6/29/2022 3:04:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/24/2022 11:47:00 PM
Methylene chloride	13	5.2		ug/m3	10	6/29/2022 2:17:00 PM
o-Xylene	10	6.5		ug/m3	10	6/29/2022 2:17:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/24/2022 11:47:00 PM
Styrene	2.0	0.64		ug/m3	1	6/24/2022 11:47:00 PM
Tetrachloroethylene	2.8	1.0		ug/m3	1	6/24/2022 11:47:00 PM
Tetrahydrofuran	22	4.4		ug/m3	10	6/29/2022 2:17:00 PM
Toluene	18	5.7		ug/m3	10	6/29/2022 2:17:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 11:47:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 11:47:00 PM
Trichloroethene	0.59	0.81	J	ug/m3	1	6/24/2022 11:47:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/24/2022 11:47:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/24/2022 11:47:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/24/2022 11:47:00 PM

Qualifiers:

- `*` Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-011A

Client Sample ID: SVW-10
Tag Number: 162,80
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	0			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: NP
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.48	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,2,4-Trimethylbenzene	0.21	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,3-Dichlorobenzene	0.16	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/25/2022 12:31:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Acetone	21	6.0		ppbV	20	6/28/2022 7:11:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Benzene	0.33	0.15		ppbV	1	6/25/2022 12:31:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Bromodichloromethane	0.13	0.15	J	ppbV	1	6/25/2022 12:31:00 AM
Bromoform	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Carbon disulfide	7.0	3.0		ppbV	20	6/28/2022 7:11:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Chloroform	32	3.0		ppbV	20	6/28/2022 7:11:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM

Qualifiers:

- `*` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-011A

Client Sample ID: SVW-10
Tag Number: 162,80
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Ethyl acetate	0.44	0.15		ppbV	1	6/25/2022 12:31:00 AM
Ethylbenzene	0.12	0.15	J	ppbV	1	6/25/2022 12:31:00 AM
Freon 11	0.34	0.15		ppbV	1	6/25/2022 12:31:00 AM
Freon 113	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Freon 114	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Freon 12	0.51	0.15		ppbV	1	6/25/2022 12:31:00 AM
Heptane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Hexane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
m&p-Xylene	0.42	0.30		ppbV	1	6/25/2022 12:31:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/25/2022 12:31:00 AM
Methyl Ethyl Ketone	1.2	0.30		ppbV	1	6/25/2022 12:31:00 AM
Methyl Isobutyl Ketone	0.76	0.30		ppbV	1	6/25/2022 12:31:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Methylene chloride	0.32	0.15		ppbV	1	6/25/2022 12:31:00 AM
o-Xylene	0.18	0.15		ppbV	1	6/25/2022 12:31:00 AM
Propylene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Styrene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Tetrachloroethylene	0.30	0.15		ppbV	1	6/25/2022 12:31:00 AM
Tetrahydrofuran	2.4	3.0	J	ppbV	20	6/28/2022 7:11:00 AM
Toluene	1.2	0.15		ppbV	1	6/25/2022 12:31:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Surr: Bromofluorobenzene	95.0	46.7-129		%REC	1	6/25/2022 12:31:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-011A

Client Sample ID: SVW-10
Tag Number: 162,80
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	2.6	0.82		ug/m3	1	6/25/2022 12:31:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/25/2022 12:31:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 12:31:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 12:31:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 12:31:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/25/2022 12:31:00 AM
1,2,4-Trimethylbenzene	1.0	0.74		ug/m3	1	6/25/2022 12:31:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/25/2022 12:31:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 12:31:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 12:31:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/25/2022 12:31:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/25/2022 12:31:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/25/2022 12:31:00 AM
1,3-Dichlorobenzene	0.96	0.90		ug/m3	1	6/25/2022 12:31:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 12:31:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/25/2022 12:31:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	6/25/2022 12:31:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/25/2022 12:31:00 AM
Acetone	49	14		ug/m3	20	6/28/2022 7:11:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/25/2022 12:31:00 AM
Benzene	1.1	0.48		ug/m3	1	6/25/2022 12:31:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/25/2022 12:31:00 AM
Bromodichloromethane	0.87	1.0	J	ug/m3	1	6/25/2022 12:31:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/25/2022 12:31:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/25/2022 12:31:00 AM
Carbon disulfide	22	9.3		ug/m3	20	6/28/2022 7:11:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/25/2022 12:31:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/25/2022 12:31:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	6/25/2022 12:31:00 AM
Chloroform	160	15		ug/m3	20	6/28/2022 7:11:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	6/25/2022 12:31:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 12:31:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 12:31:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/25/2022 12:31:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/25/2022 12:31:00 AM
Ethyl acetate	1.6	0.54		ug/m3	1	6/25/2022 12:31:00 AM
Ethylbenzene	0.52	0.65	J	ug/m3	1	6/25/2022 12:31:00 AM
Freon 11	1.9	0.84		ug/m3	1	6/25/2022 12:31:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/25/2022 12:31:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/25/2022 12:31:00 AM

Qualifiers:

- . Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-011A

Client Sample ID: SVW-10
Tag Number: 162,80
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.5	0.74		ug/m3	1	6/25/2022 12:31:00 AM
Heptane	< 0.61	0.61		ug/m3	1	6/25/2022 12:31:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/25/2022 12:31:00 AM
Hexane	< 0.53	0.53		ug/m3	1	6/25/2022 12:31:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/25/2022 12:31:00 AM
m&p-Xylene	1.8	1.3		ug/m3	1	6/25/2022 12:31:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/25/2022 12:31:00 AM
Methyl Ethyl Ketone	3.5	0.88		ug/m3	1	6/25/2022 12:31:00 AM
Methyl Isobutyl Ketone	3.1	1.2		ug/m3	1	6/25/2022 12:31:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/25/2022 12:31:00 AM
Methylene chloride	1.1	0.52		ug/m3	1	6/25/2022 12:31:00 AM
o-Xylene	0.78	0.65		ug/m3	1	6/25/2022 12:31:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/25/2022 12:31:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/25/2022 12:31:00 AM
Tetrachloroethylene	2.0	1.0		ug/m3	1	6/25/2022 12:31:00 AM
Tetrahydrofuran	7.1	8.8	J	ug/m3	20	6/28/2022 7:11:00 AM
Toluene	4.7	0.57		ug/m3	1	6/25/2022 12:31:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 12:31:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 12:31:00 AM
Trichloroethene	< 0.81	0.81		ug/m3	1	6/25/2022 12:31:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/25/2022 12:31:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/25/2022 12:31:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/25/2022 12:31:00 AM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-11
Lab Order:	C2206048	**Tag Number:**	320,48
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-012A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-1			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: NP
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.64	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,2,4-Trimethylbenzene	0.23	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,3,5-Trimethylbenzene	0.13	0.15	J	ppbV	1	6/25/2022 1:15:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,3-Dichlorobenzene	0.27	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,4-Dichlorobenzene	0.47	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/25/2022 1:15:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Acetone	42	12		ppbV	40	6/29/2022 6:15:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Benzene	0.48	0.15		ppbV	1	6/25/2022 1:15:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Bromoform	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Carbon disulfide	0.67	0.15		ppbV	1	6/25/2022 1:15:00 AM
Carbon tetrachloride	0.27	0.15		ppbV	1	6/25/2022 1:15:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Chloroethane	0.13	0.15	J	ppbV	1	6/25/2022 1:15:00 AM
Chloroform	1.5	0.15		ppbV	1	6/25/2022 1:15:00 AM
Chloromethane	0.34	0.15		ppbV	1	6/25/2022 1:15:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Cyclohexane	0.20	0.15		ppbV	1	6/25/2022 1:15:00 AM

Qualifiers:

- . Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-012A

Client Sample ID: SVW-11
Tag Number: 320,48
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Ethyl acetate	0.30	0.15		ppbV	1	6/25/2022 1:15:00 AM
Ethylbenzene	0.16	0.15		ppbV	1	6/25/2022 1:15:00 AM
Freon 11	3.6	1.5		ppbV	10	6/29/2022 5:33:00 AM
Freon 113	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Freon 114	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Freon 12	0.49	0.15		ppbV	1	6/25/2022 1:15:00 AM
Heptane	0.25	0.15		ppbV	1	6/25/2022 1:15:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Hexane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
m&p-Xylene	0.50	0.30		ppbV	1	6/25/2022 1:15:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/25/2022 1:15:00 AM
Methyl Ethyl Ketone	1.3	0.30		ppbV	1	6/25/2022 1:15:00 AM
Methyl Isobutyl Ketone	1.1	0.30		ppbV	1	6/25/2022 1:15:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Methylene chloride	0.36	0.15		ppbV	1	6/25/2022 1:15:00 AM
o-Xylene	0.21	0.15		ppbV	1	6/25/2022 1:15:00 AM
Propylene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Styrene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Tetrachloroethylene	2.9	1.5		ppbV	10	6/29/2022 5:33:00 AM
Tetrahydrofuran	0.81	0.15		ppbV	1	6/25/2022 1:15:00 AM
Toluene	1.2	0.15		ppbV	1	6/25/2022 1:15:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Trichloroethene	0.51	0.15		ppbV	1	6/25/2022 1:15:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Surr: Bromofluorobenzene	97.0	46.7-129		%REC	1	6/25/2022 1:15:00 AM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-012A

Client Sample ID: SVW-11
Tag Number: 32048
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	3.5	0.82		ug/m3	1	6/25/2022 1:15:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/25/2022 1:15:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 1:15:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 1:15:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 1:15:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/25/2022 1:15:00 AM
1,2,4-Trimethylbenzene	1.1	0.74		ug/m3	1	6/25/2022 1:15:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/25/2022 1:15:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 1:15:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 1:15:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/25/2022 1:15:00 AM
1,3,5-Trimethylbenzene	0.64	0.74	J	ug/m3	1	6/25/2022 1:15:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/25/2022 1:15:00 AM
1,3-Dichlorobenzene	1.6	0.90		ug/m3	1	6/25/2022 1:15:00 AM
1,4-Dichlorobenzene	2.8	0.90		ug/m3	1	6/25/2022 1:15:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/25/2022 1:15:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	6/25/2022 1:15:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/25/2022 1:15:00 AM
Acetone	100	28		ug/m3	40	6/29/2022 6:15:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/25/2022 1:15:00 AM
Benzene	1.5	0.48		ug/m3	1	6/25/2022 1:15:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/25/2022 1:15:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/25/2022 1:15:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/25/2022 1:15:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/25/2022 1:15:00 AM
Carbon disulfide	2.1	0.47		ug/m3	1	6/25/2022 1:15:00 AM
Carbon tetrachloride	1.7	0.94		ug/m3	1	6/25/2022 1:15:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/25/2022 1:15:00 AM
Chloroethane	0.34	0.40	J	ug/m3	1	6/25/2022 1:15:00 AM
Chloroform	7.4	0.73		ug/m3	1	6/25/2022 1:15:00 AM
Chloromethane	0.70	0.31		ug/m3	1	6/25/2022 1:15:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 1:15:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 1:15:00 AM
Cyclohexane	0.69	0.52		ug/m3	1	6/25/2022 1:15:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/25/2022 1:15:00 AM
Ethyl acetate	1.1	0.54		ug/m3	1	6/25/2022 1:15:00 AM
Ethylbenzene	0.69	0.65		ug/m3	1	6/25/2022 1:15:00 AM
Freon 11	20	8.4		ug/m3	10	6/29/2022 5:33:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/25/2022 1:15:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/25/2022 1:15:00 AM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-012A

Client Sample ID: SVW-11
Tag Number: 320,48
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.4	0.74		ug/m3	1	6/25/2022 1:15:00 AM
Heptane	1.0	0.61		ug/m3	1	6/25/2022 1:15:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/25/2022 1:15:00 AM
Hexane	< 0.53	0.53		ug/m3	1	6/25/2022 1:15:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/25/2022 1:15:00 AM
m&p-Xylene	2.2	1.3		ug/m3	1	6/25/2022 1:15:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/25/2022 1:15:00 AM
Methyl Ethyl Ketone	3.9	0.88		ug/m3	1	6/25/2022 1:15:00 AM
Methyl Isobutyl Ketone	4.5	1.2		ug/m3	1	6/25/2022 1:15:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/25/2022 1:15:00 AM
Methylene chloride	1.3	0.52		ug/m3	1	6/25/2022 1:15:00 AM
o-Xylene	0.91	0.65		ug/m3	1	6/25/2022 1:15:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/25/2022 1:15:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/25/2022 1:15:00 AM
Tetrachloroethylene	20	10		ug/m3	10	6/29/2022 5:33:00 AM
Tetrahydrofuran	2.4	0.44		ug/m3	1	6/25/2022 1:15:00 AM
Toluene	4.5	0.57		ug/m3	1	6/25/2022 1:15:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 1:15:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 1:15:00 AM
Trichloroethene	2.7	0.81		ug/m3	1	6/25/2022 1:15:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/25/2022 1:15:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/25/2022 1:15:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/25/2022 1:15:00 AM

Qualifiers:

*	Results reported are not blank corrected
DL	Detection Limit
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
E	Estimated Value above quantitation range
J	Analyte detected below quantitation limit
ND	Not Detected at the Limit of Detection
SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-12
Lab Order:	C2206048	**Tag Number:**	234,147
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-013A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-14			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: NP
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,2,4-Trimethylbenzene	7.6	1.4		ppbV	9	6/29/2022 3:48:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,3,5-Trimethylbenzene	2.8	1.4		ppbV	9	6/29/2022 3:48:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,3-Dichlorobenzene	0.93	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/25/2022 2:30:00 AM
2,2,4-trimethylpentane	0.25	0.15		ppbV	1	6/25/2022 2:30:00 AM
4-ethyltoluene	1.1	0.15		ppbV	1	6/25/2022 2:30:00 AM
Acetone	89	27		ppbV	90	6/29/2022 4:31:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Benzene	2.7	1.4		ppbV	9	6/29/2022 3:48:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Bromoform	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Carbon disulfide	46	14		ppbV	90	6/29/2022 4:31:00 PM
Carbon tetrachloride	0.17	0.15		ppbV	1	6/25/2022 2:30:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Chloroethane	0.21	0.15		ppbV	1	6/25/2022 2:30:00 AM
Chloroform	0.51	0.15		ppbV	1	6/25/2022 2:30:00 AM
Chloromethane	0.66	0.15		ppbV	1	6/25/2022 2:30:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Cyclohexane	0.91	0.15		ppbV	1	6/25/2022 2:30:00 AM

Qualifiers:

- . Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-013A

Client Sample ID: SVW-12
Tag Number: 234,147
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Ethyl acetate	0.61	0.15		ppbV	1	6/25/2022 2:30:00 AM
Ethylbenzene	1.0	0.15		ppbV	1	6/25/2022 2:30:00 AM
Freon 11	0.36	0.15		ppbV	1	6/25/2022 2:30:00 AM
Freon 113	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Freon 114	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Freon 12	0.42	0.15		ppbV	1	6/25/2022 2:30:00 AM
Heptane	1.3	0.15		ppbV	1	6/25/2022 2:30:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Hexane	1.9	0.15		ppbV	1	6/25/2022 2:30:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
m&p-Xylene	3.8	0.30		ppbV	1	6/25/2022 2:30:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/25/2022 2:30:00 AM
Methyl Ethyl Ketone	4.5	2.7		ppbV	9	6/29/2022 3:48:00 PM
Methyl Isobutyl Ketone	110	27		ppbV	90	6/29/2022 4:31:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Methylene chloride	8.0	1.4		ppbV	9	6/29/2022 3:48:00 PM
o-Xylene	3.0	1.4		ppbV	9	6/29/2022 3:48:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Styrene	0.57	0.15		ppbV	1	6/25/2022 2:30:00 AM
Tetrachloroethylene	1.7	0.15		ppbV	1	6/25/2022 2:30:00 AM
Tetrahydrofuran	3.9	1.4		ppbV	9	6/29/2022 3:48:00 PM
Toluene	5.4	1.4		ppbV	9	6/29/2022 3:48:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Trichloroethene	0.20	0.15		ppbV	1	6/25/2022 2:30:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Surr: Bromofluorobenzene	97.0	46.7-129		%REC	1	6/25/2022 2:30:00 AM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-013A

Client Sample ID: SVW-12
Tag Number: 234,147
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 2:30:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/25/2022 2:30:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 2:30:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 2:30:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 2:30:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/25/2022 2:30:00 AM
1,2,4-Trimethylbenzene	37	6.9		ug/m3	9	6/29/2022 3:48:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/25/2022 2:30:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 2:30:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 2:30:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/25/2022 2:30:00 AM
1,3,5-Trimethylbenzene	14	6.9		ug/m3	9	6/29/2022 3:48:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/25/2022 2:30:00 AM
1,3-Dichlorobenzene	5.6	0.90		ug/m3	1	6/25/2022 2:30:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 2:30:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/25/2022 2:30:00 AM
2,2,4-trimethylpentane	1.2	0.70		ug/m3	1	6/25/2022 2:30:00 AM
4-ethyltoluene	5.3	0.74		ug/m3	1	6/25/2022 2:30:00 AM
Acetone	210	64		ug/m3	90	6/29/2022 4:31:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/25/2022 2:30:00 AM
Benzene	8.6	4.5		ug/m3	9	6/29/2022 3:48:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/25/2022 2:30:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/25/2022 2:30:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/25/2022 2:30:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/25/2022 2:30:00 AM
Carbon disulfide	140	44		ug/m3	90	6/29/2022 4:31:00 PM
Carbon tetrachloride	1.1	0.94		ug/m3	1	6/25/2022 2:30:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/25/2022 2:30:00 AM
Chloroethane	0.55	0.40		ug/m3	1	6/25/2022 2:30:00 AM
Chloroform	2.5	0.73		ug/m3	1	6/25/2022 2:30:00 AM
Chloromethane	1.4	0.31		ug/m3	1	6/25/2022 2:30:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 2:30:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 2:30:00 AM
Cyclohexane	3.1	0.52		ug/m3	1	6/25/2022 2:30:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/25/2022 2:30:00 AM
Ethyl acetate	2.2	0.54		ug/m3	1	6/25/2022 2:30:00 AM
Ethylbenzene	4.3	0.65		ug/m3	1	6/25/2022 2:30:00 AM
Freon 11	2.0	0.84		ug/m3	1	6/25/2022 2:30:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/25/2022 2:30:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/25/2022 2:30:00 AM

Qualifiers:

- `.` Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-013A

Client Sample ID: SVW-12
Tag Number: 234,147
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.1	0.74		ug/m3	1	6/25/2022 2:30:00 AM
Heptane	5.3	0.61		ug/m3	1	6/25/2022 2:30:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/25/2022 2:30:00 AM
Hexane	6.8	0.53		ug/m3	1	6/25/2022 2:30:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/25/2022 2:30:00 AM
m&p-Xylene	16	1.3		ug/m3	1	6/25/2022 2:30:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/25/2022 2:30:00 AM
Methyl Ethyl Ketone	13	8.0		ug/m3	9	6/29/2022 3:48:00 PM
Methyl Isobutyl Ketone	450	110		ug/m3	90	6/29/2022 4:31:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/25/2022 2:30:00 AM
Methylene chloride	28	4.9		ug/m3	9	6/29/2022 3:48:00 PM
o-Xylene	13	6.1		ug/m3	9	6/29/2022 3:48:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/25/2022 2:30:00 AM
Styrene	2.4	0.64		ug/m3	1	6/25/2022 2:30:00 AM
Tetrachloroethylene	11	1.0		ug/m3	1	6/25/2022 2:30:00 AM
Tetrahydrofuran	11	4.1		ug/m3	9	6/29/2022 3:48:00 PM
Toluene	20	5.3		ug/m3	9	6/29/2022 3:48:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 2:30:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 2:30:00 AM
Trichloroethene	1.1	0.81		ug/m3	1	6/25/2022 2:30:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/25/2022 2:30:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/25/2022 2:30:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/25/2022 2:30:00 AM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-014A

Client Sample ID: SVW-13
Tag Number: 1192,175
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-3			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: NP
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,2,4-Trimethylbenzene	2.1	1.5		ppbV	10	6/29/2022 5:14:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,3,5-Trimethylbenzene	1.0	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/25/2022 3:58:00 AM
2,2,4-trimethylpentane	3.6	1.5		ppbV	10	6/29/2022 5:14:00 PM
4-ethyltoluene	0.56	0.15		ppbV	1	6/25/2022 3:58:00 AM
Acetone	62	12		ppbV	40	6/29/2022 5:56:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Benzene	6.4	1.5		ppbV	10	6/29/2022 5:14:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Bromoform	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Carbon disulfide	2.0	0.15		ppbV	1	6/25/2022 3:58:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Chloroethane	0.27	0.15		ppbV	1	6/25/2022 3:58:00 AM
Chloroform	0.11	0.15	J	ppbV	1	6/25/2022 3:58:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
cis-1,2-Dichloroethene	0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Cyclohexane	16	1.5		ppbV	10	6/29/2022 5:14:00 PM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-014A

Client Sample ID: SVW-13
Tag Number: 1192,175
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Ethyl acetate	0.85	0.15		ppbV	1	6/25/2022 3:58:00 AM
Ethylbenzene	1.2	0.15		ppbV	1	6/25/2022 3:58:00 AM
Freon 11	0.25	0.15		ppbV	1	6/25/2022 3:58:00 AM
Freon 113	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Freon 114	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Freon 12	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Heptane	3.6	1.5		ppbV	10	6/29/2022 5:14:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Hexane	8.6	1.5		ppbV	10	6/29/2022 5:14:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
m&p-Xylene	4.1	0.30		ppbV	1	6/25/2022 3:58:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/25/2022 3:58:00 AM
Methyl Ethyl Ketone	5.0	3.0		ppbV	10	6/29/2022 5:14:00 PM
Methyl Isobutyl Ketone	2.7	3.0	J	ppbV	10	6/29/2022 5:14:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Methylene chloride	0.78	0.15		ppbV	1	6/25/2022 3:58:00 AM
o-Xylene	2.7	1.5		ppbV	10	6/29/2022 5:14:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Styrene	0.36	0.15		ppbV	1	6/25/2022 3:58:00 AM
Tetrachloroethylene	2.5	1.5		ppbV	10	6/29/2022 5:14:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Toluene	3.1	1.5		ppbV	10	6/29/2022 5:14:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Trichloroethene	0.83	0.15		ppbV	1	6/25/2022 3:58:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Surr: Bromofluorobenzene	112	46.7-129		%REC	1	6/25/2022 3:58:00 AM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-014A

Client Sample ID: SVW-13
Tag Number: 1192,175
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 3:58:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/25/2022 3:58:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 3:58:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 3:58:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 3:58:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/25/2022 3:58:00 AM
1,2,4-Trimethylbenzene	10	7.4		ug/m3	10	6/29/2022 5:14:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/25/2022 3:58:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 3:58:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 3:58:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/25/2022 3:58:00 AM
1,3,5-Trimethylbenzene	4.9	0.74		ug/m3	1	6/25/2022 3:58:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/25/2022 3:58:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 3:58:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 3:58:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/25/2022 3:58:00 AM
2,2,4-trimethylpentane	17	7.0		ug/m3	10	6/29/2022 5:14:00 PM
4-ethyltoluene	2.8	0.74		ug/m3	1	6/25/2022 3:58:00 AM
Acetone	150	28		ug/m3	40	6/29/2022 5:56:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/25/2022 3:58:00 AM
Benzene	20	4.8		ug/m3	10	6/29/2022 5:14:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/25/2022 3:58:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/25/2022 3:58:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/25/2022 3:58:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/25/2022 3:58:00 AM
Carbon disulfide	6.1	0.47		ug/m3	1	6/25/2022 3:58:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/25/2022 3:58:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/25/2022 3:58:00 AM
Chloroethane	0.71	0.40		ug/m3	1	6/25/2022 3:58:00 AM
Chloroform	0.54	0.73	J	ug/m3	1	6/25/2022 3:58:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	6/25/2022 3:58:00 AM
cis-1,2-Dichloroethene	0.59	0.59		ug/m3	1	6/25/2022 3:58:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 3:58:00 AM
Cyclohexane	55	5.2		ug/m3	10	6/29/2022 5:14:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/25/2022 3:58:00 AM
Ethyl acetate	3.1	0.54		ug/m3	1	6/25/2022 3:58:00 AM
Ethylbenzene	5.2	0.65		ug/m3	1	6/25/2022 3:58:00 AM
Freon 11	1.4	0.84		ug/m3	1	6/25/2022 3:58:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/25/2022 3:58:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/25/2022 3:58:00 AM

Qualifiers:

- `*` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-014A

Client Sample ID: SVW-13
Tag Number: 1192,175
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	< 0.74	0.74		ug/m3	1	6/25/2022 3:58:00 AM
Heptane	15	6.1		ug/m3	10	6/29/2022 5:14:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/25/2022 3:58:00 AM
Hexane	30	5.3		ug/m3	10	6/29/2022 5:14:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/25/2022 3:58:00 AM
m&p-Xylene	18	1.3		ug/m3	1	6/25/2022 3:58:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/25/2022 3:58:00 AM
Methyl Ethyl Ketone	15	8.8		ug/m3	10	6/29/2022 5:14:00 PM
Methyl Isobutyl Ketone	11	12	J	ug/m3	10	6/29/2022 5:14:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/25/2022 3:58:00 AM
Methylene chloride	2.7	0.52		ug/m3	1	6/25/2022 3:58:00 AM
o-Xylene	12	6.5		ug/m3	10	6/29/2022 5:14:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/25/2022 3:58:00 AM
Styrene	1.5	0.64		ug/m3	1	6/25/2022 3:58:00 AM
Tetrachloroethylene	17	10		ug/m3	10	6/29/2022 5:14:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/25/2022 3:58:00 AM
Toluene	12	5.7		ug/m3	10	6/29/2022 5:14:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 3:58:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 3:58:00 AM
Trichloroethene	4.5	0.81		ug/m3	1	6/25/2022 3:58:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/25/2022 3:58:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/25/2022 3:58:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/25/2022 3:58:00 AM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-015A

Client Sample ID: SVW-14
Tag Number: 327,113
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-6			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: **NP**
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,2,4-Trimethylbenzene	7.4	1.5		ppbV	10	6/28/2022 12:53:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,3,5-Trimethylbenzene	3.0	1.5		ppbV	10	6/28/2022 12:53:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/25/2022 4:42:00 AM
2,2,4-trimethylpentane	8.8	1.5		ppbV	10	6/28/2022 12:53:00 PM
4-ethyltoluene	1.6	0.15		ppbV	1	6/25/2022 4:42:00 AM
Acetone	280	240		ppbV	810	6/29/2022 6:39:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Benzene	7.5	1.5		ppbV	10	6/28/2022 12:53:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Bromoform	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Carbon disulfide	37	6.0		ppbV	40	6/28/2022 1:35:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Chloroethane	0.96	0.15		ppbV	1	6/25/2022 4:42:00 AM
Chloroform	0.17	0.15		ppbV	1	6/25/2022 4:42:00 AM
Chloromethane	13	1.5		ppbV	10	6/28/2022 12:53:00 PM
cis-1,2-Dichloroethene	1.8	0.15		ppbV	1	6/25/2022 4:42:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Cyclohexane	22	6.0		ppbV	40	6/28/2022 1:35:00 PM

Qualifiers:

- `*` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-015A

Client Sample ID: SVW-14
Tag Number: 327,113
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Ethyl acetate	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Ethylbenzene	1.9	0.15		ppbV	1	6/25/2022 4:42:00 AM
Freon 11	0.16	0.15		ppbV	1	6/25/2022 4:42:00 AM
Freon 113	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Freon 114	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Freon 12	0.50	0.15		ppbV	1	6/25/2022 4:42:00 AM
Heptane	18	1.5		ppbV	10	6/28/2022 12:53:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Hexane	37	6.0		ppbV	40	6/28/2022 1:35:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
m&p-Xylene	6.5	3.0		ppbV	10	6/28/2022 12:53:00 PM
Methyl Butyl Ketone	4.8	3.0		ppbV	10	6/28/2022 12:53:00 PM
Methyl Ethyl Ketone	32	12		ppbV	40	6/28/2022 1:35:00 PM
Methyl Isobutyl Ketone	190	240	J	ppbV	810	6/29/2022 6:39:00 PM
Methyl tert-butyl ether	20	6.0		ppbV	40	6/28/2022 1:35:00 PM
Methylene chloride	3.1	1.5		ppbV	10	6/28/2022 12:53:00 PM
o-Xylene	4.4	1.5		ppbV	10	6/28/2022 12:53:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Styrene	1.3	0.15		ppbV	1	6/25/2022 4:42:00 AM
Tetrachloroethylene	3.5	1.5		ppbV	10	6/28/2022 12:53:00 PM
Tetrahydrofuran	13	1.5		ppbV	10	6/28/2022 12:53:00 PM
Toluene	7.2	1.5		ppbV	10	6/28/2022 12:53:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Trichloroethene	1.8	0.15		ppbV	1	6/25/2022 4:42:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Vinyl chloride	13	1.5		ppbV	10	6/28/2022 12:53:00 PM
Surr: Bromofluorobenzene	108	46.7-129		%REC	1	6/25/2022 4:42:00 AM

Qualifiers:

- `*` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-015A

Client Sample ID: SVW-14
Tag Number: 327,113
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 4:42:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/25/2022 4:42:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 4:42:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 4:42:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 4:42:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/25/2022 4:42:00 AM
1,2,4-Trimethylbenzene	36	7.4		ug/m3	10	6/28/2022 12:53:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/25/2022 4:42:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 4:42:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 4:42:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/25/2022 4:42:00 AM
1,3,5-Trimethylbenzene	15	7.4		ug/m3	10	6/28/2022 12:53:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/25/2022 4:42:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 4:42:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 4:42:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/25/2022 4:42:00 AM
2,2,4-trimethylpentane	41	7.0		ug/m3	10	6/28/2022 12:53:00 PM
4-ethyltoluene	8.0	0.74		ug/m3	1	6/25/2022 4:42:00 AM
Acetone	670	570		ug/m3	810	6/29/2022 6:39:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/25/2022 4:42:00 AM
Benzene	24	4.8		ug/m3	10	6/28/2022 12:53:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/25/2022 4:42:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/25/2022 4:42:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/25/2022 4:42:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/25/2022 4:42:00 AM
Carbon disulfide	110	19		ug/m3	40	6/28/2022 1:35:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/25/2022 4:42:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/25/2022 4:42:00 AM
Chloroethane	2.5	0.40		ug/m3	1	6/25/2022 4:42:00 AM
Chloroform	0.83	0.73		ug/m3	1	6/25/2022 4:42:00 AM
Chloromethane	27	3.1		ug/m3	10	6/28/2022 12:53:00 PM
cis-1,2-Dichloroethene	7.1	0.59		ug/m3	1	6/25/2022 4:42:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 4:42:00 AM
Cyclohexane	74	21		ug/m3	40	6/28/2022 1:35:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/25/2022 4:42:00 AM
Ethyl acetate	< 0.54	0.54		ug/m3	1	6/25/2022 4:42:00 AM
Ethylbenzene	8.2	0.66		ug/m3	1	6/25/2022 4:42:00 AM
Freon 11	0.90	0.84		ug/m3	1	6/25/2022 4:42:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/25/2022 4:42:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/25/2022 4:42:00 AM

Qualifiers:

- . Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-015A

Client Sample ID: SVW-14
Tag Number: 327,113
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	2.5	0.74		ug/m3	1	6/25/2022 4:42:00 AM
Heptane	72	6.1		ug/m3	10	6/28/2022 12:53:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/25/2022 4:42:00 AM
Hexane	130	21		ug/m3	40	6/28/2022 1:35:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/25/2022 4:42:00 AM
m&p-Xylene	28	13		ug/m3	10	6/28/2022 12:53:00 PM
Methyl Butyl Ketone	20	12		ug/m3	10	6/28/2022 12:53:00 PM
Methyl Ethyl Ketone	94	35		ug/m3	40	6/28/2022 1:35:00 PM
Methyl Isobutyl Ketone	760	980	J	ug/m3	810	6/29/2022 6:39:00 PM
Methyl tert-butyl ether	72	22		ug/m3	40	6/28/2022 1:35:00 PM
Methylene chloride	11	5.2		ug/m3	10	6/28/2022 12:53:00 PM
o-Xylene	19	6.5		ug/m3	10	6/28/2022 12:53:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/25/2022 4:42:00 AM
Styrene	5.5	0.64		ug/m3	1	6/25/2022 4:42:00 AM
Tetrachloroethylene	24	10		ug/m3	10	6/28/2022 12:53:00 PM
Tetrahydrofuran	37	4.4		ug/m3	10	6/28/2022 12:53:00 PM
Toluene	27	5.7		ug/m3	10	6/28/2022 12:53:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 4:42:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 4:42:00 AM
Trichloroethene	9.8	0.81		ug/m3	1	6/25/2022 4:42:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/25/2022 4:42:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/25/2022 4:42:00 AM
Vinyl chloride	33	3.8		ug/m3	10	6/28/2022 12:53:00 PM

Qualifiers:

- `*` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-016A

Client Sample ID: SVW-15
Tag Number: 465,109
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-1			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: NP
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.18	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,2,4-Trimethylbenzene	0.28	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,3,5-Trimethylbenzene	0.25	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,3-Dichlorobenzene	0.46	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/25/2022 5:26:00 AM
2,2,4-trimethylpentane	0.21	0.15		ppbV	1	6/25/2022 5:26:00 AM
4-ethyltoluene	0.10	0.15	J	ppbV	1	6/25/2022 5:26:00 AM
Acetone	24	12		ppbV	40	6/29/2022 8:04:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Benzene	0.25	0.15		ppbV	1	6/25/2022 5:26:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Bromoform	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Carbon disulfide	4.3	1.5		ppbV	10	6/29/2022 7:22:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Chloroform	5.5	1.5		ppbV	10	6/29/2022 7:22:00 PM
Chloromethane	0.62	0.15		ppbV	1	6/25/2022 5:26:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Cyclohexane	1.1	0.15		ppbV	1	6/25/2022 5:26:00 AM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-016A

Client Sample ID: SVW-15
Tag Number: 465,109
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Ethyl acetate	0.43	0.15		ppbV	1	6/25/2022 5:26:00 AM
Ethylbenzene	0.12	0.15	J	ppbV	1	6/25/2022 5:26:00 AM
Freon 11	4.1	1.5		ppbV	10	6/29/2022 7:22:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Freon 114	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Freon 12	0.53	0.15		ppbV	1	6/25/2022 5:26:00 AM
Heptane	0.91	0.15		ppbV	1	6/25/2022 5:26:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Hexane	2.2	1.5		ppbV	10	6/29/2022 7:22:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
m&p-Xylene	0.53	0.30		ppbV	1	6/25/2022 5:26:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/25/2022 5:26:00 AM
Methyl Ethyl Ketone	1.3	0.30		ppbV	1	6/25/2022 5:26:00 AM
Methyl Isobutyl Ketone	0.92	0.30		ppbV	1	6/25/2022 5:26:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Methylene chloride	2.9	1.5		ppbV	10	6/29/2022 7:22:00 PM
o-Xylene	0.18	0.15		ppbV	1	6/25/2022 5:26:00 AM
Propylene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Styrene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Tetrachloroethylene	2.9	1.5		ppbV	10	6/29/2022 7:22:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Toluene	0.85	0.15		ppbV	1	6/25/2022 5:26:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Surr: Bromofluorobenzene	97.0	46.7-129		%REC	1	6/25/2022 5:26:00 AM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-15
Lab Order:	C2206048	**Tag Number:**	465,109
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-016A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	0.98	0.82		ug/m3	1	6/25/2022 5:26:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/25/2022 5:26:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 5:26:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 5:26:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 5:26:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/25/2022 5:26:00 AM
1,2,4-Trimethylbenzene	1.4	0.74		ug/m3	1	6/25/2022 5:26:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/25/2022 5:26:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 5:26:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 5:26:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/25/2022 5:26:00 AM
1,3,5-Trimethylbenzene	1.2	0.74		ug/m3	1	6/25/2022 5:26:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/25/2022 5:26:00 AM
1,3-Dichlorobenzene	2.8	0.90		ug/m3	1	6/25/2022 5:26:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 5:26:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/25/2022 5:26:00 AM
2,2,4-trimethylpentane	0.98	0.70		ug/m3	1	6/25/2022 5:26:00 AM
4-ethyltoluene	0.49	0.74	J	ug/m3	1	6/25/2022 5:26:00 AM
Acetone	57	28		ug/m3	40	6/29/2022 8:04:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/25/2022 5:26:00 AM
Benzene	0.80	0.48		ug/m3	1	6/25/2022 5:26:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/25/2022 5:26:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/25/2022 5:26:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/25/2022 5:26:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/25/2022 5:26:00 AM
Carbon disulfide	13	4.7		ug/m3	10	6/29/2022 7:22:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/25/2022 5:26:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/25/2022 5:26:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	6/25/2022 5:26:00 AM
Chloroform	27	7.3		ug/m3	10	6/29/2022 7:22:00 PM
Chloromethane	1.3	0.31		ug/m3	1	6/25/2022 5:26:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 5:26:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 5:26:00 AM
Cyclohexane	3.7	0.52		ug/m3	1	6/25/2022 5:26:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/25/2022 5:26:00 AM
Ethyl acetate	1.5	0.54		ug/m3	1	6/25/2022 5:26:00 AM
Ethylbenzene	0.52	0.65	J	ug/m3	1	6/25/2022 5:26:00 AM
Freon 11	23	8.4		ug/m3	10	6/29/2022 7:22:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/25/2022 5:26:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/25/2022 5:26:00 AM

Qualifiers:

- `*` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-016A

Client Sample ID: SVW-15
Tag Number: 465,109
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.6	0.74		ug/m3	1	6/25/2022 5:26:00 AM
Heptane	3.7	0.61		ug/m3	1	6/25/2022 5:26:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/25/2022 5:26:00 AM
Hexane	7.8	5.3		ug/m3	10	6/29/2022 7:22:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/25/2022 5:26:00 AM
m&p-Xylene	2.3	1.3		ug/m3	1	6/25/2022 5:26:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/25/2022 5:26:00 AM
Methyl Ethyl Ketone	3.8	0.88		ug/m3	1	6/25/2022 5:26:00 AM
Methyl Isobutyl Ketone	3.8	1.2		ug/m3	1	6/25/2022 5:26:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/25/2022 5:26:00 AM
Methylene chloride	10	5.2		ug/m3	10	6/29/2022 7:22:00 PM
o-Xylene	0.78	0.65		ug/m3	1	6/25/2022 5:26:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/25/2022 5:26:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/25/2022 5:26:00 AM
Tetrachloroethylene	20	10		ug/m3	10	6/29/2022 7:22:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/25/2022 5:26:00 AM
Toluene	3.2	0.57		ug/m3	1	6/25/2022 5:26:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 5:26:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 5:26:00 AM
Trichloroethene	< 0.81	0.81		ug/m3	1	6/25/2022 5:26:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/25/2022 5:26:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/25/2022 5:26:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/25/2022 5:26:00 AM

Qualifiers:

- `*` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-017A

Client Sample ID: SVW-16
Tag Number: 98,151
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-4			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: NP
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,2,4-Trimethylbenzene	0.22	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,3,5-Trimethylbenzene	0.14	0.15	J	ppbV	1	6/25/2022 6:10:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/25/2022 6:10:00 AM
2,2,4-trimethylpentane	0.29	0.15		ppbV	1	6/25/2022 6:10:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Acetone	5.0	3.0		ppbV	10	6/29/2022 8:47:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Benzene	0.32	0.15		ppbV	1	6/25/2022 6:10:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Bromoform	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Carbon disulfide	51	6.0		ppbV	40	6/29/2022 9:29:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Chloroform	0.36	0.15		ppbV	1	6/25/2022 6:10:00 AM
Chloromethane	0.75	0.15		ppbV	1	6/25/2022 6:10:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Cyclohexane	0.35	0.15		ppbV	1	6/25/2022 6:10:00 AM

Qualifiers:

- . Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-017A

Client Sample ID: SVW-16
Tag Number: 98,151
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Ethyl acetate	0.47	0.15		ppbV	1	6/25/2022 6:10:00 AM
Ethylbenzene	0.17	0.15		ppbV	1	6/25/2022 6:10:00 AM
Freon 11	0.23	0.15		ppbV	1	6/25/2022 6:10:00 AM
Freon 113	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Freon 114	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Freon 12	0.44	0.15		ppbV	1	6/25/2022 6:10:00 AM
Heptane	0.23	0.15		ppbV	1	6/25/2022 6:10:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Hexane	0.29	0.15		ppbV	1	6/25/2022 6:10:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
m&p-Xylene	0.55	0.30		ppbV	1	6/25/2022 6:10:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/25/2022 6:10:00 AM
Methyl Ethyl Ketone	0.44	0.30		ppbV	1	6/25/2022 6:10:00 AM
Methyl Isobutyl Ketone	0.23	0.30	J	ppbV	1	6/25/2022 6:10:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Methylene chloride	1.7	0.15		ppbV	1	6/25/2022 6:10:00 AM
o-Xylene	0.21	0.15		ppbV	1	6/25/2022 6:10:00 AM
Propylene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Styrene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Tetrachloroethylene	0.13	0.15	J	ppbV	1	6/25/2022 6:10:00 AM
Tetrahydrofuran	0.26	0.15		ppbV	1	6/25/2022 6:10:00 AM
Toluene	1.4	0.15		ppbV	1	6/25/2022 6:10:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Surr: Bromofluorobenzene	92.0	46.7-129		%REC	1	6/25/2022 6:10:00 AM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-017A

Client Sample ID: SVW-16
Tag Number: 98,151
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 6:10:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/25/2022 6:10:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 6:10:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 6:10:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 6:10:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/25/2022 6:10:00 AM
1,2,4-Trimethylbenzene	1.1	0.74		ug/m3	1	6/25/2022 6:10:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/25/2022 6:10:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 6:10:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 6:10:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/25/2022 6:10:00 AM
1,3,5-Trimethylbenzene	0.69	0.74	J	ug/m3	1	6/25/2022 6:10:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/25/2022 6:10:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 6:10:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 6:10:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/25/2022 6:10:00 AM
2,2,4-trimethylpentane	1.4	0.70		ug/m3	1	6/25/2022 6:10:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/25/2022 6:10:00 AM
Acetone	12	7.1		ug/m3	10	6/29/2022 8:47:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/25/2022 6:10:00 AM
Benzene	1.0	0.48		ug/m3	1	6/25/2022 6:10:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/25/2022 6:10:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/25/2022 6:10:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/25/2022 6:10:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/25/2022 6:10:00 AM
Carbon disulfide	160	19		ug/m3	40	6/29/2022 9:29:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/25/2022 6:10:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/25/2022 6:10:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	6/25/2022 6:10:00 AM
Chloroform	1.8	0.73		ug/m3	1	6/25/2022 6:10:00 AM
Chloromethane	1.5	0.31		ug/m3	1	6/25/2022 6:10:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 6:10:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 6:10:00 AM
Cyclohexane	1.2	0.52		ug/m3	1	6/25/2022 6:10:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/25/2022 6:10:00 AM
Ethyl acetate	1.7	0.54		ug/m3	1	6/25/2022 6:10:00 AM
Ethylbenzene	0.74	0.65		ug/m3	1	6/25/2022 6:10:00 AM
Freon 11	1.3	0.84		ug/m3	1	6/25/2022 6:10:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/25/2022 6:10:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/25/2022 6:10:00 AM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-017A

Client Sample ID: SVW-16
Tag Number: 98,151
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.2	0.74		ug/m3	1	6/25/2022 6:10:00 AM
Heptane	0.94	0.61		ug/m3	1	6/25/2022 6:10:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/25/2022 6:10:00 AM
Hexane	1.0	0.53		ug/m3	1	6/25/2022 6:10:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/25/2022 6:10:00 AM
m&p-Xylene	2.4	1.3		ug/m3	1	6/25/2022 6:10:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/25/2022 6:10:00 AM
Methyl Ethyl Ketone	1.3	0.88		ug/m3	1	6/25/2022 6:10:00 AM
Methyl Isobutyl Ketone	0.94	1.2	J	ug/m3	1	6/25/2022 6:10:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/25/2022 6:10:00 AM
Methylene chloride	5.8	0.52		ug/m3	1	6/25/2022 6:10:00 AM
o-Xylene	0.91	0.65		ug/m3	1	6/25/2022 6:10:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/25/2022 6:10:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/25/2022 6:10:00 AM
Tetrachloroethylene	0.88	1.0	J	ug/m3	1	6/25/2022 6:10:00 AM
Tetrahydrofuran	0.77	0.44		ug/m3	1	6/25/2022 6:10:00 AM
Toluene	5.2	0.57		ug/m3	1	6/25/2022 6:10:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 6:10:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 6:10:00 AM
Trichloroethene	< 0.81	0.81		ug/m3	1	6/25/2022 6:10:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/25/2022 6:10:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/25/2022 6:10:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/25/2022 6:10:00 AM

Qualifiers:

- `*` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-018A

Client Sample ID: AS-1
Tag Number: 1182,453
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-1			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	6/24/2022 12:22:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,2,4-Trimethylbenzene	0.11	0.15	J	ppbV	1	6/24/2022 12:22:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/24/2022 12:22:00 PM
2,2,4-trimethylpentane	0.13	0.15	J	ppbV	1	6/24/2022 12:22:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Acetone	7.8	3.0		ppbV	10	6/25/2022 7:37:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Benzene	0.19	0.15		ppbV	1	6/24/2022 12:22:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Carbon tetrachloride	0.10	0.030		ppbV	1	6/24/2022 12:22:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Chloroform	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Chloromethane	0.46	0.15		ppbV	1	6/24/2022 12:22:00 PM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	6/24/2022 12:22:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Ethyl acetate	0.32	0.15		ppbV	1	6/24/2022 12:22:00 PM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-018A

Client Sample ID: AS-1
Tag Number: 1182,453
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Freon 11	0.24	0.15		ppbV	1	6/24/2022 12:22:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Freon 12	0.45	0.15		ppbV	1	6/24/2022 12:22:00 PM
Heptane	0.14	0.15	J	ppbV	1	6/24/2022 12:22:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Hexane	0.22	0.15		ppbV	1	6/24/2022 12:22:00 PM
Isopropyl alcohol	1.4	0.15		ppbV	1	6/24/2022 12:22:00 PM
m&p-Xylene	0.24	0.30	J	ppbV	1	6/24/2022 12:22:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 12:22:00 PM
Methyl Ethyl Ketone	0.40	0.30		ppbV	1	6/24/2022 12:22:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 12:22:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Methylene chloride	0.36	0.15		ppbV	1	6/24/2022 12:22:00 PM
o-Xylene	0.11	0.15	J	ppbV	1	6/24/2022 12:22:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Toluene	0.89	0.15		ppbV	1	6/24/2022 12:22:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Trichloroethene	< 0.030	0.030		ppbV	1	6/24/2022 12:22:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	6/24/2022 12:22:00 PM
Surr: Bromofluorobenzene	91.0	47-124		%REC	1	6/24/2022 12:22:00 PM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-018A

Client Sample ID: AS-1
Tag Number: 1182,453
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 12:22:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/24/2022 12:22:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 12:22:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 12:22:00 PM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	6/24/2022 12:22:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/24/2022 12:22:00 PM
1,2,4-Trimethylbenzene	0.54	0.74	J	ug/m3	1	6/24/2022 12:22:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/24/2022 12:22:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 12:22:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 12:22:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/24/2022 12:22:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/24/2022 12:22:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/24/2022 12:22:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 12:22:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 12:22:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/24/2022 12:22:00 PM
2,2,4-trimethylpentane	0.61	0.70	J	ug/m3	1	6/24/2022 12:22:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/24/2022 12:22:00 PM
Acetone	19	7.1		ug/m3	10	6/25/2022 7:37:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/24/2022 12:22:00 PM
Benzene	0.61	0.48		ug/m3	1	6/24/2022 12:22:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/24/2022 12:22:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/24/2022 12:22:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/24/2022 12:22:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/24/2022 12:22:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	6/24/2022 12:22:00 PM
Carbon tetrachloride	0.63	0.19		ug/m3	1	6/24/2022 12:22:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/24/2022 12:22:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/24/2022 12:22:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	6/24/2022 12:22:00 PM
Chloromethane	0.95	0.31		ug/m3	1	6/24/2022 12:22:00 PM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	6/24/2022 12:22:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 12:22:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/24/2022 12:22:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/24/2022 12:22:00 PM
Ethyl acetate	1.2	0.54		ug/m3	1	6/24/2022 12:22:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	6/24/2022 12:22:00 PM
Freon 11	1.3	0.84		ug/m3	1	6/24/2022 12:22:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/24/2022 12:22:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/24/2022 12:22:00 PM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-018A

Client Sample ID: AS-1
Tag Number: 1182,453
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: RJP
Freon 12	2.2	0.74		ug/m3	1	6/24/2022 12:22:00 PM
Heptane	0.57	0.61	J	ug/m3	1	6/24/2022 12:22:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/24/2022 12:22:00 PM
Hexane	0.78	0.53		ug/m3	1	6/24/2022 12:22:00 PM
Isopropyl alcohol	3.5	0.37		ug/m3	1	6/24/2022 12:22:00 PM
m&p-Xylene	1.0	1.3	J	ug/m3	1	6/24/2022 12:22:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 12:22:00 PM
Methyl Ethyl Ketone	1.2	0.88		ug/m3	1	6/24/2022 12:22:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 12:22:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/24/2022 12:22:00 PM
Methylene chloride	1.3	0.52		ug/m3	1	6/24/2022 12:22:00 PM
o-Xylene	0.48	0.65	J	ug/m3	1	6/24/2022 12:22:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/24/2022 12:22:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/24/2022 12:22:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/24/2022 12:22:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/24/2022 12:22:00 PM
Toluene	3.4	0.57		ug/m3	1	6/24/2022 12:22:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 12:22:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 12:22:00 PM
Trichloroethene	< 0.16	0.16		ug/m3	1	6/24/2022 12:22:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/24/2022 12:22:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/24/2022 12:22:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/24/2022 12:22:00 PM

Qualifiers:

- `*` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-019A

Client Sample ID: AS-2
Tag Number: 85,1152
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-1			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	6/24/2022 1:06:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,2,4-Trimethylbenzene	0.11	0.15	J	ppbV	1	6/24/2022 1:06:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/24/2022 1:06:00 PM
2,2,4-trimethylpentane	0.13	0.15	J	ppbV	1	6/24/2022 1:06:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Acetone	7.2	3.0		ppbV	10	6/25/2022 8:20:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Benzene	0.26	0.15		ppbV	1	6/24/2022 1:06:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Carbon disulfide	0.10	0.15	J	ppbV	1	6/24/2022 1:06:00 PM
Carbon tetrachloride	0.10	0.030		ppbV	1	6/24/2022 1:06:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Chloroform	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Chloromethane	0.45	0.15		ppbV	1	6/24/2022 1:06:00 PM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	6/24/2022 1:06:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Ethyl acetate	0.36	0.15		ppbV	1	6/24/2022 1:06:00 PM

Qualifiers:

- . Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-019A

Client Sample ID: AS-2
Tag Number: 85,1152
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.11	0.15	J	ppbV	1	6/24/2022 1:06:00 PM
Freon 11	0.25	0.15		ppbV	1	6/24/2022 1:06:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Freon 12	0.47	0.15		ppbV	1	6/24/2022 1:06:00 PM
Heptane	0.19	0.15		ppbV	1	6/24/2022 1:06:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Hexane	0.21	0.15		ppbV	1	6/24/2022 1:06:00 PM
Isopropyl alcohol	1.3	0.15		ppbV	1	6/24/2022 1:06:00 PM
m&p-Xylene	0.32	0.30		ppbV	1	6/24/2022 1:06:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 1:06:00 PM
Methyl Ethyl Ketone	0.43	0.30		ppbV	1	6/24/2022 1:06:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 1:06:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Methylene chloride	0.36	0.15		ppbV	1	6/24/2022 1:06:00 PM
o-Xylene	0.13	0.15	J	ppbV	1	6/24/2022 1:06:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Toluene	0.97	0.15		ppbV	1	6/24/2022 1:06:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Trichloroethene	< 0.030	0.030		ppbV	1	6/24/2022 1:06:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	6/24/2022 1:06:00 PM
Surr: Bromofluorobenzene	93.0	47-124		%REC	1	6/24/2022 1:06:00 PM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-019A

Client Sample ID: AS-2
Tag Number: 85,1152
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 1:06:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/24/2022 1:06:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 1:06:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 1:06:00 PM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	6/24/2022 1:06:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/24/2022 1:06:00 PM
1,2,4-Trimethylbenzene	0.54	0.74	J	ug/m3	1	6/24/2022 1:06:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/24/2022 1:06:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 1:06:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 1:06:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/24/2022 1:06:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/24/2022 1:06:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/24/2022 1:06:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 1:06:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 1:06:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/24/2022 1:06:00 PM
2,2,4-trimethylpentane	0.61	0.70	J	ug/m3	1	6/24/2022 1:06:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/24/2022 1:06:00 PM
Acetone	17	7.1		ug/m3	10	6/25/2022 8:20:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/24/2022 1:06:00 PM
Benzene	0.83	0.48		ug/m3	1	6/24/2022 1:06:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/24/2022 1:06:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/24/2022 1:06:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/24/2022 1:06:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/24/2022 1:06:00 PM
Carbon disulfide	0.31	0.47	J	ug/m3	1	6/24/2022 1:06:00 PM
Carbon tetrachloride	0.63	0.19		ug/m3	1	6/24/2022 1:06:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/24/2022 1:06:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/24/2022 1:06:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	6/24/2022 1:06:00 PM
Chloromethane	0.93	0.31		ug/m3	1	6/24/2022 1:06:00 PM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	6/24/2022 1:06:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 1:06:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/24/2022 1:06:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/24/2022 1:06:00 PM
Ethyl acetate	1.3	0.54		ug/m3	1	6/24/2022 1:06:00 PM
Ethylbenzene	0.48	0.65	J	ug/m3	1	6/24/2022 1:06:00 PM
Freon 11	1.4	0.84		ug/m3	1	6/24/2022 1:06:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/24/2022 1:06:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/24/2022 1:06:00 PM

Qualifiers:

- `*` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-019A

Client Sample ID: AS-2
Tag Number: 85,1152
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
Freon 12	2.3	0.74		ug/m3	1	6/24/2022 1:06:00 PM
Heptane	0.78	0.61		ug/m3	1	6/24/2022 1:06:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/24/2022 1:06:00 PM
Hexane	0.74	0.53		ug/m3	1	6/24/2022 1:06:00 PM
Isopropyl alcohol	3.2	0.37		ug/m3	1	6/24/2022 1:06:00 PM
m&p-Xylene	1.4	1.3		ug/m3	1	6/24/2022 1:06:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 1:06:00 PM
Methyl Ethyl Ketone	1.3	0.88		ug/m3	1	6/24/2022 1:06:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 1:06:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/24/2022 1:06:00 PM
Methylene chloride	1.3	0.52		ug/m3	1	6/24/2022 1:06:00 PM
o-Xylene	0.56	0.65	J	ug/m3	1	6/24/2022 1:06:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/24/2022 1:06:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/24/2022 1:06:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/24/2022 1:06:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/24/2022 1:06:00 PM
Toluene	3.7	0.57		ug/m3	1	6/24/2022 1:06:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 1:06:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 1:06:00 PM
Trichloroethene	< 0.16	0.16		ug/m3	1	6/24/2022 1:06:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/24/2022 1:06:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/24/2022 1:06:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/24/2022 1:06:00 PM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	TB-1
Lab Order:	C2206048	**Tag Number:**	158
Project:	IKEA Red Hook	**Collection Date:**	
Lab ID:	C2206048-020A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	+19			"Hg		6/23/2022
Lab Vacuum Out	+19			"Hg		6/23/2022
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	6/29/2022 3:21:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/29/2022 3:21:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Acetone	< 0.30	0.30		ppbV	1	6/29/2022 3:21:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Benzene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Bromoform	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Carbon tetrachloride	< 0.030	0.030		ppbV	1	6/29/2022 3:21:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Chloroform	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	6/29/2022 3:21:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Ethyl acetate	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-020A

Client Sample ID: TB-1
Tag Number: 158
Collection Date:
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Freon 11	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Freon 113	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Freon 114	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Freon 12	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Heptane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Hexane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
m&p-Xylene	< 0.30	0.30		ppbV	1	6/29/2022 3:21:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/29/2022 3:21:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	6/29/2022 3:21:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/29/2022 3:21:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Propylene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Styrene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Toluene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Trichloroethene	< 0.030	0.030		ppbV	1	6/29/2022 3:21:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	6/29/2022 3:21:00 AM
Surr: Bromofluorobenzene	79.0	47-124		%REC	1	6/29/2022 3:21:00 AM

Qualifiers:

- `*` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Client Sample ID: TB-1
Lab Order: C2206048
Tag Number: 158
Project: IKEA Red Hook
Collection Date:
Lab ID: C2206048-020A
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/29/2022 3:21:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/29/2022 3:21:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/29/2022 3:21:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/29/2022 3:21:00 AM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	6/29/2022 3:21:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/29/2022 3:21:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/29/2022 3:21:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/29/2022 3:21:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/29/2022 3:21:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/29/2022 3:21:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/29/2022 3:21:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/29/2022 3:21:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/29/2022 3:21:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/29/2022 3:21:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/29/2022 3:21:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/29/2022 3:21:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	6/29/2022 3:21:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/29/2022 3:21:00 AM
Acetone	< 0.71	0.71		ug/m3	1	6/29/2022 3:21:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/29/2022 3:21:00 AM
Benzene	< 0.48	0.48		ug/m3	1	6/29/2022 3:21:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/29/2022 3:21:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/29/2022 3:21:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/29/2022 3:21:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/29/2022 3:21:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	6/29/2022 3:21:00 AM
Carbon tetrachloride	< 0.19	0.19		ug/m3	1	6/29/2022 3:21:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/29/2022 3:21:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	6/29/2022 3:21:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	6/29/2022 3:21:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	6/29/2022 3:21:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	6/29/2022 3:21:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/29/2022 3:21:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/29/2022 3:21:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/29/2022 3:21:00 AM
Ethyl acetate	< 0.54	0.54		ug/m3	1	6/29/2022 3:21:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	6/29/2022 3:21:00 AM
Freon 11	< 0.84	0.84		ug/m3	1	6/29/2022 3:21:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/29/2022 3:21:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/29/2022 3:21:00 AM

Qualifiers:

*	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-020A

Client Sample ID: TB-1
Tag Number: 158
Collection Date:
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: RJP
Freon 12	< 0.74	0.74		ug/m3	1	6/29/2022 3:21:00 AM
Heptane	< 0.61	0.61		ug/m3	1	6/29/2022 3:21:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/29/2022 3:21:00 AM
Hexane	< 0.53	0.53		ug/m3	1	6/29/2022 3:21:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/29/2022 3:21:00 AM
m&p-Xylene	< 1.3	1.3		ug/m3	1	6/29/2022 3:21:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/29/2022 3:21:00 AM
Methyl Ethyl Ketone	< 0.88	0.88		ug/m3	1	6/29/2022 3:21:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/29/2022 3:21:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/29/2022 3:21:00 AM
Methylene chloride	< 0.52	0.52		ug/m3	1	6/29/2022 3:21:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	6/29/2022 3:21:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/29/2022 3:21:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/29/2022 3:21:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/29/2022 3:21:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/29/2022 3:21:00 AM
Toluene	< 0.57	0.57		ug/m3	1	6/29/2022 3:21:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/29/2022 3:21:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/29/2022 3:21:00 AM
Trichloroethene	< 0.16	0.16		ug/m3	1	6/29/2022 3:21:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/29/2022 3:21:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/29/2022 3:21:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/29/2022 3:21:00 AM

Qualifiers:

- `.` Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

QUALITY CONTROL SUMMARY

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

QC SUMMARY REPORT
SURROGATE RECOVERIES

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook
Test No: TO-15 **Matrix:** A

Sample ID	BR4FBZ
ALCS1UG-062422	98.0
ALCS1UG-062722	90.0
ALCS1UG-062822	95.0
ALCS1UG-062922	101
ALCS1UGD-062722	96.0
ALCS1UGD-062822	96.0
ALCSD1UG-062422	100
AMB1UG-062422	89.0
AMB1UG-062722	89.0
AMB1UG-062822	80.0
AMB1UG-062922	85.0
C2206048-001A	90.0
C2206048-002A	88.0
C2206048-003A	92.0
C2206048-003A MS	99.0
C2206048-003A MSD	91.0
C2206048-004A	93.0
C2206048-005A	99.0
C2206048-006A	92.0
C2206048-007A	100
C2206048-008A	96.0
C2206048-009A	95.0
C2206048-010A	99.0

Acronym		Surrogate	QC Limits
BR4FBZ	=	Bromofluorobenzene	47-124
BR4FBZ	=	Bromofluorobenzene	46.7-129

* Surrogate recovery outside acceptance limits

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook
Test No: TO-15 **Matrix:** A

Sample ID	BR4FBZ
C2206048-011A	95.0
C2206048-012A	97.0
C2206048-013A	97.0
C2206048-014A	112
C2206048-015A	108
C2206048-016A	97.0
C2206048-017A	92.0
C2206048-018A	91.0
C2206048-019A	93.0
C2206048-020A	79.0

Acronym		Surrogate	QC Limits
BR4FBZ	=	Bromofluorobenzene	47-124
BR4FBZ	=	Bromofluorobenzene	46.7-129

* Surrogate recovery outside acceptance limits

2

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\AT062402.D
Tune Time : 24 Jun 2022 9:20 am

Daily Calibration File : C:\HPCHEM\1\DATA\AT062402.D

			(BFB)	(IS1)	(IS2)	(IS3)
				37064	173918	150345
File	Sample	DL	Surrogate Recovery %	Internal Standard Responses		
AT062403.D	ALCS1UG-062422		98	36985	168885	149300
AT062404.D	AMB1UG-062422		89	34972	157383	139011
AT062406.D	C2206048-018A		91	32368	148101	134135
AT062407.D	C2206048-019A		93	32107	144309	130226
AT062408.D	C2206048-003A		92	32327	147054	128672
AT062409.D	C2206048-003A	MS	99	33234	154865	136168
AT062410.D	C2206048-003A	MSD	91	33337	152548	146553
AT062411.D	C2206048-001A	0.83X	90	30679	138401	127202
AT062412.D	C2206048-002A	0.83X	88	30903	134386	123492
AT062413.D	C2206048-004A		93	28958	133308	128692
AT062414.D	C2206048-005A		99	30240	133342	125075
AT062415.D	C2206048-006A		92	29855	138749	123320
AT062416.D	C2206048-007A		100	28817	133262	119057
AT062418.D	C2206048-009A		95	28705	134434	121935
AT062419.D	C2206048-010A		99	34394	151042	143331
AT062420.D	C2206048-011A		95	35988	164150	142271
AT062421.D	C2206048-012A		97	34769	160702	137971
AT062422.D	C2206048-013A		97	34932	161216	151385
AT062423.D	ALCSD1UG-062422		100	39162	168759	143882
AT062424.D	C2206048-014A		112	36013	168716	156199
AT062425.D	C2206048-015A		108	39637	188219	171370
AT062426.D	C2206048-016A		97	39642	186106	171452
AT062427.D	C2206048-017A		92	37622	176925	154718
AT062428.D	C2206049-001A		98	37830	166190	150876
AT062429.D	C2206048-018A	10X	87	33515	147587	129730
AT062430.D	C2206048-019A	10X	88	32400	138638	119924

t - fails 24hr time check * - fails criteria

Created: Thu Jul 07 07:58:07 2022 MSD #1/

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\AT062702.D
Tune Time : 27 Jun 2022 9:14 am

Daily Calibration File : C:\HPCHEM\1\DATA\AT062702.D

File	Sample	DL	(BFB) Surrogate Recovery %	(IS1) 37869	(IS2) 170350	(IS3) 150256
				Internal Standard Responses		
AT062703.D	ALCS1UG-062722		90	37200	166081	156994
AT062704.D	AMB1UG-062722		89	35284	153480	136101
AT062705.D	C2206048-008A		96	71094*	331680*	303103*
AT062706.D	C2206048-003A	10X	87	34657	157555	134536
AT062719.D	ALCS1UGD-062722		96	31728	144671	128413
AT062720.D	C2206048-004A	20X	88	30203	137313	120305
AT062721.D	C2206048-005A	20X	85	29702	128310	112267
AT062722.D	C2206048-006A	10X	86	28986	131368	112277
AT062723.D	C2206048-007A	20X	87	26814	121705	108315
AT062724.D	C2206048-008A	10X	89	28796	130091	107947
AT062726.D	C2206048-009A	10X	91	27023	122169	113234
AT062727.D	C2206048-009A	40X	85	26333	115081	103631
AT062728.D	C2206048-010A	40X	85	25942	112173	101575
AT062730.D	C2206048-011A	20X	89	26331	125075	104021

t - fails 24hr time check * - fails criteria

Created: Thu Jul 07 08:00:55 2022 MSD #1/

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\AT062802.D
Tune Time : 28 Jun 2022 9:23 am

Daily Calibration File : C:\HPCHEM\1\DATA\AT062802.D

			(BFB)	(IS1)	(IS2)	(IS3)
				25289	116158	99146
File	Sample	DL	Surrogate Recovery %	Internal Standard Responses		
AT062803.D	ALCS1UG-062822		95	25424	115956	101381
AT062804.D	AMB1UG-062822		80	23672	104814	90080
AT062807.D	C2206048-015A 10X		92	23343	108077	103807
AT062808.D	C2206048-015A 40X		95	24042	104988	93504
AT062826.D	ALCS1UGD-062822		96	24160	107538	97761
AT062827.D	C2206048-020A		79	23908	101034	88053
AT062828.D	C2206048-001A 4X		82	23348	94535	84828
AT062830.D	C2206048-012A 10X		88	22382	101250	87447
AT062831.D	C2206048-012A 40X		88	22928	100704	83975

t - fails 24hr time check * - fails criteria

Created: Thu Jul 07 08:03:24 2022 MSD #1/

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\AT062904.D
Tune Time : 29 Jun 2022 11:50 am

Daily Calibration File : C:\HPCHEM\1\DATA\AT062904.D

File	Sample	DL	(BFB) Surrogate Recovery %	(IS1) 22745	(IS2) 99706	(IS3) 90451
				Internal Standard Responses		
AT062905.D	ALCS1UG-062922		101	22407	96300	87322
AT062906.D	AMB1UG-062922		85	24333	97108	90506
AT062907.D	C2206048-010A	10X	97	22369	92245	88849
AT062908.D	C2206048-010A	810X	83	23160	96387	88259
AT062909.D	C2206048-013A	9X	92	22907	103490	95590
AT062910.D	C2206048-013A	90X	81	22163	91784	82716
AT062911.D	C2206048-014A	10X	94	23112	102739	90731
AT062912.D	C2206048-014A	40X	87	23566	104052	89459
AT062913.D	C2206048-015A	810X	80	22109	89234	78967
AT062914.D	C2206048-016A	10X	87	22717	100330	88449
AT062915.D	C2206048-016A	40X	76	21800	89969	85529
AT062916.D	C2206048-017A	10X	85	22253	90116	83886
AT062917.D	C2206048-017A	40X	91	21158	96659	79842

t - fails 24hr time check * - fails criteria

Created: Thu Jul 07 08:05:11 2022 MSD #1/

ANALYTICAL QC SUMMARY REPORT

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 0.20_NYS

Sample ID: ALCS1UG-062422 SampType: LCS TestCode: 0.20_NYS Units: ppbV Prep Date: RunNo: 19132
Client ID: ZZZZZ Batch ID: R19132 TestNo: TO-15 Analysis Date: 6/24/2022 SeqNo: 218343

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.450	0.15	1	0	145	91.3	127				S
1,1,2,2-Tetrachloroethane	1.180	0.15	1	0	118	78.7	121				
1,1,2-Trichloroethane	1.110	0.15	1	0	111	88.1	136				
1,1-Dichloroethane	1.040	0.15	1	0	104	86.1	123				
1,1-Dichloroethene	1.040	0.040	1	0	104	70	94				S
1,2,4-Trichlorobenzene	1.680	0.15	1	0	168	76.7	112				S
1,2,4-Trimethylbenzene	1.220	0.15	1	0	122	74.3	123				
1,2-Dibromoethane	1.260	0.15	1	0	126	80.4	125				S
1,2-Dichlorobenzene	1.350	0.15	1	0	135	79.5	143				
1,2-Dichloroethane	1.090	0.15	1	0	109	70.9	133				
1,2-Dichloropropane	1.070	0.15	1	0	107	91	134				
1,3,5-Trimethylbenzene	1.190	0.15	1	0	119	77.4	138				
1,3-butadiene	1.120	0.15	1	0	112	71	144				
1,3-Dichlorobenzene	1.290	0.15	1	0	129	84.7	128				S
1,4-Dichlorobenzene	1.340	0.15	1	0	134	77.9	131				S
1,4-Dioxane	1.440	0.30	1	0	144	60.9	133				S
2,2,4-trimethylpentane	1.030	0.15	1	0	103	86.9	126				
4-ethyltoluene	1.220	0.15	1	0	122	77.5	133				
Acetone	1.200	0.30	1	0	120	46.7	165				
Allyl chloride	0.9100	0.15	1	0	91.0	86.6	117				
Benzene	1.060	0.15	1	0	106	88.9	122				
Benzyl chloride	1.940	0.15	1	0	194	73.6	120				S
Bromodichloromethane	1.220	0.15	1	0	122	84.3	133				
Bromoform	1.550	0.15	1	0	155	44.6	149				S
Bromomethane	1.200	0.15	1	0	120	78.7	144				

Qualifiers:

- . Results reported are not blank corrected
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- DL Detection Limit
- J Analyte detected below quantitation limit
- S Spike Recovery outside accepted recovery limits
- E Estimated Value above quantitation range
- ND Not Detected at the Limit of Detection

Centek/SanAir Laboratories

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 0.20_NYS

Sample ID: ALCS1UG-062422 SampType: LCS TestCode: 0.20_NYS Units: ppbV Prep Date: RunNo: 19132
Client ID: ZZZZZ Batch ID: R19132 TestNo: TO-15 Analysis Date: 6/24/2022 SeqNo: 218343

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.9200	0.15	1	0	92.0	76.9	109				
Carbon tetrachloride	1.650	0.030	1	0	165	71	120				S
Chlorobenzene	1.180	0.15	1	0	118	82.6	121				
Chloroethane	1.140	0.15	1	0	114	67.1	146				
Chloroform	1.140	0.15	1	0	114	82.5	125				
Chloromethane	1.230	0.15	1	0	123	71.1	154				
cis-1,2-Dichloroethene	1.020	0.040	1	0	102	71.2	112				
cis-1,3-Dichloropropene	1.310	0.15	1	0	131	90.3	137				
Cyclohexane	1.000	0.15	1	0	100	87	122				
Dibromochloromethane	1.430	0.15	1	0	143	62.8	132				S
Ethyl acetate	1.220	0.15	1	0	122	86.9	134				
Ethylbenzene	1.170	0.15	1	0	117	76.9	123				
Freon 11	1.240	0.15	1	0	124	54.4	150				
Freon 113	1.110	0.15	1	0	111	83.4	124				
Freon 114	1.240	0.15	1	0	124	70.2	133				
Freon 12	1.110	0.15	1	0	111	86.3	135				
Heptane	0.9500	0.15	1	0	95.0	86.5	137				
Hexachloro-1,3-butadiene	1.480	0.15	1	0	148	78.7	120				S
Hexane	0.9200	0.15	1	0	92.0	77.3	128				
Isopropyl alcohol	1.120	0.15	1	0	112	80.2	122				
m&p-Xylene	2.340	0.30	2	0	117	77.9	132				
Methyl Butyl Ketone	1.710	0.30	1	0	171	69.4	131				S
Methyl Ethyl Ketone	1.260	0.30	1	0	126	71.5	117				S
Methyl isobutyl Ketone	1.400	0.30	1	0	140	63.5	141				
Methyl tert-butyl ether	1.190	0.15	1	0	119	80.8	113				S
Methylene chloride	0.8700	0.15	1	0	87.0	87.8	123				S
o-Xylene	1.150	0.15	1	0	115	80.5	139				
Propylene	1.440	0.15	1	0.69	75.0	73.8	124				B
Styrene	1.200	0.15	1	0	120	82.7	138				
Tetrachloroethylene	1.210	0.15	1	0	121	85.9	122				
Tetrahydrofuran	1.080	0.15	1	0	108	65.5	134				

Qualifiers:
. Results reported are not blank corrected
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
Dl. Detection Limit
J Analyte detected below quantitation limit
S Spike Recovery outside accepted recovery limits
E Estimated Value above quantitation range
ND Not Detected at the Limit of Detection

Centek/SanAir Laboratories

Sample ID: **ALCS1UG-062422** SampType: **LCS** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **19132**
Client ID: **ZZZZZ** Batch ID: **R19132** TestNo: **TO-15** Analysis Date: **6/24/2022** SeqNo: **218343**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.140	0.15	1	0	114	77.8	127				
trans-1,2-Dichloroethene	1.040	0.15	1	0	104	83.3	116				
trans-1,3-Dichloropropene	1.600	0.15	1	0	160	84.8	134				S
Trichloroethene	1.200	0.030	1	0	120	79.3	117				S
Vinyl acetate	0.9700	0.15	1	0	97.0	70.5	101				
Vinyl Bromide	1.290	0.15	1	0	129	81.4	142				
Vinyl chloride	1.170	0.040	1	0	117	70.4	138				

Sample ID: **ALCS1UG-062822** SampType: **LCS** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **19134**
Client ID: **ZZZZZ** Batch ID: **R19134** TestNo: **TO-15** Analysis Date: **6/28/2022** SeqNo: **218383**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.210	0.15	1	0	121	91.3	127				
1,1,2,2-Tetrachloroethane	0.8300	0.15	1	0	83.0	78.7	121				
1,1,2-Trichloroethane	0.8400	0.15	1	0	84.0	88.1	136				S
1,1-Dichloroethane	0.8200	0.15	1	0	82.0	86.1	123				S
1,1-Dichloroethene	0.7900	0.040	1	0	79.0	70	94				
1,2,4-Trichlorobenzene	1.010	0.15	1	0	101	76.7	112				
1,2,4-Trimethylbenzene	0.8700	0.15	1	0	87.0	74.3	123				
1,2-Dibromoethane	0.9400	0.15	1	0	94.0	80.4	125				
1,2-Dichlorobenzene	0.9600	0.15	1	0	96.0	79.5	143				
1,2-Dichloroethane	0.9000	0.15	1	0	90.0	70.9	133				
1,2-Dichloropropane	0.7700	0.15	1	0	77.0	91	134				S
1,3,5-Trimethylbenzene	0.8800	0.15	1	0	88.0	77.4	138				
1,3-butadiene	1.020	0.15	1	0	102	71	144				
1,3-Dichlorobenzene	0.9100	0.15	1	0	91.0	84.7	128				
1,4-Dichlorobenzene	0.9700	0.15	1	0	97.0	77.9	131				
1,4-Dioxane	0.9300	0.30	1	0	93.0	60.9	133				
2,2,4-trimethylpentane	0.7200	0.15	1	0	72.0	86.9	126				S
4-ethyltoluene	0.8700	0.15	1	0	87.0	77.5	133				

Sample ID: **ALCS1UG-062822** SampType: **LCS** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **19134**
Client ID: **ZZZZZ** Batch ID: **R19134** TestNo: **TO-15** Analysis Date: **6/28/2022** SeqNo: **218383**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	1.100	0.30	1	0	110	46.7	165				
Allyl chloride	0.7400	0.15	1	0	74.0	86.6	117				S
Benzene	0.8200	0.15	1	0	82.0	88.9	122				S
Benzyl chloride	1.300	0.15	1	0	130	73.6	120				S
Bromodichloromethane	1.000	0.15	1	0	100	84.3	133				
Bromoform	1.210	0.15	1	0	121	44.6	149				
Bromomethane	1.120	0.15	1	0	112	78.7	144				
Carbon disulfide	0.7200	0.15	1	0	72.0	76.9	109				S
Carbon tetrachloride	1.300	0.030	1	0	130	71	120				S
Chlorobenzene	0.8600	0.15	1	0	86.0	82.6	121				
Chloroethane	1.060	0.15	1	0	106	67.1	146				
Chloroform	0.9200	0.15	1	0	92.0	82.5	125				
Chloromethane	1.090	0.15	1	0	109	71.1	154				
cis-1,2-Dichloroethene	0.8000	0.040	1	0	80.0	71.2	112				
cis-1,3-Dichloropropene	0.9700	0.15	1	0	97.0	90.3	137				
Cyclohexane	0.7200	0.15	1	0	72.0	87	122				S
Dibromochloromethane	1.110	0.15	1	0	111	62.8	132				
Ethyl acetate	0.7900	0.15	1	0	79.0	86.9	134				S
Ethylbenzene	0.8700	0.15	1	0	87.0	76.9	123				
Freon 11	1.170	0.15	1	0	117	54.4	150				
Freon 113	0.9000	0.15	1	0	90.0	83.4	124				
Freon 114	1.160	0.15	1	0	116	70.2	133				
Freon 12	0.9300	0.15	1	0	93.0	86.3	135				
Heptane	0.8900	0.15	1	0	89.0	86.5	137				
Hexachloro-1,3-buladiene	1.080	0.15	1	0	108	78.7	120				
Hexane	0.7600	0.15	1	0	76.0	77.3	128				S
Isopropyl alcohol	0.8400	0.15	1	0	84.0	80.2	122				
m&p-Xylene	1.750	0.30	2	0	87.5	77.9	132				
Methyl Butyl Ketone	0.9300	0.30	1	0	93.0	69.4	131				
Methyl Ethyl Ketone	0.7800	0.30	1	0	78.0	71.5	117				
Methyl Isobutyl Ketone	0.8400	0.30	1	0	84.0	63.5	141				

Sample ID: **ALCS1UG-062822** SampType: **LCS** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **19134**
Client ID: **ZZZZZ** Batch ID: **R19134** TestNo: **TO-15** Analysis Date: **6/28/2022** SeqNo: **218383**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.9000	0.15	1	0	90.0	80.8	113				
Methylene chloride	0.6800	0.15	1	0	68.0	87.8	123				S
o-Xylene	0.8600	0.15	1	0	86.0	80.5	139				
Propylene	1.180	0.15	1	0.59	59.0	73.8	124				BS
Styrene	0.8500	0.15	1	0	85.0	82.7	138				
Tetrachloroethylene	0.9100	0.15	1	0	91.0	85.9	122				
Tetrahydrofuran	0.7400	0.15	1	0	74.0	65.5	134				
Toluene	0.8300	0.15	1	0	83.0	77.8	127				
trans-1,2-Dichloroethene	0.7900	0.15	1	0	79.0	83.3	116				S
trans-1,3-Dichloropropene	1.110	0.15	1	0	111	84.8	134				
Trichloroethene	0.9300	0.030	1	0	93.0	79.3	117				
Vinyl acetate	0.7500	0.15	1	0	75.0	70.5	101				
Vinyl Bromide	1.210	0.15	1	0	121	81.4	142				
Vinyl chloride	1.090	0.040	1	0	109	70.4	138				

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCS1UG-062722 SampType: LCS TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 19133
Client ID: ZZZZZ Batch ID: R19133 TestNo: TO-15 Analysis Date: 6/27/2022 SeqNo: 218369

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.540	0.15	1	0	154	65.1	164				
1,1,2,2-Tetrachloroethane	1.020	0.15	1	0	102	71	129				
1,1,2-Trichloroethane	1.160	0.15	1	0	116	69.5	134				
1,1-Dichloroethane	1.040	0.15	1	0	104	74.1	116				
1,1-Dichloroethene	1.050	0.15	1	0	105	68.6	109				
1,2,4-Trichlorobenzene	1.810	0.15	1	0	181	49	144				S
1,2,4-Trimethylbenzene	1.180	0.15	1	0	118	68.7	126				
1,2-Dibromoethane	1.260	0.15	1	0	126	72.5	134				
1,2-Dichlorobenzene	1.330	0.15	1	0	133	75.1	133				
1,2-Dichloroethane	1.080	0.15	1	0	108	74.3	120				
1,2-Dichloropropane	1.040	0.15	1	0	104	64	135				
1,3,5-Trimethylbenzene	1.160	0.15	1	0	116	76.6	132				
1,3-butadiene	1.100	0.15	1	0	110	64.4	144				
1,3-Dichlorobenzene	1.280	0.15	1	0	128	77.9	127				S
1,4-Dichlorobenzene	1.280	0.15	1	0	128	79.3	128				
1,4-Dioxane	1.520	0.30	1	0	152	66.6	133				S
2,2,4-trimethylpentane	0.9800	0.15	1	0	98.0	68.2	120				
4-ethyltoluene	1.170	0.15	1	0	117	76.5	127				
Acetone	0.9900	0.30	1	0	99.0	49.8	156				
Allyl chloride	0.9100	0.15	1	0	91.0	61.9	116				
Benzene	1.080	0.15	1	0	108	72.1	124				
Benzyl chloride	1.860	0.15	1	0	186	28.8	224				
Bromodichloromethane	1.270	0.15	1	0	127	69.3	145				
Bromoform	1.380	0.15	1	0	138	46.1	162				
Bromomethane	1.280	0.15	1	0	128	71.4	140				
Carbon disulfide	0.9200	0.15	1	0	92.0	70.2	112				
Carbon tetrachloride	1.580	0.15	1	0	158	44.9	182				
Chlorobenzene	1.170	0.15	1	0	117	76.6	119				
Chloroethane	1.270	0.15	1	0	127	66	145				
Chloroform	1.130	0.15	1	0	113	79.3	116				
Chloromethane	1.210	0.15	1	0	121	66.4	148				

Qualifiers:
. Results reported are not blank corrected
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
DL Detection Limit
J Analyte detected below quantitation limit
S Spike Recovery outside accepted recovery limits
E Estimated Value above quantitation range
ND Not Detected at the Limit of Detection

Sample ID: **ALCS1UG-062722** SampType: **LCS** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **19133**
Client ID: **ZZZZZ** Batch ID: **R19133** TestNo: **TO-15** Analysis Date: **6/27/2022** SeqNo: **218369**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,2-Dichloroethene	0.9600	0.15	1	0	96.0	65.4	110				
cis-1,3-Dichloropropene	1.300	0.15	1	0	130	63.7	150				
Cyclohexane	0.9700	0.15	1	0	97.0	69.6	116				
Dibromochloromethane	1.310	0.15	1	0	131	66.7	145				
Ethyl acetate	1.140	0.15	1	0	114	66.5	122				
Ethylbenzene	1.110	0.15	1	0	111	73.4	117				
Freon 11	1.050	0.15	1	0	105	79.8	140				
Freon 113	1.130	0.15	1	0	113	79.5	115				
Freon 114	1.320	0.15	1	0	132	74.6	140				
Freon 12	1.100	0.15	1	0	110	73.7	134				
Heptane	0.9200	0.15	1	0	92.0	65.1	120				
Hexachloro-1,3-butadiene	1.510	0.15	1	0	151	68.8	142				S
Hexane	0.9900	0.15	1	0	99.0	63.1	115				
Isopropyl alcohol	1.010	0.15	1	0	101	57.6	143				
m&p-Xylene	2.270	0.30	2	0	114	77.7	123				
Methyl Butyl Ketone	1.420	0.30	1	0	142	65	121				S
Methyl Ethyl Ketone	1.230	0.30	1	0	123	66.9	115				S
Methyl Isobutyl Ketone	1.150	0.30	1	0	115	63.2	123				
Methyl tert-butyl ether	1.210	0.15	1	0	121	54	140				
Methylene chloride	0.9800	0.15	1	0	98.0	68.3	121				
o-Xylene	1.090	0.15	1	0	109	74.9	134				
Propylene	1.330	0.15	1	0	133	58	124				S
Styrene	1.160	0.15	1	0	116	75.3	130				
Tetrachloroethylene	1.240	0.15	1	0	124	77.1	125				
Tetrahydrofuran	0.9700	0.15	1	0	97.0	58	117				
Toluene	1.100	0.15	1	0	110	72.8	121				
trans-1,2-Dichloroethene	1.020	0.15	1	0	102	72.5	110				
trans-1,3-Dichloropropene	1.480	0.15	1	0	148	43.4	181				
Trichloroethene	1.230	0.15	1	0	123	62.5	127				
Vinyl acetate	0.9600	0.15	1	0	96.0	52.9	123				
Vinyl Bromide	1.300	0.15	1	0	130	72.4	140				

Qualifiers:
- `-` Results reported are not blank corrected
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- DL Detection Limit
- J Analyte detected below quantitation limit
- S Spike Recovery outside accepted recovery limits
- E Estimated Value above quantitation range
- ND Not Detected at the Limit of Detection

Centek/SanAir Laboratories

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCS1UG-062722 SampType: LCS TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 19133
Client ID: ZZZZZ Batch ID: R19133 TestNo: TO-15 Analysis Date: 6/27/2022 SeqNo: 218369

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.230	0.15	1	0	123	65.2	139				

Sample ID: ALCS1UG-062922 SampType: LCS TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 19135
Client ID: ZZZZZ Batch ID: R19135 TestNo: TO-15 Analysis Date: 6/29/2022 SeqNo: 218406

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.270	0.15	1	0	127	65.1	164				
1,1,2,2-Tetrachloroethane	0.8900	0.15	1	0	89.0	71	129				
1,1,2-Trichloroethane	0.9200	0.15	1	0	92.0	69.5	134				
1,1-Dichloroethane	0.8100	0.15	1	0	81.0	74.1	116				
1,1-Dichloroethene	0.8400	0.15	1	0	84.0	68.6	109				
1,2,4-Trichlorobenzene	1.140	0.15	1	0	114	49	144				
1,2,4-Trimethylbenzene	0.8500	0.15	1	0	85.0	68.7	126				
1,2-Dibromoethane	0.9900	0.15	1	0	99.0	72.5	134				
1,2-Dichlorobenzene	1.060	0.15	1	0	106	75.1	133				
1,2-Dichloroethane	0.8600	0.15	1	0	86.0	74.3	120				
1,2-Dichloropropane	0.7700	0.15	1	0	77.0	64	135				
1,3,5-Trimethylbenzene	0.9400	0.15	1	0	94.0	76.6	132				
1,3-butadiene	1.020	0.15	1	0	102	64.4	144				
1,3-Dichlorobenzene	1.030	0.15	1	0	103	77.9	127				
1,4-Dichlorobenzene	1.080	0.15	1	0	108	79.3	128				
1,4-Dioxane	0.9800	0.30	1	0	98.0	66.6	133				
2,2,4-trimethylpentane	0.7200	0.15	1	0	72.0	68.2	120				
4-ethyltoluene	0.9000	0.15	1	0	90.0	76.5	127				
Acetone	1.250	0.30	1	0	125	49.8	156				
Allyl chloride	0.7300	0.15	1	0	73.0	61.9	116				
Benzene	0.8200	0.15	1	0	82.0	72.1	124				
Benzyl chloride	1.330	0.15	1	0	133	28.8	224				
Bromodichloromethane	1.050	0.15	1	0	105	69.3	145				
Bromoform	1.170	0.15	1	0	117	46.1	162				

Qualifiers:
. Results reported are not blank corrected
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
DL Detection Limit
J Analyte detected below quantitation limit
S Spike Recovery outside accepted recovery limits
E Estimated Value above quantitation range
ND Not Detected at the Limit of Detection

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: **ALCS1UG-062922** SampType: **LCS** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **19135**
Client ID: **ZZZZZ** Batch ID: **R19135** TestNo: **TO-15** Analysis Date: **6/29/2022** SeqNo: **218406**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromomethane	1.180	0.15	1	0	118	71.4	140				
Carbon disulfide	0.7300	0.15	1	0	73.0	70.2	112				
Carbon tetrachloride	1.410	0.15	1	0	141	44.9	182				
Chlorobenzene	0.8900	0.15	1	0	89.0	76.6	119				
Chloroethane	1.170	0.15	1	0	117	66	145				
Chloroform	0.9000	0.15	1	0	90.0	79.3	116				
Chloromethane	1.180	0.15	1	0	118	66.4	148				
cis-1,2-Dichloroethene	0.7100	0.15	1	0	71.0	65.4	110				
cis-1,3-Dichloropropene	1.000	0.15	1	0	100	63.7	150				
Cyclohexane	0.7100	0.15	1	0	71.0	69.6	116				
Dibromochloromethane	1.150	0.15	1	0	115	66.7	145				
Ethyl acetate	0.7900	0.15	1	0	79.0	66.5	122				
Ethylbenzene	0.8400	0.15	1	0	84.0	73.4	117				
Freon 11	1.260	0.15	1	0	126	79.8	140				
Freon 113	0.9300	0.15	1	0	93.0	79.5	115				
Freon 114	1.250	0.15	1	0	125	74.6	140				
Freon 12	1.000	0.15	1	0	100	73.7	134				
Heptane	0.8900	0.15	1	0	89.0	65.1	120				
Hexachloro-1,3-butadiene	1.220	0.15	1	0	122	68.8	142				
Hexane	0.7600	0.15	1	0	76.0	63.1	115				
Isopropyl alcohol	1.050	0.15	1	0	105	57.6	143				
m&p-Xylene	1.800	0.30	2	0	90.0	77.7	123				
Methyl Butyl Ketone	0.8100	0.30	1	0	81.0	65	121				
Methyl Ethyl Ketone	0.8100	0.30	1	0	81.0	66.9	115				
Methyl Isobutyl Ketone	0.7000	0.30	1	0	70.0	63.2	123				
Methyl tert-butyl ether	0.8700	0.15	1	0	87.0	54	140				
Methylene chloride	0.7000	0.15	1	0	70.0	68.3	121				
o-Xylene	0.9400	0.15	1	0	94.0	74.9	134				
Propylene	0.6500	0.15	1	0	65.0	58	124				
Styrene	0.9400	0.15	1	0	94.0	75.3	130				
Tetrachloroethylene	1.010	0.15	1	0	101	77.1	125				

Qualifiers:
- `*` Results reported are not blank corrected
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- DL Detection Limit
- J Analyte detected below quantitation limit
- S Spike Recovery outside accepted recovery limits
- E Estimated Value above quantitation range
- ND Not Detected at the Limit of Detection

Centek/SanAir Laboratories

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: **ALCS1UG-062922** SampType: **LCS** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **19135**
Client ID: **ZZZZZ** Batch ID: **R19135** TestNo: **TO-15** Analysis Date: **6/29/2022** SeqNo: **218406**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrahydrofuran	0.7500	0.15	1	0	75.0	58	117				
Toluene	0.8500	0.15	1	0	85.0	72.8	121				
trans-1,2-Dichloroethene	0.7800	0.15	1	0	78.0	72.5	110				
trans-1,3-Dichloropropene	1.080	0.15	1	0	108	43.4	181				
Trichloroethene	0.9600	0.15	1	0	96.0	62.5	127				
Vinyl acetate	0.6800	0.15	1	0	68.0	52.9	123				
Vinyl Bromide	1.260	0.15	1	0	126	72.4	140				
Vinyl chloride	1.090	0.15	1	0	109	65.2	139				

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits
E	Estimated Value above quantitation range		
ND	Not Detected at the Limit of Detection		

ANALYTICAL QC SUMMARY REPORT

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 0.20_NYS

Sample ID: **ALCSD1UG-062422** SampType: **LCSD** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **19132**
Client ID: **ZZZZZ** Batch ID: **R19132** TestNo: **TO-15** Analysis Date: **6/25/2022** SeqNo: **218344**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.520	0.15	1	0	152	91.3	127	1.45	4.71	0	S
1,1,2,2-Tetrachloroethane	1.230	0.15	1	0	123	78.7	121	1.18	4.15	0	S
1,1,2-Trichloroethane	1.180	0.15	1	0	118	88.1	136	1.11	6.11	0	
1,1-Dichloroethane	1.050	0.15	1	0	105	86.1	123	1.04	0.957	0	
1,1-Dichloroethene	1.080	0.040	1	0	108	70	94	1.04	3.77	0	S
1,2,4-Trichlorobenzene	1.830	0.15	1	0	183	76.7	112	1.68	8.55	0	S
1,2,4-Trimethylbenzene	1.240	0.15	1	0	124	74.3	123	1.22	1.63	0	S
1,2-Dibromoethane	1.340	0.15	1	0	134	80.4	125	1.26	6.15	0	S
1,2-Dichlorobenzene	1.400	0.15	1	0	140	79.5	143	1.35	3.64	0	
1,2-Dichloroethane	1.050	0.15	1	0	105	70.9	133	1.09	3.74	0	
1,2-Dichloropropane	1.080	0.15	1	0	108	91	134	1.07	0.930	0	
1,3,5-Trimethylbenzene	1.210	0.15	1	0	121	77.4	138	1.19	1.67	0	
1,3-butadiene	1.070	0.15	1	0	107	71	144	1.12	4.57	0	
1,3-Dichlorobenzene	1.320	0.15	1	0	132	84.7	128	1.29	2.30	0	S
1,4-Dichlorobenzene	1.370	0.15	1	0	137	77.9	131	1.34	2.21	0	S
1,4-Dioxane	1.550	0.30	1	0	155	60.9	133	1.44	7.36	0	S
2,2,4-trimethylpentane	1.030	0.15	1	0	103	86.9	126	1.03	0	0	
4-ethyltoluene	1.250	0.15	1	0	125	77.5	133	1.22	2.43	0	
Acetone	1.170	0.30	1	0	117	46.7	165	1.2	2.53	0	
Allyl chloride	0.9100	0.15	1	0	91.0	86.6	117	0.91	0	0	
Benzene	1.110	0.15	1	0	111	88.9	122	1.06	4.61	0	
Benzyl chloride	1.990	0.15	1	0	199	73.6	120	1.94	2.54	0	S
Bromodichloromethane	1.240	0.15	1	0	124	84.3	133	1.22	1.63	0	
Bromoform	1.640	0.15	1	0	164	44.6	149	1.55	5.64	0	S
Bromomethane	1.230	0.15	1	0	123	78.7	144	1.2	2.47	0	

Qualifiers:
- `-` Results reported are not blank corrected
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- DL Detection Limit
- J Analyte detected below quantitation limit
- S Spike Recovery outside accepted recovery limits
- E Estimated Value above quantitation range
- ND Not Detected at the Limit of Detection

Centek/SanAir Laboratories

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 0.20_NYS

Sample ID: ALCSD1UG-062422 SampType: LCSD TestCode: 0.20_NYS Units: ppbV Prep Date: RunNo: 19132
Client ID: ZZZZZ Batch ID: R19132 TestNo: TO-15 Analysis Date: 6/25/2022 SeqNo: 218344

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.9000	0.15	1	0	90.0	76.9	109	0.92	2.20	0	
Carbon tetrachloride	1.570	0.030	1	0	157	71	120	1.65	4.97	0	S
Chlorobenzene	1.230	0.15	1	0	123	82.6	121	1.18	4.15	0	S
Chloroethane	1.160	0.15	1	0	116	67.1	146	1.14	1.74	0	
Chloroform	1.110	0.15	1	0	111	82.5	125	1.14	2.67	0	
Chloromethane	1.190	0.15	1	0	119	71.1	154	1.23	3.31	0	
cis-1,2-Dichloroethene	1.020	0.040	1	0	102	71.2	112	1.02	0	0	
cis-1,3-Dichloropropene	1.340	0.15	1	0	134	90.3	137	1.31	2.26	0	
Cyclohexane	1.000	0.15	1	0	100	87	122	1	0	0	
Dibromochloromethane	1.470	0.15	1	0	147	62.8	132	1.43	2.76	0	S
Ethyl acetate	1.180	0.15	1	0	118	86.9	134	1.22	3.33	0	
Ethylbenzene	1.200	0.15	1	0	120	76.9	123	1.17	2.53	0	
Freon 11	1.230	0.15	1	0	123	54.4	150	1.24	0.810	0	
Freon 113	1.100	0.15	1	0	110	83.4	124	1.11	0.905	0	
Freon 114	1.270	0.15	1	0	127	70.2	133	1.24	2.39	0	
Freon 12	1.120	0.15	1	0	112	86.3	135	1.11	0.897	0	
Heptane	0.9700	0.15	1	0	97.0	86.5	137	0.95	2.08	0	
Hexachloro-1,3-butadiene	1.540	0.15	1	0	154	48.1	160	1.48	3.97	0	
Hexane	0.8800	0.15	1	0	88.0	77.3	128	0.92	4.44	0	
Isopropyl alcohol	1.180	0.15	1	0	118	80.2	122	1.12	5.22	0	
m&p-Xylene	2.450	0.30	2	0	122	77.9	132	2.34	4.59	0	
Methyl Butyl Ketone	1.840	0.30	1	0	184	69.4	131	1.71	7.32	0	S
Methyl Ethyl Ketone	1.250	0.30	1	0	125	71.5	117	1.26	0.797	0	S
Methyl Isobutyl Ketone	1.490	0.30	1	0	149	63.5	141	1.4	6.23	0	S
Methyl tert-butyl ether	1.180	0.15	1	0	118	80.8	113	1.19	0.844	0	S
Methylene chloride	0.8600	0.15	1	0	86.0	87.8	123	0.87	1.16	0	S
o-Xylene	1.190	0.15	1	0	119	80.5	139	1.15	3.42	0	
Propylene	1.550	0.15	1	0.69	86.0	73.8	124	1.44	7.36	0	B
Styrene	1.240	0.15	1	0	124	82.7	138	1.2	3.28	0	
Tetrachloroethylene	1.280	0.15	1	0	128	85.9	122	1.21	5.62	0	S
Tetrahydrofuran	1.000	0.15	1	0	100	65.5	134	1.08	7.69	0	

Qualifiers:

. Results reported are not blank corrected
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
DL Detection Limit
J Analyte detected below quantitation limit
S Spike Recovery outside accepted recovery limits
E Estimated Value above quantitation range
ND Not Detected at the Limit of Detection

Centek/SanAir Laboratories

Sample ID: **ALCSD1UG-062422** SampType: **LCSD** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **19132**
Client ID: **ZZZZZ** Batch ID: **R19132** TestNo: **TO-15** Analysis Date: **6/25/2022** SeqNo: **218344**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.200	0.15	1	0	120	77.8	127	1.14	5.13	0	
trans-1,2-Dichloroethene	0.9900	0.15	1	0	99.0	83.3	116	1.04	4.93	0	
trans-1,3-Dichloropropene	1.660	0.15	1	0	166	84.8	134	1.6	3.68	0	S
Trichloroethene	1.210	0.030	1	0	121	79.3	117	1.2	0.830	0	S
Vinyl acetate	0.9800	0.15	1	0	98.0	70.5	101	0.97	1.03	0	
Vinyl Bromide	1.330	0.15	1	0	133	81.4	142	1.29	3.05	0	
Vinyl chloride	1.190	0.040	1	0	119	70.4	138	1.17	1.69	0	

Sample ID: **ALCS1UGD-062822** SampType: **LCSD** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **19134**
Client ID: **ZZZZZ** Batch ID: **R19134** TestNo: **TO-15** Analysis Date: **6/29/2022** SeqNo: **218384**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.230	0.15	1	0	123	91.3	127	1.21	1.64	0	
1,1,2,2-Tetrachloroethane	0.8400	0.15	1	0	84.0	78.7	121	0.83	1.20	0	
1,1,2-Trichloroethane	0.8900	0.15	1	0	89.0	88.1	136	0.84	5.78	0	
1,1-Dichloroethane	0.8100	0.15	1	0	81.0	86.1	123	0.82	1.23	0	S
1,1-Dichloroethene	0.8400	0.040	1	0	84.0	70	94	0.79	6.13	0	
1,2,4-Trichlorobenzene	1.150	0.15	1	0	115	76.7	112	1.01	13.0	0	S
1,2,4-Trimethylbenzene	0.8500	0.15	1	0	85.0	74.3	123	0.87	2.33	0	
1,2-Dibromoethane	0.9600	0.15	1	0	96.0	80.4	125	0.94	2.11	0	
1,2-Dichlorobenzene	1.000	0.15	1	0	100	79.5	143	0.96	4.08	0	
1,2-Dichloroethane	0.9200	0.15	1	0	92.0	70.9	133	0.9	2.20	0	
1,2-Dichloropropane	0.7400	0.15	1	0	74.0	91	134	0.77	3.97	0	S
1,3,5-Trimethylbenzene	0.8900	0.15	1	0	89.0	77.4	138	0.88	1.13	0	
1,3-butadiene	0.9900	0.15	1	0	99.0	71	144	1.02	2.99	0	
1,3-Dichlorobenzene	0.9700	0.15	1	0	97.0	84.7	128	0.91	6.38	0	
1,4-Dichlorobenzene	0.9800	0.15	1	0	98.0	77.9	131	0.97	1.03	0	
1,4-Dioxane	0.9700	0.30	1	0	97.0	60.9	133	0.93	4.21	0	
2,2,4-trimethylpentane	0.7500	0.15	1	0	75.0	86.9	126	0.72	4.08	0	S
4-ethyltoluene	0.8700	0.15	1	0	87.0	77.5	133	0.87	0	0	

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Centek/SanAir Laboratories

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 0.20_NYS

Sample ID: ALCS1UGD-062822 SampType: LCSD TestCode: 0.20_NYS Units: ppbV Prep Date: RunNo: 19134
Client ID: ZZZZZ Batch ID: R19134 TestNo: TO-15 Analysis Date: 6/29/2022 SeqNo: 218384

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	0.9900	0.30	1	0	99.0	46.7	165	1.1	10.5	0	
Allyl chloride	0.6600	0.15	1	0	66.0	86.6	117	0.74	11.4	0	S
Benzene	0.8400	0.15	1	0	84.0	88.9	122	0.82	2.41	0	S
Benzyl chloride	1.290	0.15	1	0	129	73.6	120	1.3	0.772	0	S
Bromodichloromethane	1.010	0.15	1	0	101	84.3	133	1	0.995	0	
Bromoform	1.240	0.15	1	0	124	44.6	149	1.21	2.45	0	
Bromomethane	1.140	0.15	1	0	114	78.7	144	1.12	1.77	0	
Carbon disulfide	0.7200	0.15	1	0	72.0	76.9	109	0.72	0	0	S
Carbon tetrachloride	1.420	0.030	1	0	142	71	120	1.3	8.82	0	S
Chlorobenzene	0.8800	0.15	1	0	88.0	82.6	121	0.86	2.30	0	
Chloroethane	1.050	0.15	1	0	105	67.1	146	1.06	0.948	0	
Chloroform	0.9200	0.15	1	0	92.0	82.5	125	0.92	0	0	
Chloromethane	1.160	0.15	1	0	116	71.1	154	1.09	6.22	0	
cis-1,2-Dichloroethene	0.7800	0.040	1	0	78.0	71.2	112	0.8	2.53	0	
cis-1,3-Dichloropropene	0.9900	0.15	1	0	99.0	90.3	137	0.97	2.04	0	
Cyclohexane	0.7500	0.15	1	0	75.0	87	122	0.72	4.08	0	S
Dibromochloromethane	1.120	0.15	1	0	112	62.8	132	1.11	0.897	0	
Ethyl acetate	0.7700	0.15	1	0	77.0	86.9	134	0.79	2.56	0	S
Ethylbenzene	0.8600	0.15	1	0	86.0	76.9	123	0.87	1.16	0	
Freon 11	1.190	0.15	1	0	119	54.4	150	1.17	1.69	0	
Freon 113	0.9100	0.15	1	0	91.0	83.4	124	0.9	1.10	0	
Freon 114	1.200	0.15	1	0	120	70.2	133	1.16	3.39	0	
Freon 12	0.9500	0.15	1	0	95.0	86.3	135	0.93	2.13	0	
Heptane	0.9200	0.15	1	0	92.0	86.5	137	0.89	3.31	0	
Hexachloro-1,3-butadiene	1.090	0.15	1	0	109	48.1	160	1.08	0.922	0	
Hexane	0.7700	0.15	1	0	77.0	77.3	128	0.76	1.31	0	S
Isopropyl alcohol	1.030	0.15	1	0	103	80.2	122	0.84	20.3	0	
m&p-Xylene	1.750	0.30	2	0	87.5	77.9	132	1.75	0	0	
Methyl Butyl Ketone	0.8500	0.30	1	0	85.0	69.4	131	0.93	8.99	0	
Methyl Ethyl Ketone	0.8500	0.30	1	0	85.0	71.5	117	0.78	8.59	0	
Methyl Isobutyl Ketone	0.7500	0.30	1	0	75.0	63.5	141	0.84	11.3	0	

Qualifiers:
. Results reported are not blank corrected
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
DL Detection Limit
J Analyte detected below quantitation limit
S Spike Recovery outside accepted recovery limits
E Estimated Value above quantitation range
ND Not Detected at the Limit of Detection

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 0.20_NYS

Sample ID: ALCS1UGD-062822	SampType: LCSD	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 19134
Client ID: ZZZZZ	Batch ID: R19134	TestNo: TO-15		Analysis Date: 6/29/2022	SeqNo: 218384

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.9000	0.15	1	0	90.0	80.8	113	0.9	0	0	
Methylene chloride	0.7100	0.15	1	0	71.0	87.8	123	0.68	4.32	0	S
o-Xylene	0.8600	0.15	1	0	86.0	80.5	139	0.86	0	0	
Propylene	1.260	0.15	1	0.59	67.0	73.8	124	1.18	6.56	0	BS
Styrene	0.8600	0.15	1	0	86.0	82.7	138	0.85	1.17	0	
Tetrachloroethylene	0.9400	0.15	1	0	94.0	85.9	122	0.91	3.24	0	
Tetrahydrofuran	0.7100	0.15	1	0	71.0	65.5	134	0.74	4.14	0	
Toluene	0.8200	0.15	1	0	82.0	77.8	127	0.83	1.21	0	
trans-1,2-Dichloroethene	0.7900	0.15	1	0	79.0	83.3	116	0.79	0	0	S
trans-1,3-Dichloropropene	1.100	0.15	1	0	110	84.8	134	1.11	0.905	0	
Trichloroethene	0.9600	0.030	1	0	96.0	79.3	117	0.93	3.17	0	
Vinyl acetate	0.7100	0.15	1	0	71.0	70.5	101	0.75	5.48	0	
Vinyl Bromide	1.240	0.15	1	0	124	81.4	142	1.21	2.45	0	
Vinyl chloride	1.100	0.040	1	0	110	70.4	138	1.09	0.913	0	

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Centek/SanAir Laboratories

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: **ALCS1UGD-062722** SampType: **LCSD** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **19133**
Client ID: **ZZZZZ** Batch ID: **R19133** TestNo: **TO-15** Analysis Date: **6/27/2022** SeqNo: **218370**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.570	0.15	1	0	157	65.1	164	1.54	1.93	0	
1,1,2,2-Tetrachloroethane	1.120	0.15	1	0	112	71	129	1.02	9.35	0	
1,1,2-Trichloroethane	1.150	0.15	1	0	115	69.5	134	1.16	0.866	0	
1,1-Dichloroethane	1.080	0.15	1	0	108	74.1	116	1.04	3.77	0	
1,1-Dichloroethene	1.070	0.15	1	0	107	68.6	109	1.05	1.89	0	
1,2,4-Trichlorobenzene	1.860	0.15	1	0	186	49	144	1.81	2.72	0	S
1,2,4-Trimethylbenzene	1.250	0.15	1	0	125	68.7	126	1.18	5.76	0	
1,2-Dibromoethane	1.300	0.15	1	0	130	72.5	134	1.26	3.12	0	
1,2-Dichlorobenzene	1.440	0.15	1	0	144	75.1	133	1.33	7.94	0	S
1,2-Dichloroethane	1.140	0.15	1	0	114	74.3	120	1.08	5.41	0	
1,2-Dichloropropane	1.030	0.15	1	0	103	64	135	1.04	0.966	0	
1,3,5-Trimethylbenzene	1.240	0.15	1	0	124	76.6	132	1.16	6.67	0	
1,3-butadiene	1.180	0.15	1	0	118	64.4	144	1.1	7.02	0	
1,3-Dichlorobenzene	1.350	0.15	1	0	135	77.9	127	1.28	5.32	0	S
1,4-Dichlorobenzene	1.400	0.15	1	0	140	79.3	128	1.28	8.96	0	S
1,4-Dioxane	1.470	0.30	1	0	147	66.6	133	1.52	3.34	0	S
2,2,4-trimethylpentane	1.010	0.15	1	0	101	68.2	120	0.98	3.02	0	
4-ethyltoluene	1.260	0.15	1	0	126	76.5	127	1.17	7.41	0	
Acetone	1.270	0.30	1	0	127	49.8	156	0.99	24.8	0	
Allyl chloride	0.9000	0.15	1	0	90.0	61.9	116	0.91	1.10	0	
Benzene	1.080	0.15	1	0	108	72.1	124	1.08	0	0	
Benzyl chloride	1.930	0.15	1	0	193	28.8	224	1.86	3.69	0	
Bromodichloromethane	1.290	0.15	1	0	129	69.3	145	1.27	1.56	0	
Bromoform	1.620	0.15	1	0	162	46.1	162	1.38	16.0	0	S
Bromomethane	1.250	0.15	1	0	125	71.4	140	1.28	2.37	0	
Carbon disulfide	0.9400	0.15	1	0	94.0	70.2	112	0.92	2.15	0	
Carbon tetrachloride	1.800	0.15	1	0	180	44.9	182	1.58	13.0	0	
Chlorobenzene	1.210	0.15	1	0	121	76.6	119	1.17	3.36	0	S
Chloroethane	1.310	0.15	1	0	131	66	145	1.27	3.10	0	
Chloroform	1.170	0.15	1	0	117	79.3	116	1.13	3.48	0	S
Chloromethane	1.330	0.15	1	0	133	66.4	148	1.21	9.45	0	

Qualifiers:
- . Results reported are not blank corrected
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- DL Detection Limit
- J Analyte detected below quantitation limit
- S Spike Recovery outside accepted recovery limits
- E Estimated Value above quantitation range
- ND Not Detected at the Limit of Detection

Sample ID: ALCS1UGD-062722 SampType: LCSD TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 19133
Client ID: ZZZZZ Batch ID: R19133 TestNo: TO-15 Analysis Date: 6/27/2022 SeqNo: 218370

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,2-Dichloroethene	1.020	0.15	1	0	102	65.4	110	0.96	6.06	0	
cis-1,3-Dichloropropene	1.340	0.15	1	0	134	63.7	150	1.3	3.03	0	
Cyclohexane	0.9700	0.15	1	0	97.0	69.6	116	0.97	0	0	
Dibromochloromethane	1.500	0.15	1	0	150	66.7	145	1.31	13.5	0	S
Ethyl acetate	1.190	0.15	1	0	119	66.5	122	1.14	4.29	0	
Ethylbenzene	1.200	0.15	1	0	120	73.4	117	1.11	7.79	0	S
Freon 11	1.450	0.15	1	0	145	79.8	140	1.05	32.0	0	S
Freon 113	1.180	0.15	1	0	118	79.5	115	1.13	4.33	0	S
Freon 114	1.410	0.15	1	0	141	74.6	140	1.32	6.59	0	S
Freon 12	1.190	0.15	1	0	119	73.7	134	1.1	7.86	0	
Heptane	0.9100	0.15	1	0	91.0	65.1	120	0.92	1.09	0	
Hexachloro-1,3-butadiene	1.600	0.15	1	0	160	68.8	142	1.51	5.79	0	S
Hexane	1.050	0.15	1	0	105	63.1	115	0.99	5.88	0	
Isopropyl alcohol	1.250	0.15	1	0	125	57.6	143	1.01	21.2	0	
m&p-Xylene	2.410	0.30	2	0	120	77.7	123	2.27	5.98	0	
Methyl Butyl Ketone	1.720	0.30	1	0	172	65	121	1.42	19.1	0	S
Methyl Ethyl Ketone	1.250	0.30	1	0	125	66.9	115	1.23	1.61	0	S
Methyl Isobutyl Ketone	1.310	0.30	1	0	131	63.2	123	1.15	13.0	0	S
Methyl tert-butyl ether	1.280	0.15	1	0	128	54	140	1.21	5.62	0	
Methylene chloride	0.9400	0.15	1	0	94.0	68.3	121	0.98	4.17	0	
o-Xylene	1.170	0.15	1	0	117	74.9	134	1.09	7.08	0	
Propylene	1.320	0.15	1	0	132	58	124	1.33	0.755	0	S
Styrene	1.220	0.15	1	0	122	75.3	130	1.16	5.04	0	
Tetrachloroethylene	1.260	0.15	1	0	126	77.1	125	1.24	1.60	0	S
Tetrahydrofuran	0.9800	0.15	1	0	98.0	58	117	0.97	1.03	0	
Toluene	1.170	0.15	1	0	117	72.8	121	1.1	6.17	0	
trans-1,2-Dichloroethene	1.020	0.15	1	0	102	72.5	110	1.02	0	0	
trans-1,3-Dichloropropene	1.590	0.15	1	0	159	43.4	181	1.48	7.17	0	
Trichloroethene	1.220	0.15	1	0	122	62.5	127	1.23	0.816	0	
Vinyl acetate	0.9700	0.15	1	0	97.0	52.9	123	0.96	1.04	0	
Vinyl Bromide	1.510	0.15	1	0	151	72.4	140	1.3	14.9	0	S

Qualifiers:
. Results reported are not blank corrected
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
DL Detection Limit
J Analyte detected below quantitation limit
S Spike Recovery outside accepted recovery limits
E Estimated Value above quantitation range
ND Not Detected at the Limit of Detection

Centek/SanAir Laboratories

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCS1UGD-062722	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 19133
Client ID: ZZZZZ	Batch ID: R19133	TestNo: TO-15		Analysis Date: 6/27/2022	SeqNo: 218370

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.230	0.15	1	0	123	65.2	139	1.23	0	0	

Qualifiers:

*	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Centek/SanAir Laboratories

CENTEK LABORATORIES, LLC

Date: *07-Jul-22*

ANALYTICAL QC SUMMARY REPORT

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 0.20_NYS

Sample ID: **AMB1UG-062422** SampType: **MBLK** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **19132**
Client ID: **ZZZZZ** Batch ID: **R19132** TestNo: **TO-15** Analysis Date: **6/24/2022** SeqNo: **218342**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.040	0.040									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 0.20_NYS

Sample ID: **AMB1UG-062422** SampType: **MBLK** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **19132**
Client ID: **ZZZZZ** Batch ID: **R19132** TestNo: **TO-15** Analysis Date: **6/24/2022** SeqNo: **218342**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.030	0.030									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.040	0.040									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.15	0.15									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	0.6900	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Centek/SanAir Laboratories

Sample ID: **AMB1UG-062422** SampType: **MBLK** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **19132**
Client ID: **ZZZZZ** Batch ID: **R19132** TestNo: **TO-15** Analysis Date: **6/24/2022** SeqNo: **218342**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.030	0.030									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.040	0.040									

Sample ID: **AMB1UG-062822** SampType: **MBLK** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **19134**
Client ID: **ZZZZZ** Batch ID: **R19134** TestNo: **TO-15** Analysis Date: **6/28/2022** SeqNo: **218382**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.040	0.040									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 0.20_NYS

Sample ID: AMB1UG-062822	SampType: MBLK	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 19134
Client ID: ZZZZZ	Batch ID: R19134	TestNo: TO-15		Analysis Date: 6/28/2022	SeqNo: 218382

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.030	0.030									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.040	0.040									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.15	0.15									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Centek/SanAir Laboratories

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 0.20_NYS

Sample ID: **AMB1UG-062822** SampType: **MBLK** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **19134**
Client ID: **ZZZZZ** Batch ID: **R19134** TestNo: **TO-15** Analysis Date: **6/28/2022** SeqNo: **218382**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	0.5900	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.030	0.030									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.040	0.040									

Qualifiers:
. Results reported are not blank corrected
DL Detection Limit
E Estimated Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Centek/SanAir Laboratories

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: **AMB1UG-062722** SampType: **MBLK** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **19133**
Client ID: **ZZZZZ** Batch ID: **R19133** TestNo: **TO-15** Analysis Date: **6/27/2022** SeqNo: **218368**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Centek/SanAir Laboratories

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: **AMB1UG-062722** SampType: **MBLK** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **19133**
Client ID: **ZZZZZ** Batch ID: **R19133** TestNo: **TO-15** Analysis Date: **6/27/2022** SeqNo: **218368**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.15	0.15									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									

Qualifiers:

-	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Centek/SanAir Laboratories

Sample ID: **AMB1UG-062722** SampType: **MBLK** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **19133**
Client ID: **ZZZZZ** Batch ID: **R19133** TestNo: **TO-15** Analysis Date: **6/27/2022** SeqNo: **218368**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	< 0.15	0.15									

Sample ID: **AMB1UG-062922** SampType: **MBLK** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **19135**
Client ID: **ZZZZZ** Batch ID: **R19135** TestNo: **TO-15** Analysis Date: **6/29/2022** SeqNo: **218405**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: **AMB1UG-062922** SampType: **MBLK** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **19135**
Client ID: **ZZZZZ** Batch ID: **R19135** TestNo: **TO-15** Analysis Date: **6/29/2022** SeqNo: **218405**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.15	0.15									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: **AMB1UG-062922** SampType: **MBLK** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **19135**
Client ID: **ZZZZZ** Batch ID: **R19135** TestNo: **TO-15** Analysis Date: **6/29/2022** SeqNo: **218405**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Qualifiers:

- `-` Results reported are not blank corrected
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- DL Detection Limit
- J Analyte detected below quantitation limit
- S Spike Recovery outside accepted recovery limits
- E Estimated Value above quantitation range
- ND Not Detected at the Limit of Detection

CENTEK LABORATORIES, LLC

Date: *07-Jul-22*

ANALYTICAL QC SUMMARY REPORT

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: **C2206048-003A MS** SampType: **MS** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **19132**
Client ID: **SVW-2 MS/MSD** Batch ID: **R19132** TestNo: **TO-15** Analysis Date: **6/24/2022** SeqNo: **218365**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.130	0.15	1	0	113	68.1	117				
1,1,2,2-Tetrachloroethane	0.7600	0.15	1	0	76.0	82.3	101				S
1,1,2-Trichloroethane	0.8300	0.15	1	0	83.0	61	128				
1,1-Dichloroethane	0.7800	0.15	1	0	78.0	76.5	118				
1,1-Dichloroethene	0.7700	0.15	1	0	77.0	45.8	128				
1,2,4-Trichlorobenzene	1.200	0.15	1	0	120	70	262				
1,2,4-Trimethylbenzene	0.8500	0.15	1	0	85.0	81.5	155				
1,2-Dibromoethane	0.9200	0.15	1	0	92.0	78.7	107				
1,2-Dichlorobenzene	2.160	0.15	1	0	216	57.2	175				S
1,2-Dichloroethane	0.8400	0.15	1	0	84.0	65.1	130				
1,2-Dichloropropane	0.7400	0.15	1	0	74.0	69.9	116				
1,3,5-Trimethylbenzene	0.8800	0.15	1	0	88.0	67.6	139				
1,3-butadiene	1.490	0.15	1	0	149	70	130				S
1,3-Dichlorobenzene	0.8500	0.15	1	0	85.0	89.1	122				S
1,4-Dichlorobenzene	0.9100	0.15	1	0	91.0	86.8	114				
1,4-Dioxane	0.7900	0.30	1	0	79.0	75.1	114				
2,2,4-trimethylpentane	0.8000	0.15	1	0	80.0	84.2	113				S
4-ethyltoluene	0.8000	0.15	1	0	80.0	70	130				
Acetone	7.480	0.30	1	8.46	98.0	70	130				S
Allyl chloride	0.7500	0.15	1	0	75.0	49.7	155				
Benzene	1.080	0.15	1	0.35	73.0	72.7	133				
Benzyl chloride	1.260	0.15	1	0	126	72.5	129				
Bromodichloromethane	0.9600	0.15	1	0	96.0	69.4	112				
Bromoform	1.040	0.15	1	0	104	42.5	110				
Bromomethane	1.020	0.15	1	0	102	68.6	121				

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Sample ID: **C2206048-003A MS** SampType: **MS** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **19132**
Client ID: **SVW-2 MS/MSD** Batch ID: **R19132** TestNo: **TO-15** Analysis Date: **6/24/2022** SeqNo: **218365**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.7500	0.15	1	0.1	65.0	20.1	143				
Carbon tetrachloride	1.530	0.15	1	0.35	118	61	107				S
Chlorobenzene	0.7900	0.15	1	0	79.0	76.1	111				
Chloroethane	0.9100	0.15	1	0	91.0	62.6	119				
Chloroform	1.560	0.15	1	0.8	76.0	6.54	173				
Chloromethane	1.320	0.15	1	0.44	88.0	54.4	125				
cis-1,2-Dichloroethene	0.8600	0.15	1	0	86.0	60.1	121				
cis-1,3-Dichloropropene	0.9500	0.15	1	0	95.0	60.8	122				
Cyclohexane	0.8200	0.15	1	0	82.0	59.4	148				
Dibromochloromethane	1.050	0.15	1	0	105	71.6	102				S
Ethyl acetate	1.030	0.15	1	0.33	70.0	70	130				
Ethylbenzene	0.8400	0.15	1	0	84.0	68.5	129				
Freon 11	1.580	0.15	1	0.63	95.0	70	130				
Freon 113	0.9000	0.15	1	0	90.0	80.3	125				
Freon 114	1.000	0.15	1	0	100	65.2	132				
Freon 12	1.200	0.15	1	0.5	70.0	67.4	103				
Heptane	0.8700	0.15	1	0.17	70.0	80.8	124				S
Hexachloro-1,3-butadiene	0.9900	0.15	1	0	99.0	81.9	119				
Hexane	0.8900	0.15	1	0.21	68.0	73.7	147				S
Isopropyl alcohol	1.440	0.15	1	0	144	70	130				S
m&p-Xylene	1.770	0.30	2	0.19	79.0	74.2	123				
Methyl Butyl Ketone	0.8300	0.30	1	0	83.0	72.6	117				
Methyl Ethyl Ketone	0.9300	0.30	1	0.31	62.0	59.4	135				
Methyl Isobutyl Ketone	0.7900	0.30	1	0	79.0	61	120				
Methyl tert-butyl ether	0.8300	0.15	1	0	83.0	63.6	134				
Methylene chloride	1.200	0.15	1	0.51	69.0	53.4	125				
o-Xylene	0.8300	0.15	1	0	83.0	74.3	132				
Propylene	1.980	0.15	1	0	198	70	130				BS
Styrene	0.7800	0.15	1	0	78.0	82.4	118				S
Tetrachloroethylene	1.110	0.15	1	0.26	85.0	86.2	112				S
Tetrahydrofuran	0.7700	0.15	1	0	77.0	70	130				

Qualifiers:
- Results reported are not blank corrected
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Centek/SanAir Laboratories

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: **C2206048-003A MS** SampType: **MS** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **19132**
Client ID: **SVW-2 MS/MSD** Batch ID: **R19132** TestNo: **TO-15** Analysis Date: **6/24/2022** SeqNo: **218365**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.510	0.15	1	0.77	74.0	70	130				
trans-1,2-Dichloroethene	0.8000	0.15	1	0	80.0	70.9	132				
trans-1,3-Dichloropropene	1.130	0.15	1	0	113	51.9	133				
Trichloroethene	1.130	0.15	1	0.23	90.0	63.1	109				
Vinyl acetate	0.9100	0.15	1	0	91.0	70	130				
Vinyl Bromide	1.040	0.15	1	0	104	71.3	121				
Vinyl chloride	0.9600	0.15	1	0	96.0	63.2	114				

Sample ID: **C2206048-003A MS** SampType: **MSD** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **19132**
Client ID: **SVW-2 MS/MSD** Batch ID: **R19132** TestNo: **TO-15** Analysis Date: **6/24/2022** SeqNo: **218366**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.190	0.15	1	0	119	68.1	117	1.13	5.17	0	S
1,1,2,2-Tetrachloroethane	0.7500	0.15	1	0	75.0	82.3	101	0.76	1.32	0	S
1,1,2-Trichloroethane	0.8400	0.15	1	0	84.0	61	128	0.83	1.20	0	
1,1-Dichloroethane	0.8200	0.15	1	0	82.0	76.5	118	0.78	5.00	0	
1,1-Dichloroethene	0.7800	0.15	1	0	78.0	45.8	128	0.77	1.29	0	
1,2,4-Trichlorobenzene	1.250	0.15	1	0	125	70	130	1.2	4.08	0	
1,2,4-Trimethylbenzene	0.8600	0.15	1	0	86.0	81.5	155	0.85	1.17	0	
1,2-Dibromoethane	0.9100	0.15	1	0	91.0	78.7	107	0.92	1.09	0	
1,2-Dichlorobenzene	2.110	0.15	1	0	211	57.2	175	2.16	2.34	0	S
1,2-Dichloroethane	0.8700	0.15	1	0	87.0	65.1	130	0.84	3.51	0	
1,2-Dichloropropane	0.7500	0.15	1	0	75.0	69.9	116	0.74	1.34	0	
1,3,5-Trimethylbenzene	0.8600	0.15	1	0	86.0	67.6	139	0.88	2.30	0	
1,3-butadiene	1.370	0.15	1	0	137	70	130	1.49	8.39	0	S
1,3-Dichlorobenzene	0.8600	0.15	1	0	86.0	89.1	122	0.85	1.17	0	S
1,4-Dichlorobenzene	0.8800	0.15	1	0	88.0	86.8	114	0.91	3.35	0	
1,4-Dioxane	0.8400	0.30	1	0	84.0	75.1	114	0.79	6.13	0	
2,2,4-trimethylpentane	0.8200	0.15	1	0	82.0	84.2	113	0.8	2.47	0	S
4-ethyltoluene	0.8000	0.15	1	0	80.0	70	130	0.8	0	0	

Qualifiers:
- `-` Results reported are not blank corrected
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: C2206048-003A MS	SampType: MSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 19132
Client ID: SVW-2 MS/MSD	Batch ID: R19132	TestNo: TO-15		Analysis Date: 6/24/2022	SeqNo: 218366

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	8.370	0.30	1	8.46	-9.00	70	130	7.48	11.2	0	S
Allyl chloride	0.7800	0.15	1	0	78.0	49.7	155	0.75	3.92	0	
Benzene	1.090	0.15	1	0.35	74.0	72.7	133	1.08	0.922	0	
Benzyl chloride	1.320	0.15	1	0	132	72.5	129	1.26	4.65	0	S
Bromodichloromethane	0.9700	0.15	1	0	97.0	69.4	112	0.96	1.04	0	
Bromoform	1.020	0.15	1	0	102	42.5	110	1.04	1.94	0	
Bromomethane	0.9900	0.15	1	0	99.0	68.6	121	1.02	2.99	0	
Carbon disulfide	0.7700	0.15	1	0.1	67.0	70	143	0.75	2.63	0	S
Carbon tetrachloride	1.580	0.15	1	0.35	123	61	107	1.53	3.22	0	S
Chlorobenzene	0.8100	0.15	1	0	81.0	76.1	111	0.79	2.50	0	
Chloroethane	0.9500	0.15	1	0	95.0	62.6	119	0.91	4.30	0	
Chloroform	1.510	0.15	1	0.8	71.0	70	130	1.56	3.26	0	
Chloromethane	1.280	0.15	1	0.44	84.0	54.4	125	1.32	3.06	0	
cis-1,2-Dichloroethene	0.9000	0.15	1	0	90.0	60.1	121	0.86	4.55	0	
cis-1,3-Dichloropropene	0.9800	0.15	1	0	98.0	60.8	122	0.95	3.11	0	
Cyclohexane	0.8500	0.15	1	0	85.0	59.4	148	0.82	3.59	0	
Dibromochloromethane	1.010	0.15	1	0	101	71.6	102	1.05	3.88	0	
Ethyl acetate	1.050	0.15	1	0.33	72.0	49.3	146	1.03	1.92	0	
Ethylbenzene	0.8000	0.15	1	0	80.0	68.5	129	0.84	4.88	0	
Freon 11	1.550	0.15	1	0.63	92.0	44.8	143	1.58	1.92	0	
Freon 113	0.8900	0.15	1	0	89.0	80.3	125	0.9	1.12	0	
Freon 114	1.030	0.15	1	0	103	55.2	132	1	2.96	0	
Freon 12	1.150	0.15	1	0.5	65.0	67.4	103	1.2	4.26	0	S
Heptane	0.8600	0.15	1	0.17	69.0	80.8	124	0.87	1.16	0	S
Hexachloro-1,3-butadiene	0.9400	0.15	1	0	94.0	81.9	119	0.99	5.18	0	
Hexane	1.080	0.15	1	0.21	87.0	73.7	147	0.89	19.3	0	
Isopropyl alcohol	1.460	0.15	1	0	146	70	130	1.44	1.38	0	S
m&p-Xylene	1.680	0.30	2	0.19	74.5	74.2	123	1.77	5.22	0	
Methyl Butyl Ketone	0.8100	0.30	1	0	81.0	72.6	117	0.83	2.44	0	
Methyl Ethyl Ketone	1.060	0.30	1	0.31	75.0	59.4	135	0.93	13.1	0	
Methyl Isobutyl Ketone	0.7700	0.30	1	0	77.0	61	120	0.79	2.56	0	

Qualifiers:

- `-` Results reported are not blank corrected
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- DL Detection Limit
- J Analyte detected below quantitation limit
- S Spike Recovery outside accepted recovery limits
- E Estimated Value above quantitation range
- ND Not Detected at the Limit of Detection

Centek/SanAir Laboratories

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: **C2206048-003A MS** SampType: **MSD** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **19132**
Client ID: **SVW-2 MS/MSD** Batch ID: **R19132** TestNo: **TO-15** Analysis Date: **6/24/2022** SeqNo: **218366**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.8700	0.15	1	0	87.0	63.6	134	0.83	4.71	0	
Methylene chloride	1.420	0.15	1	0.51	91.0	53.4	125	1.2	16.8	0	
o-Xylene	0.8000	0.15	1	0	80.0	74.3	132	0.83	3.68	0	
Propylene	2.360	0.15	1	0	236	70	130	1.98	17.5	0	BS
Styrene	0.7900	0.15	1	0	79.0	82.4	118	0.78	1.27	0	S
Tetrachloroethylene	1.030	0.15	1	0.26	77.0	86.2	112	1.11	7.48	0	S
Tetrahydrofuran	0.7700	0.15	1	0	77.0	70	130	0.77	0	0	
Toluene	1.360	0.15	1	0.77	59.0	70	130	1.51	10.5	0	S
trans-1,2-Dichloroethene	0.8100	0.15	1	0	81.0	70.9	132	0.8	1.24	0	
trans-1,3-Dichloropropene	1.200	0.15	1	0	120	51.9	133	1.13	6.01	0	
Trichloroethene	1.230	0.15	1	0.23	100	63.1	109	1.13	8.47	0	
Vinyl acetate	0.9200	0.15	1	0	92.0	70	130	0.91	1.09	0	
Vinyl Bromide	1.060	0.15	1	0	106	71.3	121	1.04	1.90	0	
Vinyl chloride	0.9800	0.15	1	0	98.0	63.2	114	0.96	2.06	0	

Qualifiers:

-	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
IDL Study

1ug/m3 Detection Limit
January 2018

Method TO-15
Units=ppb

Compound	Amt	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	AVG	StdDev	%Rec	IDL
Propylene	0.3	0.32	0.31	0.3	0.3	0.33	0.32	0.33	0.32	0.01	105.2%	0.040
Freon 12	0.3	0.32	0.32	0.32	0.33	0.3	0.33	0.31	0.32	0.01	106.2%	0.034
Chloromethane	0.3	0.32	0.32	0.3	0.31	0.28	0.31	0.32	0.31	0.01	102.9%	0.046
Freon 114	0.3	0.31	0.31	0.3	0.3	0.29	0.31	0.3	0.30	0.01	101.0%	0.024
Vinyl Chloride	0.3	0.27	0.29	0.28	0.28	0.28	0.27	0.27	0.28	0.01	92.4%	0.024
Butane	0.3	0.32	0.31	0.31	0.31	0.28	0.29	0.29	0.30	0.01	100.5%	0.046
1,3-butadiene	0.3	0.3	0.29	0.29	0.3	0.28	0.29	0.29	0.29	0.01	97.1%	0.022
Bromomethane	0.3	0.29	0.3	0.31	0.32	0.31	0.32	0.28	0.30	0.02	101.4%	0.048
Chloroethane	0.3	0.3	0.29	0.31	0.31	0.27	0.29	0.29	0.29	0.01	98.1%	0.044
Ethanol	0.3	0.28	0.35	0.39	0.28	0.24	0.31	0.34	0.31	0.05	104.3%	0.160
Acrolein	0.3	0.3	0.29	0.34	0.29	0.31	0.32	0.28	0.30	0.02	101.4%	0.065
Vinyl Bromide	0.3	0.32	0.3	0.31	0.31	0.29	0.31	0.3	0.31	0.01	101.9%	0.031
Freon 11	0.3	0.33	0.31	0.32	0.32	0.3	0.31	0.3	0.31	0.01	104.3%	0.035
Acetone	0.3	0.31	0.28	0.28	0.26	0.21	0.32	0.3	0.28	0.04	93.3%	0.116
Pentane	0.3	0.32	0.29	0.3	0.31	0.21	0.3	0.29	0.29	0.04	96.2%	0.114
Isopropyl alcohol	0.3	0.29	0.23	0.29	0.23	0.26	0.25	0.29	0.26	0.03	87.6%	0.086
1,1-dichloroethene	0.3	0.31	0.29	0.28	0.29	0.28	0.29	0.28	0.29	0.01	96.2%	0.034
Freon 113	0.3	0.32	0.3	0.31	0.32	0.3	0.33	0.32	0.31	0.01	104.8%	0.036
t-Butyl alcohol	0.3	0.29	0.22	0.26	0.39	0.24	0.26	0.27	0.28	0.06	91.9%	0.173
Methylene chloride	0.3	0.32	0.31	0.29	0.33	0.31	0.32	0.32	0.31	0.01	104.8%	0.040
Allyl chloride	0.3	0.31	0.29	0.32	0.32	0.3	0.33	0.31	0.31	0.01	103.8%	0.042
Carbon disulfide	0.3	0.31	0.31	0.3	0.32	0.31	0.34	0.33	0.32	0.01	105.7%	0.043
trans-1,2-dichloroethene	0.3	0.31	0.3	0.31	0.32	0.29	0.33	0.32	0.31	0.01	103.8%	0.042
methyl tert-butyl ether	0.3	0.31	0.28	0.3	0.28	0.26	0.31	0.31	0.29	0.02	97.6%	0.062
1,1-dichloroethane	0.3	0.33	0.32	0.32	0.33	0.31	0.33	0.33	0.32	0.01	108.1%	0.025
Vinyl acetate	0.3	0.29	0.29	0.29	0.31	0.28	0.3	0.3	0.29	0.01	98.1%	0.031
Methyl Ethyl Ketone	0.3	0.29	0.29	0.27	0.24	0.21	0.3	0.32	0.27	0.04	91.4%	0.119
cis-1,2-dichloroethene	0.3	0.31	0.29	0.3	0.31	0.21	0.32	0.31	0.29	0.04	97.6%	0.119
Hexane	0.3	0.32	0.29	0.31	0.3	0.31	0.34	0.3	0.31	0.02	103.3%	0.051
Ethyl acetate	0.3	0.3	0.27	0.29	0.23	0.21	0.3	0.33	0.28	0.04	91.9%	0.133
Chloroform	0.3	0.33	0.31	0.31	0.33	0.31	0.33	0.32	0.32	0.01	106.7%	0.031
Tetrahydrofuran	0.3	0.31	0.26	0.31	0.26	0.25	0.31	0.32	0.29	0.03	96.2%	0.095
1,2-dichloroethane	0.3	0.33	0.31	0.31	0.32	0.31	0.33	0.32	0.32	0.01	106.2%	0.028
1,1,1-trichloroethane	0.3	0.33	0.31	0.33	0.32	0.31	0.32	0.34	0.32	0.01	107.6%	0.035
Cyclohexane	0.3	0.31	0.29	0.3	0.3	0.31	0.31	0.33	0.31	0.01	102.4%	0.039
Carbon tetrachloride	0.3	0.29	0.28	0.3	0.29	0.28	0.29	0.29	0.29	0.01	96.2%	0.022
Benzene	0.3	0.32	0.31	0.32	0.32	0.31	0.33	0.35	0.32	0.01	107.6%	0.043

Centek/SanAir Laboratories

Confidential

Centek Laboratories
IDL Study

1ug/m3 Detection Limit
January 2018

Method TO-15
Units=ppb

Compound	Amt	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	AVG	StdDev	%Rec	IDL
Methyl methacrylate	0.3	0.27	0.24	0.25	0.21	0.2	0.28	0.29	0.25	0.03	82.9%	0.108
1,4-dioxane	0.3	0.28	0.2	0.25	0.39	0.2	0.24	0.27	0.26	0.06	87.1%	0.203
2,2,4-trimethylpentane	0.3	0.3	0.29	0.31	0.31	0.3	0.32	0.33	0.31	0.01	102.9%	0.042
Heptane	0.3	0.29	0.29	0.31	0.3	0.29	0.3	0.32	0.30	0.01	100.0%	0.036
Trichloroethene	0.3	0.28	0.27	0.27	0.28	0.27	0.28	0.28	0.28	0.01	91.9%	0.017
1,2-dichloropropane	0.3	0.31	0.31	0.32	0.33	0.31	0.35	0.35	0.33	0.02	108.6%	0.057
Bromodichloromethane	0.3	0.32	0.31	0.32	0.33	0.32	0.34	0.33	0.32	0.01	108.1%	0.031
cis-1,3-dichloropropene	0.3	0.28	0.29	0.3	0.3	0.29	0.32	0.3	0.30	0.01	99.0%	0.039
trans-1,3-dichloropropene	0.3	0.3	0.3	0.31	0.3	0.29	0.29	0.32	0.30	0.01	100.5%	0.034
1,1,2-trichloroethane	0.3	0.32	0.31	0.31	0.32	0.31	0.33	0.35	0.32	0.01	107.1%	0.046
Toluene	0.3	0.29	0.28	0.29	0.3	0.29	0.3	0.33	0.30	0.02	99.0%	0.050
Methyl Isobutyl Ketone	0.3	0.28	0.23	0.26	0.36	0.26	0.27	0.26	0.27	0.04	91.4%	0.128
Dibromochloromethane	0.3	0.33	0.32	0.34	0.33	0.33	0.34	0.34	0.33	0.01	111.0%	0.024
Methyl Butyl Ketone	0.3	0.23	0.24	0.26	0.3	0.29	0.25	0.23	0.26	0.03	85.7%	0.088
1,2-dibromoethane	0.3	0.32	0.32	0.32	0.33	0.31	0.33	0.35	0.33	0.01	108.6%	0.040
Tetrachloroethylene	0.3	0.32	0.32	0.32	0.33	0.32	0.33	0.34	0.33	0.01	108.6%	0.025
Chlorobenzene	0.3	0.32	0.32	0.32	0.31	0.31	0.33	0.34	0.32	0.01	107.1%	0.034
Ethylbenzene	0.3	0.28	0.27	0.28	0.27	0.26	0.28	0.29	0.28	0.01	91.9%	0.031
m&p-xylene	0.6	0.51	0.5	0.51	0.5	0.48	0.5	0.53	0.50	0.02	84.0%	0.048
Nonane	0.3	0.24	0.26	0.27	0.25	0.25	0.28	0.28	0.26	0.02	87.1%	0.049
Styrene	0.3	0.26	0.25	0.26	0.24	0.24	0.27	0.27	0.26	0.01	85.2%	0.040
Bromoform	0.3	0.32	0.32	0.33	0.31	0.32	0.33	0.33	0.32	0.01	107.6%	0.024
o-xylene	0.3	0.27	0.28	0.28	0.27	0.27	0.28	0.28	0.28	0.01	91.9%	0.017
Cumene	0.3	0.26	0.26	0.26	0.24	0.24	0.26	0.28	0.26	0.01	85.7%	0.043
Bromofluorobenzene	1	0.97	0.97	0.95	0.95	0.95	0.93	0.95	0.95	0.01	95.3%	0.043
1,1,2,2-tetrachloroethane	0.3	0.33	0.31	0.33	0.31	0.31	0.37	0.39	0.34	0.03	111.9%	0.101
Propylbenzene	0.3	0.26	0.26	0.26	0.23	0.22	0.26	0.27	0.25	0.02	83.8%	0.059
2-Chlorotoluene	0.3	0.28	0.28	0.28	0.26	0.26	0.28	0.3	0.28	0.01	92.4%	0.043
4-ethyltoluene	0.3	0.24	0.24	0.24	0.21	0.21	0.24	0.26	0.23	0.02	78.1%	0.057
1,3,5-trimethylbenzene	0.3	0.25	0.25	0.26	0.22	0.21	0.25	0.27	0.25	0.02	81.9%	0.070
1,2,4-trimethylbenzene	0.3	0.25	0.24	0.24	0.2	0.2	0.24	0.26	0.23	0.02	77.6%	0.074
1,3-dichlorobenzene	0.3	0.28	0.28	0.29	0.25	0.26	0.27	0.29	0.27	0.02	91.4%	0.048
benzyl chloride	0.3	0.26	0.26	0.26	0.24	0.19	0.26	0.29	0.25	0.03	83.8%	0.097
1,4-dichlorobenzene	0.3	0.27	0.26	0.27	0.24	0.25	0.26	0.28	0.26	0.01	87.1%	0.042
1,2,3-trimethylbenzene	0.3	0.24	0.22	0.23	0.19	0.19	0.24	0.25	0.22	0.02	74.3%	0.076
1,2-dichlorobenzene	0.3	0.29	0.27	0.29	0.25	0.25	0.29	0.3	0.28	0.02	92.4%	0.065
1,2,4-trichlorobenzene	0.3	0.26	0.21	0.22	0.19	0.2	0.21	0.25	0.22	0.03	73.3%	0.081
Naphthalene	0.3	0.2	0.2	0.21	0.22	0.18	0.19	0.21	0.20	0.01	67.1%	0.042
Hexachloro-1,3-butadiene	0.3	0.3	0.26	0.28	0.23	0.24	0.3	0.32	0.28	0.03	91.9%	0.106

Centek/SanAir Laboratories

Centek Laboratories
IDL Study

0.20ug/m3 Detection Limit
January 2018

Method TO-15
Units=ppb

Compound	Amt	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	AVG	StdDev	%Rec	IDL
Vinyl Chloride	0.1	0.12	0.11	0.12	0.12	0.11	0.11	0.11	0.11	0.01	114.3%	0.017
1,1-dichloroethene	0.1	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.00	121.4%	0.012
1,1-dichloroethane	0.1	0.13	0.12	0.13	0.13	0.14	0.13	0.13	0.13	0.01	130.0%	0.018
cis-1,2-dichloroethene	0.1	0.12	0.11	0.11	0.11	0.13	0.13	0.13	0.12	0.01	120.0%	0.031
Carbon tetrachloride	0.1	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.12	0.00	117.1%	0.015
Trichloroethene	0.1	0.1	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.00	108.6%	0.012
Bromofluorobenzene	1	0.88	0.84	0.86	0.85	0.85	0.85	0.85	0.85	0.01	85.4%	0.040
Naphthalene	0.1	0.09	0.08	0.08	0.1	0.09	0.07	0.07	0.08	0.01	82.9%	0.035

Centek/SanAir Laboratories

Confidential

GC/MS-Whole Air Calculations

Relative Response Factor (RRF)

$$RRF = \frac{Ax * Cis}{Ais * Cx}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Cx = concentration of the compound being measured (ppbv)
Cis = concentration of the internal standard (ppbv)

Percent Relative Standard Deviation (%RSD)

$$\% RSD = \frac{\text{Standard deviation of RRF values} * 100}{\text{mean RRF}}$$

Percent Difference (%D)

$$\% D = \frac{(RRFc - \text{mean RRFi}) * 100}{\text{mean RRFi}}$$

where: RRFc = relative response factor from the continuing calibration
mean RRFi = mean relative response factor from the initial calibration

Sample Calculations

$$ppbv = \frac{Ax * Is * Df}{Ais * RRF}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Is = Concentration of the internal standard injected (ppbv)
RRF= relative response factor for the compound being measured
Df = Dilution factor

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

SAMPLE DATA

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-001A

Client Sample ID: SVW-1
Tag Number: 569,1165
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-16			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: NP
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,1,2,2-Tetrachloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,1,2-Trichloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,1-Dichloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,1-Dichloroethene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,2,4-Trichlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,2,4-Trimethylbenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,2-Dibromoethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,2-Dichlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,2-Dichloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,2-Dichloropropane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,3,5-Trimethylbenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,3-butadiene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,3-Dichlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,4-Dichlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
1,4-Dioxane	< 0.25	0.25		ppbV	0.83	6/24/2022 4:49:00 PM
2,2,4-trimethylpentane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
4-ethyltoluene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Acetone	3.5	1.2		ppbV	4	6/29/2022 4:08:00 AM
Allyl chloride	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Benzene	0.083	0.12	J	ppbV	0.83	6/24/2022 4:49:00 PM
Benzyl chloride	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Bromodichloromethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Bromoform	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Bromomethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Carbon disulfide	0.21	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Carbon tetrachloride	0.39	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Chlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Chloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Chloroform	0.40	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Chloromethane	0.12	0.12	J	ppbV	0.83	6/24/2022 4:49:00 PM
cis-1,2-Dichloroethene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
cis-1,3-Dichloropropene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Cyclohexane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-001A

Client Sample ID: SVW-1
Tag Number: 569,1165
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Dibromochloromethane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Ethyl acetate	0.32	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Ethylbenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Freon 11	0.83	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Freon 113	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Freon 114	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Freon 12	0.44	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Heptane	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Hexachloro-1,3-butadiene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Hexane	0.13	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Isopropyl alcohol	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
m&p-Xylene	0.13	0.25	J	ppbV	0.83	6/24/2022 4:49:00 PM
Methyl Butyl Ketone	< 0.25	0.25		ppbV	0.83	6/24/2022 4:49:00 PM
Methyl Ethyl Ketone	0.22	0.25	J	ppbV	0.83	6/24/2022 4:49:00 PM
Methyl Isobutyl Ketone	0.30	0.25		ppbV	0.83	6/24/2022 4:49:00 PM
Methyl tert-butyl ether	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Methylene chloride	0.35	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
o-Xylene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Propylene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Styrene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Tetrachloroethylene	0.13	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Tetrahydrofuran	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Toluene	0.66	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
trans-1,2-Dichloroethene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
trans-1,3-Dichloropropene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Trichloroethene	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Vinyl acetate	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Vinyl Bromide	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Vinyl chloride	< 0.12	0.12		ppbV	0.83	6/24/2022 4:49:00 PM
Surr: Bromofluorobenzene	90.0	46.7-129		%REC	0.83	6/24/2022 4:49:00 PM

NOTES:
Detection limit raise due to limited amount of samples

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-001A

Client Sample ID: SVW-1
Tag Number: 569,1165
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.65	0.65		ug/m3	0.83	6/24/2022 4:49:00 PM
1,1,2,2-Tetrachloroethane	< 0.82	0.82		ug/m3	0.83	6/24/2022 4:49:00 PM
1,1,2-Trichloroethane	< 0.65	0.65		ug/m3	0.83	6/24/2022 4:49:00 PM
1,1-Dichloroethane	< 0.49	0.49		ug/m3	0.83	6/24/2022 4:49:00 PM
1,1-Dichloroethene	< 0.48	0.48		ug/m3	0.83	6/24/2022 4:49:00 PM
1,2,4-Trichlorobenzene	< 0.89	0.89		ug/m3	0.83	6/24/2022 4:49:00 PM
1,2,4-Trimethylbenzene	< 0.59	0.59		ug/m3	0.83	6/24/2022 4:49:00 PM
1,2-Dibromoethane	< 0.92	0.92		ug/m3	0.83	6/24/2022 4:49:00 PM
1,2-Dichlorobenzene	< 0.72	0.72		ug/m3	0.83	6/24/2022 4:49:00 PM
1,2-Dichloroethane	< 0.49	0.49		ug/m3	0.83	6/24/2022 4:49:00 PM
1,2-Dichloropropane	< 0.55	0.55		ug/m3	0.83	6/24/2022 4:49:00 PM
1,3,5-Trimethylbenzene	< 0.59	0.59		ug/m3	0.83	6/24/2022 4:49:00 PM
1,3-butadiene	< 0.27	0.27		ug/m3	0.83	6/24/2022 4:49:00 PM
1,3-Dichlorobenzene	< 0.72	0.72		ug/m3	0.83	6/24/2022 4:49:00 PM
1,4-Dichlorobenzene	< 0.72	0.72		ug/m3	0.83	6/24/2022 4:49:00 PM
1,4-Dioxane	< 0.90	0.90		ug/m3	0.83	6/24/2022 4:49:00 PM
2,2,4-trimethylpentane	< 0.56	0.56		ug/m3	0.83	6/24/2022 4:49:00 PM
4-ethyltoluene	< 0.59	0.59		ug/m3	0.83	6/24/2022 4:49:00 PM
Acetone	8.4	2.8		ug/m3	4	6/29/2022 4:08:00 AM
Allyl chloride	< 0.38	0.38		ug/m3	0.83	6/24/2022 4:49:00 PM
Benzene	0.27	0.38	J	ug/m3	0.83	6/24/2022 4:49:00 PM
Benzyl chloride	< 0.69	0.69		ug/m3	0.83	6/24/2022 4:49:00 PM
Bromodichloromethane	< 0.80	0.80		ug/m3	0.83	6/24/2022 4:49:00 PM
Bromoform	< 1.2	1.2		ug/m3	0.83	6/24/2022 4:49:00 PM
Bromomethane	< 0.47	0.47		ug/m3	0.83	6/24/2022 4:49:00 PM
Carbon disulfide	0.65	0.37		ug/m3	0.83	6/24/2022 4:49:00 PM
Carbon tetrachloride	2.5	0.75		ug/m3	0.83	6/24/2022 4:49:00 PM
Chlorobenzene	< 0.55	0.55		ug/m3	0.83	6/24/2022 4:49:00 PM
Chloroethane	< 0.32	0.32		ug/m3	0.83	6/24/2022 4:49:00 PM
Chloroform	1.9	0.59		ug/m3	0.83	6/24/2022 4:49:00 PM
Chloromethane	0.24	0.25	J	ug/m3	0.83	6/24/2022 4:49:00 PM
cis-1,2-Dichloroethene	< 0.48	0.48		ug/m3	0.83	6/24/2022 4:49:00 PM
cis-1,3-Dichloropropene	< 0.54	0.54		ug/m3	0.83	6/24/2022 4:49:00 PM
Cyclohexane	< 0.41	0.41		ug/m3	0.83	6/24/2022 4:49:00 PM
Dibromochloromethane	< 1.0	1.0		ug/m3	0.83	6/24/2022 4:49:00 PM
Ethyl acetate	1.1	0.43		ug/m3	0.83	6/24/2022 4:49:00 PM
Ethylbenzene	< 0.52	0.52		ug/m3	0.83	6/24/2022 4:49:00 PM
Freon 11	4.7	0.67		ug/m3	0.83	6/24/2022 4:49:00 PM
Freon 113	< 0.92	0.92		ug/m3	0.83	6/24/2022 4:49:00 PM
Freon 114	< 0.84	0.84		ug/m3	0.83	6/24/2022 4:49:00 PM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-001A

Client Sample ID: SVW-1
Tag Number: 569,1165
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.2	0.59		ug/m3	0.83	6/24/2022 4:49:00 PM
Heptane	< 0.49	0.49		ug/m3	0.83	6/24/2022 4:49:00 PM
Hexachloro-1,3-butadiene	< 1.3	1.3		ug/m3	0.83	6/24/2022 4:49:00 PM
Hexane	0.47	0.42		ug/m3	0.83	6/24/2022 4:49:00 PM
Isopropyl alcohol	< 0.29	0.29		ug/m3	0.83	6/24/2022 4:49:00 PM
m&p-Xylene	0.58	1.1	J	ug/m3	0.83	6/24/2022 4:49:00 PM
Methyl Butyl Ketone	< 1.0	1.0		ug/m3	0.83	6/24/2022 4:49:00 PM
Methyl Ethyl Ketone	0.66	0.74	J	ug/m3	0.83	6/24/2022 4:49:00 PM
Methyl Isobutyl Ketone	1.2	1.0		ug/m3	0.83	6/24/2022 4:49:00 PM
Methyl tert-butyl ether	< 0.43	0.43		ug/m3	0.83	6/24/2022 4:49:00 PM
Methylene chloride	1.2	0.42		ug/m3	0.83	6/24/2022 4:49:00 PM
o-Xylene	< 0.52	0.52		ug/m3	0.83	6/24/2022 4:49:00 PM
Propylene	< 0.21	0.21		ug/m3	0.83	6/24/2022 4:49:00 PM
Styrene	< 0.51	0.51		ug/m3	0.83	6/24/2022 4:49:00 PM
Tetrachloroethylene	0.90	0.81		ug/m3	0.83	6/24/2022 4:49:00 PM
Tetrahydrofuran	< 0.35	0.35		ug/m3	0.83	6/24/2022 4:49:00 PM
Toluene	2.6	0.45		ug/m3	0.83	6/24/2022 4:49:00 PM
trans-1,2-Dichloroethene	< 0.48	0.48		ug/m3	0.83	6/24/2022 4:49:00 PM
trans-1,3-Dichloropropene	< 0.54	0.54		ug/m3	0.83	6/24/2022 4:49:00 PM
Trichloroethene	< 0.64	0.64		ug/m3	0.83	6/24/2022 4:49:00 PM
Vinyl acetate	< 0.42	0.42		ug/m3	0.83	6/24/2022 4:49:00 PM
Vinyl Bromide	< 0.52	0.52		ug/m3	0.83	6/24/2022 4:49:00 PM
Vinyl chloride	< 0.31	0.31		ug/m3	0.83	6/24/2022 4:49:00 PM

NOTES:
Detection limit raise due to limited amount of samples

Qualifiers:

*	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062411.D
Acq On : 24 Jun 2022 4:49 pm
Sample : C2206048-001A 0.83X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 27 07:54:07 2022

Vial: 11
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.70	128	30679	1.00	ppb		0.00
35) 1,4-difluorobenzene	11.99	114	138401	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	127202	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	83342	0.90	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 90.00%				
Target Compounds							Qvalue
3) Freon 12	4.13	85	75073	0.53	ppb		97
4) Chloromethane	4.34	50	4978	0.14	ppb		69
14) Freon 11	5.74	101	174687	1.00	ppb		99
15) Acetone	5.91	58	73165	4.10	ppb		94
21) Methylene chloride	6.96	84	16479	0.42	ppb		98
23) Carbon disulfide	7.12	76	29046	0.25	ppb		95
28) Methyl Ethyl Ketone	8.80	72	4113	0.27	ppb	#	100
30) Hexane	8.84	57	7418m	0.16	ppb		
31) Ethyl acetate	9.38	43	27100	0.38	ppb		94
32) Chloroform	9.86	83	45827	0.48	ppb		100
38) Carbon tetrachloride	11.32	117	42870	0.47	ppb		100
39) Benzene	11.29	78	10347	0.10	ppb		89
51) Toluene	14.77	92	59151	0.79	ppb		93
52) Methyl Isobutyl Ketone	13.82	43	23879	0.36	ppb		92
56) Tetrachloroethylene	15.84	164	9137	0.16	ppb		93
59) m&p-xylene	17.33	91	22904	0.16	ppb		99

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

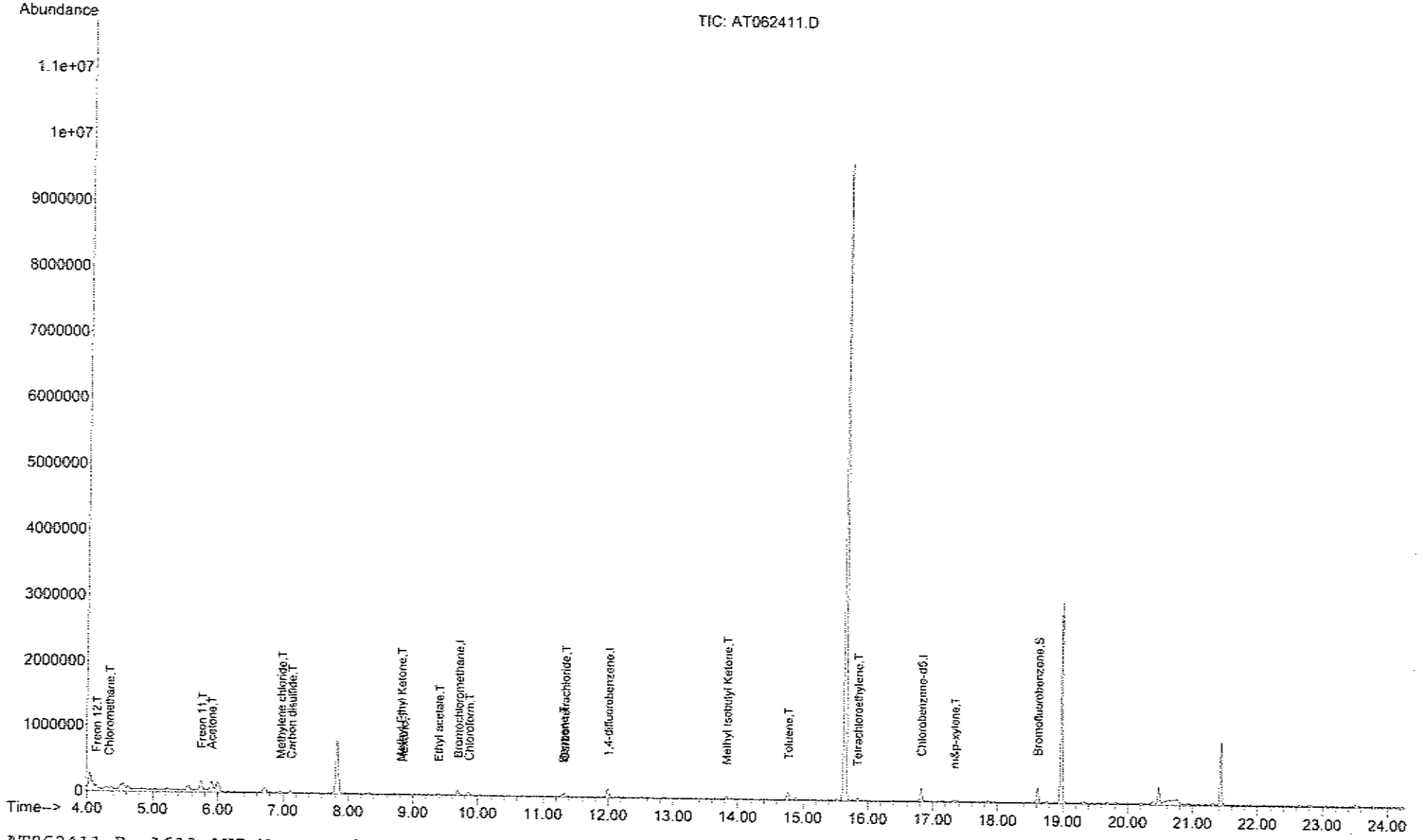
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062411.D
Acq On : 24 Jun 2022 4:49 pm
Sample : C2206048-001A 0.83X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 28 13:38 2022

Vial: 11
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

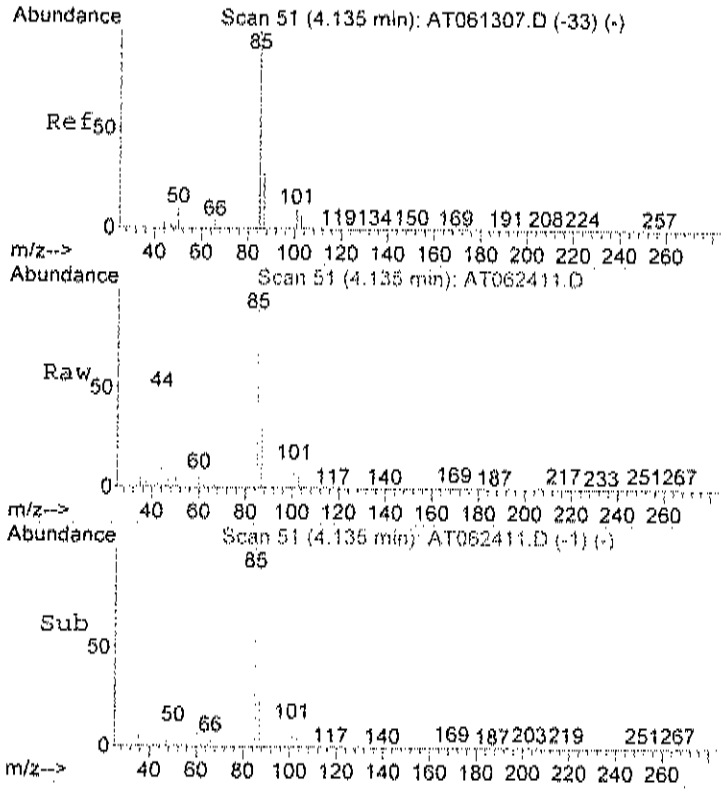
Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



AT062411.D A613_1UG.M Thu Jul 07 07:34:39 2022 MSD1

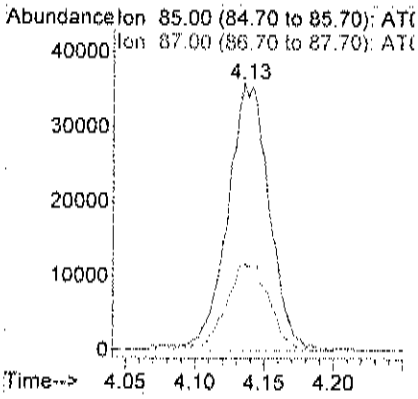
Centek/SanAir Laboratories

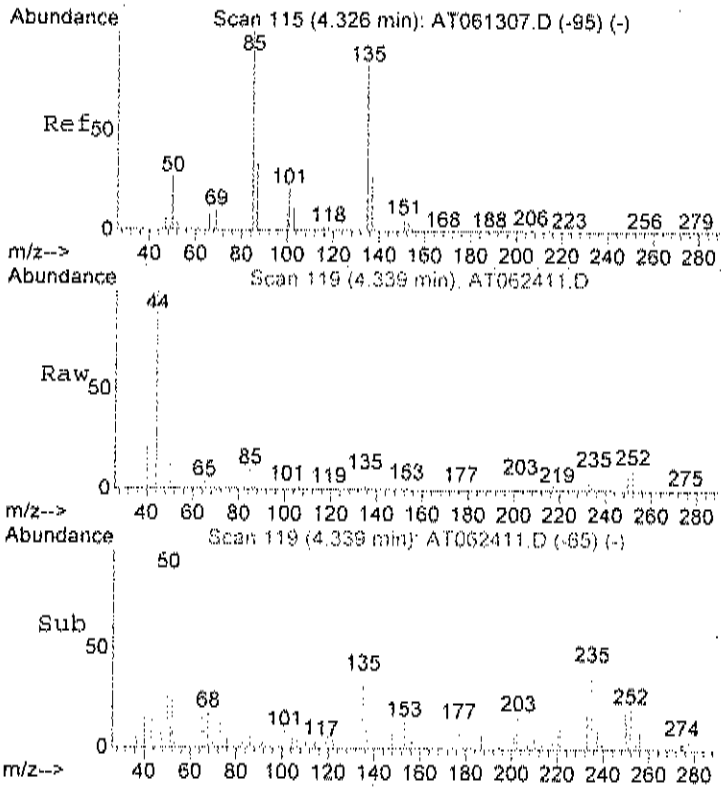


#3
Freon 12
Concen: 0.53 ppb
RT: 4.13 min Scan# 51
Delta R.T. 0.00 min
Lab File: AT062411.D
Acq: 24 Jun 2022 4:49 pm

Tgt Ion: 85 Resp: 75073

Ion	Ratio	Lower	Upper
85	100		
87	34.7	12.8	52.8

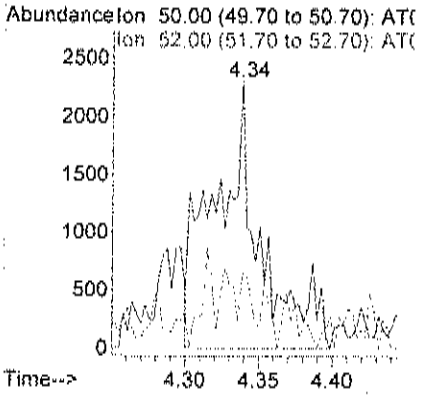


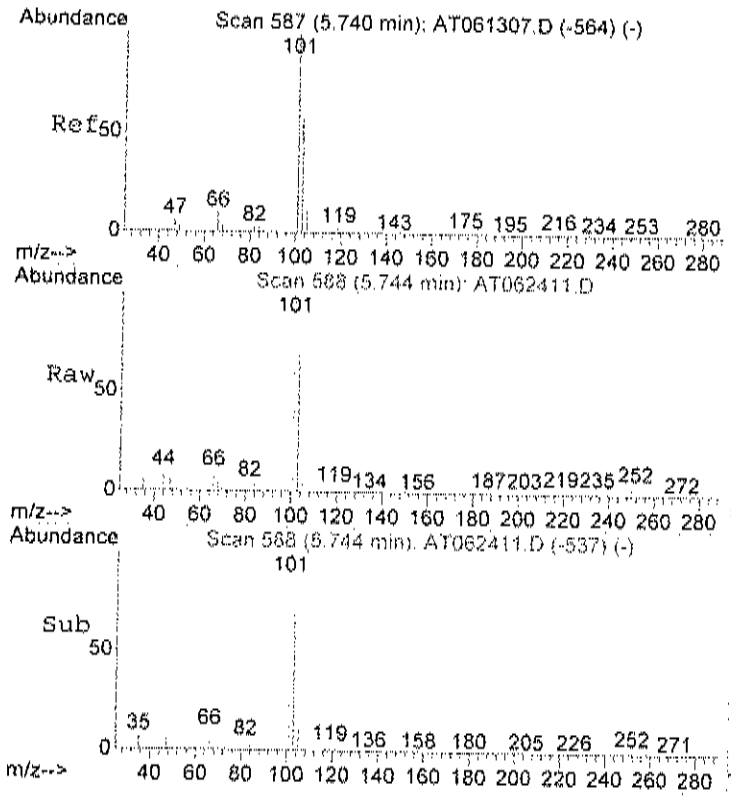


#4
Chloromethane
Concen: 0.14 ppb
RT: 4.34 min Scan# 119
Delta R.T. 0.01 min
Lab File: AT062411.D
Acq: 24 Jun 2022 4:49 pm

Tgt Ion: 50 Resp: 4978

Ion	Ratio	Lower	Upper
50	100		
52	7.5	2.7	42.7

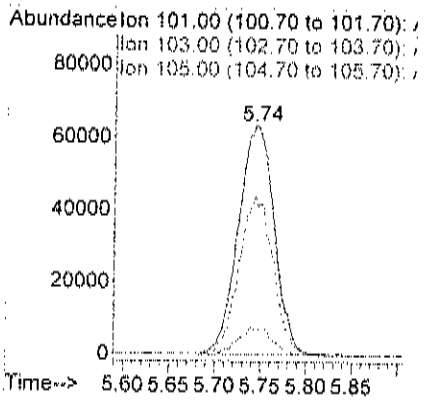


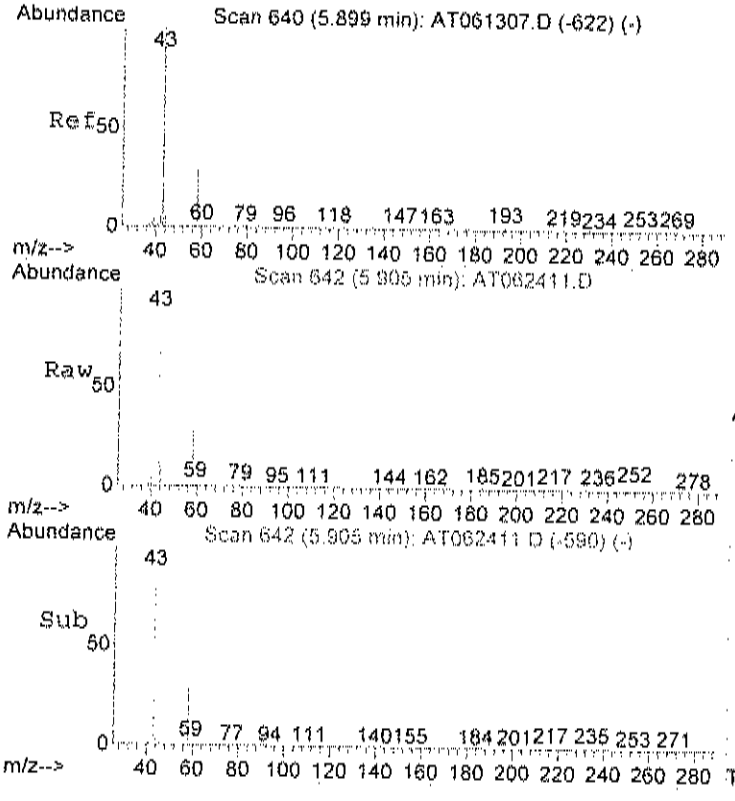


#14
Freon 11
Concen: 1.00 ppb
RT: 5.74 min Scan# 588
Delta R.T. 0.00 min
Lab File: AT062411.D
Acq: 24 Jun 2022 4:49 pm

Tgt Ion:101 Resp: 174687

Ion	Ratio	Lower	Upper
101	100		
103	65.8	46.3	86.3
105	11.7	0.0	31.2

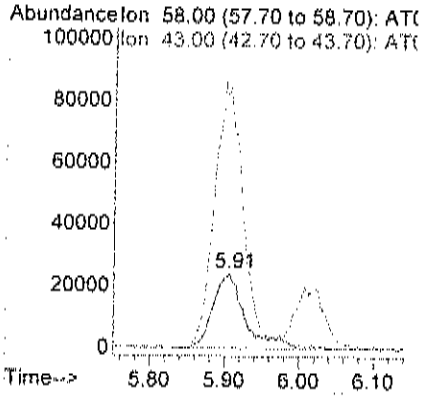


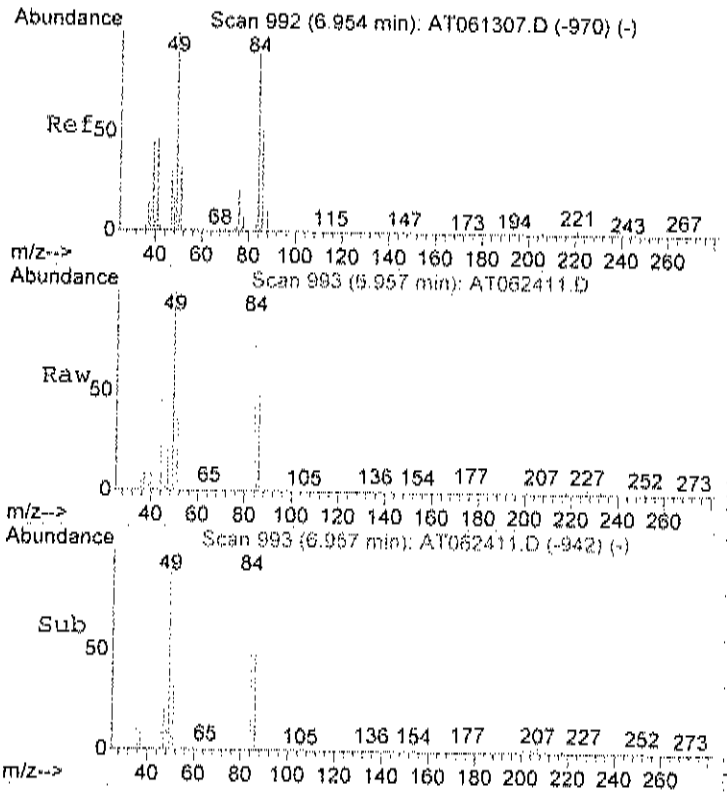


#15
Acetone
Concen: 4.10 ppb
RT: 5.91 min Scan# 642
Delta R.T. 0.01 min
Lab File: AT062411.D
Acq: 24 Jun 2022 4:49 pm

Tgt Ion: 58 Resp: 73165

Ion	Ratio	Lower	Upper
58	100		
43	311.3	268.9	328.9

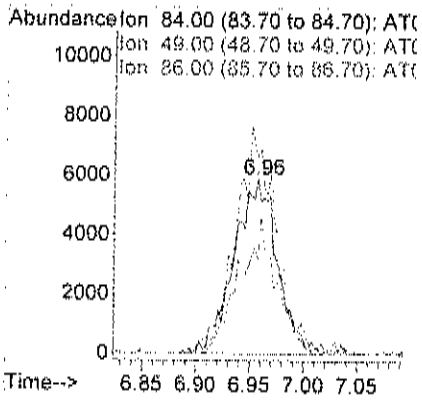


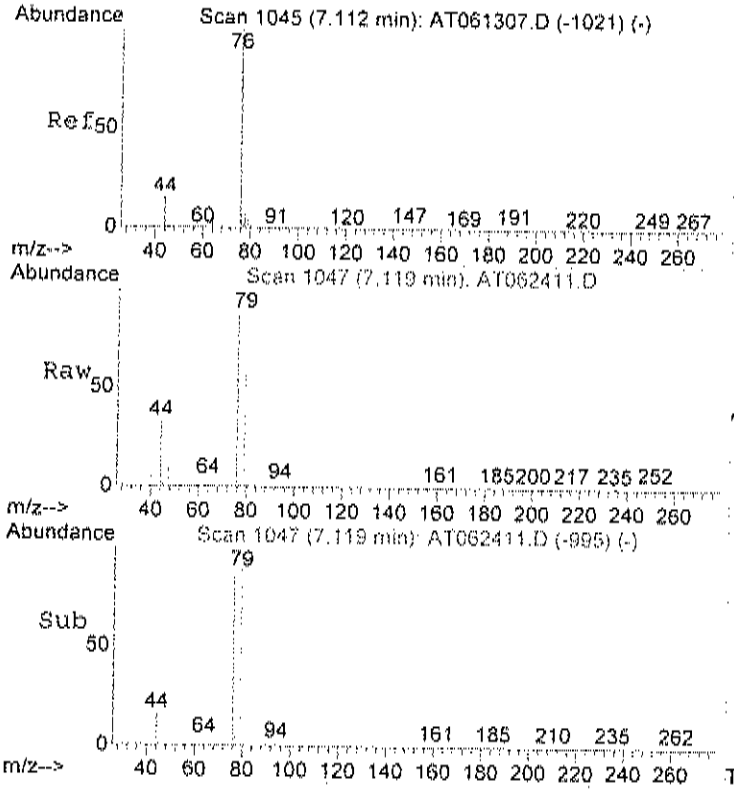


#21
Methylene chloride
Concen: 0.42 ppb
RT: 6.96 min Scan# 993
Delta R.T. 0.00 min
Lab File: AT062411.D
Acq: 24 Jun 2022 4:49 pm

Tgt Ion: 84 Resp: 16479

Ion	Ratio	Lower	Upper
84	100		
49	116.4	93.2	133.2
86	66.9	46.4	86.4

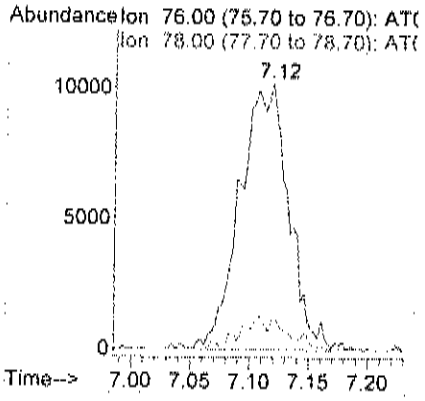


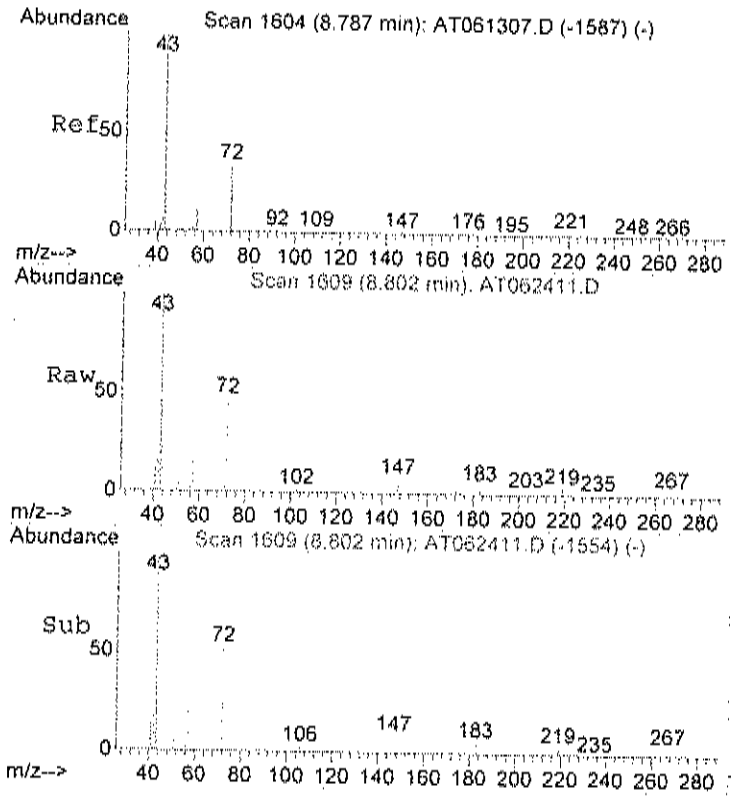


#23
Carbon disulfide
Concen: 0.25 ppb
RT: 7.12 min Scan# 1047
Delta R.T. 0.01 min
Lab File: AT062411.D
Acq: 24 Jun 2022 4:49 pm

Tgt Ion: 76 Resp: 29046

Ion	Ratio	Lower	Upper
76	100		
78	11.6	0.0	29.7

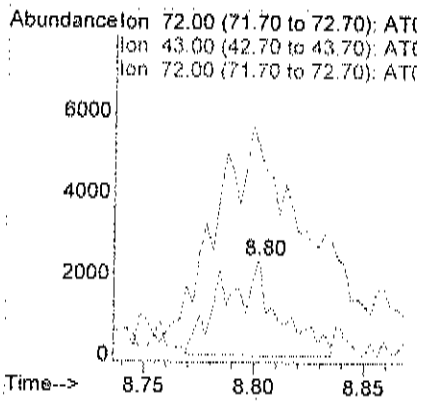


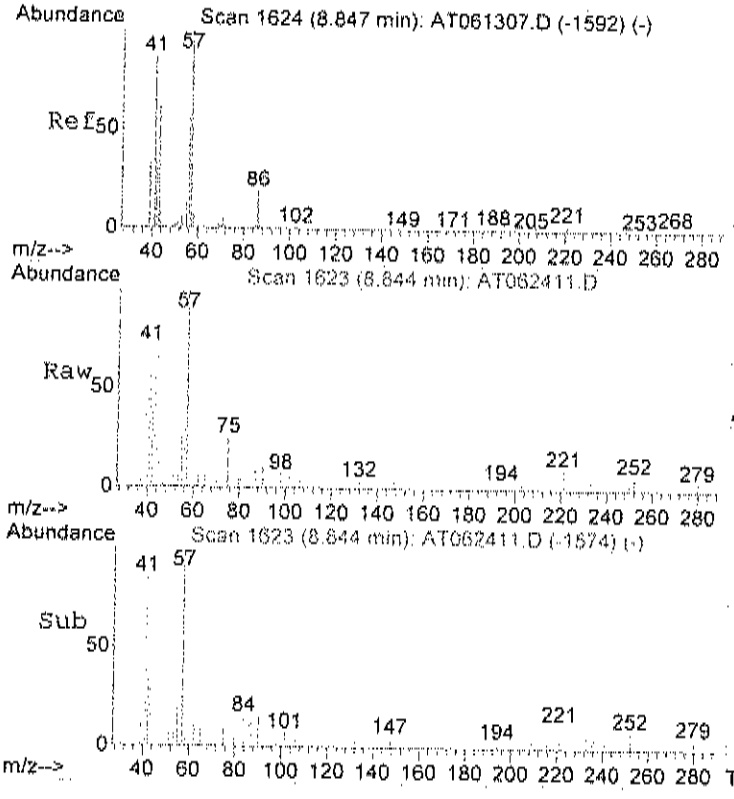


#28
Methyl Ethyl Ketone
Concen: 0.27 ppb
RT: 8.80 min Scan# 1609
Delta R.T. 0.02 min
Lab File: AT062411.D
Acq: 24 Jun 2022 4:49 pm

Tgt Ion: 72 Resp: 4113

Ion	Ratio	Lower	Upper
72	100		
43	443.3	0.0	20.0#
72	100.0	80.0	120.0

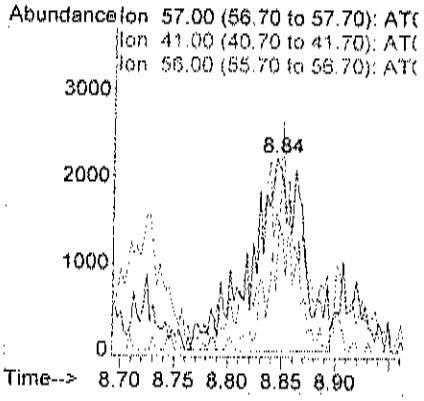


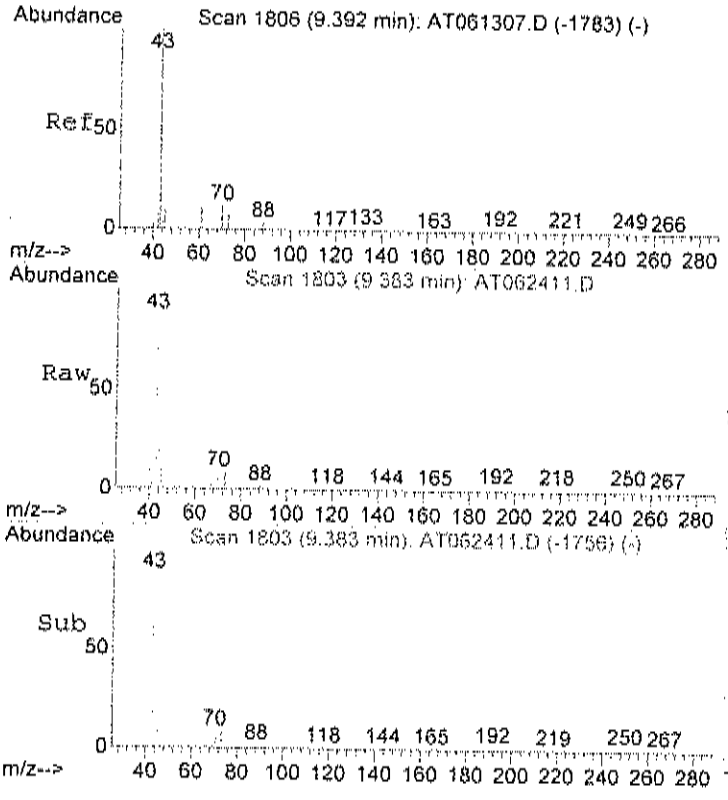


#30
Hexane
Concen: 0.16 ppb m
RT: 8.84 min Scan# 1623
Delta R.T. -0.00 min
Lab File: AT062411.D
Acq: 24 Jun 2022 4:49 pm

Tgt Ion: 57 Resp: 7418

Ion	Ratio	Lower	Upper
57	100		
41	74.7	58.1	98.1
56	36.4	28.7	68.7

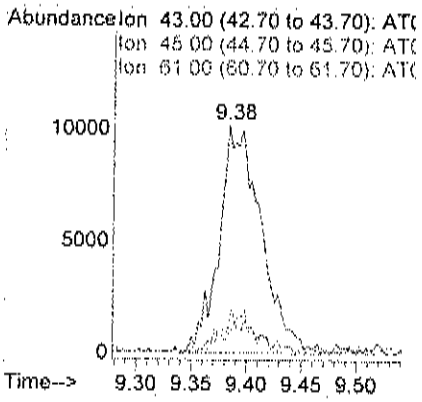


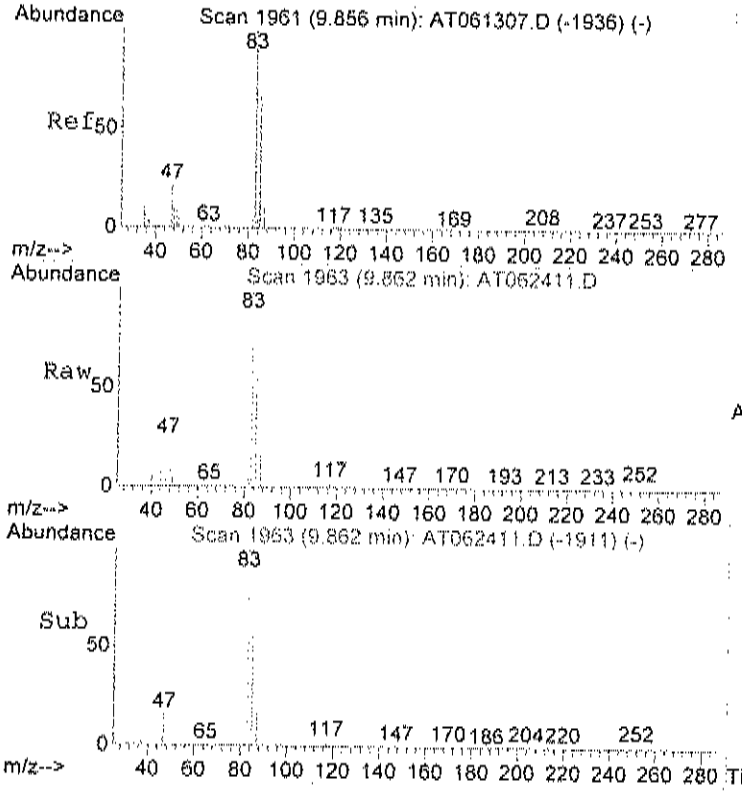


#31
Ethyl acetate
Concen: 0.38 ppb
RT: 9.38 min Scan# 1803
Delta R.T. -0.01 min
Lab File: AT062411.D
Acq: 24 Jun 2022 4:49 pm

Tgt Ion: 43 Resp: 27100

Ion	Ratio	Lower	Upper
43	100		
45	8.7	0.0	33.7
61	14.5	0.0	34.7

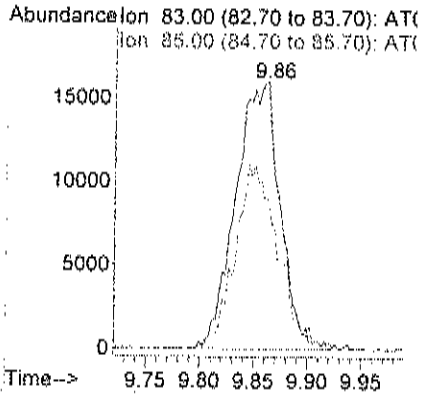


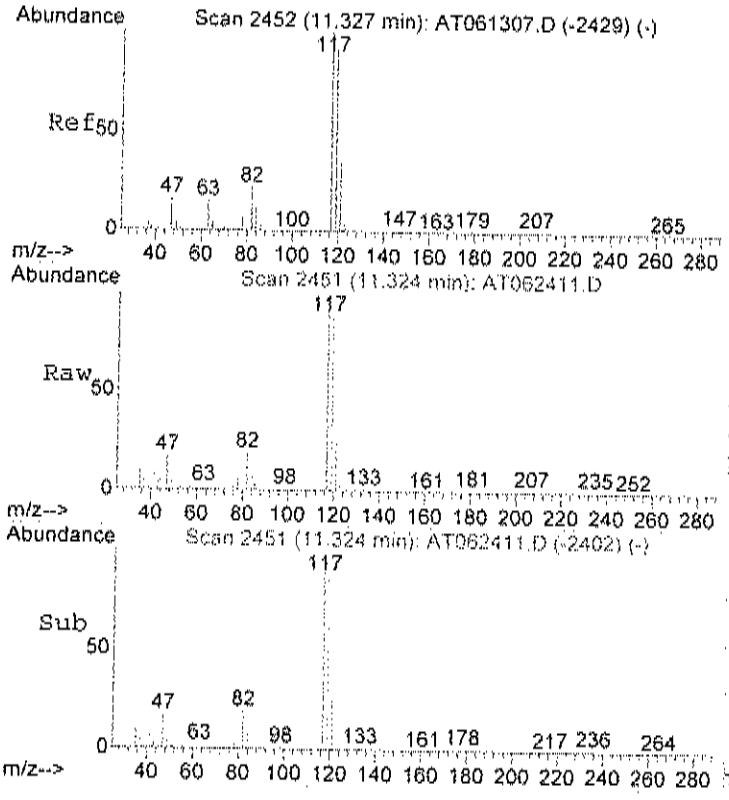


#32
Chloroform
Concen: 0.48 ppb
RT: 9.86 min Scan# 1963
Delta R.T. 0.01 min
Lab File: AT062411.D
Acq: 24 Jun 2022 4:49 pm

Tgt Ion: 83 Resp: 45827

Ion	Ratio	Lower	Upper
83	100		
85	66.5	46.5	86.5

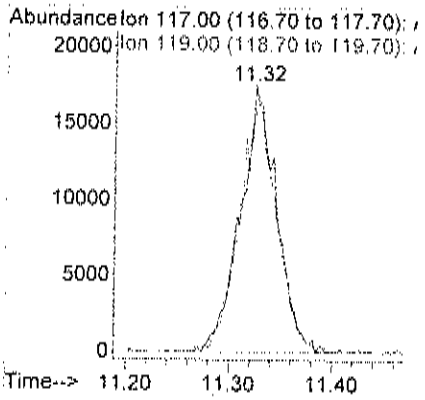


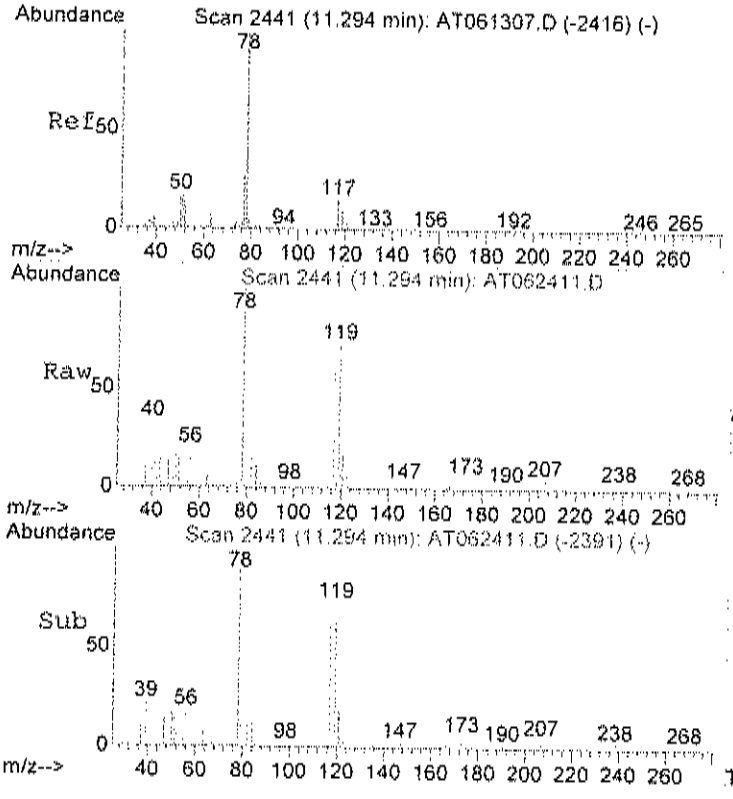


#38
Carbon tetrachloride
Concen: 0.47 ppb
RT: 11.32 min Scan# 2451
Delta R.T. -0.00 min
Lab File: AT062411.D
Acq: 24 Jun 2022 4:49 pm

Tgt Ion:117 Resp: 42870

Ion	Ratio	Lower	Upper
117	100		
119	97.3	77.2	117.2

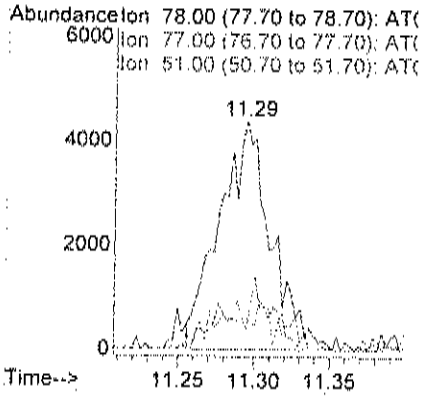


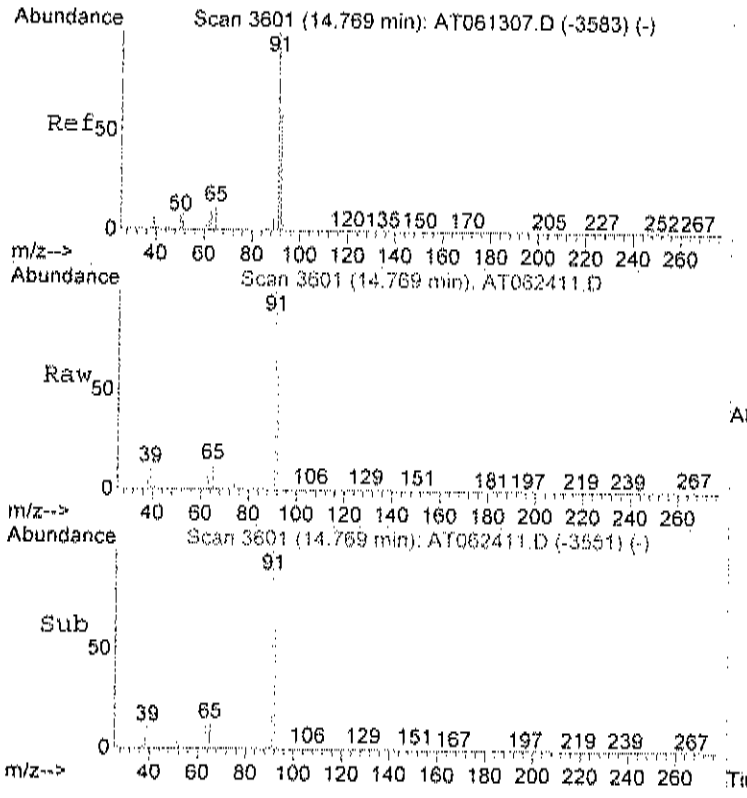


#39
Benzene
Concen: 0.10 ppb
RT: 11.29 min Scan# 2441
Delta R.T. 0.00 min
Lab File: AT062411.D
Acq: 24 Jun 2022 4:49 pm

Tgt Ion: 78 Resp: 10347

Ion	Ratio	Lower	Upper
78	100		
77	14.7	3.1	43.1
51	18.9	0.0	37.8

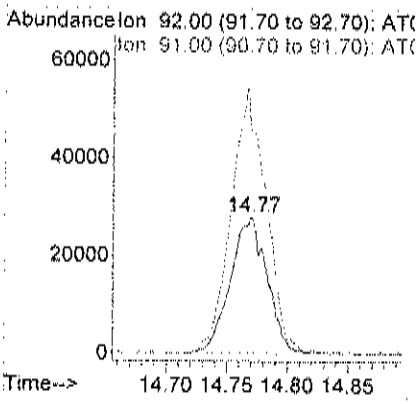


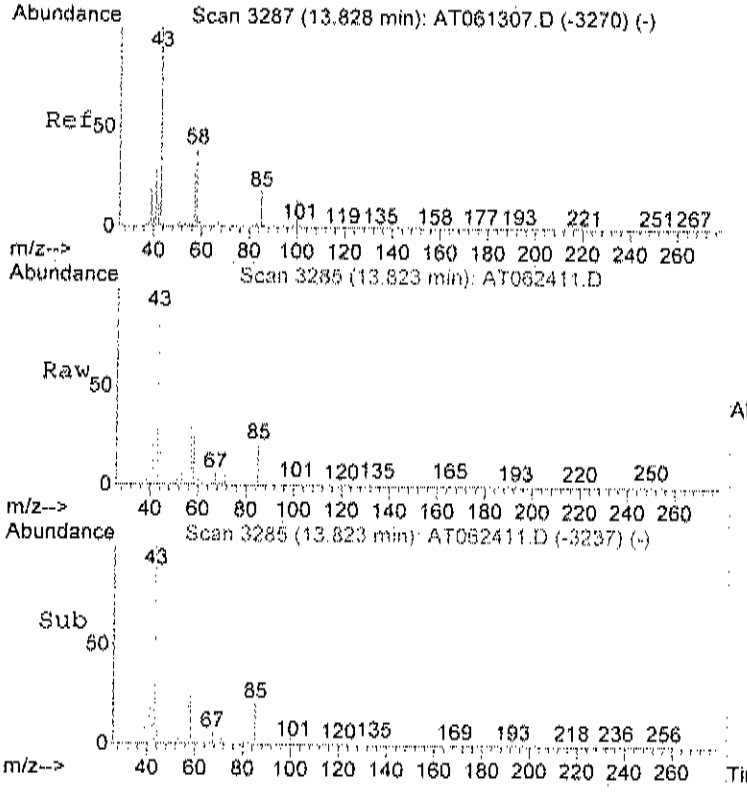


#51
Toluene
Concen: 0.79 ppb
RT: 14.77 min Scan# 3601
Delta R.T. 0.00 min
Lab File: AT062411.D
Acq: 24 Jun 2022 4:49 pm

Tgt Ion: 92 Resp: 59151

Ion	Ratio	Lower	Upper
92	100		
91	184.4	154.4	194.4

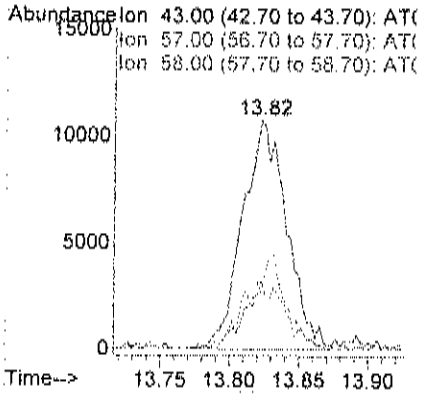


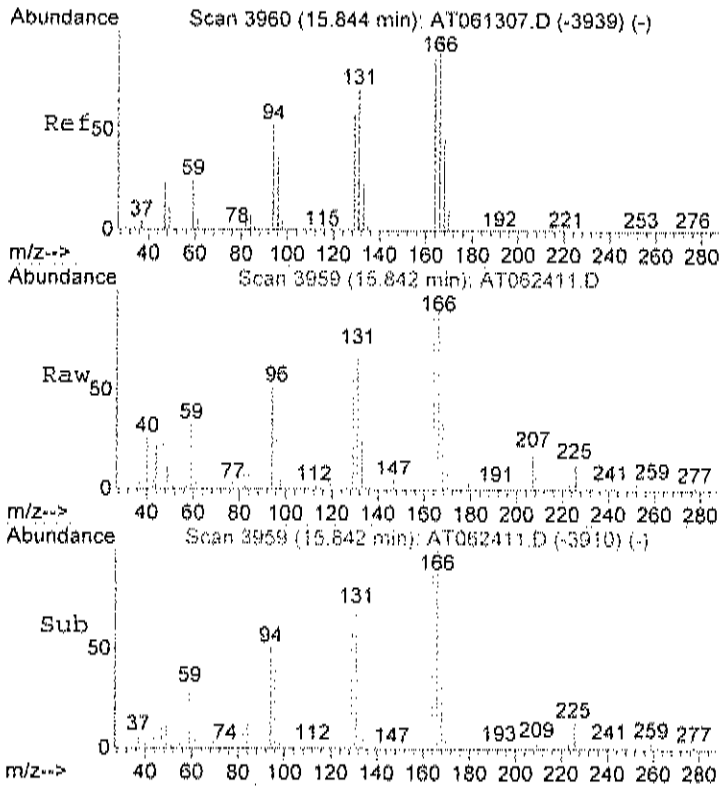


#52
Methyl Isobutyl Ketone
Concen: 0.36 ppb
RT: 13.82 min Scan# 3285
Delta R.T. -0.01 min
Lab File: AT062411.D
Acq: 24 Jun 2022 4:49 pm

Tgt Ion: 43 Resp: 23879

Ion	Ratio	Lower	Upper
43	100		
57	28.1	9.3	49.3
58	34.5	22.0	62.0

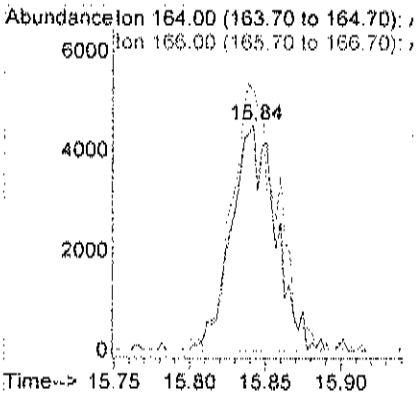


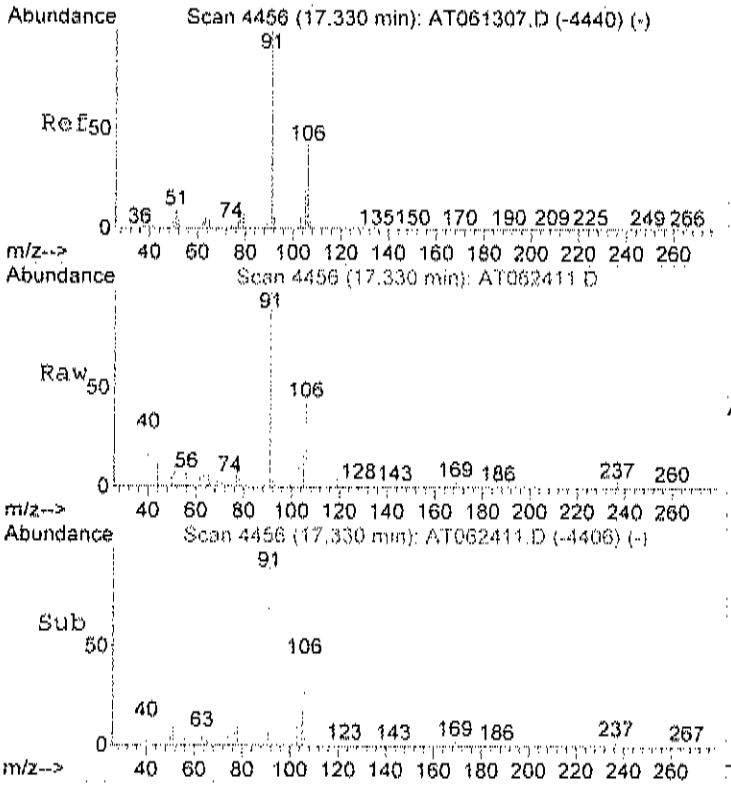


#56
Tetrachloroethylene
Concen: 0.16 ppb
RT: 15.84 min Scan# 3959
Delta R.T. -0.00 min
Lab File: AT062411.D
Acq: 24 Jun 2022 4:49 pm

Tgt Ion:164 Resp: 9137

Ion	Ratio	Lower	Upper
164	100		
166	120.1	107.7	147.7

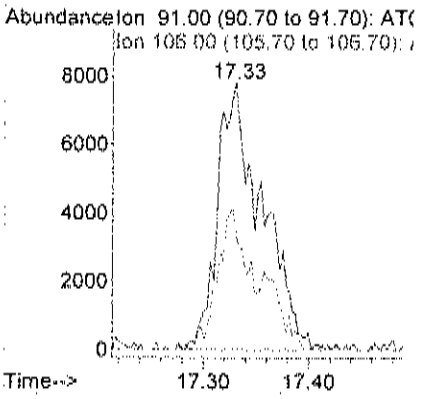




#59
m&p-xylene
Concen: 0.16 ppb
RT: 17.33 min Scan# 4456
Delta R.T. 0.00 min
Lab File: AT062411.D
Acq: 24 Jun 2022 4:49 pm

Tgt Ion: 91 Resp: 22904

Ion	Ratio	Lower	Upper
91	100		
106	48.5	27.9	67.9



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062828.D
Acq On : 29 Jun 2022 4:08 am
Sample : C2206048-001A 4X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 29 07:10:14 2022

Vial: 20
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.70	128	23348	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.00	114	94535	1.00	ppb	0.00
50) Chlorobenzene-d5	16.82	117	84828	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.61	95	50586	0.82	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 82.00%			
Target Compounds						Qvalue
15) Acetone	5.90	58	11990	0.88	ppb	# 1

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

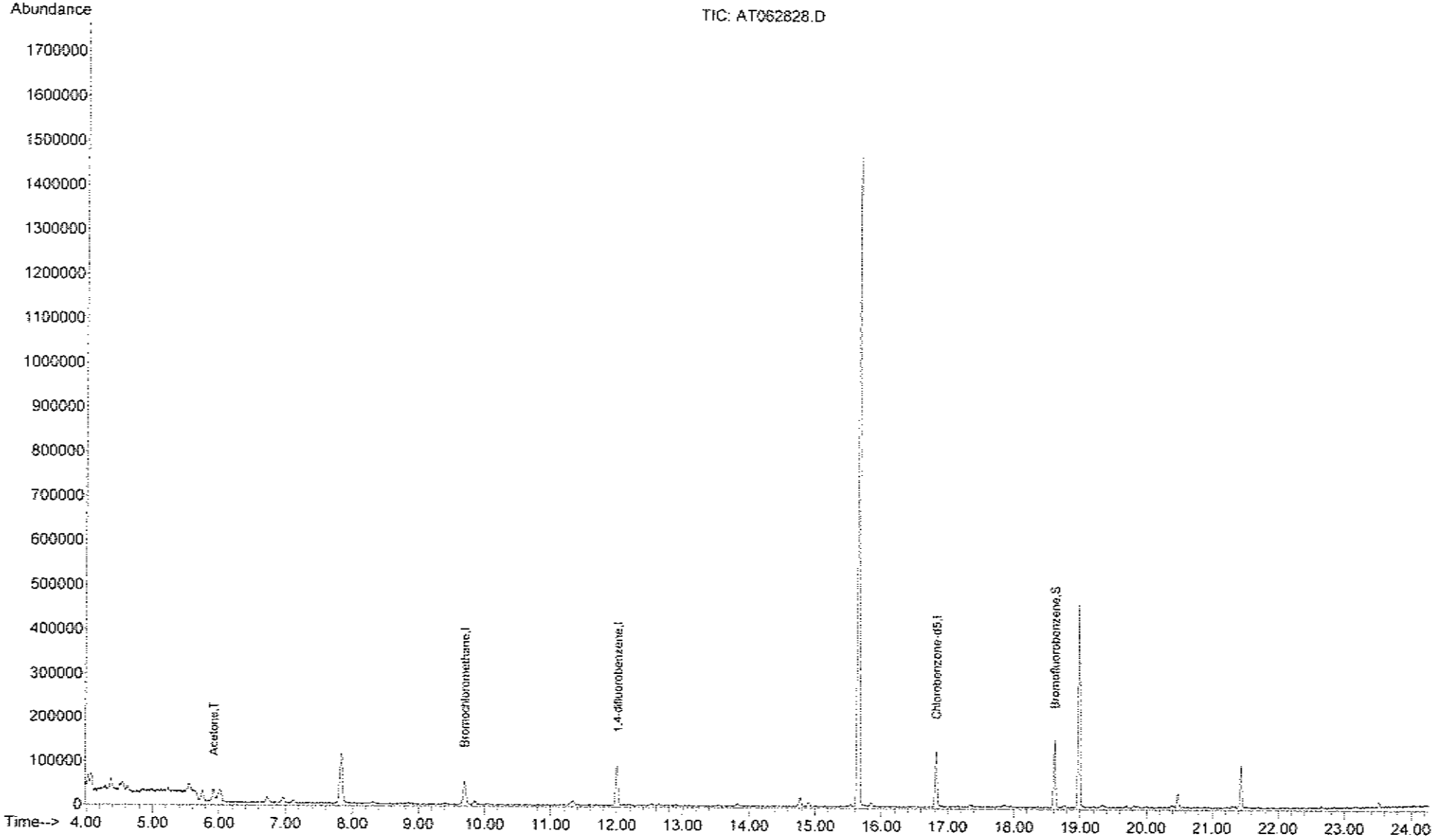
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062828.D
Acq On : 29 Jun 2022 4:08 am
Sample : C2206048-001A 4X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 29 10:47 2022

Vial: 20
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

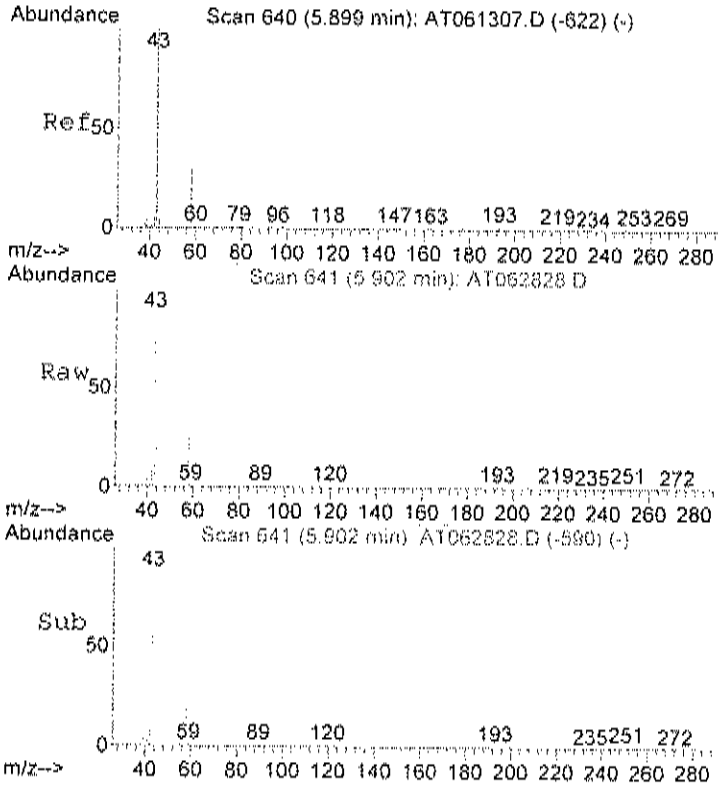
Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



AT062828.D A613_1UG.M Thu Jul 07 07:40:27 2022 MSD1

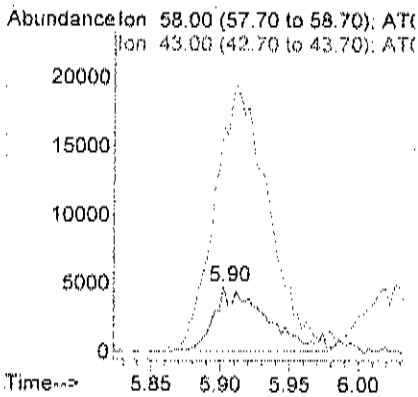
Centek/SanAir Laboratories



#15
Acetone
Concen: 0.88 ppb
RT: 5.90 min Scan# 641
Delta R.T. 0.00 min
Lab File: AT062828.D
Acq: 29 Jun 2022 4:08 am

Tgt Ion: 58 Resp: 11990

Ion	Ratio	Lower	Upper
58	100		
43	536.6	268.9	328.9#



Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-002A

Client Sample ID: SVW-1 Dup
Tag Number: 131,1165
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-16			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: NP
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,1,2,2-Tetrachloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,1,2-Trichloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,1-Dichloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,1-Dichloroethene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,2,4-Trichlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,2,4-Trimethylbenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,2-Dibromoethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,2-Dichlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,2-Dichloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,2-Dichloropropane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,3,5-Trimethylbenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,3-butadiene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,3-Dichlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,4-Dichlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
1,4-Dioxane	< 0.25	0.25		ppbV	0.83	6/24/2022 6:04:00 PM
2,2,4-trimethylpentane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
4-ethyltoluene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Acetone	1.7	0.25		ppbV	0.83	6/24/2022 6:04:00 PM
Allyl chloride	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Benzene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Benzyl chloride	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Bromodichloromethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Bromoform	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Bromomethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Carbon disulfide	0.12	0.12	J	ppbV	0.83	6/24/2022 6:04:00 PM
Carbon tetrachloride	0.39	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Chlorobenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Chloroethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Chloroform	0.40	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Chloromethane	0.22	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
cis-1,2-Dichloroethene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
cis-1,3-Dichloropropene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Cyclohexane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-002A

Client Sample ID: SVW-1 Dup
Tag Number: 131,1165
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Dibromochloromethane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Ethyl acetate	0.25	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Ethylbenzene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Freon 11	0.84	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Freon 113	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Freon 114	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Freon 12	0.46	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Heptane	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Hexachloro-1,3-butadiene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Hexane	0.11	0.12	J	ppbV	0.83	6/24/2022 6:04:00 PM
Isopropyl alcohol	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
m&p-Xylene	0.12	0.25	J	ppbV	0.83	6/24/2022 6:04:00 PM
Methyl Butyl Ketone	< 0.25	0.25		ppbV	0.83	6/24/2022 6:04:00 PM
Methyl Ethyl Ketone	0.19	0.25	J	ppbV	0.83	6/24/2022 6:04:00 PM
Methyl Isobutyl Ketone	< 0.25	0.25		ppbV	0.83	6/24/2022 6:04:00 PM
Methyl tert-butyl ether	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Methylene chloride	0.20	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
o-Xylene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Propylene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Styrene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Tetrachloroethylene	0.24	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Tetrahydrofuran	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Toluene	0.56	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
trans-1,2-Dichloroethene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
trans-1,3-Dichloropropene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Trichloroethene	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Vinyl acetate	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Vinyl Bromide	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Vinyl chloride	< 0.12	0.12		ppbV	0.83	6/24/2022 6:04:00 PM
Surr: Bromofluorobenzene	88.0	46.7-129		%REC	0.83	6/24/2022 6:04:00 PM

NOTES:
Detection limit raise due to limited amount of samples

Qualifiers:

- . Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-002A

Client Sample ID: SVW-1 Dup
Tag Number: 131,1165
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.65	0.65		ug/m3	0.83	6/24/2022 6:04:00 PM
1,1,2,2-Tetrachloroethane	< 0.82	0.82		ug/m3	0.83	6/24/2022 6:04:00 PM
1,1,2-Trichloroethane	< 0.65	0.65		ug/m3	0.83	6/24/2022 6:04:00 PM
1,1-Dichloroethane	< 0.49	0.49		ug/m3	0.83	6/24/2022 6:04:00 PM
1,1-Dichloroethene	< 0.48	0.48		ug/m3	0.83	6/24/2022 6:04:00 PM
1,2,4-Trichlorobenzene	< 0.89	0.89		ug/m3	0.83	6/24/2022 6:04:00 PM
1,2,4-Trimethylbenzene	< 0.59	0.59		ug/m3	0.83	6/24/2022 6:04:00 PM
1,2-Dibromoethane	< 0.92	0.92		ug/m3	0.83	6/24/2022 6:04:00 PM
1,2-Dichlorobenzene	< 0.72	0.72		ug/m3	0.83	6/24/2022 6:04:00 PM
1,2-Dichloroethane	< 0.49	0.49		ug/m3	0.83	6/24/2022 6:04:00 PM
1,2-Dichloropropane	< 0.55	0.55		ug/m3	0.83	6/24/2022 6:04:00 PM
1,3,5-Trimethylbenzene	< 0.59	0.59		ug/m3	0.83	6/24/2022 6:04:00 PM
1,3-butadiene	< 0.27	0.27		ug/m3	0.83	6/24/2022 6:04:00 PM
1,3-Dichlorobenzene	< 0.72	0.72		ug/m3	0.83	6/24/2022 6:04:00 PM
1,4-Dichlorobenzene	< 0.72	0.72		ug/m3	0.83	6/24/2022 6:04:00 PM
1,4-Dioxane	< 0.90	0.90		ug/m3	0.83	6/24/2022 6:04:00 PM
2,2,4-trimethylpentane	< 0.56	0.56		ug/m3	0.83	6/24/2022 6:04:00 PM
4-ethyltoluene	< 0.59	0.59		ug/m3	0.83	6/24/2022 6:04:00 PM
Acetone	4.1	0.59		ug/m3	0.83	6/24/2022 6:04:00 PM
Allyl chloride	< 0.38	0.38		ug/m3	0.83	6/24/2022 6:04:00 PM
Benzene	< 0.38	0.38		ug/m3	0.83	6/24/2022 6:04:00 PM
Benzyl chloride	< 0.69	0.69		ug/m3	0.83	6/24/2022 6:04:00 PM
Bromodichloromethane	< 0.80	0.80		ug/m3	0.83	6/24/2022 6:04:00 PM
Bromoform	< 1.2	1.2		ug/m3	0.83	6/24/2022 6:04:00 PM
Bromomethane	< 0.47	0.47		ug/m3	0.83	6/24/2022 6:04:00 PM
Carbon disulfide	0.36	0.37	J	ug/m3	0.83	6/24/2022 6:04:00 PM
Carbon tetrachloride	2.5	0.75		ug/m3	0.83	6/24/2022 6:04:00 PM
Chlorobenzene	< 0.55	0.55		ug/m3	0.83	6/24/2022 6:04:00 PM
Chloroethane	< 0.32	0.32		ug/m3	0.83	6/24/2022 6:04:00 PM
Chloroform	1.9	0.59		ug/m3	0.83	6/24/2022 6:04:00 PM
Chloromethane	0.46	0.25		ug/m3	0.83	6/24/2022 6:04:00 PM
cis-1,2-Dichloroethene	< 0.48	0.48		ug/m3	0.83	6/24/2022 6:04:00 PM
cis-1,3-Dichloropropene	< 0.54	0.54		ug/m3	0.83	6/24/2022 6:04:00 PM
Cyclohexane	< 0.41	0.41		ug/m3	0.83	6/24/2022 6:04:00 PM
Dibromochloromethane	< 1.0	1.0		ug/m3	0.83	6/24/2022 6:04:00 PM
Ethyl acetate	0.90	0.43		ug/m3	0.83	6/24/2022 6:04:00 PM
Ethylbenzene	< 0.52	0.52		ug/m3	0.83	6/24/2022 6:04:00 PM
Freon 11	4.7	0.67		ug/m3	0.83	6/24/2022 6:04:00 PM
Freon 113	< 0.92	0.92		ug/m3	0.83	6/24/2022 6:04:00 PM
Freon 114	< 0.84	0.84		ug/m3	0.83	6/24/2022 6:04:00 PM

Qualifiers:

- `*` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-002A

Client Sample ID: SVW-1 Dup
Tag Number: 131,1165
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.3	0.59		ug/m3	0.83	6/24/2022 6:04:00 PM
Heptane	< 0.49	0.49		ug/m3	0.83	6/24/2022 6:04:00 PM
Hexachloro-1,3-butadiene	< 1.3	1.3		ug/m3	0.83	6/24/2022 6:04:00 PM
Hexane	0.38	0.42	J	ug/m3	0.83	6/24/2022 6:04:00 PM
Isopropyl alcohol	< 0.29	0.29		ug/m3	0.83	6/24/2022 6:04:00 PM
m&p-Xylene	0.54	1.1	J	ug/m3	0.83	6/24/2022 6:04:00 PM
Methyl Butyl Ketone	< 1.0	1.0		ug/m3	0.83	6/24/2022 6:04:00 PM
Methyl Ethyl Ketone	0.56	0.74	J	ug/m3	0.83	6/24/2022 6:04:00 PM
Methyl Isobutyl Ketone	< 1.0	1.0		ug/m3	0.83	6/24/2022 6:04:00 PM
Methyl tert-butyl ether	< 0.43	0.43		ug/m3	0.83	6/24/2022 6:04:00 PM
Methylene chloride	0.69	0.42		ug/m3	0.83	6/24/2022 6:04:00 PM
o-Xylene	< 0.52	0.52		ug/m3	0.83	6/24/2022 6:04:00 PM
Propylene	< 0.21	0.21		ug/m3	0.83	6/24/2022 6:04:00 PM
Styrene	< 0.51	0.51		ug/m3	0.83	6/24/2022 6:04:00 PM
Tetrachloroethylene	1.6	0.81		ug/m3	0.83	6/24/2022 6:04:00 PM
Tetrahydrofuran	< 0.35	0.35		ug/m3	0.83	6/24/2022 6:04:00 PM
Toluene	2.1	0.45		ug/m3	0.83	6/24/2022 6:04:00 PM
trans-1,2-Dichloroethene	< 0.48	0.48		ug/m3	0.83	6/24/2022 6:04:00 PM
trans-1,3-Dichloropropene	< 0.54	0.54		ug/m3	0.83	6/24/2022 6:04:00 PM
Trichloroethene	< 0.64	0.64		ug/m3	0.83	6/24/2022 6:04:00 PM
Vinyl acetate	< 0.42	0.42		ug/m3	0.83	6/24/2022 6:04:00 PM
Vinyl Bromide	< 0.52	0.52		ug/m3	0.83	6/24/2022 6:04:00 PM
Vinyl chloride	< 0.31	0.31		ug/m3	0.83	6/24/2022 6:04:00 PM

NOTES:
Detection limit raise due to limited amount of samples

Qualifiers:

- `*` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062412.D
Acq On : 24 Jun 2022 6:04 pm
Sample : C2206048-002A 0.83X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 27 07:54:19 2022

Vial: 12
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.68	128	30903	1.00	ppb		0.00
35) 1,4-difluorobenzene	11.99	114	134386	1.00	ppb		-0.01
50) Chlorobenzene-d5	16.82	117	123492	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	78324	0.88	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 88.00%				
Target Compounds							Qvalue
3) Freon 12	4.13	85	79468	0.56	ppb		98
4) Chloromethane	4.33	50	9567	0.27	ppb		73
14) Freon 11	5.75	101	178495	1.01	ppb		99
15) Acetone	5.91	58	36989m	2.06	ppb		
21) Methylene chloride	6.96	84	9227	0.24	ppb		95
23) Carbon disulfide	7.11	76	16698	0.14	ppb		89
28) Methyl Ethyl Ketone	8.80	72	3543	0.23	ppb	#	100
30) Hexane	8.84	57	5841	0.13	ppb	#	75
31) Ethyl acetate	9.40	43	21510	0.30	ppb		92
32) Chloroform	9.85	83	46737	0.48	ppb		97
38) Carbon tetrachloride	11.33	117	42348	0.47	ppb		96
51) Toluene	14.77	92	49148	0.67	ppb		99
56) Tetrachloroethylene	15.84	164	16144	0.29	ppb		99
59) m&p-Xylene	17.32	91	20798	0.15	ppb		99

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

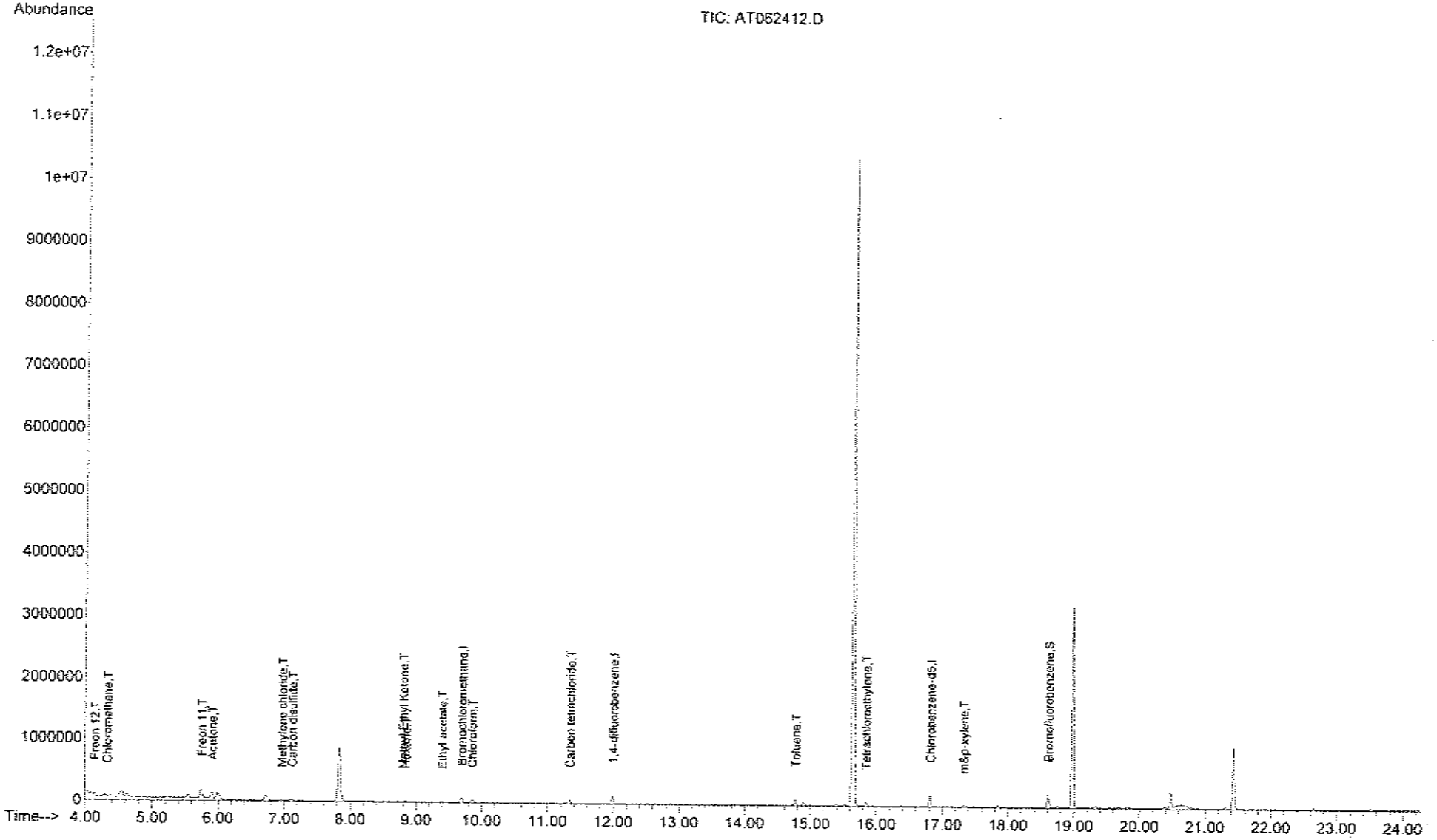
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062412.D
Acq On : 24 Jun 2022 6:04 pm
Sample : C2206048-002A 0.83X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 29 11:07 2022

Vial: 12
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

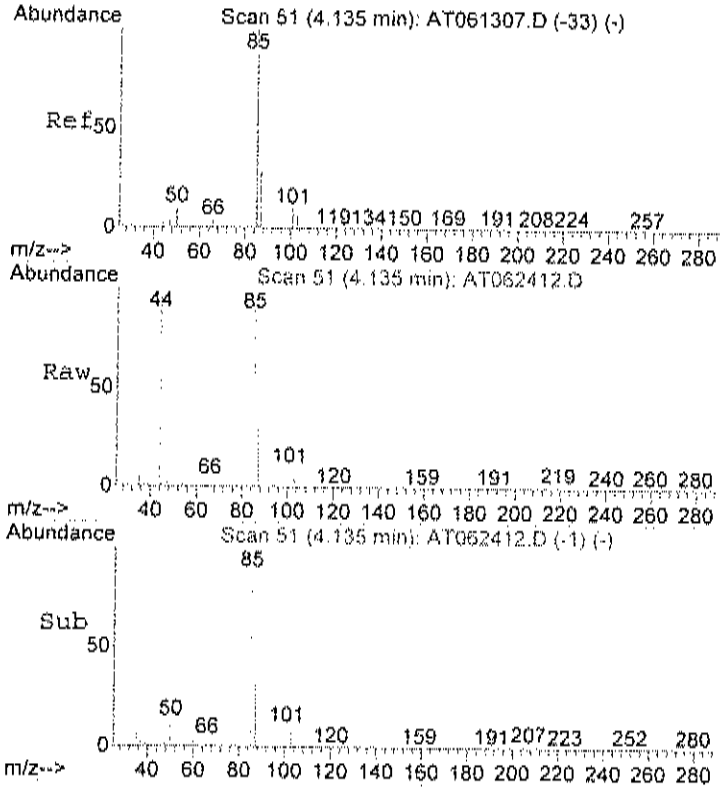
Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



AT062412.D A613_1UG.M Thu Jul 07 07:34:51 2022 MSD1

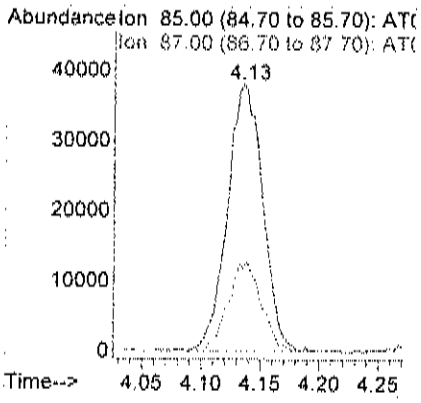
Centek/SanAir Laboratories

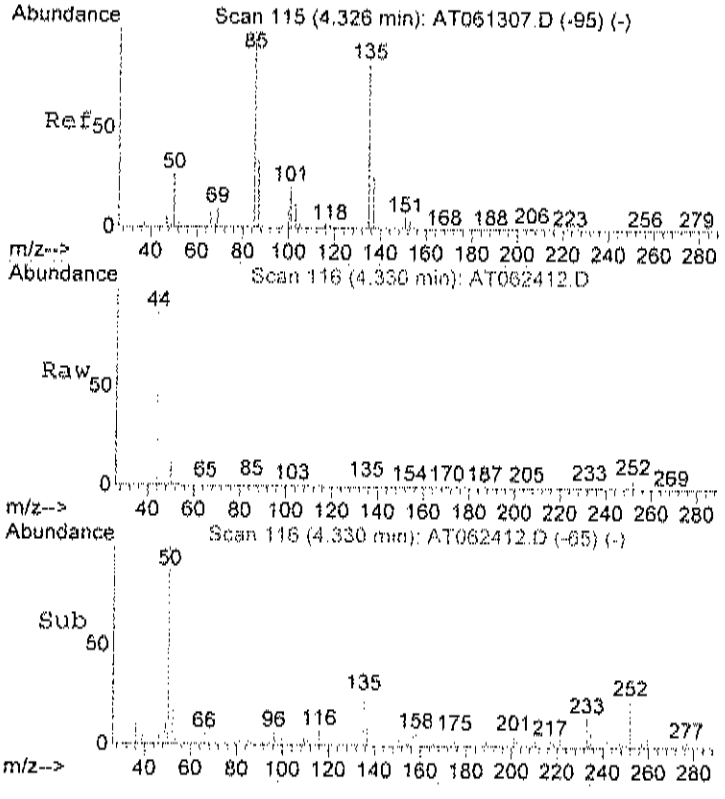


#3
Freon 12
Concen: 0.56 ppb
RT: 4.13 min Scan# 51
Delta R.T. 0.00 min
Lab File: AT062412.D
Acq: 24 Jun 2022 6:04 pm

Tgt Ion: 85 Resp: 79468

Ion	Ratio	Lower	Upper
85	100		
87	31.7	12.8	52.8

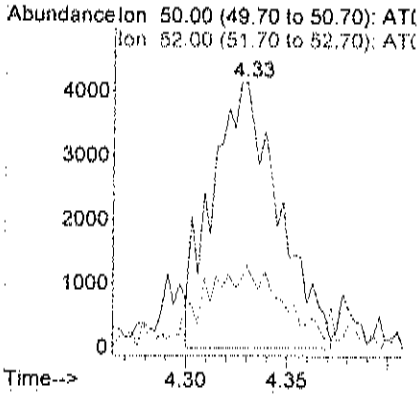


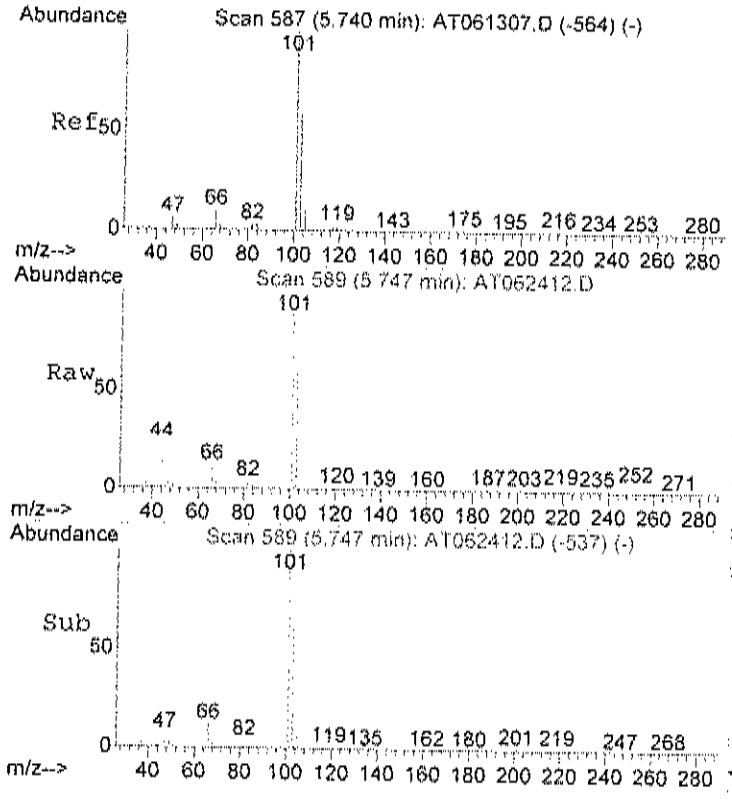


#4
Chloromethane
Concen: 0.27 ppb
RT: 4.33 min Scan# 116
Delta R.T. 0.00 min
Lab File: AT062412.D
Acq: 24 Jun 2022 6:04 pm

Tgt Ion: 50 Resp: 9567

Ion	Ratio	Lower	Upper
50	100		
52	35.9	2.7	42.7

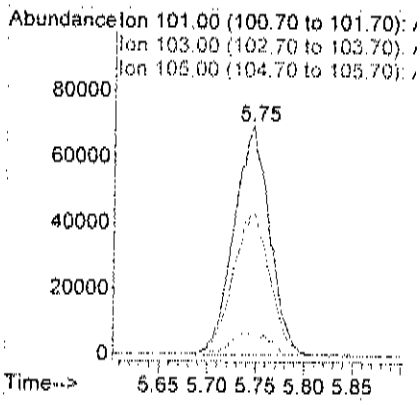


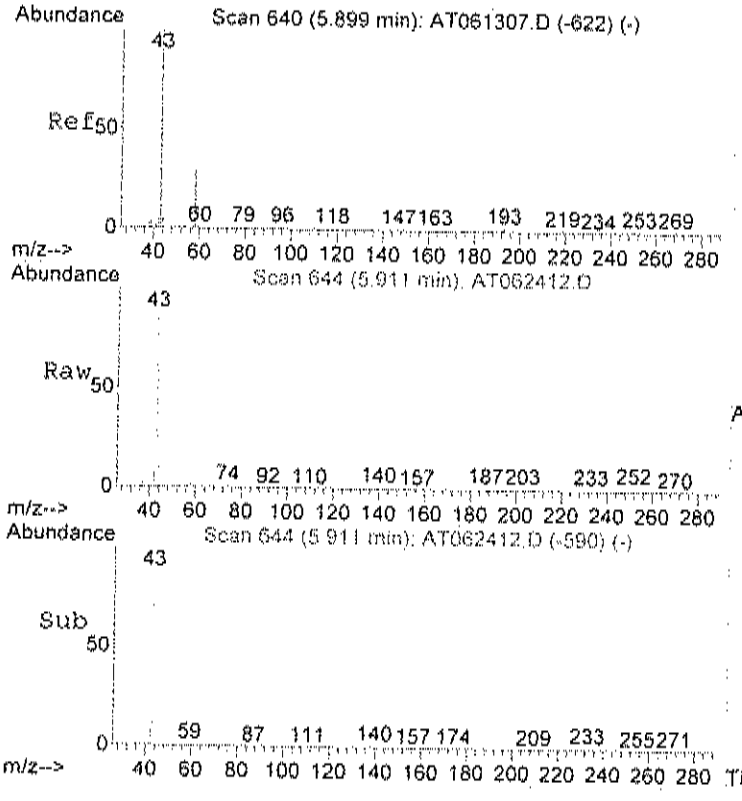


#14
Freon 11
Concen: 1.01 ppb
RT: 5.75 min Scan# 589
Delta R.T. 0.01 min
Lab File: AT062412.D
Acq: 24 Jun 2022 6:04 pm

Tgt Ion:101 Resp: 178495

Ion	Ratio	Lower	Upper
101	100		
103	65.3	46.3	86.3
105	11.2	0.0	31.2

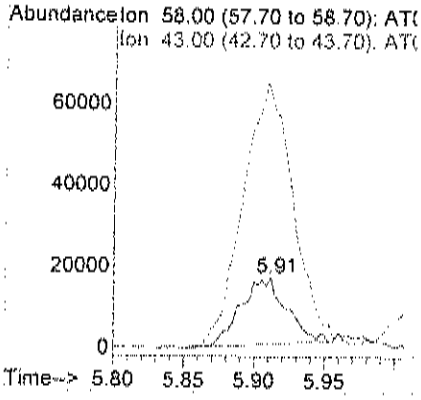


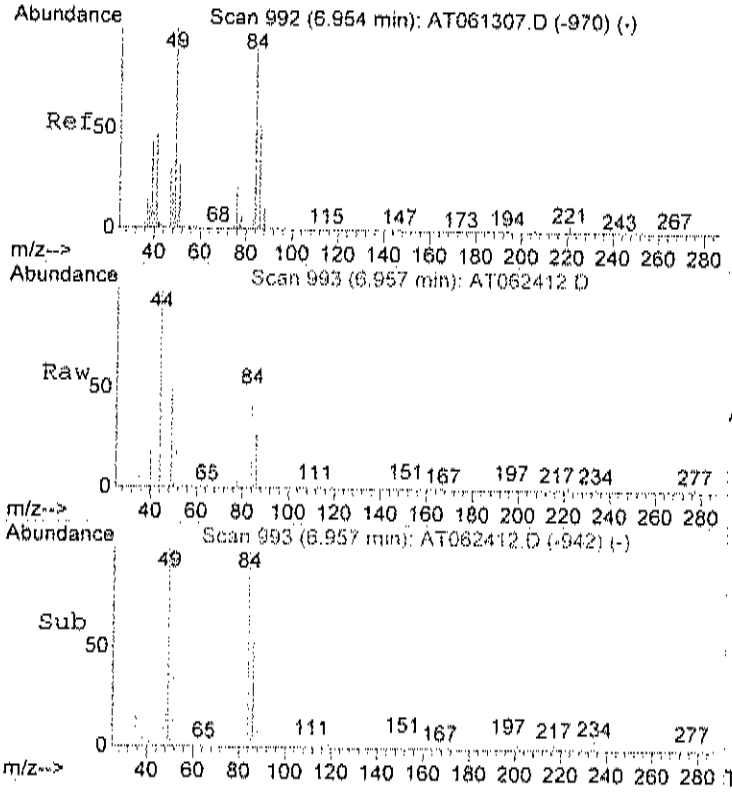


#15
Acetone
Concen: 2.06 ppb m
RT: 5.91 min Scan# 644
Delta R.T. 0.01 min
Lab File: AT062412.D
Acq: 24 Jun 2022 6:04 pm

Tgt Ion: 58 Resp: 36989

Ion	Ratio	Lower	Upper
58	100		
43	452.8	268.9	328.9#

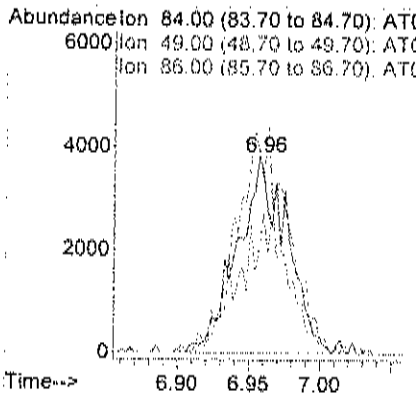


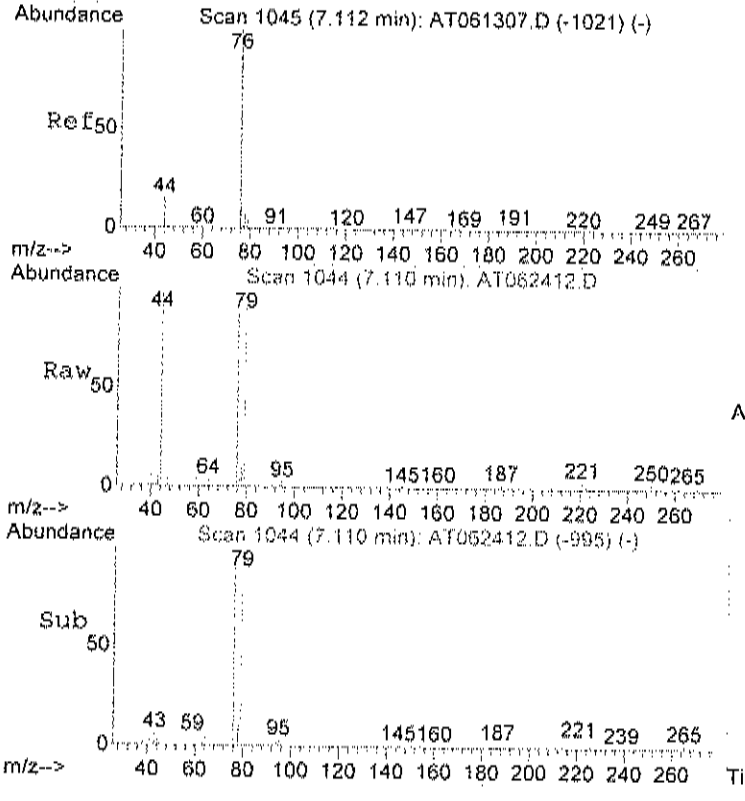


#21
Methylene chloride
Concen: 0.24 ppb
RT: 6.96 min Scan# 993
Delta R.T. 0.00 min
Lab File: AT062412.D
Acq: 24 Jun 2022 6:04 pm

Tgt Ion: 84 Resp: 9227

Ion	Ratio	Lower	Upper
84	100		
49	118.5	93.2	133.2
86	70.3	46.4	86.4

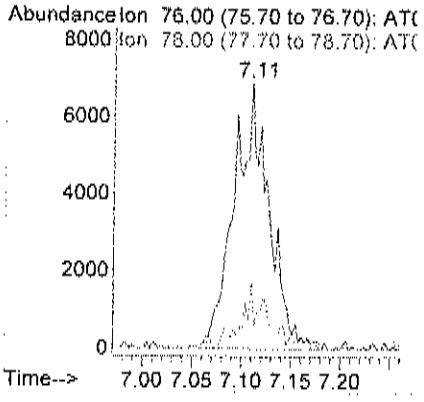


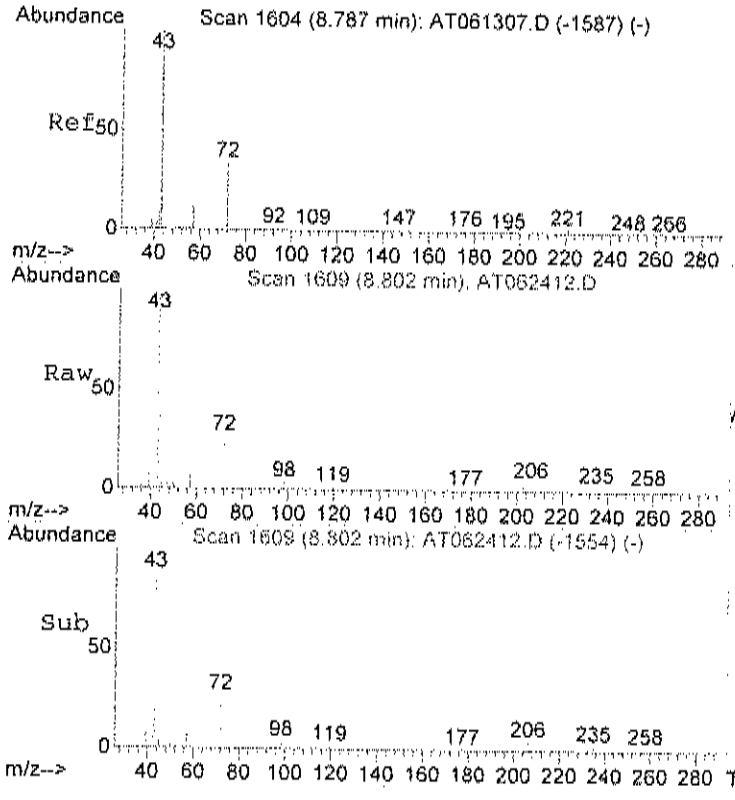


#23
Carbon disulfide
Concen: 0.14 ppb
RT: 7.11 min Scan# 1044
Delta R.T. -0.00 min
Lab File: AT062412.D
Acq: 24 Jun 2022 6:04 pm

Tgt Ion: 76 Resp: 16698

Ion	Ratio	Lower	Upper
76	100		
78	13.7	0.0	29.7

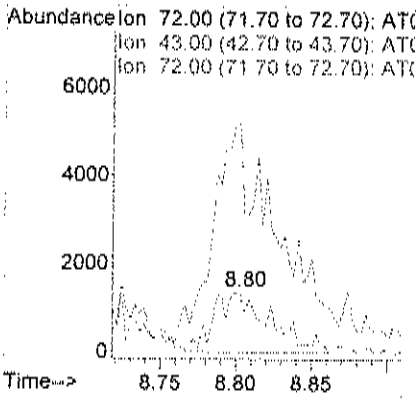


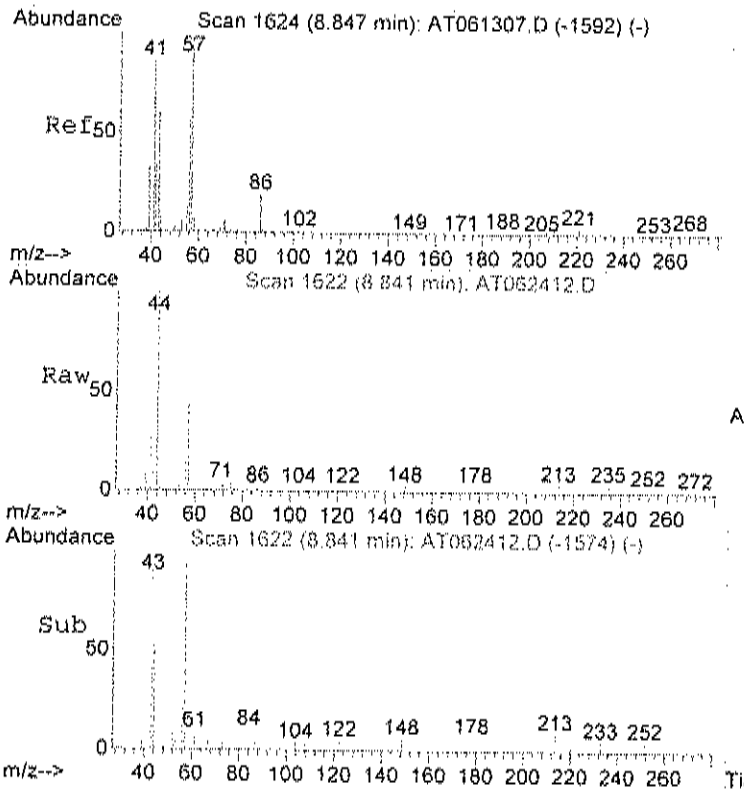


#28
Methyl Ethyl Ketone
Concen: 0.23 ppb
RT: 8.80 min Scan# 1609
Delta R.T. 0.02 min
Lab File: AT062412.D
Acq: 24 Jun 2022 6:04 pm

Tgt Ion: 72 Resp: 3543

Ion	Ratio	Lower	Upper
72	100		
43	458.3	0.0	20.0#
72	100.0	80.0	120.0

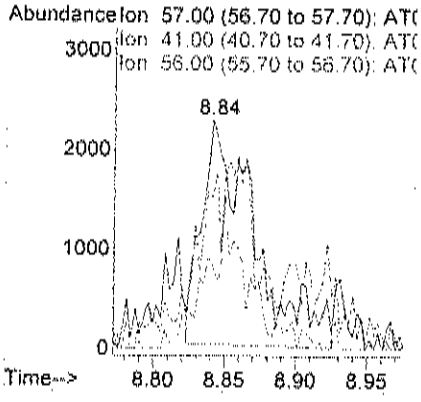


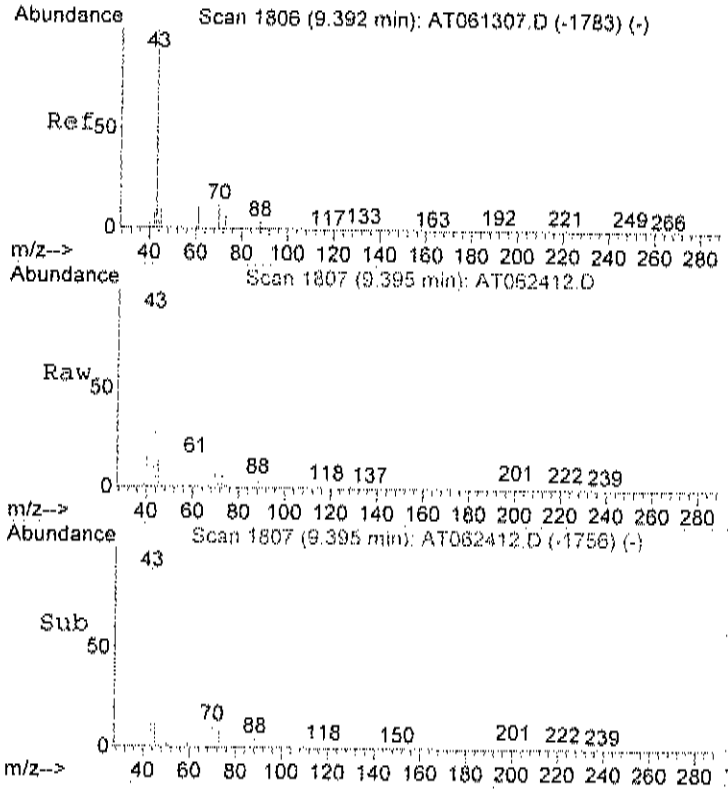


#30
Hexane
Concen: 0.13 ppb
RT: 8.84 min Scan# 1622
Delta R.T. -0.01 min
Lab File: AT062412.D
Acq: 24 Jun 2022 6:04 pm

Tgt Ion: 57 Resp: 5841

Ion	Ratio	Lower	Upper
57	100		
41	113.1	58.1	98.1#
56	48.4	28.7	68.7

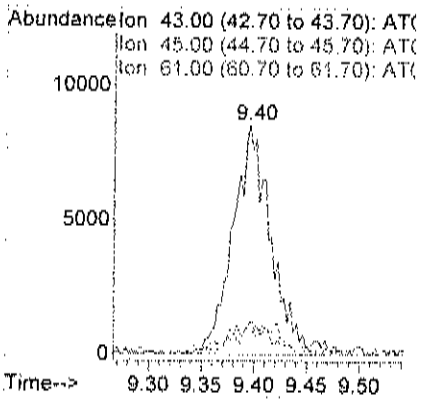


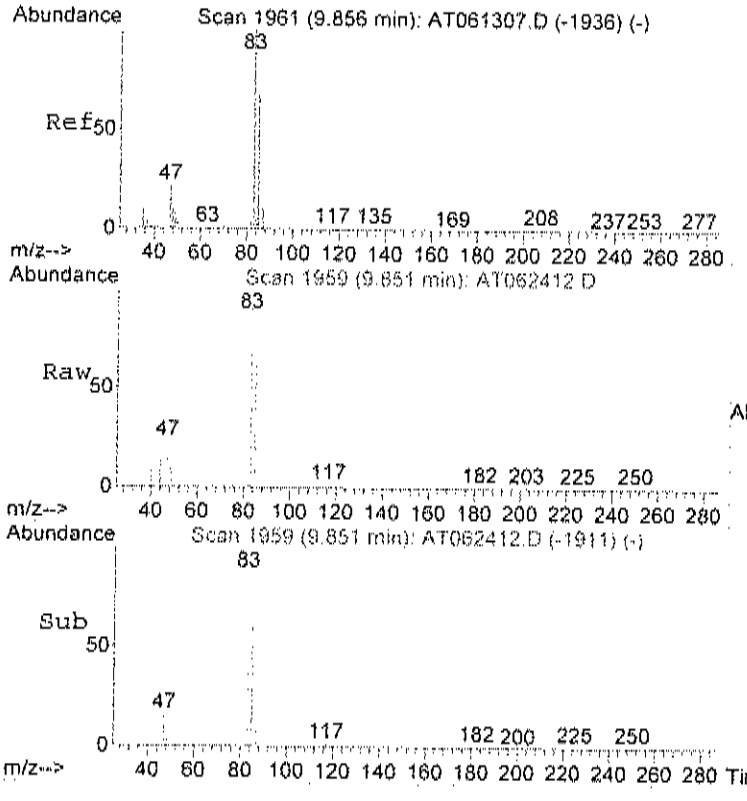


#31
Ethyl acetate
Concen: 0.30 ppb
RT: 9.40 min Scan# 1807
Delta R.T. 0.00 min
Lab File: AT062412.D
Acq: 24 Jun 2022 6:04 pm

Tgt Ion: 43 Resp: 21510

Ion	Ratio	Lower	Upper
43	100		
45	15.3	0.0	33.7
61	9.5	0.0	34.7

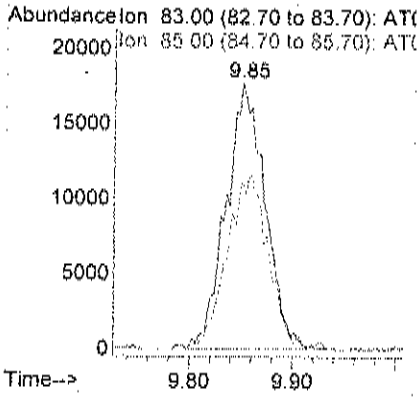


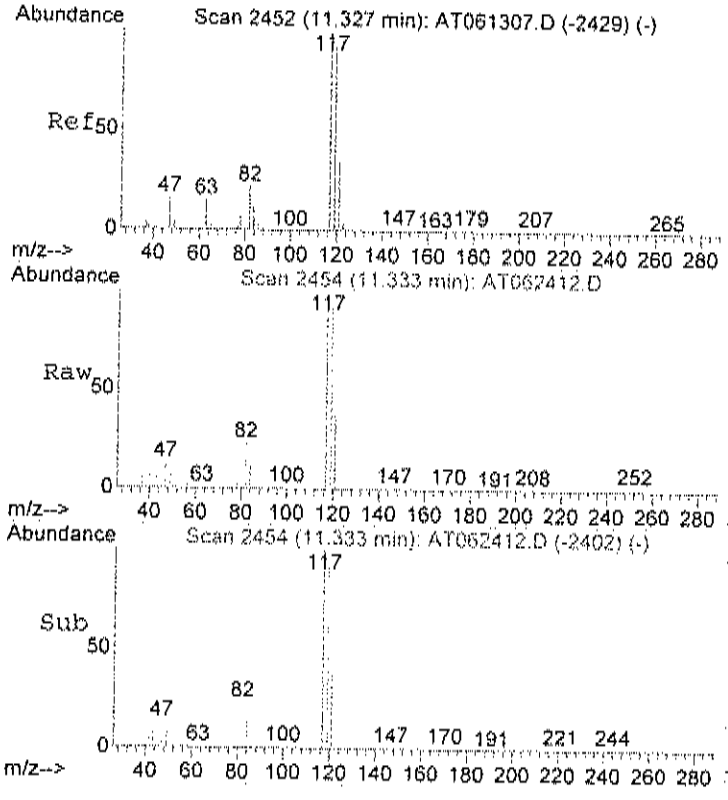


#32
Chloroform
Concen: 0.48 ppb
RT: 9.85 min Scan# 1959
Delta R.T. -0.01 min
Lab File: AT062412.D
Acq: 24 Jun 2022 6:04 pm

Tgt Ion: 83 Resp: 46737

Ion	Ratio	Lower	Upper
83	100		
85	68.9	46.5	86.5

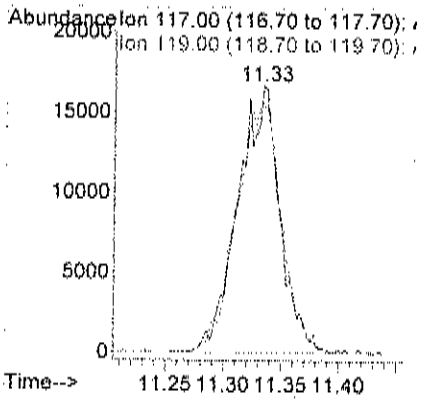


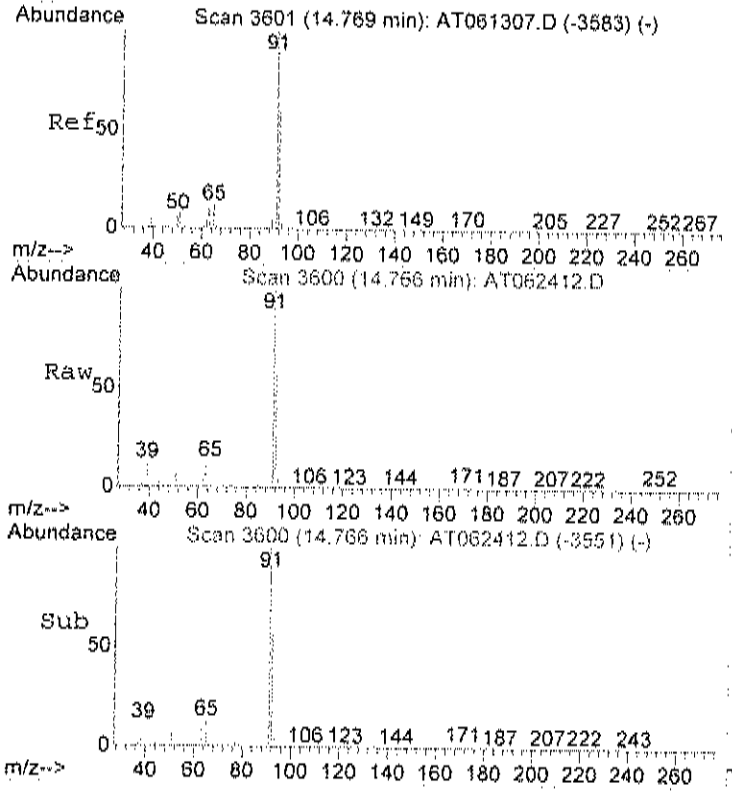


#38
Carbon tetrachloride
Concen: 0.47 ppb
RT: 11.33 min Scan# 2454
Delta R.T. 0.01 min
Lab File: AT062412.D
Acq: 24 Jun 2022 6:04 pm

Tgt Ion:117 Resp: 42348

Ion	Ratio	Lower	Upper
117	100		
119	101.2	77.2	117.2

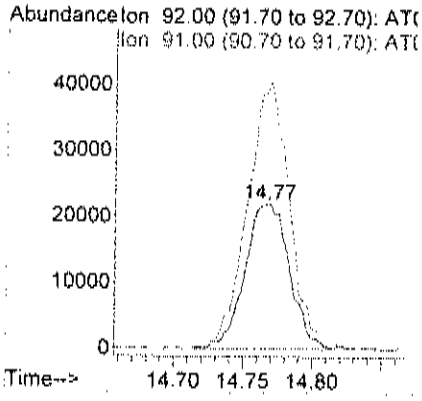


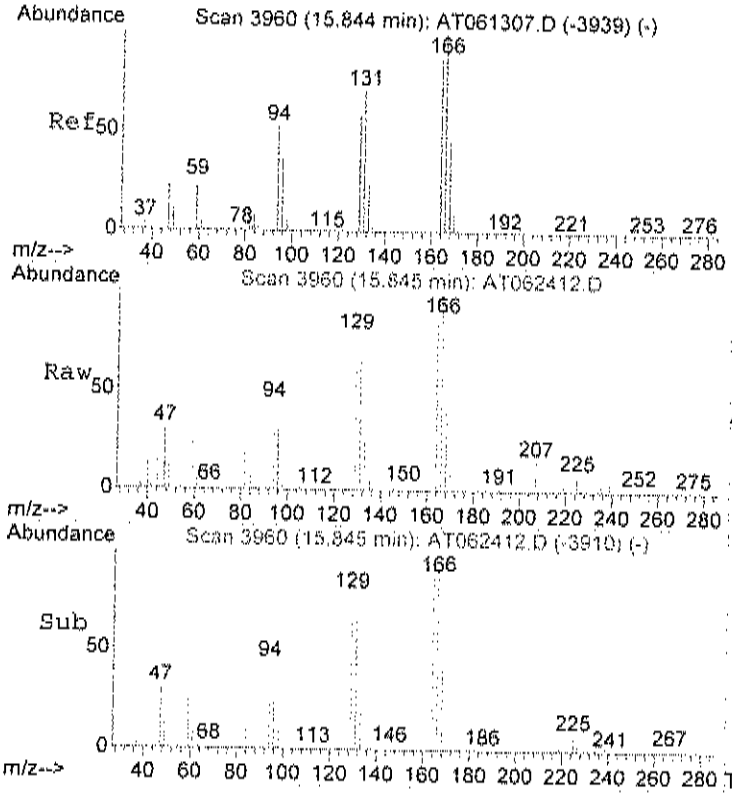


#51
Toluene
Concen: 0.67 ppb
RT: 14.77 min Scan# 3600
Delta R.T. -0.00 min
Lab File: AT062412.D
Acq: 24 Jun 2022 6:04 pm

Tgt Ion: 92 Resp: 49148

Ion	Ratio	Lower	Upper
92	100		
91	172.7	154.4	194.4

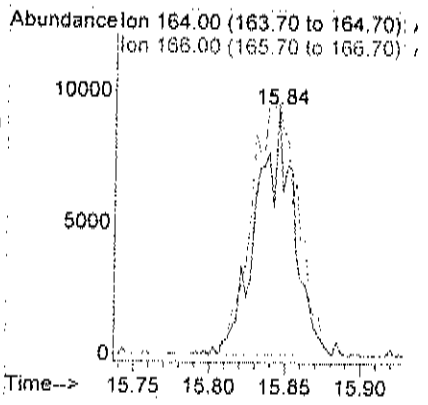


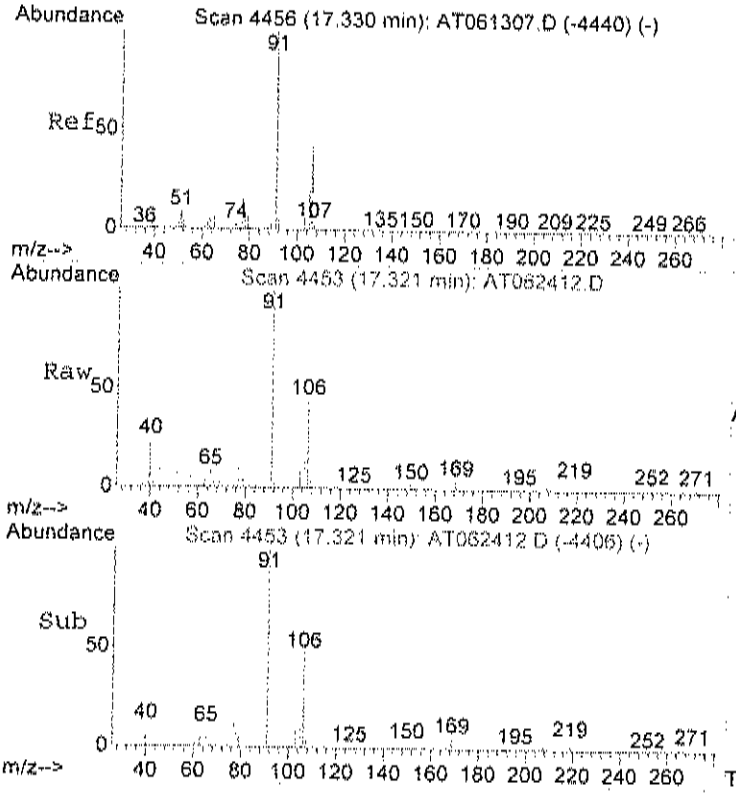


#56
Tetrachloroethylene
Concen: 0.29 ppb
RT: 15.84 min Scan# 3960
Delta R.T. 0.00 min
Lab File: AT062412.D
Acq: 24 Jun 2022 6:04 pm

Tgt Ion:164 Resp: 16144

Ion	Ratio	Lower	Upper
164	100		
166	128.4	107.7	147.7

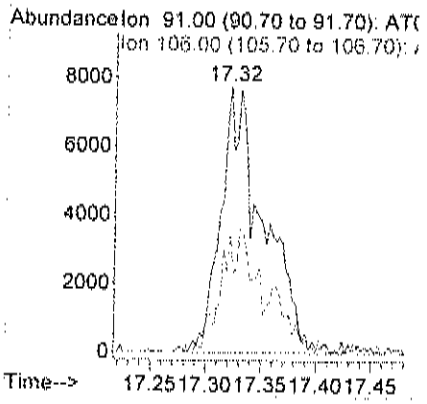




#59
m&p-xylene
Concen: 0.15 ppb
RT: 17.32 min Scan# 4453
Delta R.T. -0.01 min
Lab File: AT062412.D
Acq: 24 Jun 2022 6:04 pm

Tgt Ion: 91 Resp: 20798

Ion	Ratio	Lower	Upper
91	100		
106	47.1	27.9	67.9



Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-003A

Client Sample ID: SVW-2 MS/MSD
Tag Number: 1207,1346
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-6			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: NP
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/24/2022 1:51:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Acetone	19	3.0		ppbV	10	6/27/2022 2:02:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Benzene	0.35	0.15		ppbV	1	6/24/2022 1:51:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Carbon disulfide	0.10	0.15	J	ppbV	1	6/24/2022 1:51:00 PM
Carbon tetrachloride	0.35	0.15		ppbV	1	6/24/2022 1:51:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Chloroform	0.80	0.15		ppbV	1	6/24/2022 1:51:00 PM
Chloromethane	0.44	0.15		ppbV	1	6/24/2022 1:51:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-003A

Client Sample ID: SVW-2 MS/MSD
Tag Number: 1207,1346
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Ethyl acetate	0.33	0.15		ppbV	1	6/24/2022 1:51:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Freon 11	0.63	0.15		ppbV	1	6/24/2022 1:51:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Freon 12	0.50	0.15		ppbV	1	6/24/2022 1:51:00 PM
Heptane	0.17	0.15		ppbV	1	6/24/2022 1:51:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Hexane	0.21	0.15		ppbV	1	6/24/2022 1:51:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
m&p-Xylene	0.19	0.30	J	ppbV	1	6/24/2022 1:51:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 1:51:00 PM
Methyl Ethyl Ketone	0.31	0.30		ppbV	1	6/24/2022 1:51:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 1:51:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Methylene chloride	0.51	0.15		ppbV	1	6/24/2022 1:51:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Tetrachloroethylene	0.26	0.15		ppbV	1	6/24/2022 1:51:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Toluene	0.77	0.15		ppbV	1	6/24/2022 1:51:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Trichloroethene	0.23	0.15		ppbV	1	6/24/2022 1:51:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 1:51:00 PM
Surr: Bromofluorobenzene	92.0	46.7-129		%REC	1	6/24/2022 1:51:00 PM

Qualifiers:

- . Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-003A

Client Sample ID: SVW-2 MS/MSD
Tag Number: 1207,1346
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 1:51:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/24/2022 1:51:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 1:51:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 1:51:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 1:51:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/24/2022 1:51:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/24/2022 1:51:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/24/2022 1:51:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 1:51:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 1:51:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/24/2022 1:51:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/24/2022 1:51:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/24/2022 1:51:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 1:51:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 1:51:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/24/2022 1:51:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	6/24/2022 1:51:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/24/2022 1:51:00 PM
Acetone	45	7.1		ug/m3	10	6/27/2022 2:02:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/24/2022 1:51:00 PM
Benzene	1.1	0.48		ug/m3	1	6/24/2022 1:51:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/24/2022 1:51:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/24/2022 1:51:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/24/2022 1:51:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/24/2022 1:51:00 PM
Carbon disulfide	0.31	0.47	J	ug/m3	1	6/24/2022 1:51:00 PM
Carbon tetrachloride	2.2	0.94		ug/m3	1	6/24/2022 1:51:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/24/2022 1:51:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/24/2022 1:51:00 PM
Chloroform	3.9	0.73		ug/m3	1	6/24/2022 1:51:00 PM
Chloromethane	0.91	0.31		ug/m3	1	6/24/2022 1:51:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 1:51:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 1:51:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/24/2022 1:51:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/24/2022 1:51:00 PM
Ethyl acetate	1.2	0.54		ug/m3	1	6/24/2022 1:51:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	6/24/2022 1:51:00 PM
Freon 11	3.5	0.84		ug/m3	1	6/24/2022 1:51:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/24/2022 1:51:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/24/2022 1:51:00 PM

Qualifiers:

- . Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-003A

Client Sample ID: SVW-2 MS/MSD
Tag Number: 1207,1346
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.5	0.74		ug/m3	1	6/24/2022 1:51:00 PM
Heptane	0.70	0.61		ug/m3	1	6/24/2022 1:51:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/24/2022 1:51:00 PM
Hexane	0.74	0.53		ug/m3	1	6/24/2022 1:51:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/24/2022 1:51:00 PM
m&p-Xylene	0.82	1.3	J	ug/m3	1	6/24/2022 1:51:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 1:51:00 PM
Methyl Ethyl Ketone	0.91	0.88		ug/m3	1	6/24/2022 1:51:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 1:51:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/24/2022 1:51:00 PM
Methylene chloride	1.8	0.52		ug/m3	1	6/24/2022 1:51:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	6/24/2022 1:51:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/24/2022 1:51:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/24/2022 1:51:00 PM
Tetrachloroethylene	1.8	1.0		ug/m3	1	6/24/2022 1:51:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/24/2022 1:51:00 PM
Toluene	2.9	0.57		ug/m3	1	6/24/2022 1:51:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 1:51:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 1:51:00 PM
Trichloroethene	1.2	0.81		ug/m3	1	6/24/2022 1:51:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/24/2022 1:51:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/24/2022 1:51:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/24/2022 1:51:00 PM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062408.D
Acq On : 24 Jun 2022 1:51 pm
Sample : C2206048-003A
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 27 11:09:28 2022

Vial: 8
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.69	128	32327	1.00	ppb		0.00
35) 1,4-difluorobenzene	12.00	114	147054	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	128672	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	86204	0.92	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 92.00%				
Target Compounds							Qvalue
3) Freon 12	4.14	85	73735	0.50	ppb		99
4) Chloromethane	4.33	50	16090	0.44	ppb		74
14) Freon 11	5.75	101	115642	0.63	ppb		97
15) Acetone	5.90	58	158975	8.46	ppb	#	66
21) Methylene chloride	6.96	84	20828	0.51	ppb		96
23) Carbon disulfide	7.12	76	12431	0.10	ppb		95
28) Methyl Ethyl Ketone	8.80	72	4906	0.31	ppb	#	100
30) Hexane	8.84	57	10304m	0.21	ppb		
31) Ethyl acetate	9.39	43	24733	0.33	ppb		96
32) Chloroform	9.86	83	80648	0.80	ppb		97
38) Carbon tetrachloride	11.33	117	34536	0.35	ppb		98
39) Benzene	11.29	78	36607	0.35	ppb		94
43) Heptane	12.52	43	8469	0.17	ppb	#	59
44) Trichloroethene	12.64	130	13279	0.23	ppb		96
51) Toluene	14.77	92	58245	0.77	ppb		95
56) Tetrachloroethylene	15.84	164	15507	0.26	ppb		100
59) m&p-xylene	17.33	91	27476	0.19	ppb		98

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

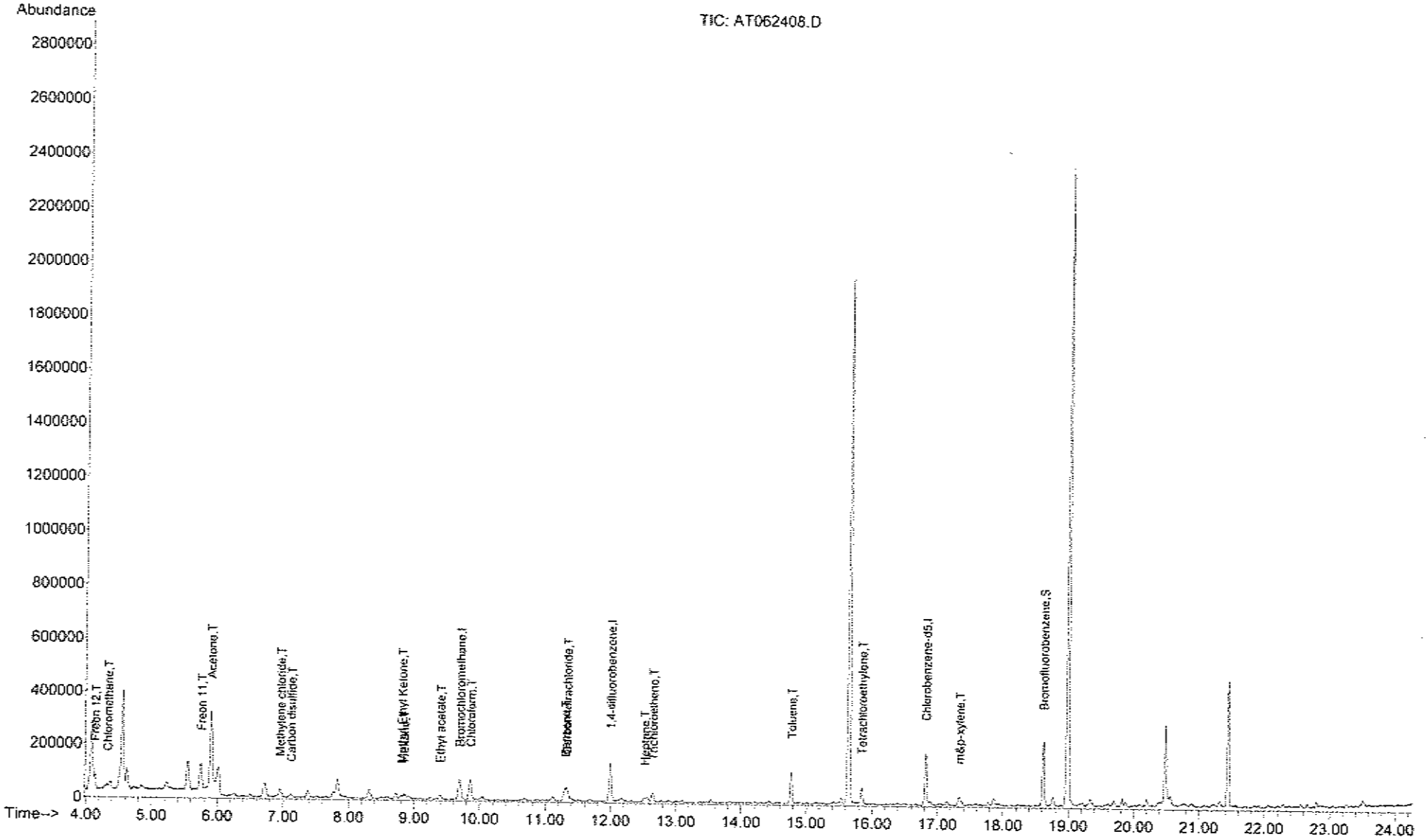
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062408.D
Acq On : 24 Jun 2022 1:51 pm
Sample : C2206048-003A
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 28 13:35 2022

Vial: 8
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

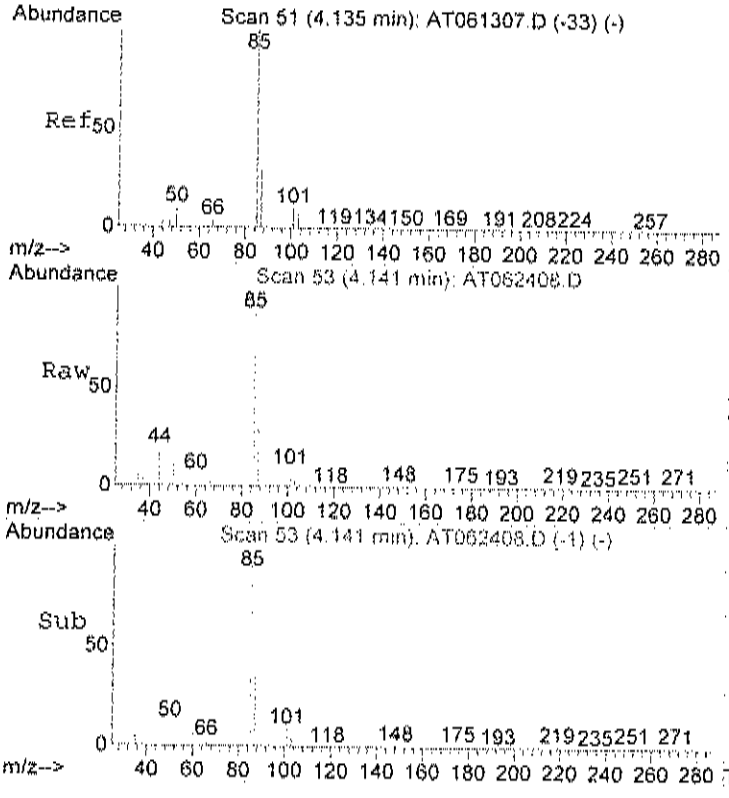
Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



AT062408.D A613_1UG.M Thu Jul 07 07:34:27 2022 MSD1

Page 2

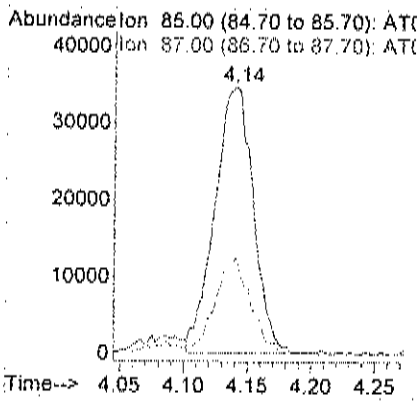
Centek/SanAir Laboratories

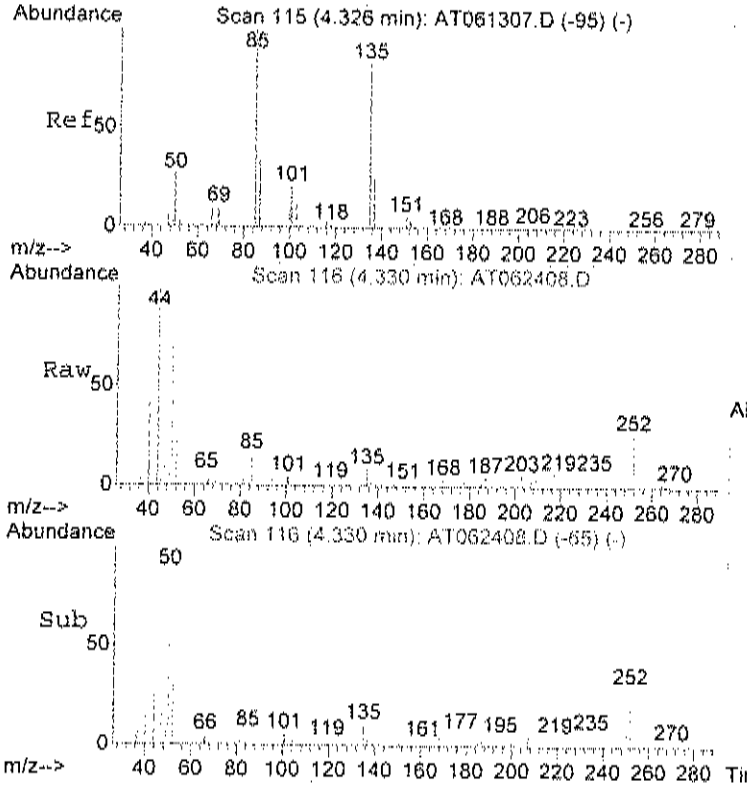


#3
Freon 12
Concen: 0.50 ppb
RT: 4.14 min Scan# 53
Delta R.T. 0.01 min
Lab File: AT062408.D
Acq: 24 Jun 2022 1:51 pm

Tgt Ion: 85 Resp: 73735

Ion	Ratio	Lower	Upper
85	100		
87	32.4	12.8	52.8

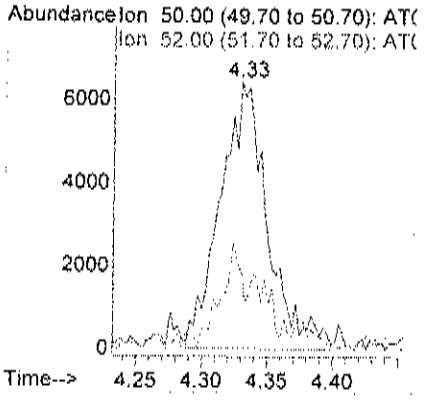


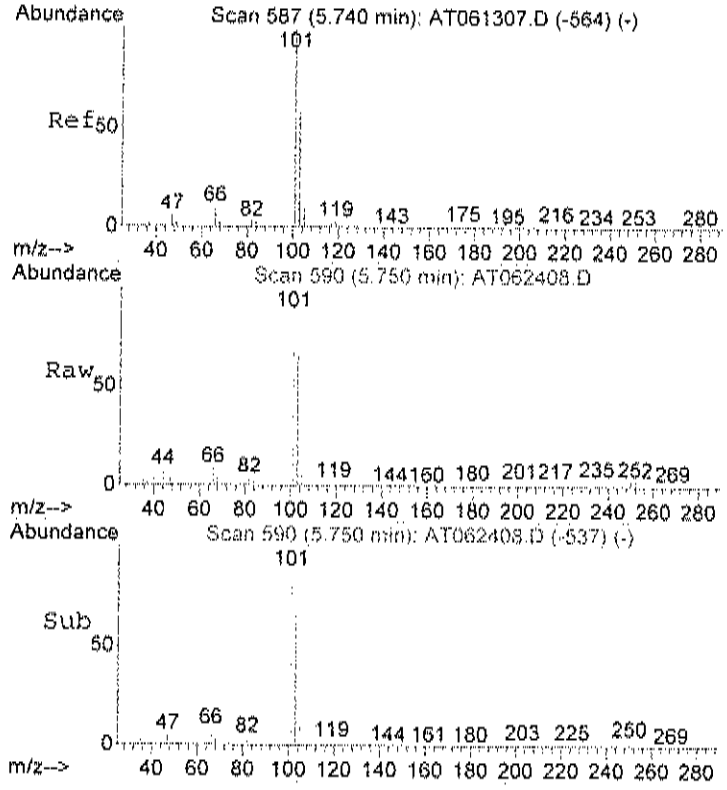


#4
Chloromethane
Concen: 0.44 ppb
RT: 4.33 min Scan# 116
Delta R.T. 0.00 min
Lab File: AT062408.D
Acq: 24 Jun 2022 1:51 pm

Tgt Ion: 50 Resp: 16090

Ion	Ratio	Lower	Upper
50	100		
52	35.1	2.7	42.7

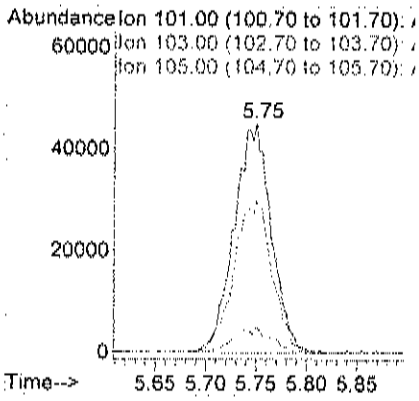


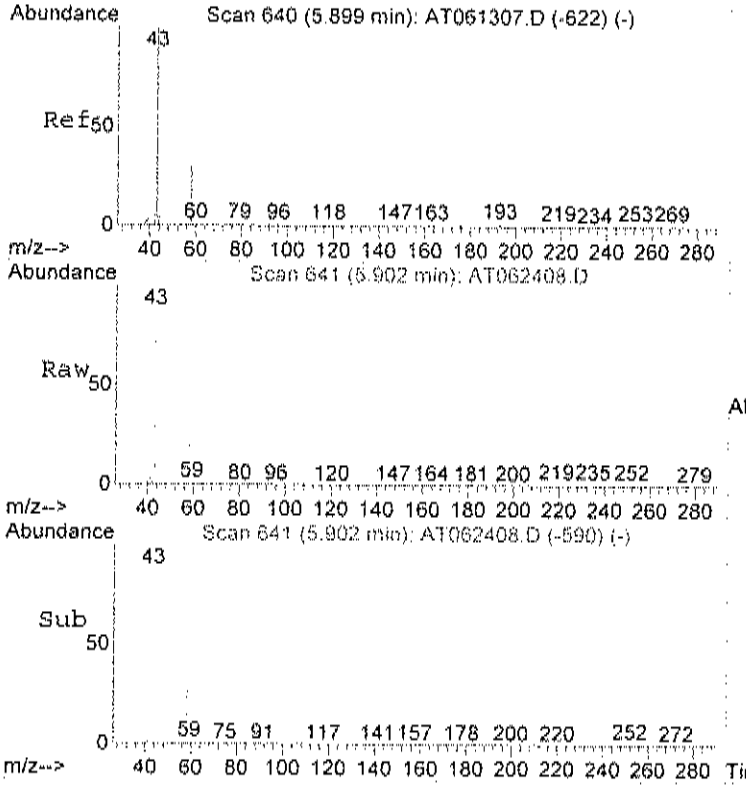


#14
Freon 11
Concen: 0.63 ppb
RT: 5.75 min Scan# 590
Delta R.T. 0.01 min
Lab File: AT062408.D
Acq: 24 Jun 2022 1:51 pm

Tgt Ion:101 Resp: 115642

Ion	Ratio	Lower	Upper
101	100		
103	68.7	46.3	86.3
105	11.1	0.0	31.2

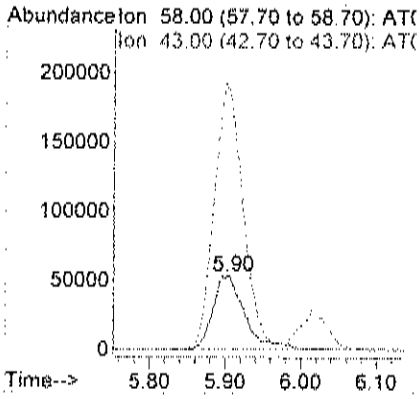


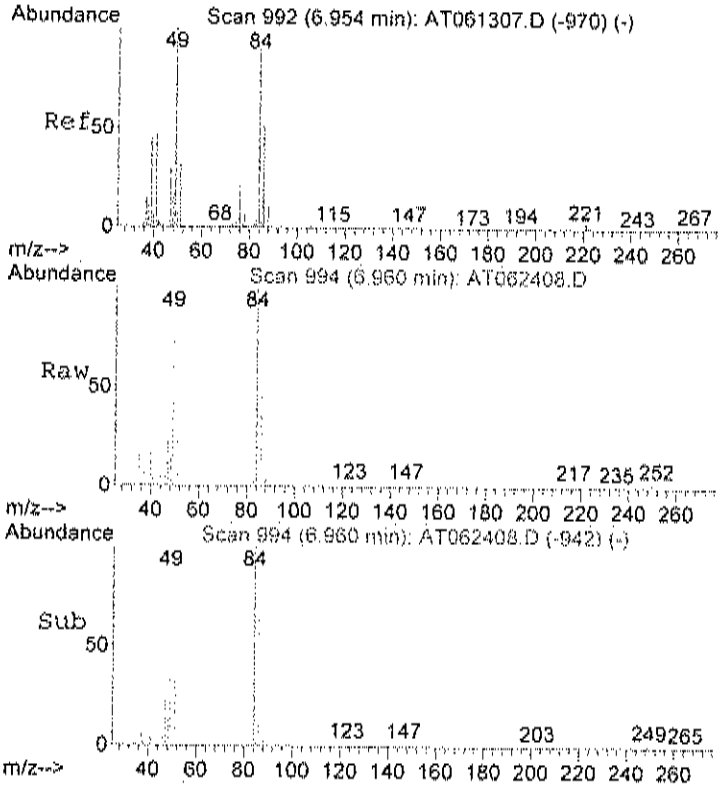


#15
Acetone
Concen: 8.46 ppb
RT: 5.90 min Scan# 641
Delta R.T. 0.00 min
Lab File: AT062408.D
Acq: 24 Jun 2022 1:51 pm

Tgt Ion: 58 Resp: 158975

Ion	Ratio	Lower	Upper
58	100		
43	365.6	268.9	328.9#

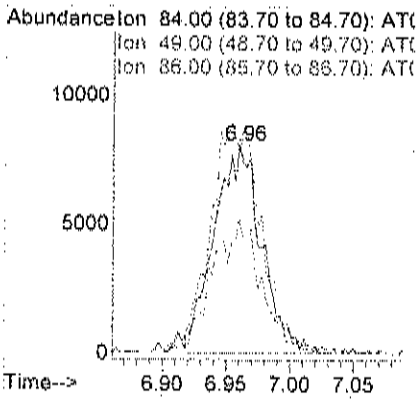


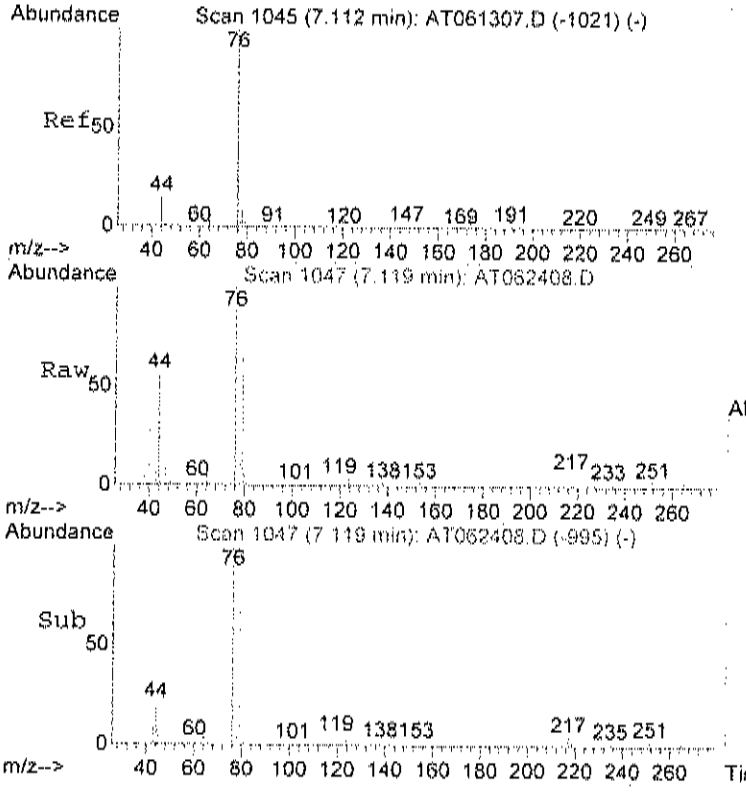


#21
Methylene chloride
Concen: 0.51 ppb
RT: 6.96 min Scan# 994
Delta R.T. 0.01 min
Lab File: AT062408.D
Acq: 24 Jun 2022 1:51 pm

Tgt Ion: 84 Resp: 20828

Ion	Ratio	Lower	Upper
84	100		
49	119.3	93.2	133.2
86	66.3	46.4	86.4

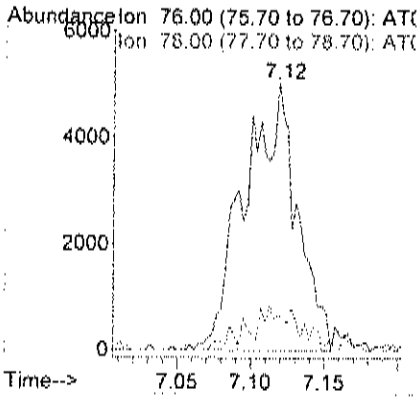


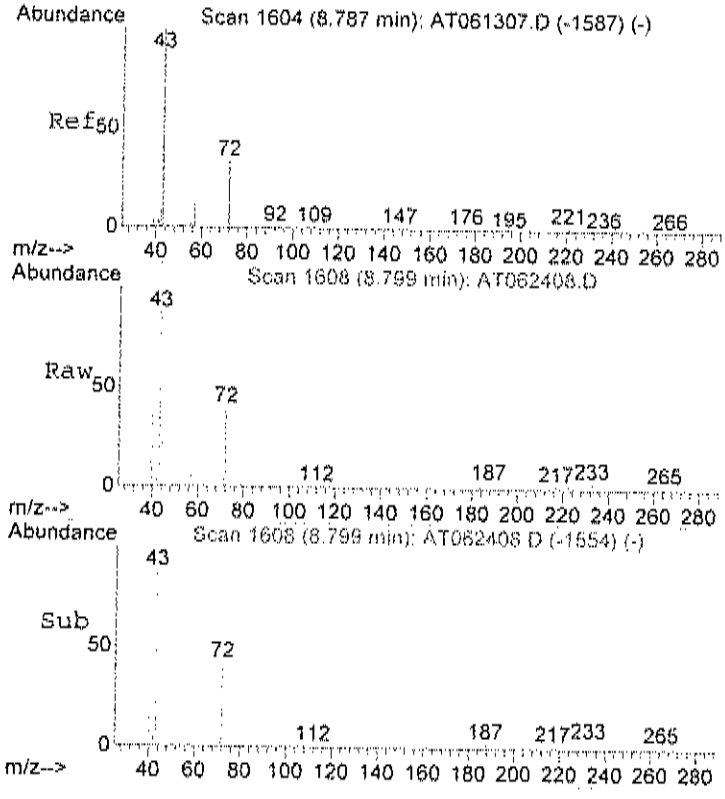


#23
Carbon disulfide
Concen: 0.10 ppb
RT: 7.12 min Scan# 1047
Delta R.T. 0.01 min
Lab File: AT062408.D
Acq: 24 Jun 2022 1:51 pm

Tgt Ion: 76 Resp: 12431

Ion	Ratio	Lower	Upper
76	100		
78	11.6	0.0	29.7

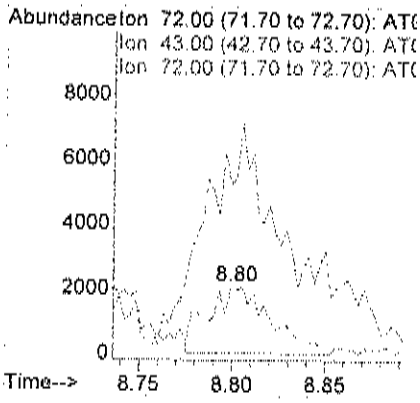


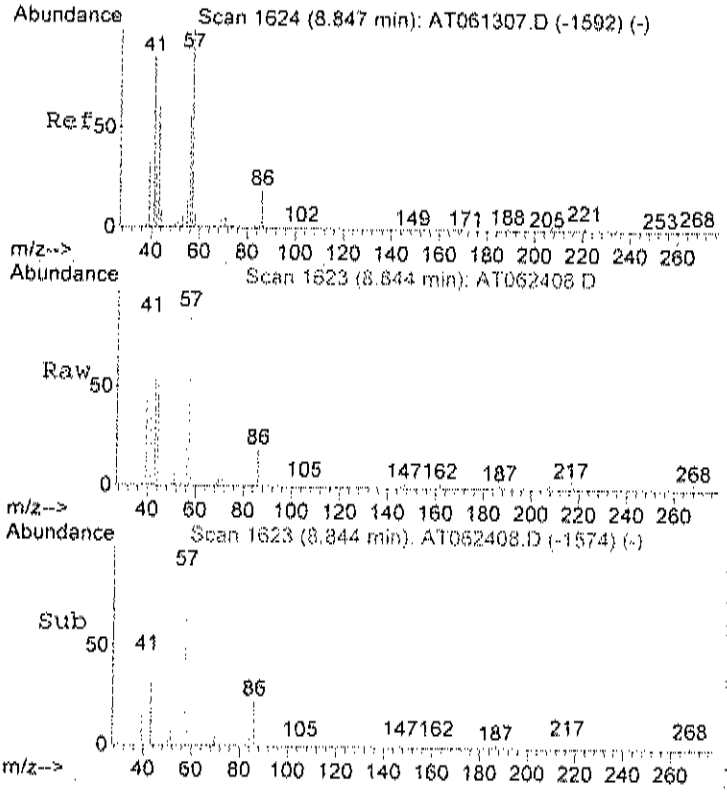


#28
Methyl Ethyl Ketone
Concen: 0.31 ppb
RT: 8.80 min Scan# 1608
Delta R.T. 0.01 min
Lab File: AT062408.D
Acq: 24 Jun 2022 1:51 pm

Tgt Ion: 72 Resp: 4906

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

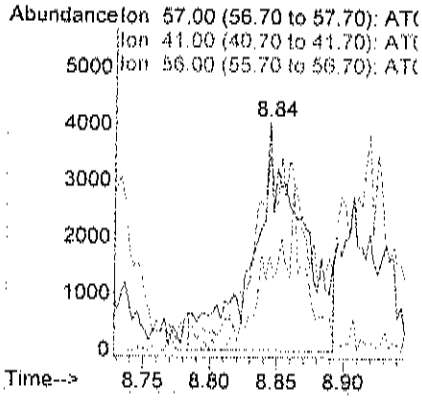


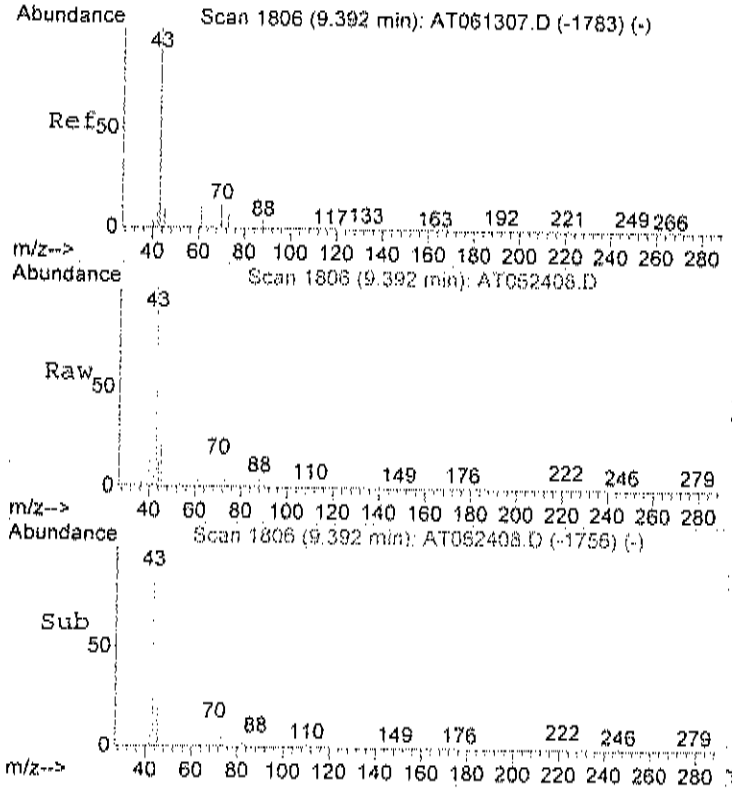


#30
Hexane
Concen: 0.21 ppb m
RT: 8.84 min Scan# 1623
Delta R.T. -0.00 min
Lab File: AT062408.D
Acq: 24 Jun 2022 1:51 pm

Tgt Ion: 57 Resp: 10304

Ion	Ratio	Lower	Upper
57	100		
41	0.0	58.1	98.1#
56	48.8	28.7	68.7

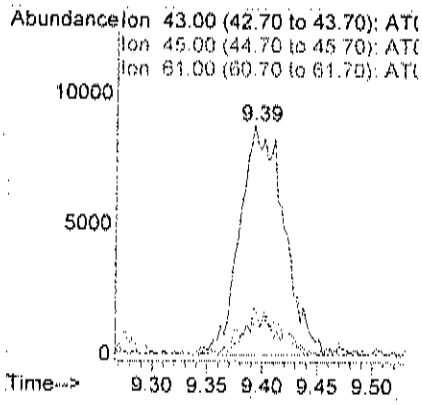


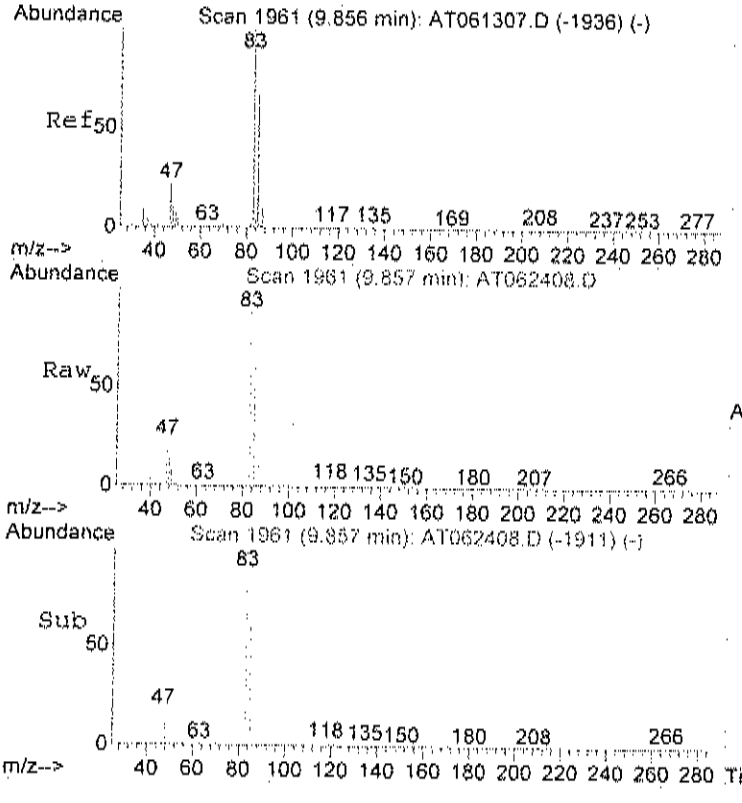


#31
Ethyl acetate
Concen: 0.33 ppb
RT: 9.39 min Scan# 1806
Delta R.T. 0.00 min
Lab File: AT062408.D
Acq: 24 Jun 2022 1:51 pm

Tgt Ion: 43 Resp: 24733

Ion	Ratio	Lower	Upper
43	100		
45	16.1	0.0	33.7
61	13.6	0.0	34.7

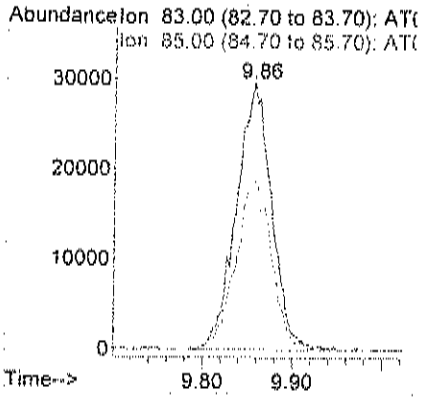


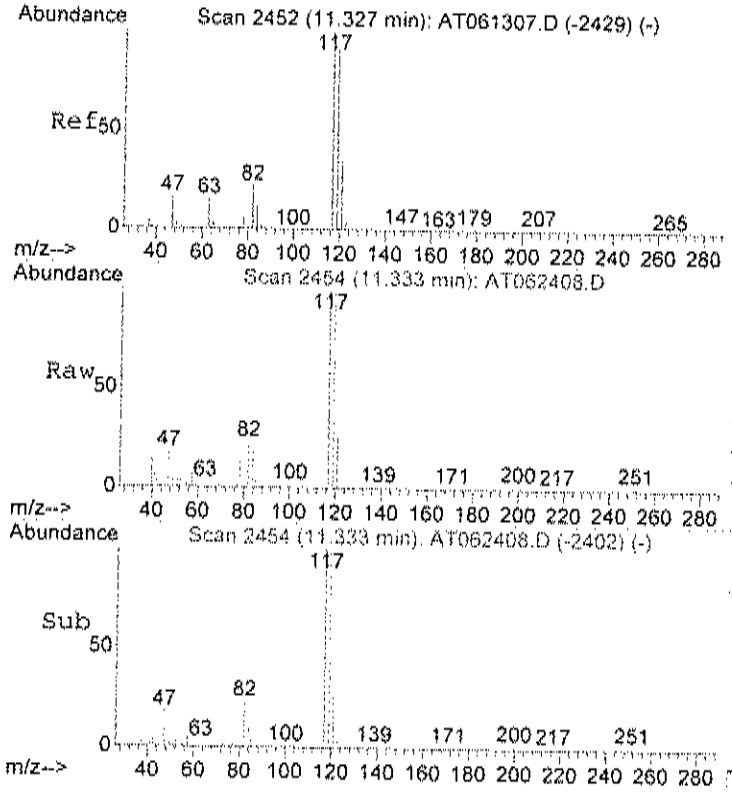


#32
Chloroform
Concen: 0.80 ppb
RT: 9.86 min Scan# 1961
Delta R.T. 0.00 min
Lab File: AT062408.D
Acq: 24 Jun 2022 1:51 pm

Tgt Ion: 83 Resp: 80648

Ion	Ratio	Lower	Upper
83	100		
85	64.3	46.5	86.5

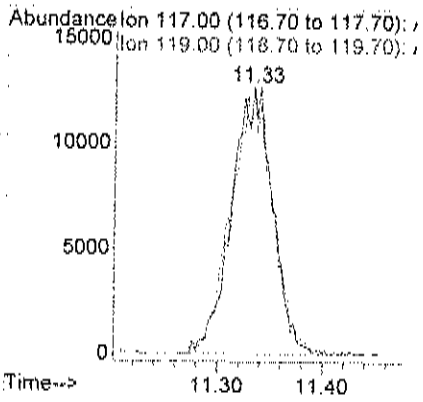


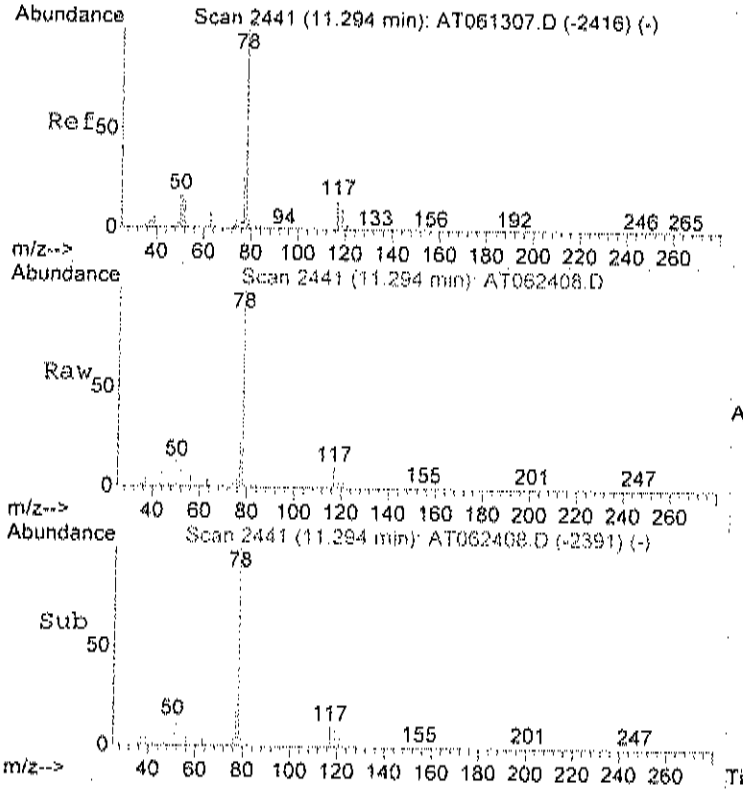


#38
Carbon tetrachloride
Concen: 0.35 ppb
RT: 11.33 min Scan# 2454
Delta R.T. 0.01 min
Lab File: AT062408.D
Acq: 24 Jun 2022 1:51 pm

Tgt Ion:117 Resp: 34536

Ion	Ratio	Lower	Upper
117	100		
119	99.5	77.2	117.2

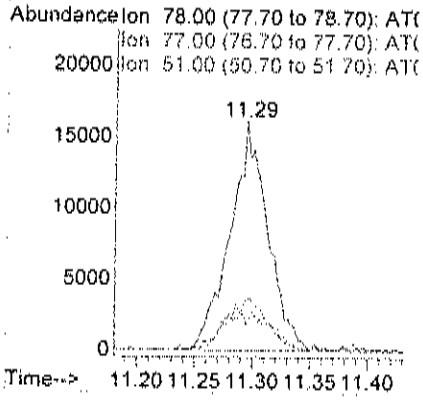


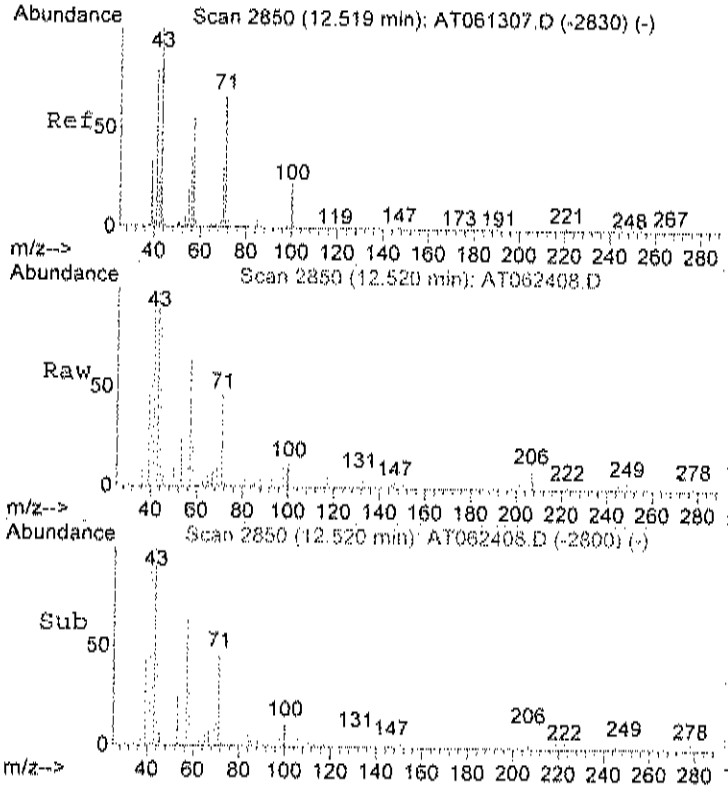


#39
Benzene
Concen: 0.35 ppb
RT: 11.29 min Scan# 2441
Delta R.T. 0.00 min
Lab File: AT062408.D
Acq: 24 Jun 2022 1:51 pm

Tgt Ion: 78 Resp: 36607

Ion	Ratio	Lower	Upper
78	100		
77	25.8	3.1	43.1
51	20.8	0.0	37.8

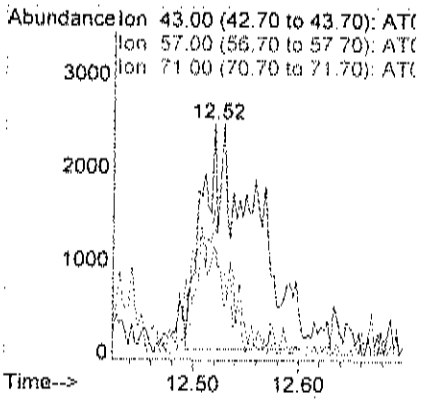


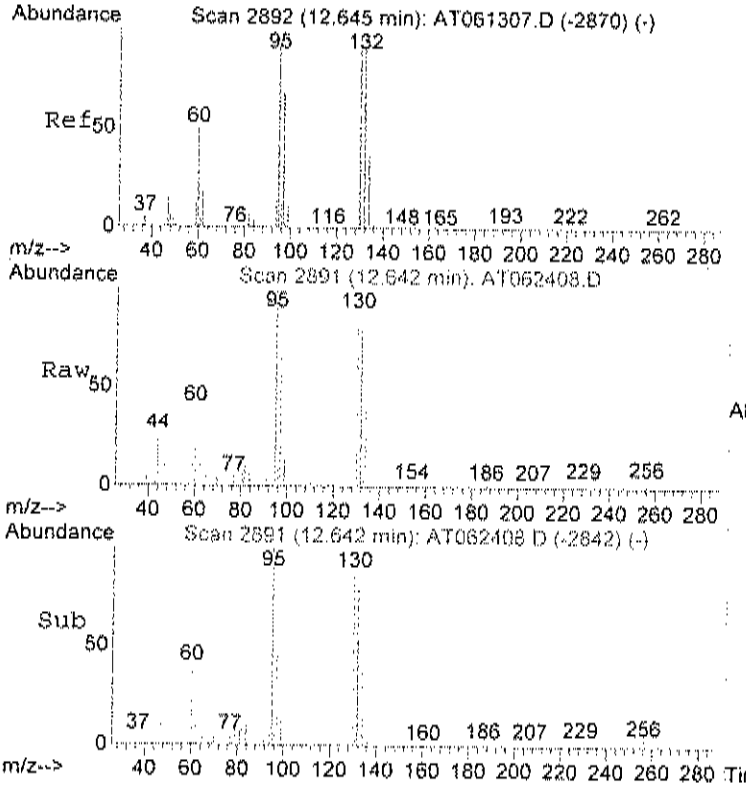


#43
Heptane
Concen: 0.17 ppb
RT: 12.52 min Scan# 2850
Delta R.T. 0.00 min
Lab File: AT062408.D
Acq: 24 Jun 2022 1:51 pm

Tgt Ion: 43 Resp: 8469

Ion	Ratio	Lower	Upper
43	100		
57	41.8	41.7	81.7
71	28.6	53.4	93.4#

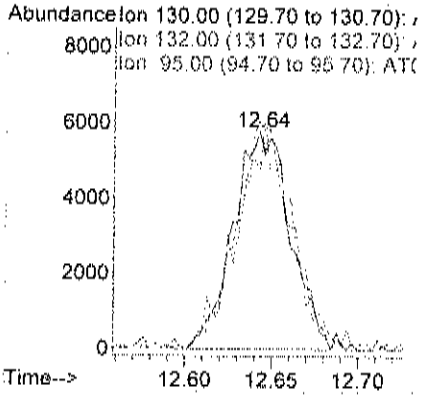


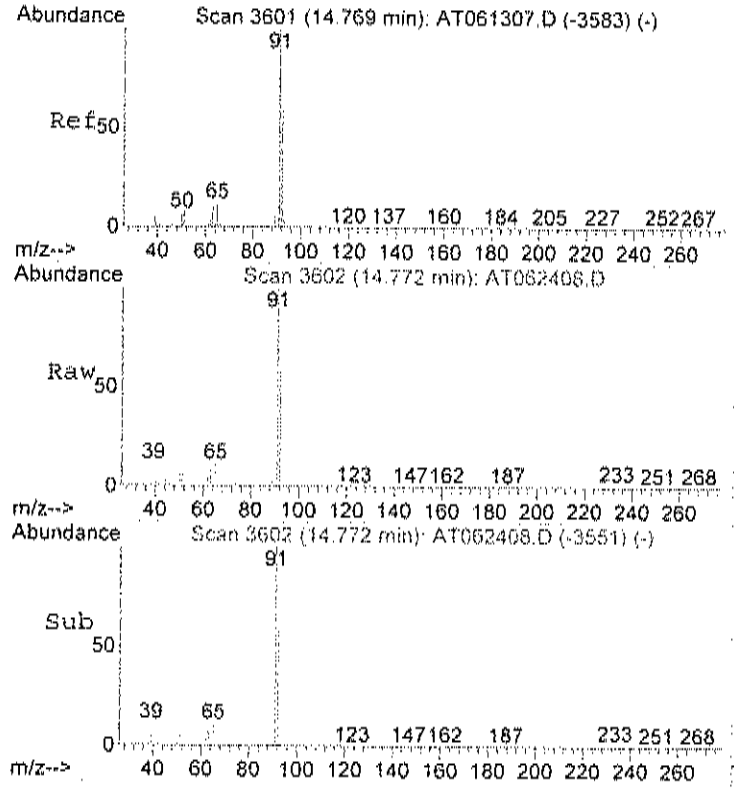


#44
Trichloroethene
Concen: 0.23 ppb
RT: 12.64 min Scan# 2891
Delta R.T. -0.00 min
Lab File: AT062408.D
Acq: 24 Jun 2022 1:51 pm

Tgt Ion:130 Resp: 13279

Ion	Ratio	Lower	Upper
130	100		
132	95.7	76.7	116.7
95	101.6	74.7	114.7

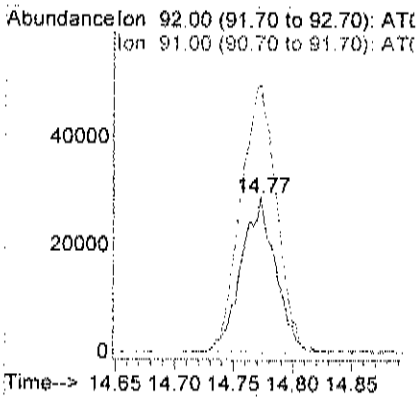


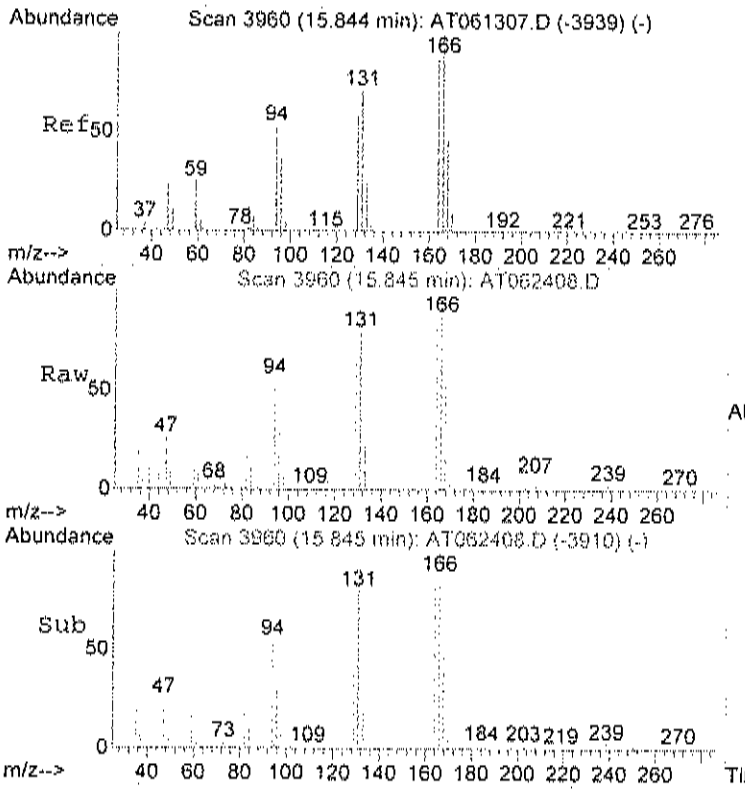


#51
Toluene
Concen: 0.77 ppb
RT: 14.77 min Scan# 3602
Delta R.T. 0.00 min
Lab File: AT062408.D
Acq: 24 Jun 2022 1:51 pm

Tgt Ion: 92 Resp: 58245

Ion	Ratio	Lower	Upper
92	100		
91	181.1	154.4	194.4

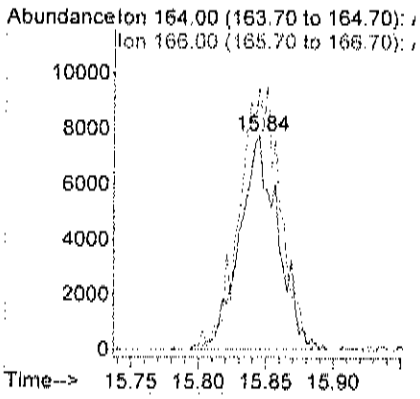


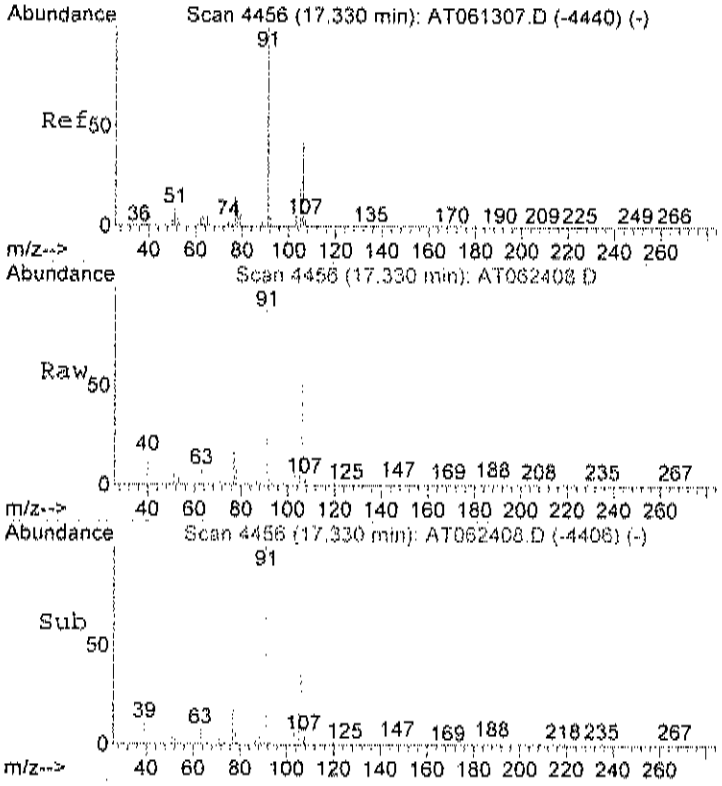


#56
Tetrachloroethylene
Concen: 0.26 ppb
RT: 15.84 min Scan# 3960
Delta R.T. 0.00 min
Lab File: AT062408.D
Acq: 24 Jun 2022 1:51 pm

Tgt Ion:164 Resp: 15507

Ion	Ratio	Lower	Upper
164	100		
166	127.4	107.7	147.7

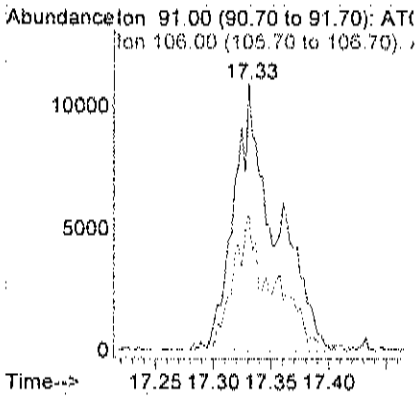




#59
m&p-xylene
Concen: 0.19 ppb
RT: 17.33 min Scan# 4456
Delta R.T. 0.00 min
Lab File: AT062408.D
Acq: 24 Jun 2022 1:51 pm

Tgt Ion: 91 Resp: 27476

Ion	Ratio	Lower	Upper
91	100		
106	49.2	27.9	67.9



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062706.D
Acq On : 27 Jun 2022 2:02 pm
Sample : C2206048-003A 10X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 28 07:18:25 2022

Vial: 6
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.69	128	34657	1.00	ppb	0.00
35) 1,4-difluorobenzene	11.99	114	157555	1.00	ppb	-0.01
50) Chlorobenzene-d5	16.82	117	134536	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.61	95	84692	0.87	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 87.00%			
Target Compounds						Qvalue
15) Acetone	5.91	58	37955m	1.88	ppb	

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

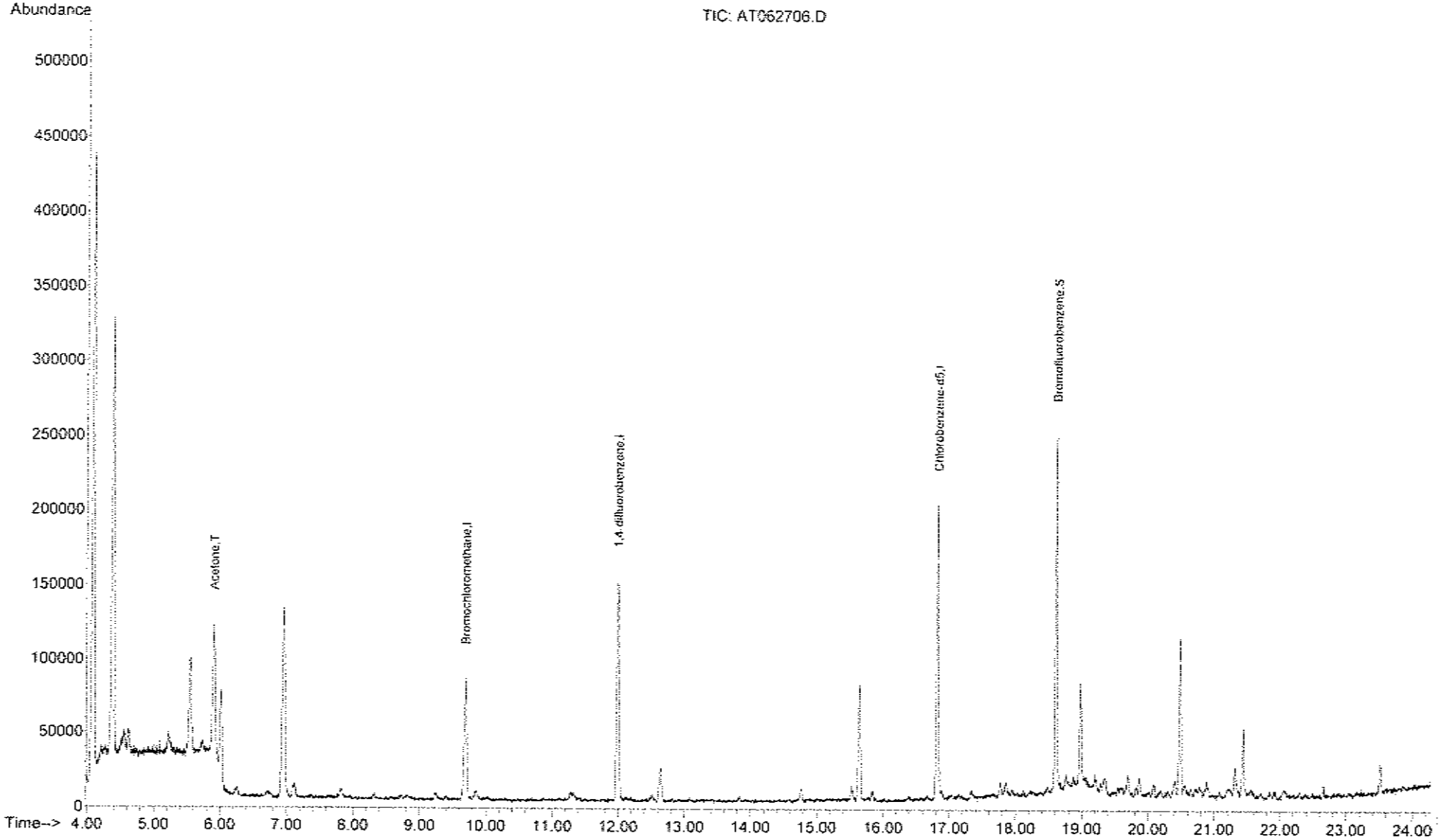
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062706.D
Acq On : 27 Jun 2022 2:02 pm
Sample : C2206048-003A 10X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 29 11:05 2022

Vial: 6
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

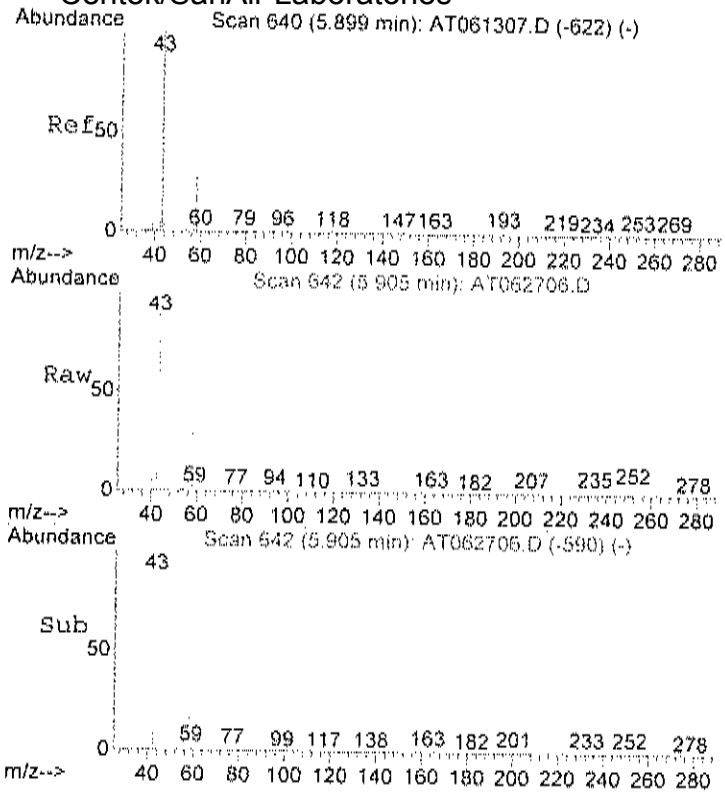
Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



AT062706.D A613_1UG.M Thu Jul 07 07:39:08 2022 MSD1 Page 2

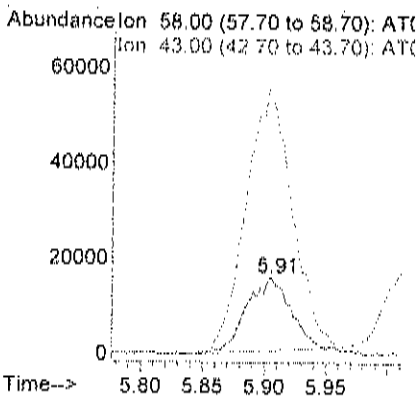
Centek/SanAir Laboratories



#15
Acetone
Concen: 1.88 ppb m
RT: 5.91 min Scan# 642
Delta R.T. 0.01 min
Lab File: AT062706.D
Acq: 27 Jun 2022 2:02 pm

Tgt Ion: 58 Resp: 37955

Ion	Ratio	Lower	Upper
58	100		
43	404.5	268.9	328.9#



Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-004A

Client Sample ID: SVW-3
Tag Number: 1175,310
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-1			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: NP
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.17	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,1,2-Trichloroethane	0.19	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,2,4-Trimethylbenzene	0.17	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,2-Dichloroethane	0.71	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,2-Dichloropropane	1.4	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,3-Dichlorobenzene	0.43	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/24/2022 6:48:00 PM
2,2,4-trimethylpentane	0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Acetone	41	6.0		ppbV	20	6/28/2022 12:09:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Benzene	0.18	0.15		ppbV	1	6/24/2022 6:48:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Carbon disulfide	10	3.0		ppbV	20	6/28/2022 12:09:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Chloroethane	0.27	0.15		ppbV	1	6/24/2022 6:48:00 PM
Chloroform	1.2	0.15		ppbV	1	6/24/2022 6:48:00 PM
Chloromethane	0.51	0.15		ppbV	1	6/24/2022 6:48:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Cyclohexane	0.28	0.15		ppbV	1	6/24/2022 6:48:00 PM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-004A

Client Sample ID: SVW-3
Tag Number: 1175,310
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Ethyl acetate	0.35	0.15		ppbV	1	6/24/2022 6:48:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Freon 11	1.7	0.15		ppbV	1	6/24/2022 6:48:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Freon 12	0.60	0.15		ppbV	1	6/24/2022 6:48:00 PM
Heptane	0.14	0.15	J	ppbV	1	6/24/2022 6:48:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Hexane	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
m&p-Xylene	0.21	0.30	J	ppbV	1	6/24/2022 6:48:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 6:48:00 PM
Methyl Ethyl Ketone	1.5	0.30		ppbV	1	6/24/2022 6:48:00 PM
Methyl Isobutyl Ketone	0.40	0.30		ppbV	1	6/24/2022 6:48:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Methylene chloride	0.85	0.15		ppbV	1	6/24/2022 6:48:00 PM
o-Xylene	0.11	0.15	J	ppbV	1	6/24/2022 6:48:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Tetrachloroethylene	0.45	0.15		ppbV	1	6/24/2022 6:48:00 PM
Tetrahydrofuran	1.7	0.15		ppbV	1	6/24/2022 6:48:00 PM
Toluene	0.63	0.15		ppbV	1	6/24/2022 6:48:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Trichloroethene	0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 6:48:00 PM
Surr: Bromofluorobenzene	93.0	46.7-129		%REC	1	6/24/2022 6:48:00 PM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-004A

Client Sample ID: SVW-3
Tag Number: 1175,310
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.93	0.82		ug/m3	1	6/24/2022 6:48:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/24/2022 6:48:00 PM
1,1,2-Trichloroethane	1.0	0.82		ug/m3	1	6/24/2022 6:48:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 6:48:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 6:48:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/24/2022 6:48:00 PM
1,2,4-Trimethylbenzene	0.84	0.74		ug/m3	1	6/24/2022 6:48:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/24/2022 6:48:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 6:48:00 PM
1,2-Dichloroethane	2.9	0.61		ug/m3	1	6/24/2022 6:48:00 PM
1,2-Dichloropropane	6.4	0.69		ug/m3	1	6/24/2022 6:48:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/24/2022 6:48:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/24/2022 6:48:00 PM
1,3-Dichlorobenzene	2.6	0.90		ug/m3	1	6/24/2022 6:48:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 6:48:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/24/2022 6:48:00 PM
2,2,4-trimethylpentane	0.70	0.70		ug/m3	1	6/24/2022 6:48:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/24/2022 6:48:00 PM
Acetone	98	14		ug/m3	20	6/28/2022 12:09:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/24/2022 6:48:00 PM
Benzene	0.57	0.48		ug/m3	1	6/24/2022 6:48:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/24/2022 6:48:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/24/2022 6:48:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/24/2022 6:48:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/24/2022 6:48:00 PM
Carbon disulfide	31	9.3		ug/m3	20	6/28/2022 12:09:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/24/2022 6:48:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/24/2022 6:48:00 PM
Chloroethane	0.71	0.40		ug/m3	1	6/24/2022 6:48:00 PM
Chloroform	5.7	0.73		ug/m3	1	6/24/2022 6:48:00 PM
Chloromethane	1.1	0.31		ug/m3	1	6/24/2022 6:48:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 6:48:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 6:48:00 PM
Cyclohexane	0.96	0.52		ug/m3	1	6/24/2022 6:48:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/24/2022 6:48:00 PM
Ethyl acetate	1.3	0.54		ug/m3	1	6/24/2022 6:48:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	6/24/2022 6:48:00 PM
Freon 11	9.7	0.84		ug/m3	1	6/24/2022 6:48:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/24/2022 6:48:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/24/2022 6:48:00 PM

Qualifiers:

- . Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-004A

Client Sample ID: SVW-3
Tag Number: 1175,310
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	3.0	0.74		ug/m3	1	6/24/2022 6:48:00 PM
Heptane	0.57	0.61	J	ug/m3	1	6/24/2022 6:48:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/24/2022 6:48:00 PM
Hexane	< 0.53	0.53		ug/m3	1	6/24/2022 6:48:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/24/2022 6:48:00 PM
m&p-Xylene	0.91	1.3	J	ug/m3	1	6/24/2022 6:48:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 6:48:00 PM
Methyl Ethyl Ketone	4.5	0.88		ug/m3	1	6/24/2022 6:48:00 PM
Methyl Isobutyl Ketone	1.6	1.2		ug/m3	1	6/24/2022 6:48:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/24/2022 6:48:00 PM
Methylene chloride	3.0	0.52		ug/m3	1	6/24/2022 6:48:00 PM
o-Xylene	0.48	0.65	J	ug/m3	1	6/24/2022 6:48:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/24/2022 6:48:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/24/2022 6:48:00 PM
Tetrachloroethylene	3.1	1.0		ug/m3	1	6/24/2022 6:48:00 PM
Tetrahydrofuran	5.1	0.44		ug/m3	1	6/24/2022 6:48:00 PM
Toluene	2.4	0.57		ug/m3	1	6/24/2022 6:48:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 6:48:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 6:48:00 PM
Trichloroethene	0.81	0.81		ug/m3	1	6/24/2022 6:48:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/24/2022 6:48:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/24/2022 6:48:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/24/2022 6:48:00 PM

Qualifiers:

- . Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062413.D
Acq On : 24 Jun 2022 6:48 pm
Sample : C2206048-004A
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 27 07:54:30 2022

Vial: 13
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.69	128	28958	1.00	ppb		0.00
35) 1,4-difluorobenzene	11.99	114	133308	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	128692	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	86602	0.93	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 93.00%				
Target Compounds							Qvalue
3) Freon 12	4.14	85	80508	0.60	ppb		100
4) Chloromethane	4.33	50	16778	0.51	ppb		92
10) Chloroethane	5.14	64	4191	0.27	ppb		98
14) Freon 11	5.75	101	284356	1.72	ppb		98
15) Acetone	5.90	58	832557	49.44	ppb	#	81
21) Methylene chloride	6.95	84	31148	0.85	ppb		93
23) Carbon disulfide	7.12	76	1066334	9.74	ppb		99
28) Methyl Ethyl Ketone	8.79	72	21975m	1.53	ppb		
31) Ethyl acetate	9.39	43	23501	0.35	ppb		97
32) Chloroform	9.86	83	105708	1.16	ppb		98
33) Tetrahydrofuran	10.02	42	43810	1.74	ppb		95
34) 1,2-dichloroethane	10.97	62	48613	0.71	ppb		97
36) 1,1,1-trichloroethane	10.68	97	14262	0.17	ppb		96
37) Cyclohexane	11.39	56	11198	0.28	ppb	#	45
39) Benzene	11.29	78	17604	0.18	ppb		98
42) 2,2,4-trimethylpentane	12.16	57	18936	0.15	ppb	#	46
43) Heptane	12.51	43	6141	0.14	ppb	#	80
44) Trichloroethene	12.64	130	7840	0.15	ppb		97
45) 1,2-dichloropropane	12.75	63	43627	1.39	ppb		97
49) 1,1,2-trichloroethane	15.03	97	8048	0.19	ppb		93
51) Toluene	14.77	92	48192	0.63	ppb		95
52) Methyl Isobutyl Ketone	13.83	43	27171	0.40	ppb		96
56) Tetrachloroethylene	15.84	164	26481	0.45	ppb		93
59) m&p-xylene	17.33	91	30896	0.21	ppb		99
63) o-xylene	17.86	91	17302	0.11	ppb		86
71) 1,2,4-trimethylbenzene	19.87	105	29087	0.17	ppb		94
72) 1,3-dichlorobenzene	20.19	146	47984	0.43	ppb	#	85

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

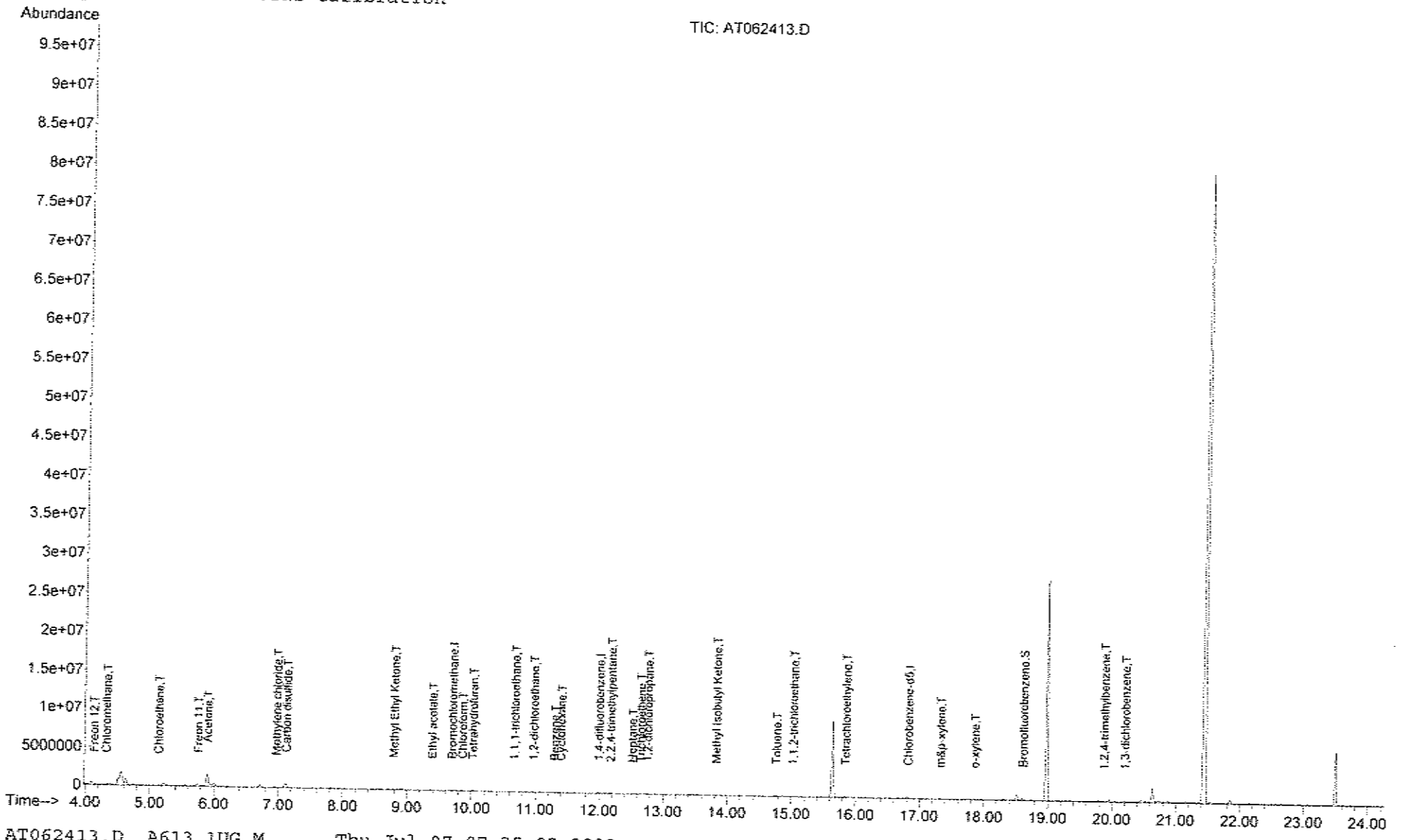
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062413.D
Acq On : 24 Jun 2022 6:48 pm
Sample : C2206048-004A
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 28 13:41 2022

Vial: 13
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

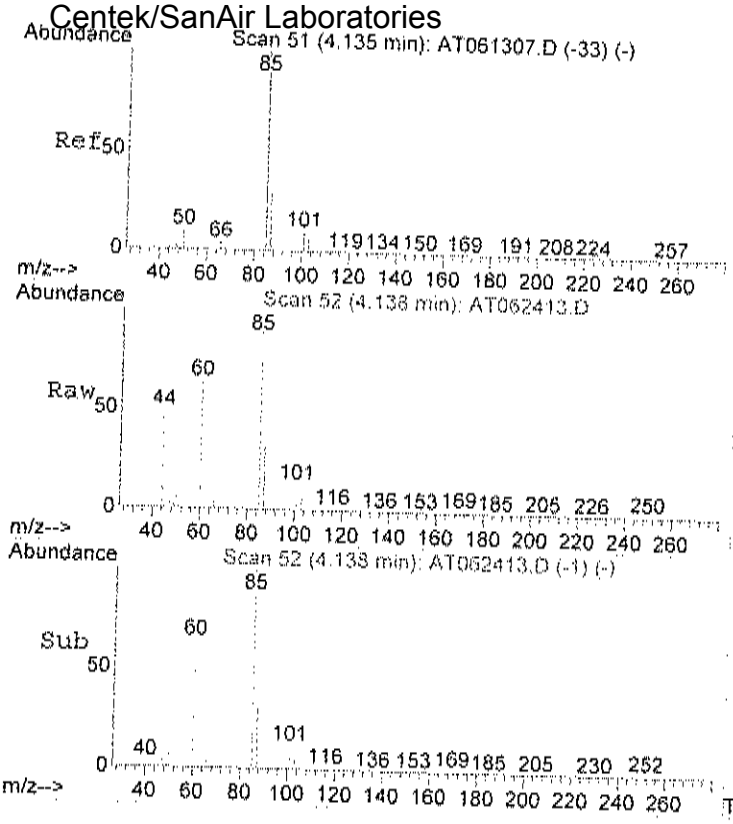
Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



AT062413.D A613_1UG.M Thu Jul 07 07:35:02 2022 MSD1

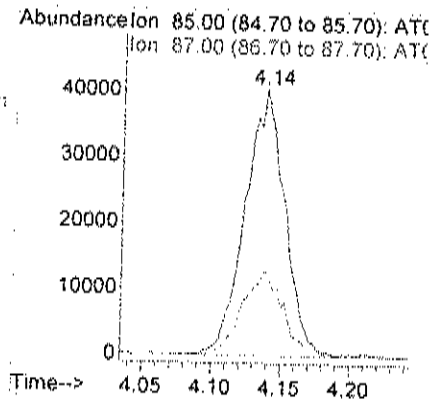
Centek/SanAir Laboratories

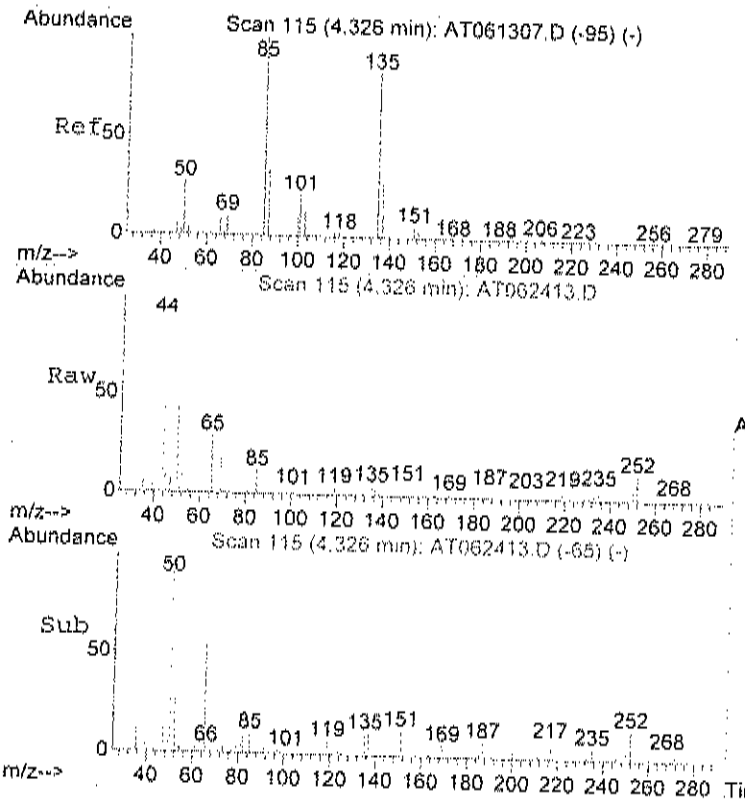


#3
Freon 12
Concen: 0.60 ppb
RT: 4.14 min Scan# 52
Delta R.T. 0.00 min
Lab File: AT062413.D
Acq: 24 Jun 2022 6:48 pm

Tgt Ion: 85 Resp: 80508

Ion	Ratio	Lower	Upper
85	100		
87	32.6	12.8	52.8

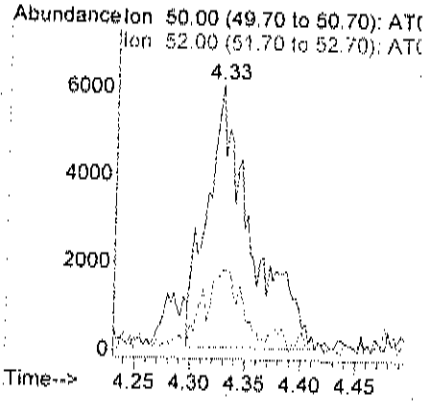


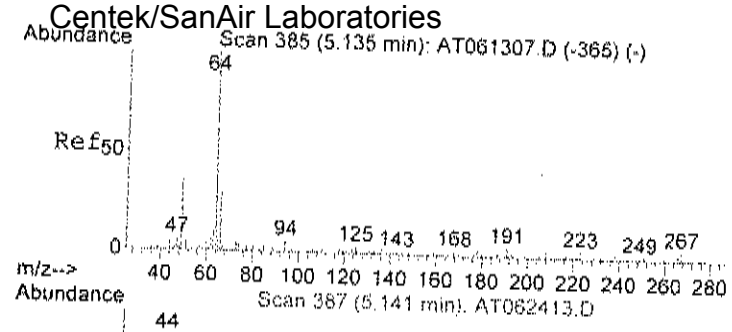


#4
Chloromethane
Concen: 0.51 ppb
RT: 4.33 min Scan# 115
Delta R.T. -0.00 min
Lab File: AT062413.D
Acq: 24 Jun 2022 6:48 pm

Tgt Ion: 50 Resp: 16778

Ion	Ratio	Lower	Upper
50	100		
52	26.4	2.7	42.7

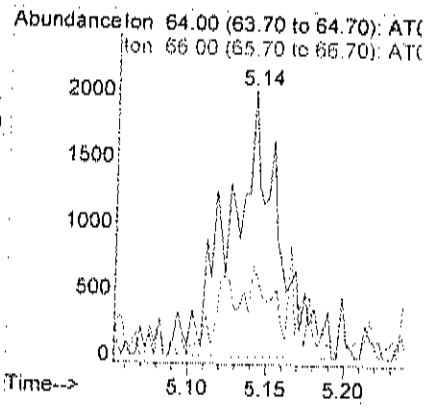


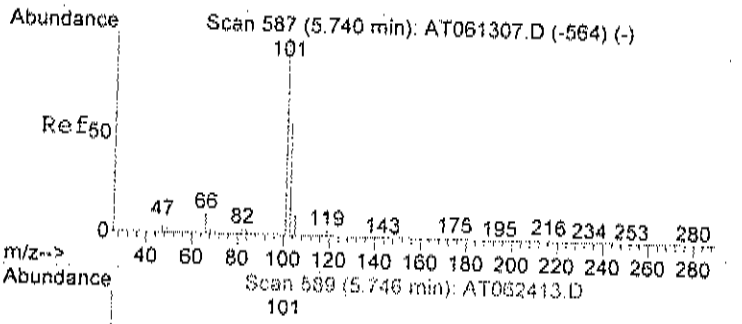


#10
Chloroethane
Concen: 0.27 ppb
RT: 5.14 min Scan# 387
Delta R.T. 0.01 min
Lab File: AT062413.D
Acq: 24 Jun 2022 6:48 pm

Tgt Ion: 64 Resp: 4191

Ion	Ratio	Lower	Upper
64	100		
66	32.7	27.0	40.4

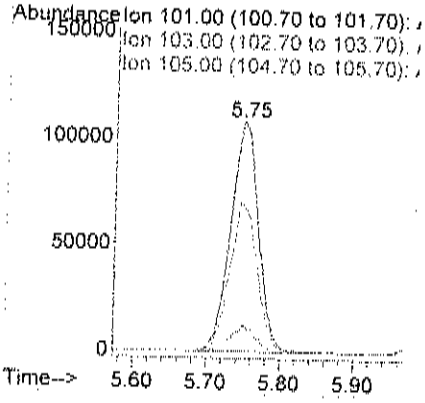


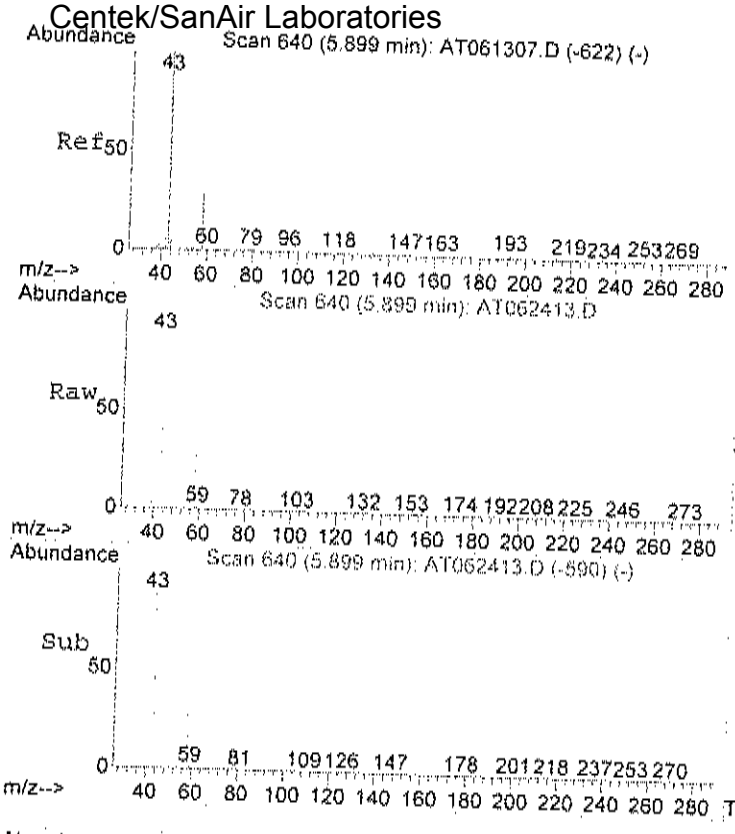


#14
Freon 11
Concen: 1.72 ppb
RT: 5.75 min Scan# 589
Delta R.T. 0.01 min
Lab File: AT062413.D
Acq: 24 Jun 2022 6:48 pm

Tgt Ion:101 Resp: 284356

Ion	Ratio	Lower	Upper
101	100		
103	64.3	46.3	86.3
105	10.4	0.0	31.2

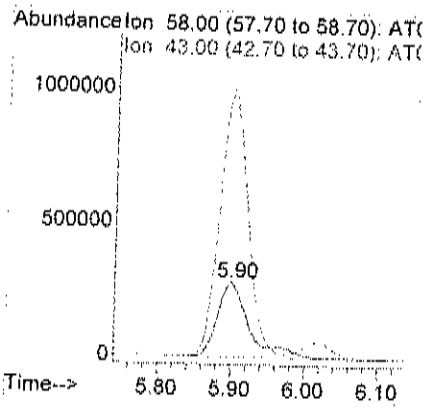


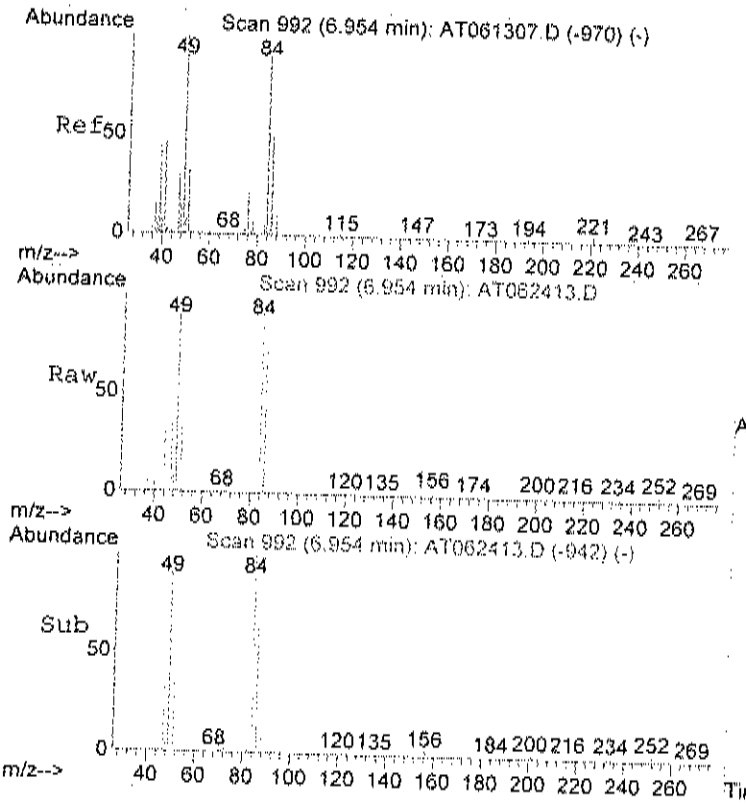


#15
Acetone
Concen: 49.44 ppb
RT: 5.90 min Scan# 640
Delta R.T. -0.00 min
Lab File: AT062413.D
Acq: 24 Jun 2022 6:48 pm

Tgt Ion: 58 Resp: 832557

Ion	Ratio	Lower	Upper
58	100		
43	336.8	268.9	328.9#

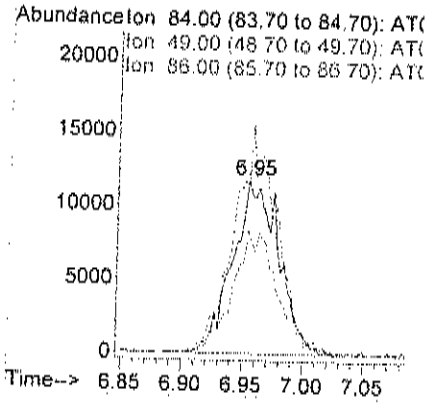


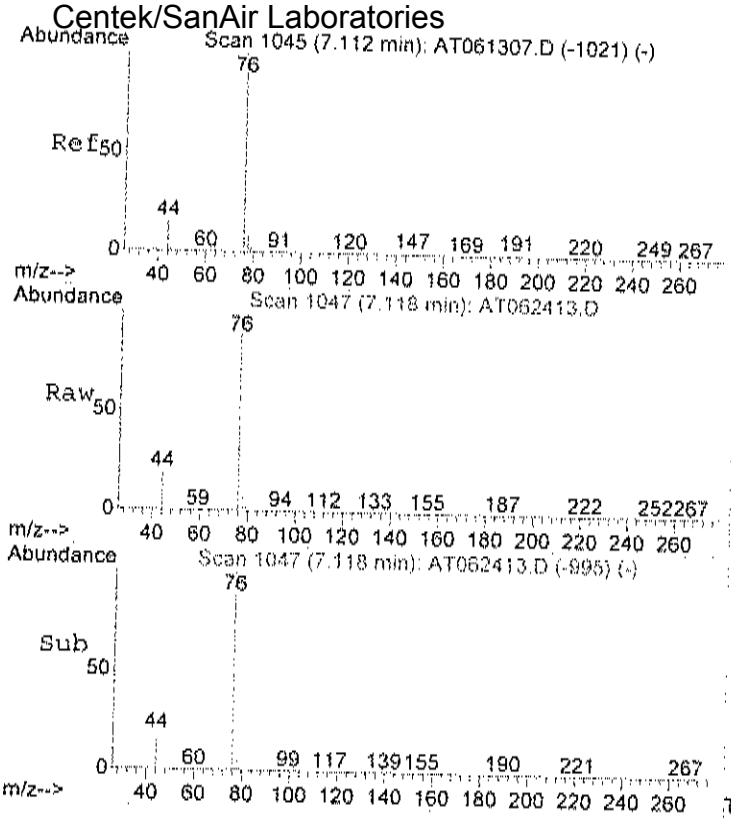


#21
Methylene chloride
Concen: 0.85 ppb
RT: 6.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: AT062413.D
Acq: 24 Jun 2022 6:48 pm

Tgt Ion: 84 Resp: 31148

Ion	Ratio	Lower	Upper
84	100		
49	122.1	93.2	133.2
86	69.3	46.4	86.4

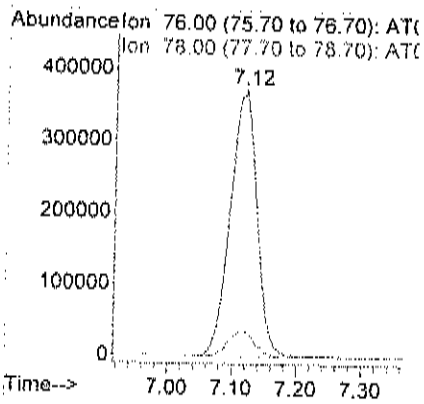


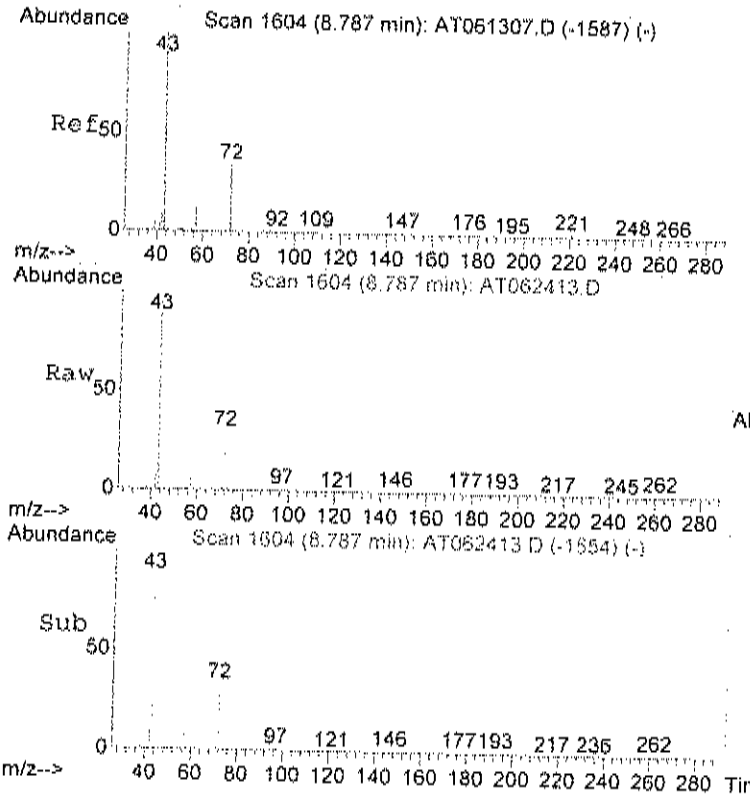


#23
Carbon disulfide
Concen: 9.74 ppb
RT: 7.12 min Scan# 1047
Delta R.T. 0.01 min
Lab File: AT062413.D
Acq: 24 Jun 2022 6:48 pm

Tgt Ion: 76 Resp: 1066334

Ion	Ratio	Lower	Upper
76	100		
78	9.4	0.0	29.7

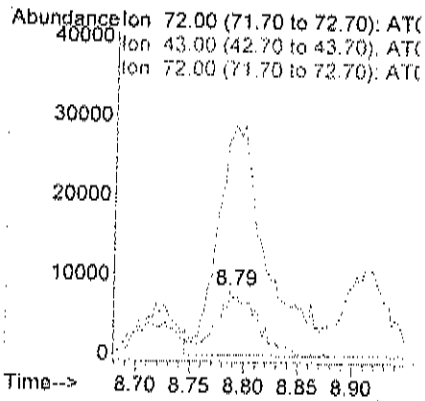


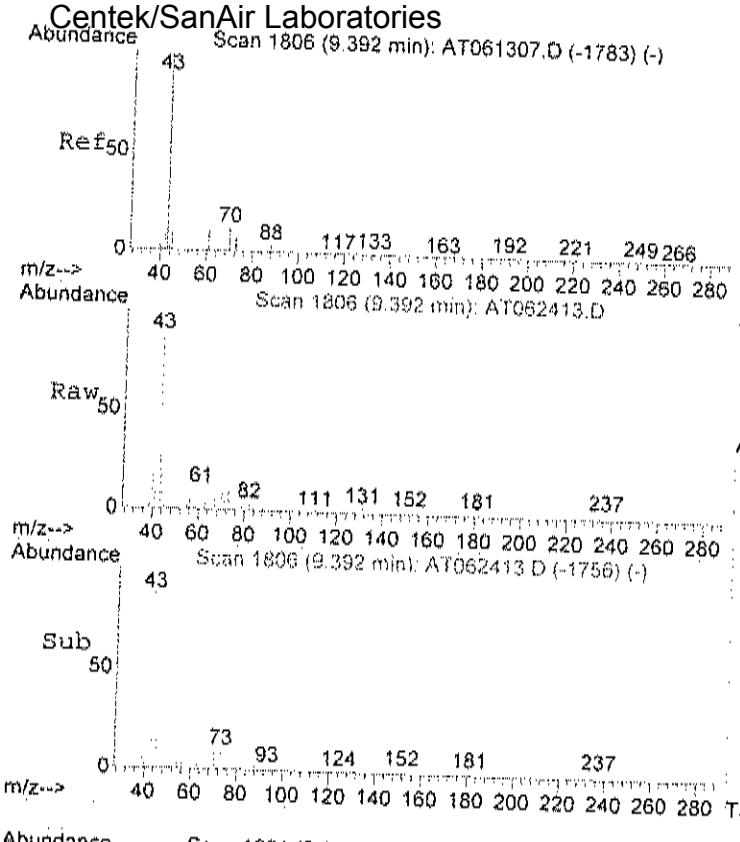


#28
Methyl Ethyl Ketone
Concen: 1.53 ppb m
RT: 8.79 min Scan# 1604
Delta R.T. -0.00 min
Lab File: AT062413.D
Acq: 24 Jun 2022 6:48 pm

Tgt Ion: 72 Resp: 21975

Ion	Ratio	Lower	Upper
72	100		
43	456.4	0.0	20.0#
72	147.1	80.0	120.0#

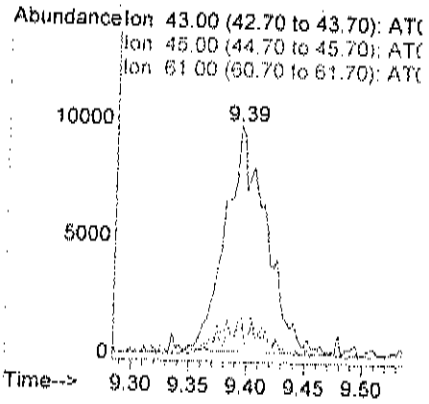


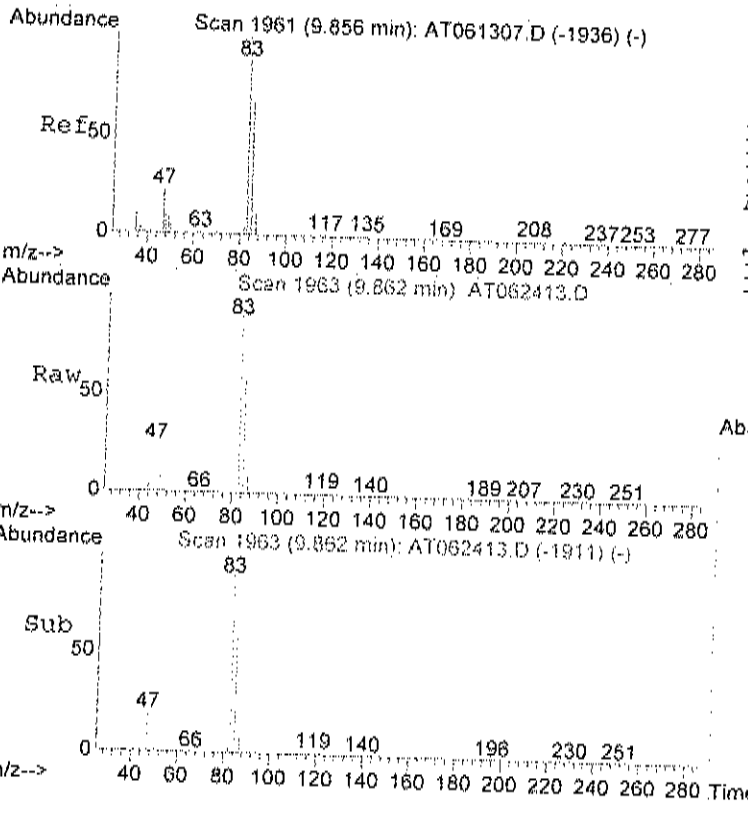


#31
Ethyl acetate
Concen: 0.35 ppb
RT: 9.39 min Scan# 1806
Delta R.T. -0.00 min
Lab File: AT062413.D
Acq: 24 Jun 2022 6:48 pm

Tgt Ion: 43 Resp: 23501

Ion	Ratio	Lower	Upper
43	100		
45	14.0	0.0	33.7
61	12.4	0.0	34.7

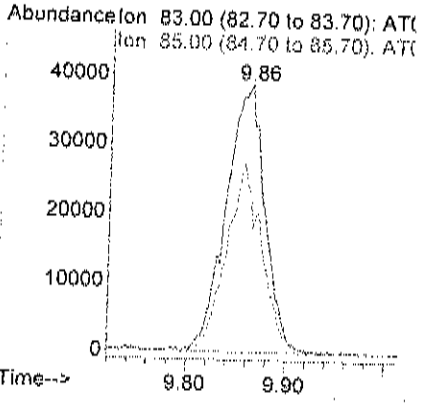


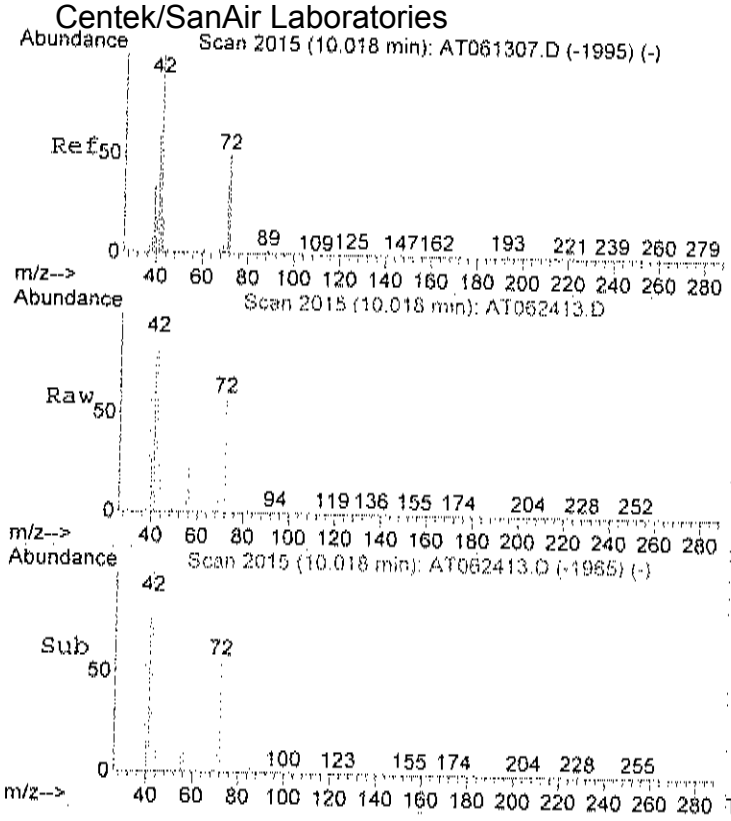


#32
Chloroform
Concen: 1.16 ppb
RT: 9.86 min Scan# 1963
Delta R.T. 0.01 min
Lab File: AT062413.D
Acq: 24 Jun 2022 6:48 pm

Tgt Ion: 83 Resp: 105708

Ion	Ratio	Lower	Upper
83	100		
85	64.6	46.5	86.5

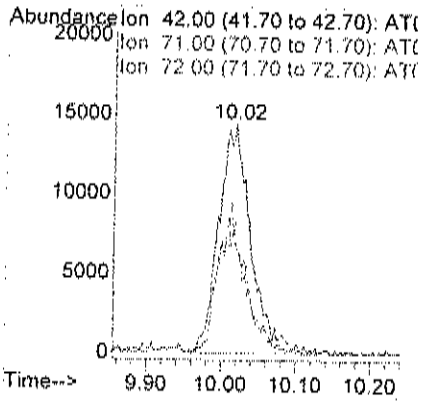


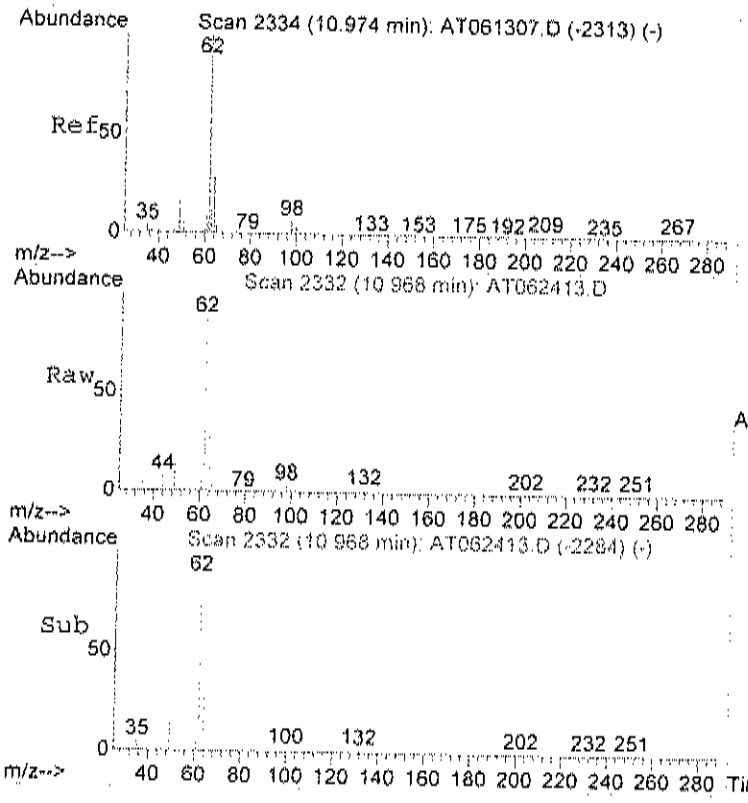


#33
Tetrahydrofuran
Concen: 1.74 ppb
RT: 10.02 min Scan# 2015
Delta R.T. -0.00 min
Lab File: AT062413.D
Acq: 24 Jun 2022 6:48 pm

Tgt Ion: 42 Resp: 43810

Ion	Ratio	Lower	Upper
42	100		
71	52.8	38.0	78.0
72	53.6	35.0	75.0

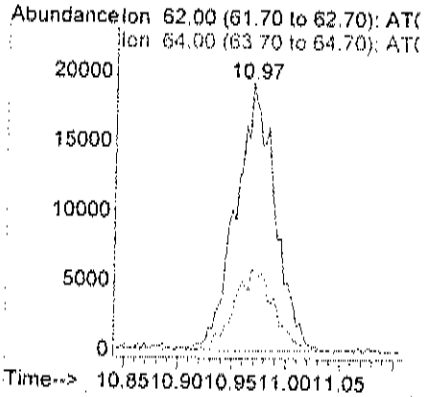


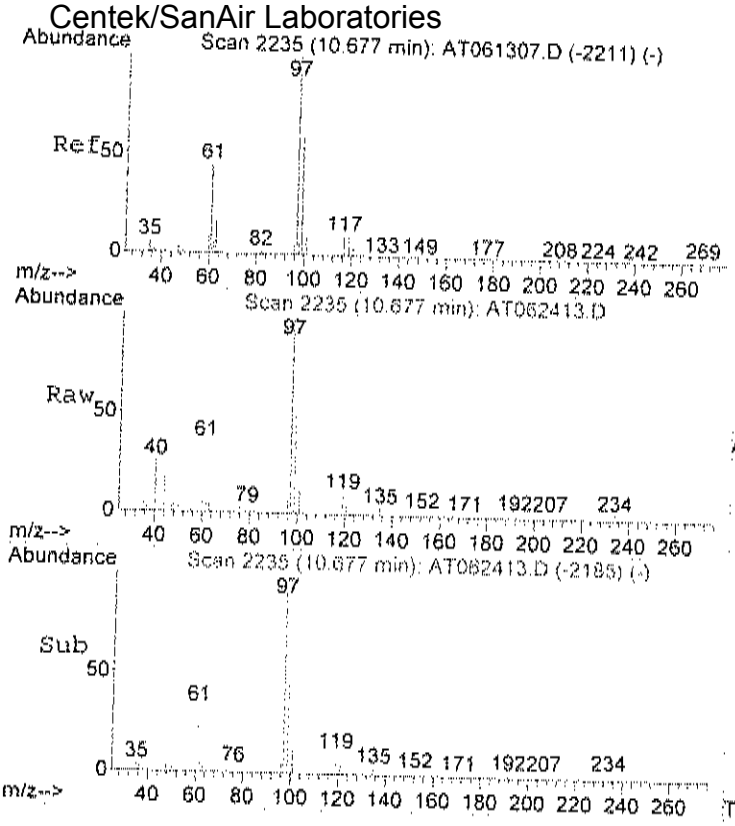


#34
1,2-dichloroethane
Concen: 0.71 ppb
RT: 10.97 min Scan# 2332
Delta R.T. -0.01 min
Lab File: AT062413.D
Acq: 24 Jun 2022 6:48 pm

Tgt Ion: 62 Resp: 48613

Ion	Ratio	Lower	Upper
62	100		
64	31.2	12.8	52.8

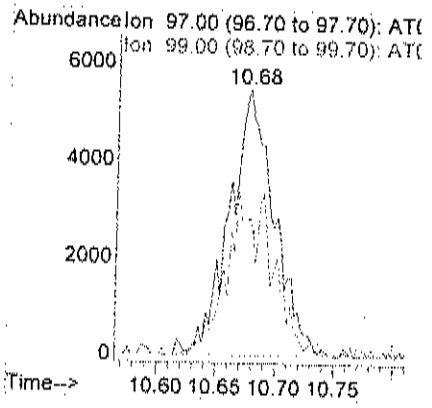


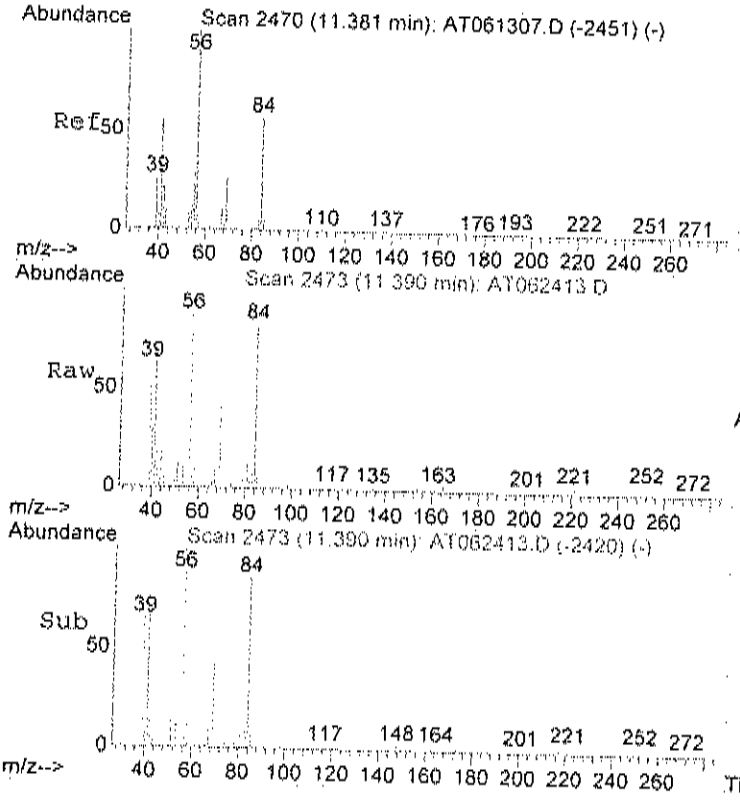


#36
1,1,1-trichloroethane
Concen: 0.17 ppb
RT: 10.68 min Scan# 2235
Delta R.T. -0.00 min
Lab File: AT062413.D
Acq: 24 Jun 2022 6:48 pm

Tgt Ion: 97 Resp: 14262

Ion	Ratio	Lower	Upper
97	100		
99	62.4	46.0	86.0

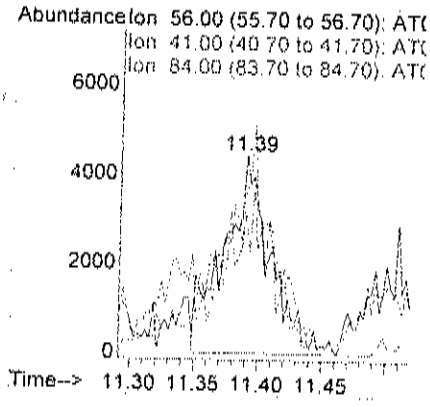


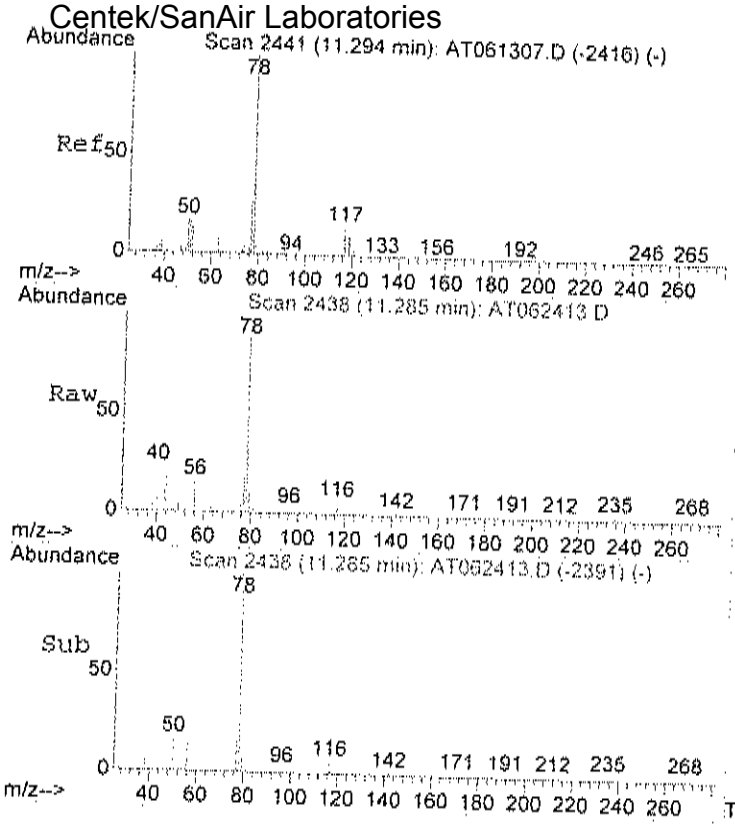


#37
Cyclohexane
Concen: 0.28 ppb
RT: 11.39 min Scan# 2473
Delta R.T. 0.01 min
Lab File: AT062413.D
Acq: 24 Jun 2022 6:48 pm

Tgt Ion: 56 Resp: 11198

Ion	Ratio	Lower	Upper
56	100		
41	140.5	40.3	80.3#
84	107.6	133.0	173.0#

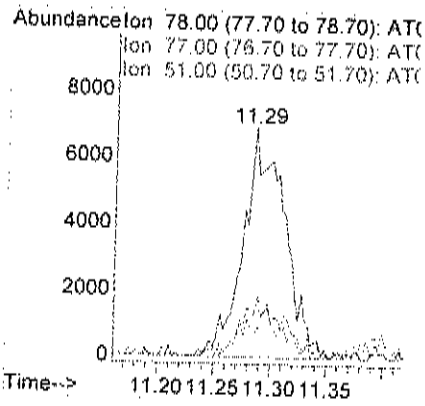


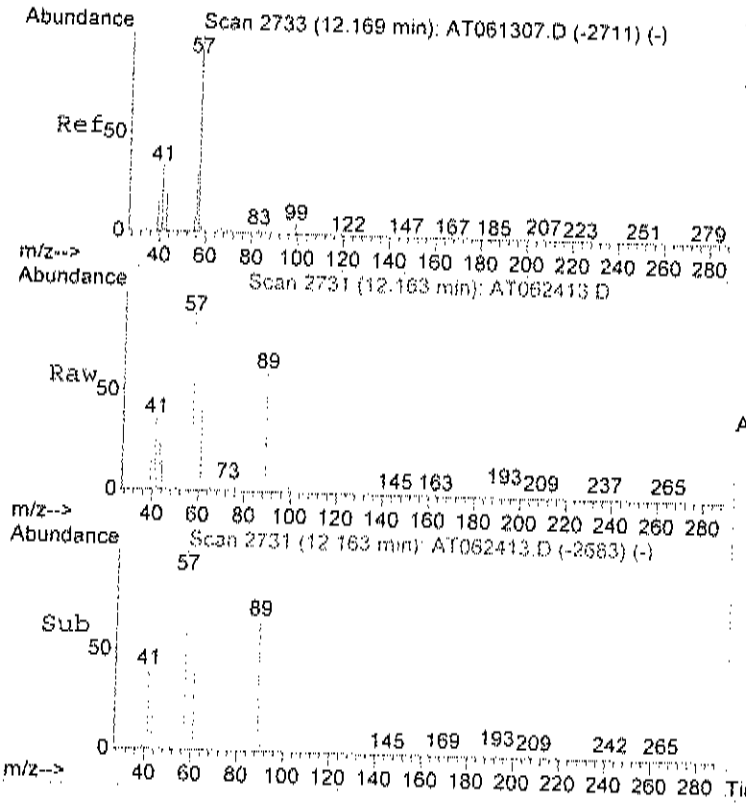


#39
Benzene
Concen: 0.18 ppb
RT: 11.29 min Scan# 2438
Delta R.T. -0.01 min
Lab File: AT062413.D
Acq: 24 Jun 2022 6:48 pm

Tgt Ion: 78 Resp: 17604

Ion	Ratio	Lower	Upper
78	100		
77	24.7	3.1	43.1
51	17.9	0.0	37.8

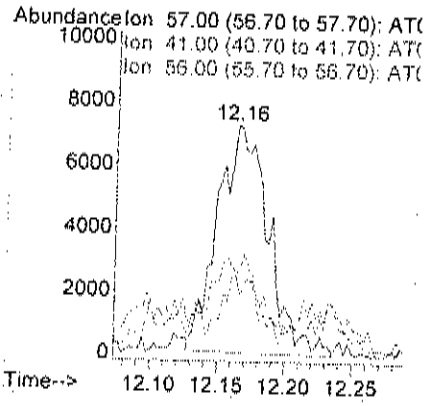


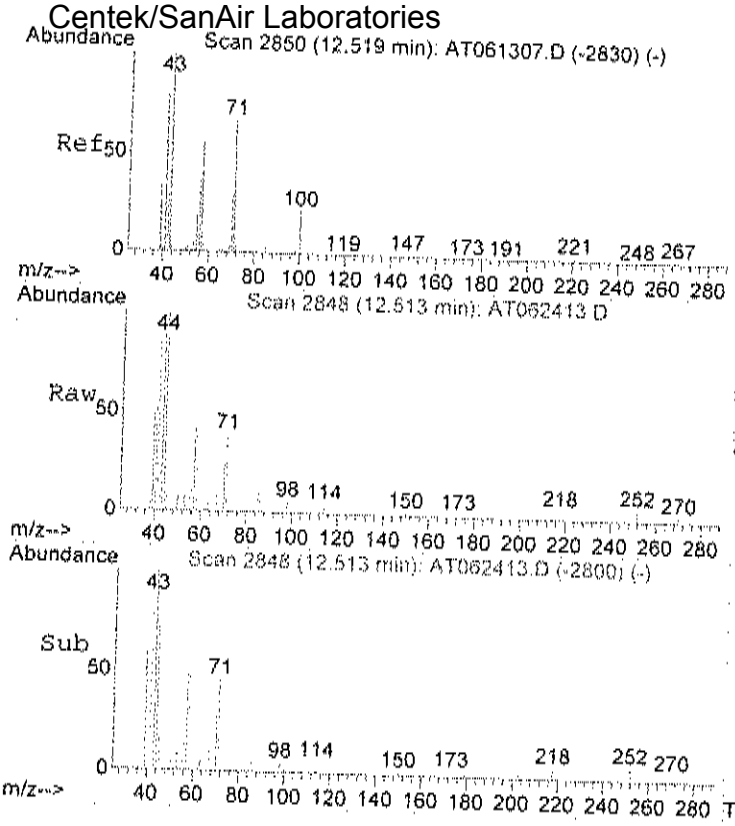


#42
2,2,4-trimethylpentane
Concen: 0.15 ppb
RT: 12.16 min Scan# 2731
Delta R.T. -0.01 min
Lab File: AT062413.D
Acq: 24 Jun 2022 6:48 pm

Tgt Ion: 57 Resp: 18936

Ion	Ratio	Lower	Upper
57	100		
41	93.2	15.3	55.3#
56	29.9	10.1	50.1

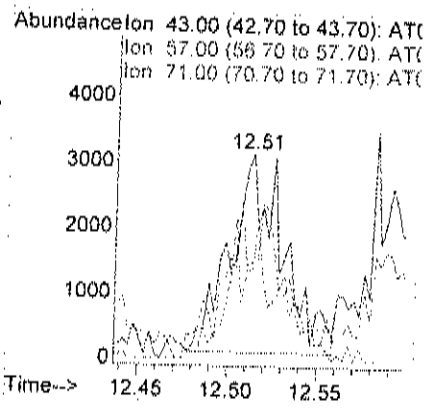


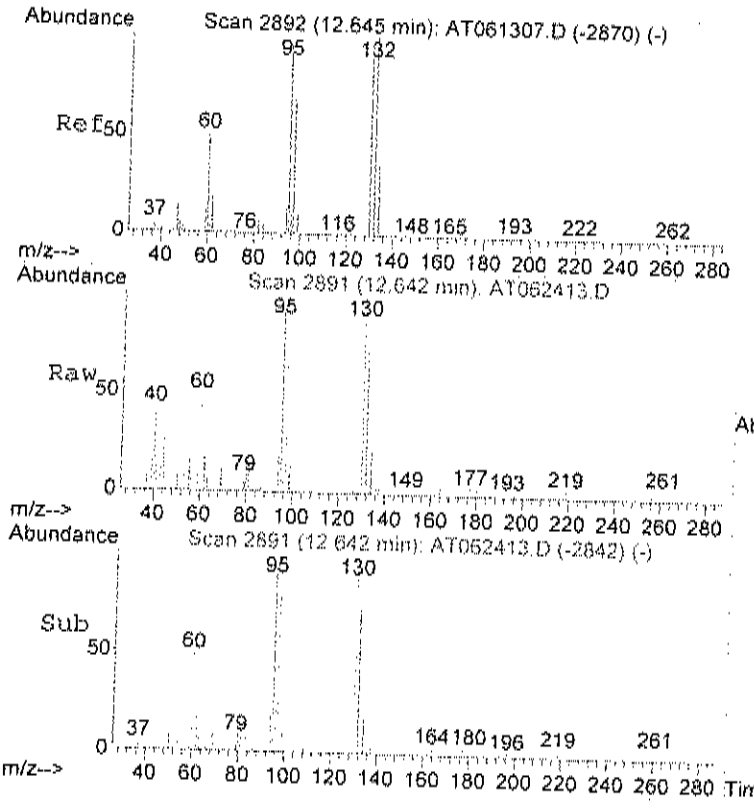


#43
Heptane
Concen: 0.14 ppb
RT: 12.51 min Scan# 2848
Delta R.T. -0.01 min
Lab File: AT062413.D
Acq: 24 Jun 2022 6:48 pm

Tgt Ion: 43 Resp: 6141

Ion	Ratio	Lower	Upper
43	100		
57	82.0	41.7	81.7#
71	60.9	53.4	93.4

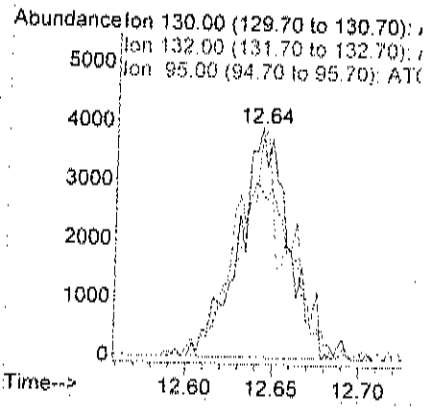


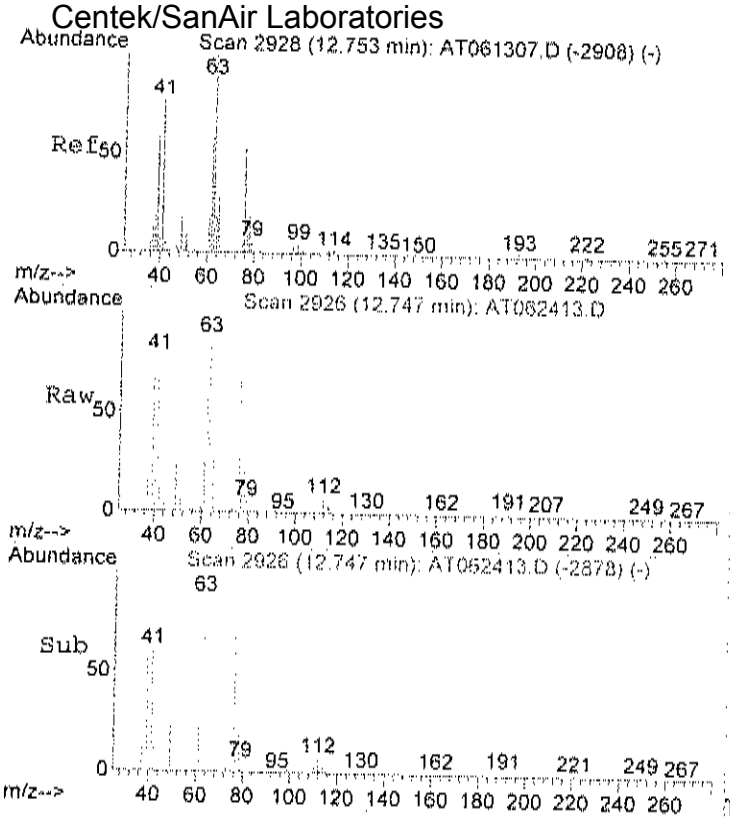


#44
Trichloroethene
Concen: 0.15 ppb
RT: 12.64 min Scan# 2891
Delta R.T. -0.00 min
Lab File: AT062413.D
Acq: 24 Jun 2022 6:48 pm

Tgt Ion:130 Resp: 7840

Ion	Ratio	Lower	Upper
130	100		
132	91.4	76.7	116.7
95	94.3	74.7	114.7

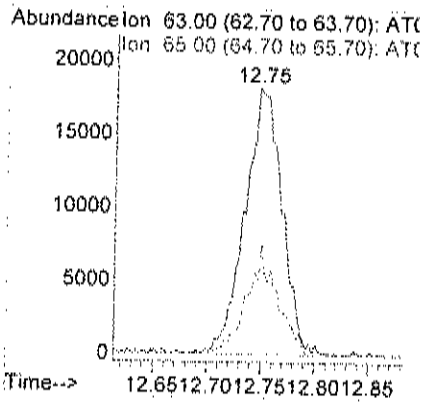


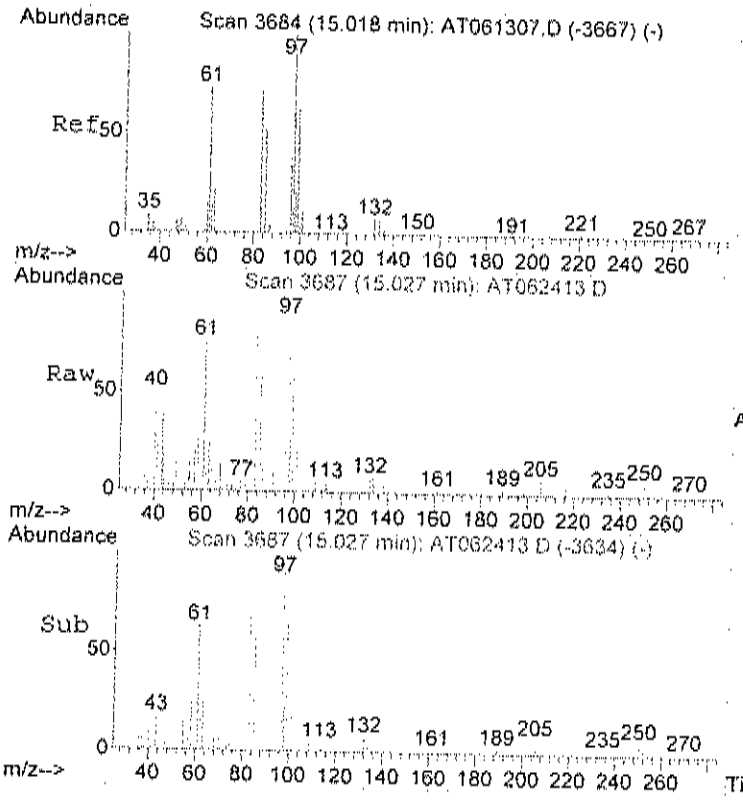


#45
1,2-dichloropropane
Concen: 1.39 ppb
RT: 12.75 min Scan# 2926
Delta R.T. -0.01 min
Lab File: AT062413.D
Acq: 24 Jun 2022 6:48 pm

Tgt Ion: 63 Resp: 43627

Ion	Ratio	Lower	Upper
63	100		
65	34.4	12.9	52.9

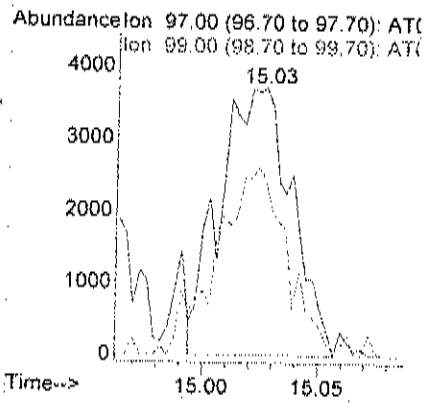


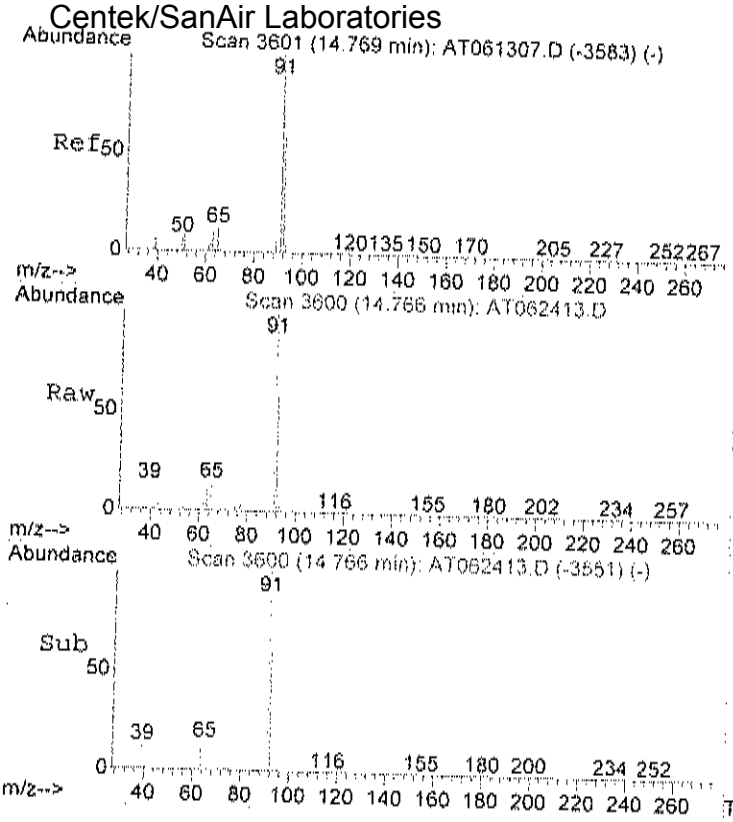


#49
1,1,2-trichloroethane
Concen: 0.19 ppb
RT: 15.03 min Scan# 3687
Delta R.T. 0.01 min
Lab File: AT062413.D
Acq: 24 Jun 2022 6:48 pm

Tgt Ion: 97 Resp: 8048

Ion	Ratio	Lower	Upper
97	100		
99	69.4	44.3	84.3

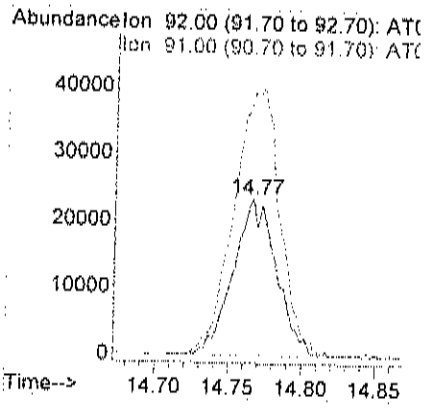


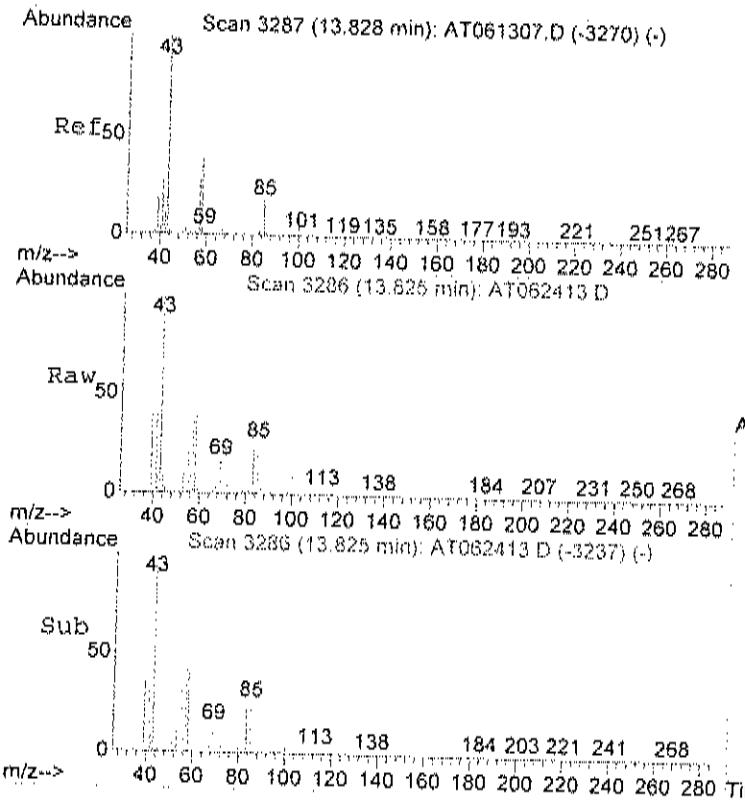


#51
Toluene
Concen: 0.63 ppb
RT: 14.77 min Scan# 3600
Delta R.T. -0.00 min
Lab File: AT062413.D
Acq: 24 Jun 2022 6:48 pm

Tgt Ion: 92 Resp: 48192

Ion	Ratio	Lower	Upper
92	100		
91	181.1	154.4	194.4

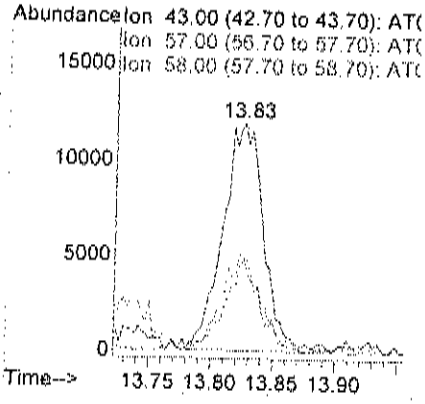


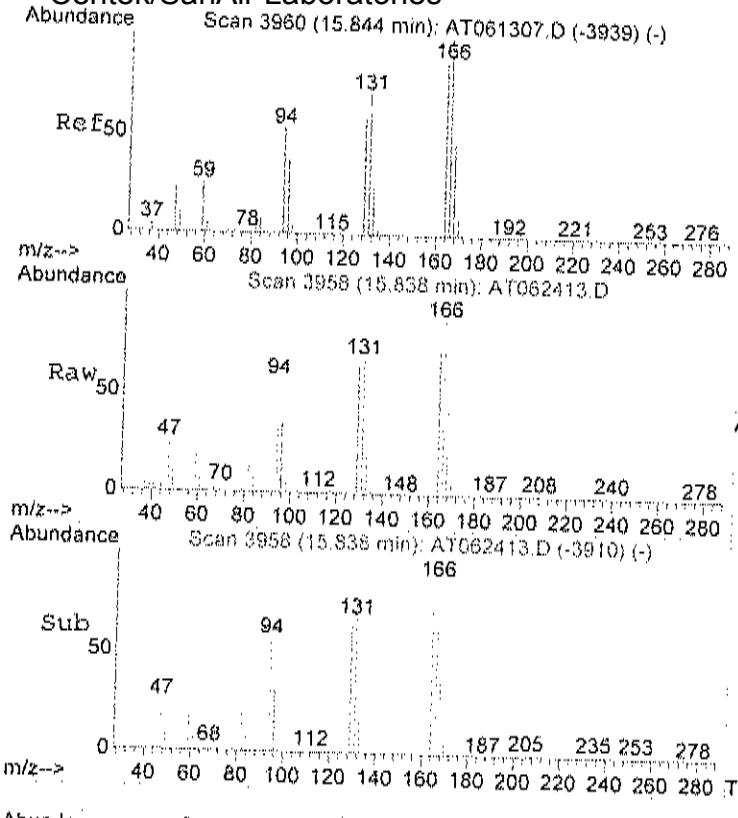


#52
Methyl Isobutyl Ketone
Concen: 0.40 ppb
RT: 13.83 min Scan# 3286
Delta R.T. -0.00 min
Lab File: AT062413.D
Acq: 24 Jun 2022 6:48 pm

Tgt Ion: 43 Resp: 27171

Ion	Ratio	Lower	Upper
43	100		
57	34.4	9.3	49.3
58	42.0	22.0	62.0

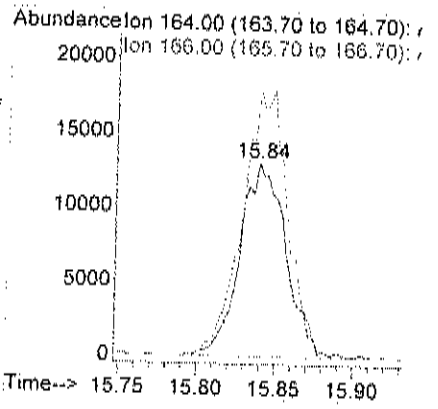


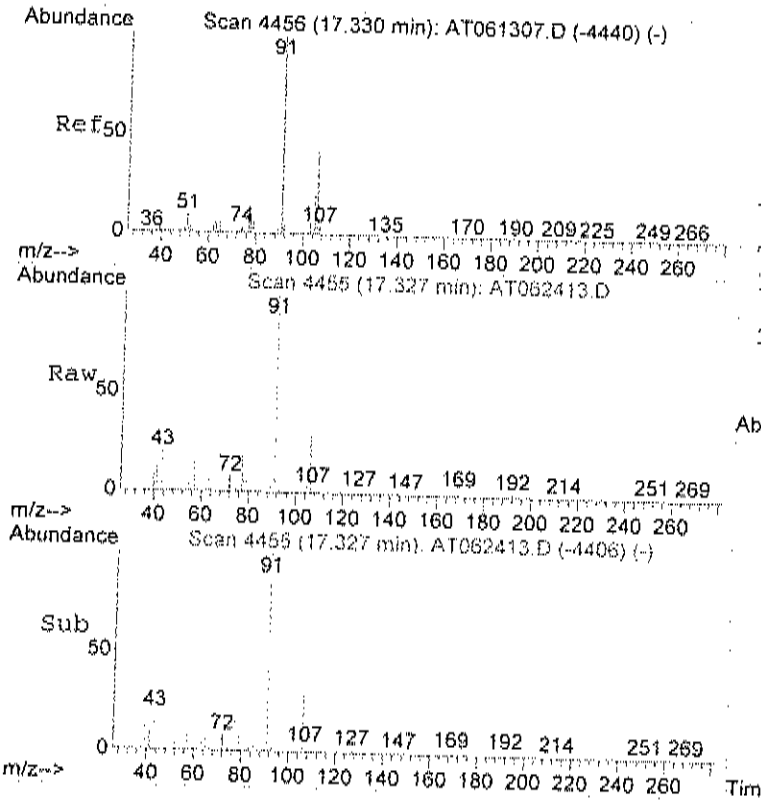


#56
Tetrachloroethylene
Concen: 0.45 ppb
RT: 15.84 min Scan# 3958
Delta R.T. -0.01 min
Lab File: AT062413.D
Acq: 24 Jun 2022 6:48 pm

Tgt Ion:164 Resp: 26481

Ion	Ratio	Lower	Upper
164	100		
166	135.5	107.7	147.7

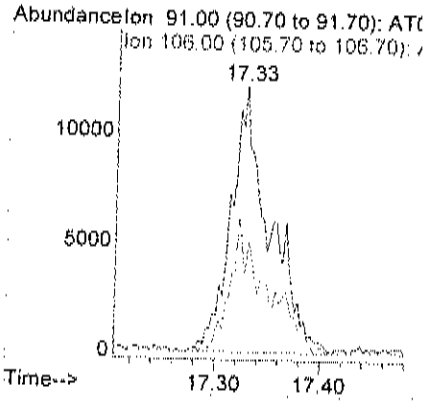


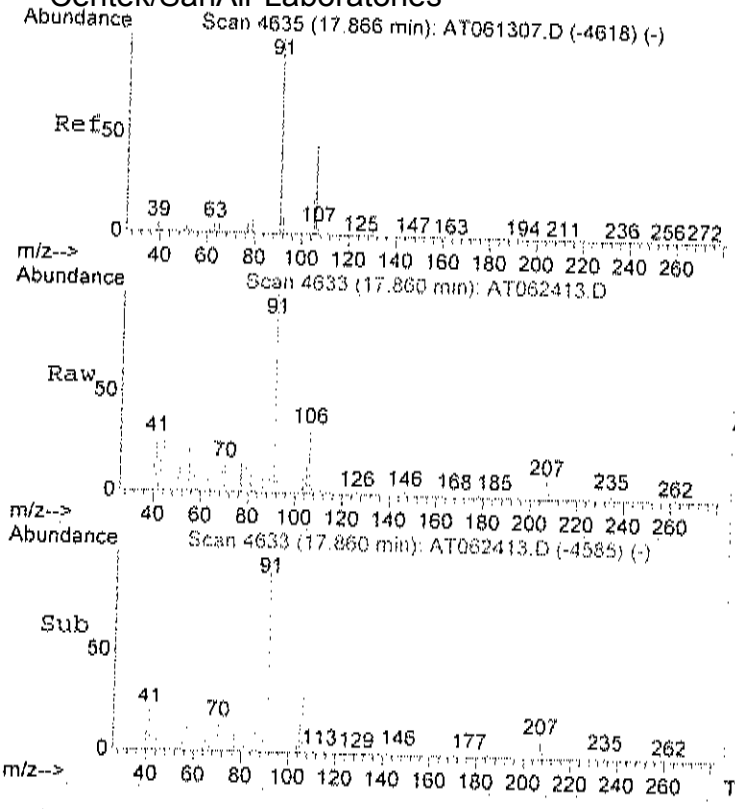


#59
m&p-xylene
Concen: 0.21 ppb
RT: 17.33 min Scan# 4455
Delta R.T. -0.00 min
Lab File: AT062413.D
Acq: 24 Jun 2022 6:48 pm

Tgt Ion: 91 Resp: 30896

Ion	Ratio	Lower	Upper
91	100		
106	47.0	27.9	67.9

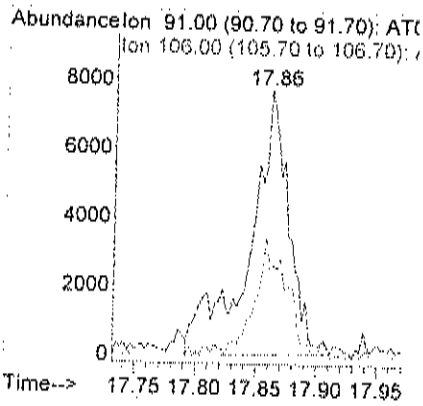


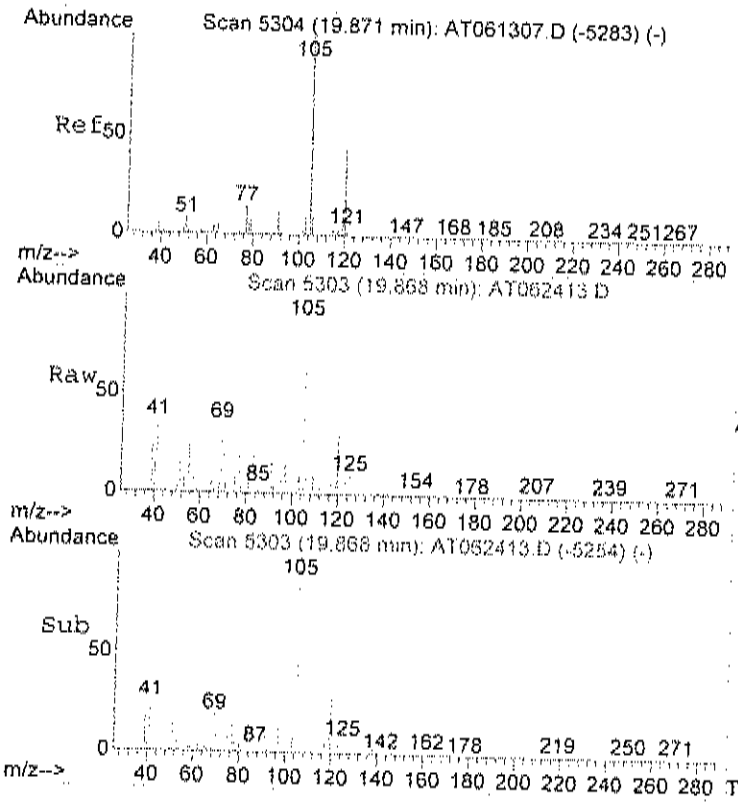


#63
o-xylene
Concen: 0.11 ppb
RT: 17.86 min Scan# 4633
Delta R.T. -0.01 min
Lab File: AT062413.D
Acq: 24 Jun 2022 6:48 pm

Tgt Ion: 91 Resp: 17302

Ion	Ratio	Lower	Upper
91	100		
106	36.2	25.1	65.1

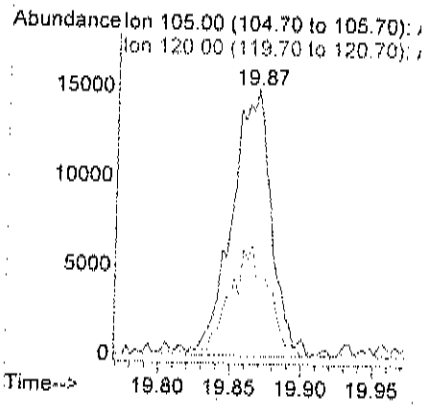


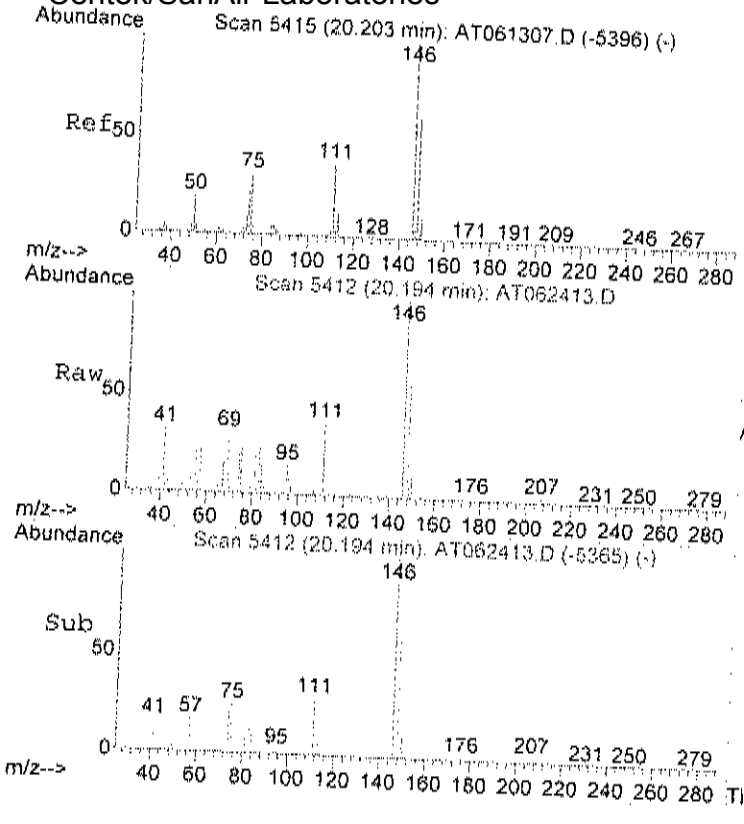


#71
1,2,4-trimethylbenzene
Concen: 0.17 ppb
RT: 19.87 min Scan# 5303
Delta R.T. -0.00 min
Lab File: AT062413.D
Acq: 24 Jun 2022 6:48 pm

Tgt Ion:105 Resp: 29087

Ion	Ratio	Lower	Upper
105	100		
120	40.0	23.8	63.8

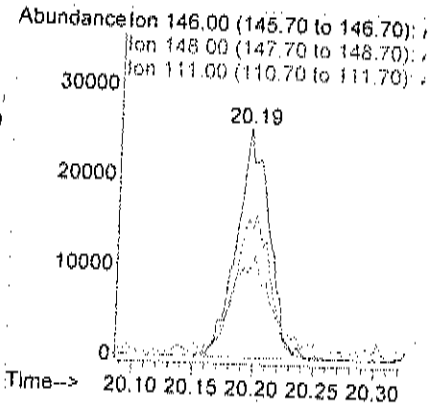




#72
1,3-dichlorobenzene
Concen: 0.43 ppb
RT: 20.19 min Scan# 5412
Delta R.T. -0.01 min
Lab File: AT062413.D
Acq: 24 Jun 2022 6:48 pm

Tgt Ion:146 Resp: 47984

Ion	Ratio	Lower	Upper
146	100		
148	66.4	44.9	84.9
111	62.0	19.7	59.7#



 Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062720.D
Acq On : 28 Jun 2022 12:09 am
Sample : C2206048-004A 20X
Misc : A613_1UG
MS Integration Params: RTEINT.p
Quant Time: Jun 28 07:18:39 2022

Vial: 20
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.69	128	30203	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.00	114	137313	1.00	ppb	0.00
50) Chlorobenzene-d5	16.82	117	120305	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.61	95	76431	0.88	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 88.00%			
Target Compounds						Qvalue
15) Acetone	5.91	58	36304m	2.07	ppb	
23) Carbon disulfide	7.12	76	56598	0.50	ppb	99

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

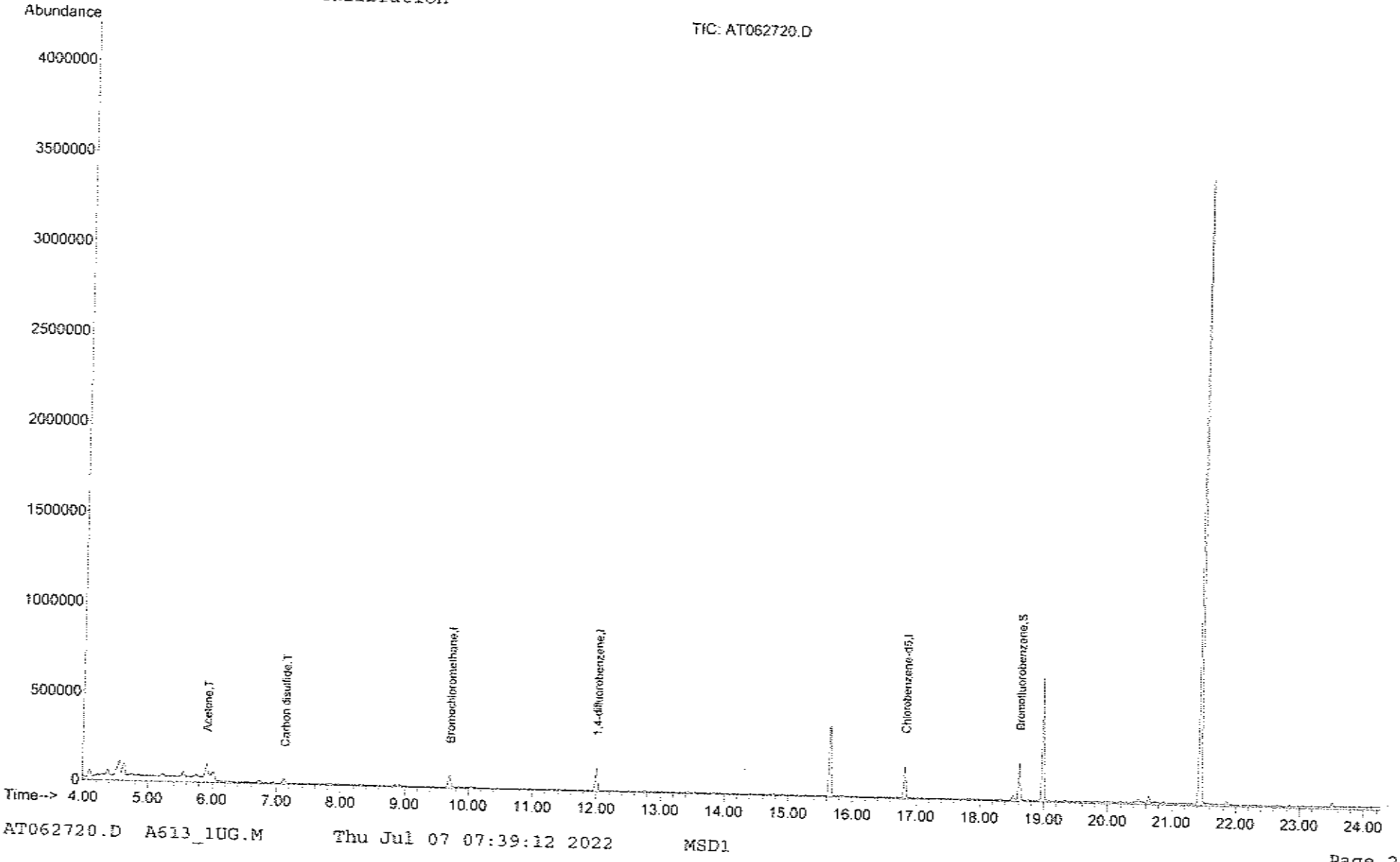
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062720.D
Acq On : 28 Jun 2022 12:09 am
Sample : C2206048-004A 20X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 29 11:17 2022

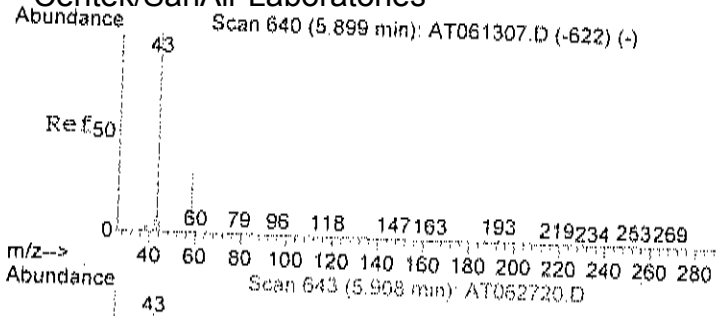
Vial: 20
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



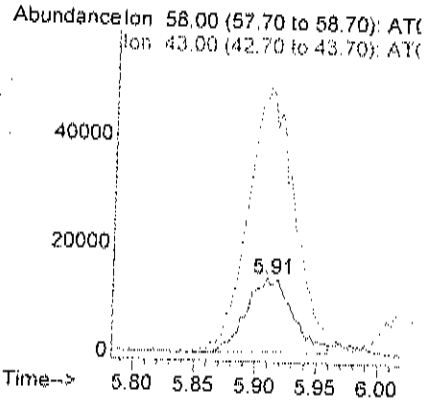
Centek/SanAir Laboratories

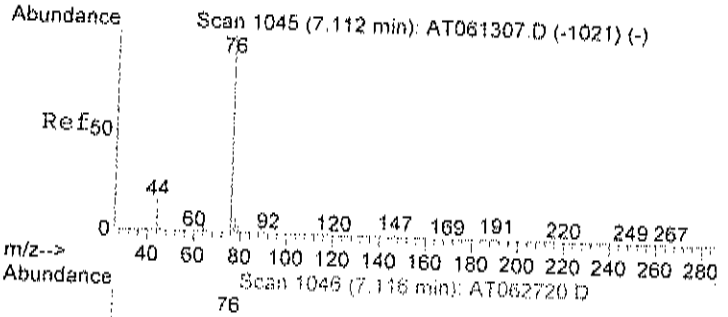


#15
Acetone
Concen: 2.07 ppb m
RT: 5.91 min Scan# 643
Delta R.T. 0.01 min
Lab File: AT062720.D
Acq: 28 Jun 2022 12:09 am

Tgt Ion: 58 Resp: 36304

Ion	Ratio	Lower	Upper
58	100		
43	414.0	268.9	328.9#

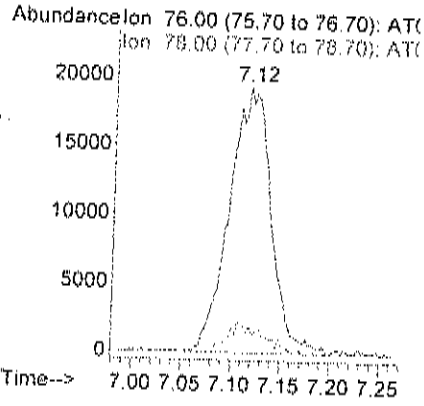




#23
Carbon disulfide
Concen: 0.50 ppb
RT: 7.12 min Scan# 1046
Delta R.T. 0.00 min
Lab File: AT062720.D
Acq: 28 Jun 2022 12:09 am

Tgt Ion: 76 Resp: 56598

Ion	Ratio	Lower	Upper
76	100		
78	9.9	0.0	29.7



Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-005A

Client Sample ID: SVW-4
Tag Number: 1317,120
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-1			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: NP
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,2,4-Trimethylbenzene	0.12	0.15	J	ppbV	1	6/24/2022 7:32:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,4-Dichlorobenzene	0.42	0.15		ppbV	1	6/24/2022 7:32:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/24/2022 7:32:00 PM
2,2,4-trimethylpentane	0.23	0.15		ppbV	1	6/24/2022 7:32:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Acetone	35	6.0		ppbV	20	6/28/2022 12:51:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Benzene	0.34	0.15		ppbV	1	6/24/2022 7:32:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Carbon disulfide	11	3.0		ppbV	20	6/28/2022 12:51:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Chlorobenzene	0.54	0.15		ppbV	1	6/24/2022 7:32:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Chloroform	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Cyclohexane	0.26	0.15		ppbV	1	6/24/2022 7:32:00 PM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-005A

Client Sample ID: SVW-4
Tag Number: 1317,120
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Ethyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Freon 11	0.32	0.15		ppbV	1	6/24/2022 7:32:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Freon 12	0.67	0.15		ppbV	1	6/24/2022 7:32:00 PM
Heptane	0.26	0.15		ppbV	1	6/24/2022 7:32:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Hexane	1.5	0.15		ppbV	1	6/24/2022 7:32:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
m&p-Xylene	0.30	0.30		ppbV	1	6/24/2022 7:32:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 7:32:00 PM
Methyl Ethyl Ketone	0.92	0.30		ppbV	1	6/24/2022 7:32:00 PM
Methyl isobutyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 7:32:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Methylene chloride	0.25	0.15		ppbV	1	6/24/2022 7:32:00 PM
o-Xylene	0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Tetrachloroethylene	0.11	0.15	J	ppbV	1	6/24/2022 7:32:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Toluene	1.4	0.15		ppbV	1	6/24/2022 7:32:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 7:32:00 PM
Surr: Bromofluorobenzene	99.0	46.7-129		%REC	1	6/24/2022 7:32:00 PM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-005A

Client Sample ID: SVW-4
Tag Number: 1317,120
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 7:32:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/24/2022 7:32:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 7:32:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 7:32:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 7:32:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/24/2022 7:32:00 PM
1,2,4-Trimethylbenzene	0.59	0.74	J	ug/m3	1	6/24/2022 7:32:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/24/2022 7:32:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 7:32:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 7:32:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/24/2022 7:32:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/24/2022 7:32:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/24/2022 7:32:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 7:32:00 PM
1,4-Dichlorobenzene	2.5	0.90		ug/m3	1	6/24/2022 7:32:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/24/2022 7:32:00 PM
2,2,4-trimethylpentane	1.1	0.70		ug/m3	1	6/24/2022 7:32:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/24/2022 7:32:00 PM
Acetone	82	14		ug/m3	20	6/28/2022 12:51:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/24/2022 7:32:00 PM
Benzene	1.1	0.48		ug/m3	1	6/24/2022 7:32:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/24/2022 7:32:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/24/2022 7:32:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/24/2022 7:32:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/24/2022 7:32:00 PM
Carbon disulfide	34	9.3		ug/m3	20	6/28/2022 12:51:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/24/2022 7:32:00 PM
Chlorobenzene	2.5	0.69		ug/m3	1	6/24/2022 7:32:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/24/2022 7:32:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	6/24/2022 7:32:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/24/2022 7:32:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 7:32:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 7:32:00 PM
Cyclohexane	0.89	0.52		ug/m3	1	6/24/2022 7:32:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/24/2022 7:32:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	6/24/2022 7:32:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	6/24/2022 7:32:00 PM
Freon 11	1.8	0.84		ug/m3	1	6/24/2022 7:32:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/24/2022 7:32:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/24/2022 7:32:00 PM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-005A

Client Sample ID: SVW-4
Tag Number: 1317,120
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	3.3	0.74		ug/m3	1	6/24/2022 7:32:00 PM
Heptane	1.1	0.61		ug/m3	1	6/24/2022 7:32:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/24/2022 7:32:00 PM
Hexane	5.4	0.53		ug/m3	1	6/24/2022 7:32:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/24/2022 7:32:00 PM
m&p-Xylene	1.3	1.3		ug/m3	1	6/24/2022 7:32:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 7:32:00 PM
Methyl Ethyl Ketone	2.7	0.88		ug/m3	1	6/24/2022 7:32:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 7:32:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/24/2022 7:32:00 PM
Methylene chloride	0.87	0.52		ug/m3	1	6/24/2022 7:32:00 PM
o-Xylene	0.65	0.65		ug/m3	1	6/24/2022 7:32:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/24/2022 7:32:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/24/2022 7:32:00 PM
Tetrachloroethylene	0.75	1.0	J	ug/m3	1	6/24/2022 7:32:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/24/2022 7:32:00 PM
Toluene	5.4	0.57		ug/m3	1	6/24/2022 7:32:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 7:32:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 7:32:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	6/24/2022 7:32:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/24/2022 7:32:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/24/2022 7:32:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/24/2022 7:32:00 PM

Qualifiers:

- . Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

 Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062414.D
Acq On : 24 Jun 2022 7:32 pm
Sample : C2206048-005A
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 27 11:20:08 2022

Vial: 14
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.69	128	30240	1.00	ppb		0.00
35) 1,4-difluorobenzene	12.00	114	133342	1.00	ppb		0.00
50) Chlorobenzene-d5	16.81	117	125075	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	89559	0.99	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99.00%				
Target Compounds							Qvalue
3) Freon 12	4.13	85	93862	0.67	ppb		99
14) Freon 11	5.74	101	54369	0.32	ppb		99
15) Acetone	5.89	58	617356	35.10	ppb	#	65
21) Methylene chloride	6.95	84	9554	0.25	ppb		92
23) Carbon disulfide	7.11	76	1181806	10.34	ppb		99
28) Methyl Ethyl Ketone	8.78	72	13691	0.92	ppb	#	100
30) Hexane	8.91	57	69216	1.54	ppb	#	52
37) Cyclohexane	11.38	56	10375	0.26	ppb	#	32
39) Benzene	11.30	78	32514	0.34	ppb		91
41) 1,4-dioxane	12.89	88	2973	0.13	ppb	#	58
42) 2,2,4-trimethylpentane	12.15	57	28743	0.23	ppb	#	62
43) Heptane	12.52	43	11755	0.26	ppb	#	57
51) Toluene	14.77	92	106834	1.44	ppb		97
56) Tetrachloroethylene	15.85	164	6568	0.11	ppb		97
57) Chlorobenzene	16.87	112	58703	0.54	ppb		97
59) m&p-xylene	17.32	91	41452	0.30	ppb		97
63) o-xylene	17.86	91	21965	0.15	ppb		97
71) 1,2,4-trimethylbenzene	19.87	105	20756	0.12	ppb		92
74) 1,4-dichlorobenzene	20.35	146	45180	0.42	ppb		96

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

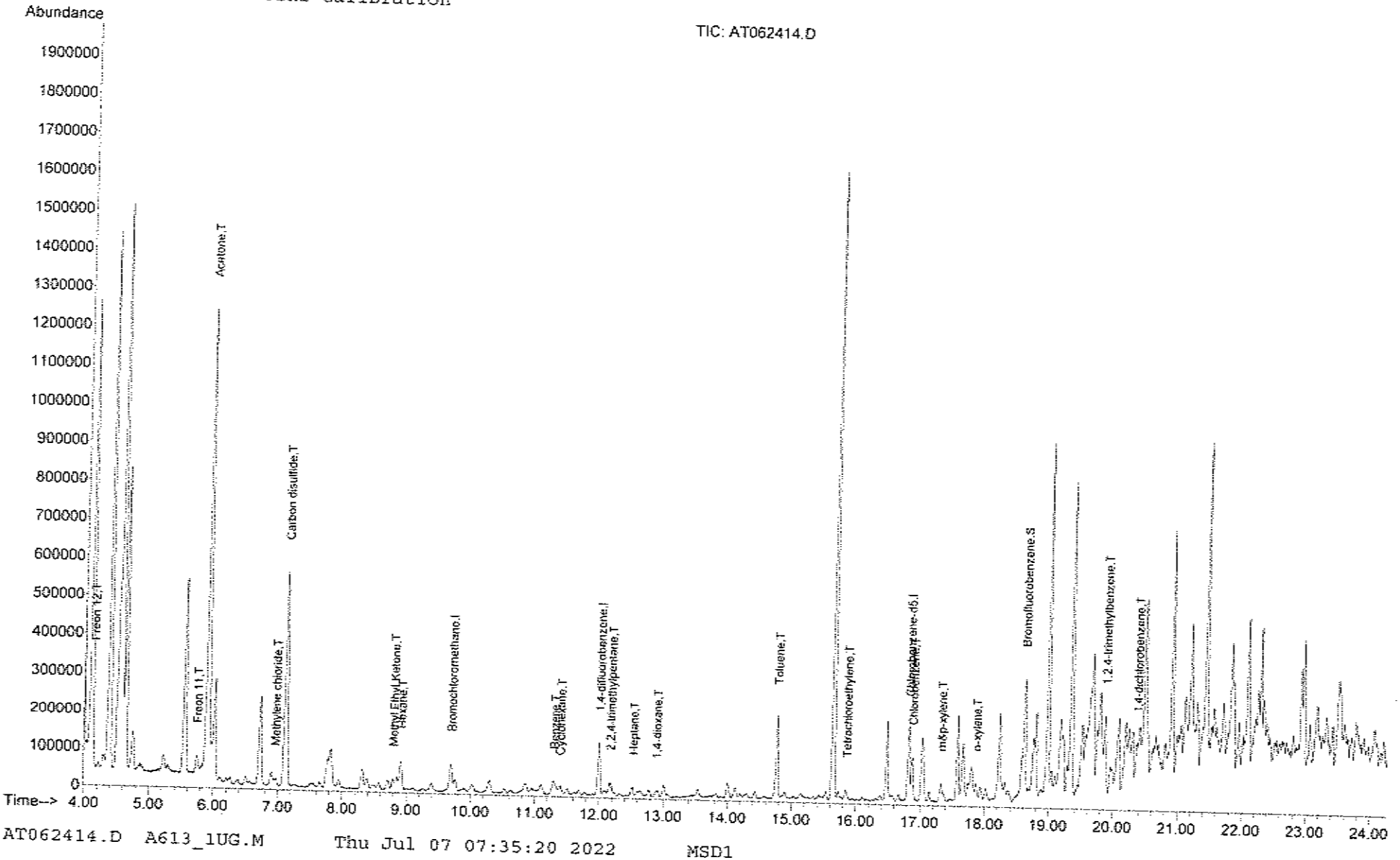
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062414.D
Acq On : 24 Jun 2022 7:32 pm
Sample : C2206048-005A
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 28 13:43 2022

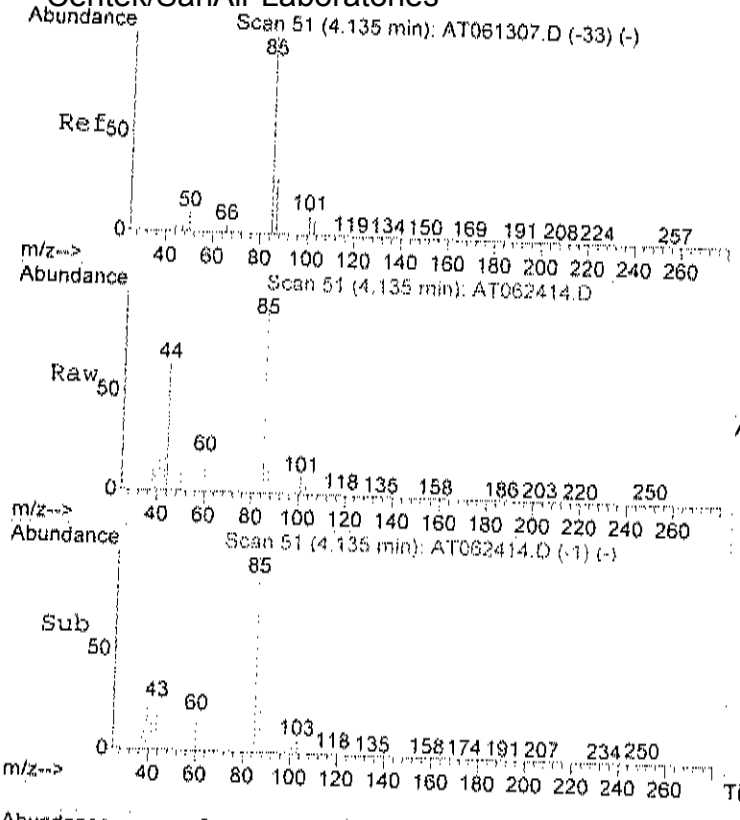
Vial: 14
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



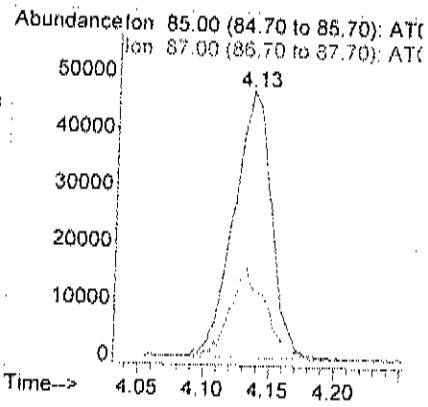
Centek/SanAir Laboratories

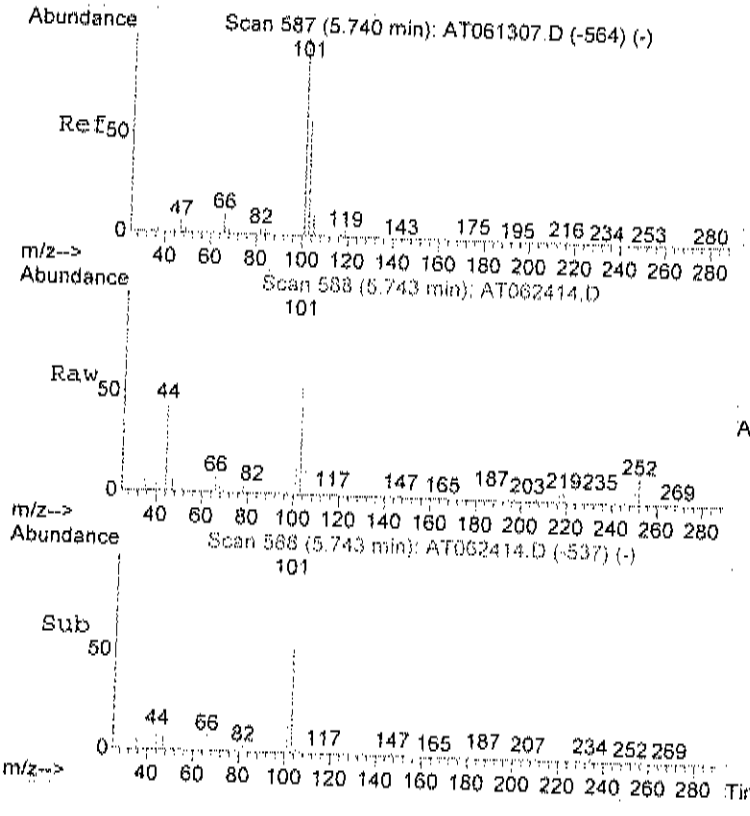


#3
Freon 12
Concen: 0.67 ppb
RT: 4.13 min Scan# 51
Delta R.T. 0.00 min
Lab File: AT062414.D
Acq: 24 Jun 2022 7:32 pm

Tgt Ion: 85 Resp: 93862

Ion	Ratio	Lower	Upper
85	100		
87	32.0	12.8	52.8

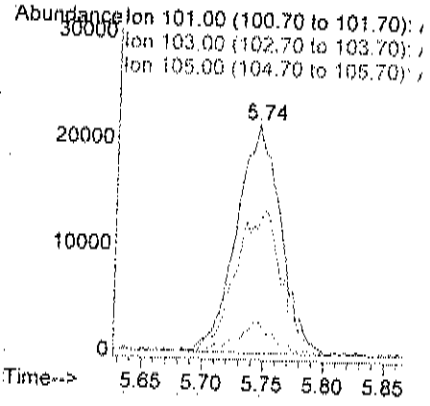


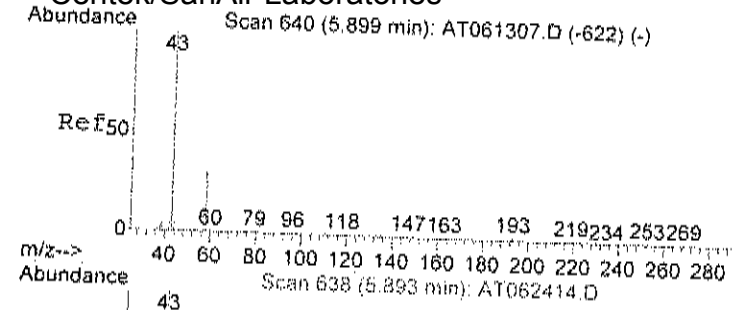


#14
Freon 11
Concen: 0.32 ppb
RT: 5.74 min Scan# 588
Delta R.T. 0.00 min
Lab File: AT062414.D
Acq: 24 Jun 2022 7:32 pm

Tgt Ion:101 Resp: 54369

Ion	Ratio	Lower	Upper
101	100		
103	65.4	46.3	86.3
105	11.1	0.0	31.2

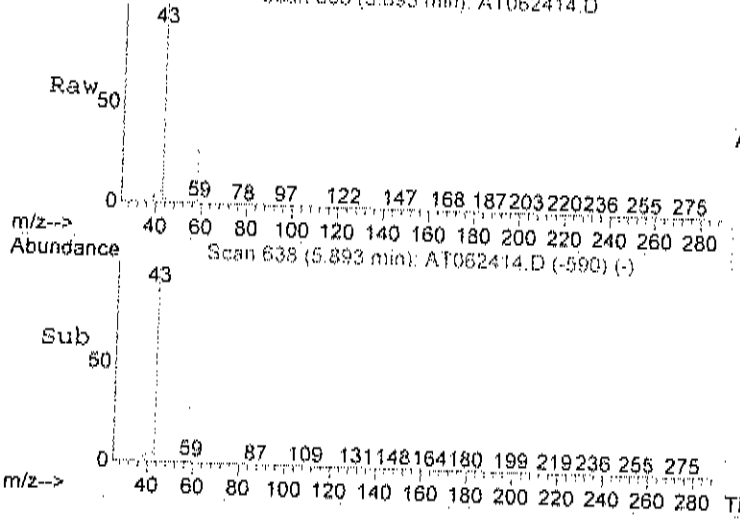


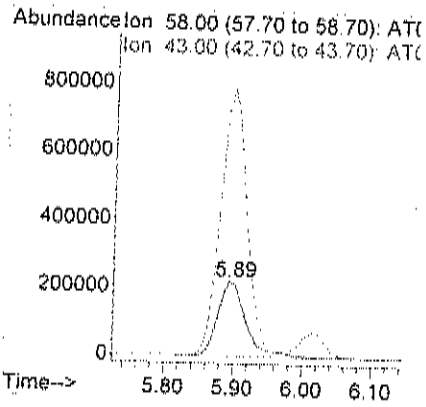


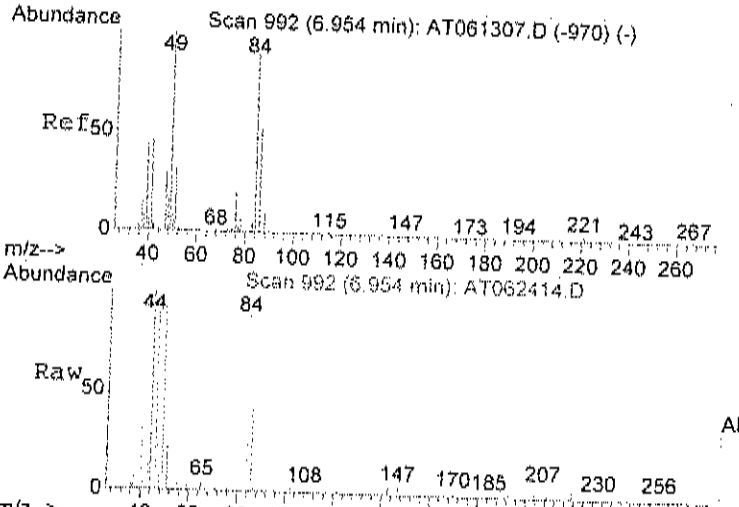
#15
Acetone
Concen: 35.10 ppb
RT: 5.89 min Scan# 638
Delta R.T. -0.01 min
Lab File: AT062414.D
Acq: 24 Jun 2022 7:32 pm

Tgt Ion: 58 Resp: 617356

Ion	Ratio	Lower	Upper
58	100		
43	367.1	268.9	328.9#



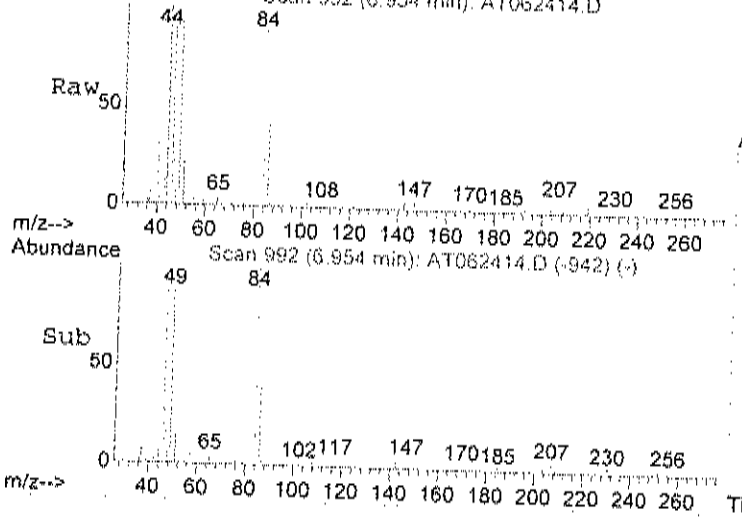


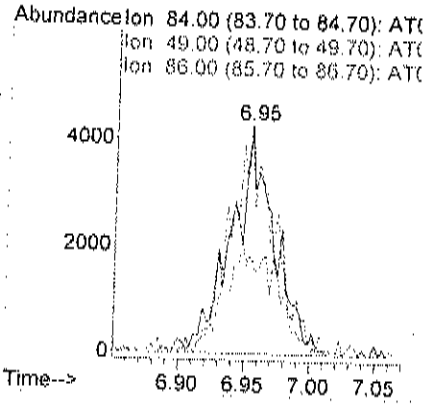


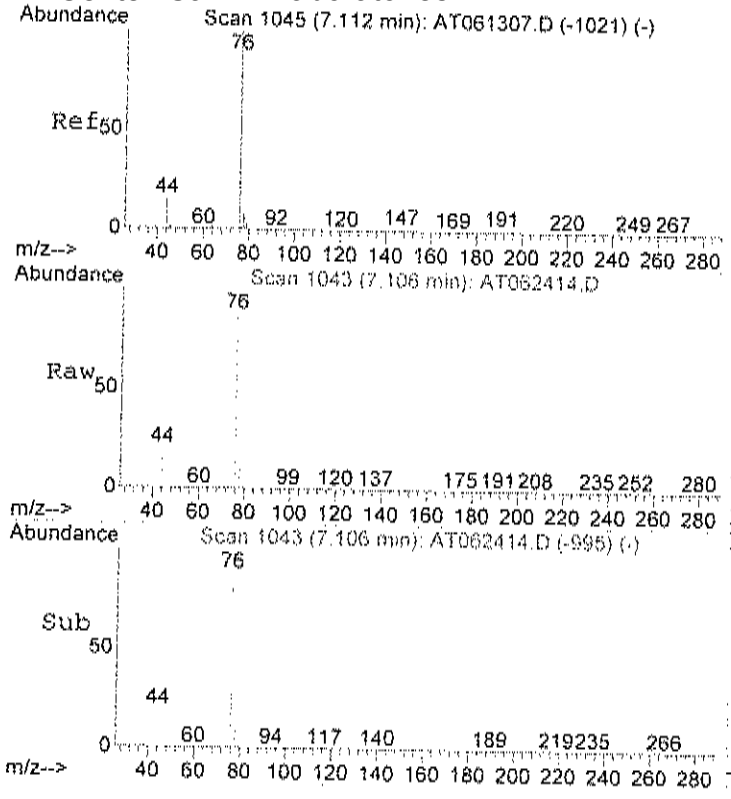
#21
Methylene chloride
Concen: 0.25 ppb
RT: 6.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: AT062414.D
Acq: 24 Jun 2022 7:32 pm

Tgt Ion: 84 Resp: 9554

Ion	Ratio	Lower	Upper
84	100		
49	104.4	93.2	133.2
86	59.5	46.4	86.4



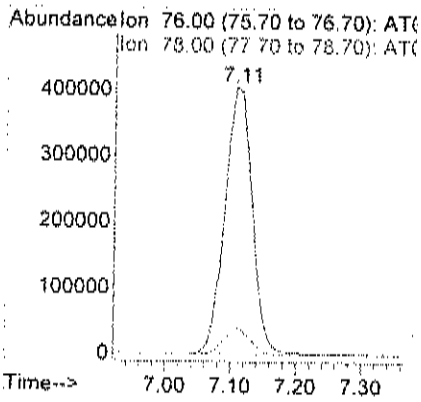


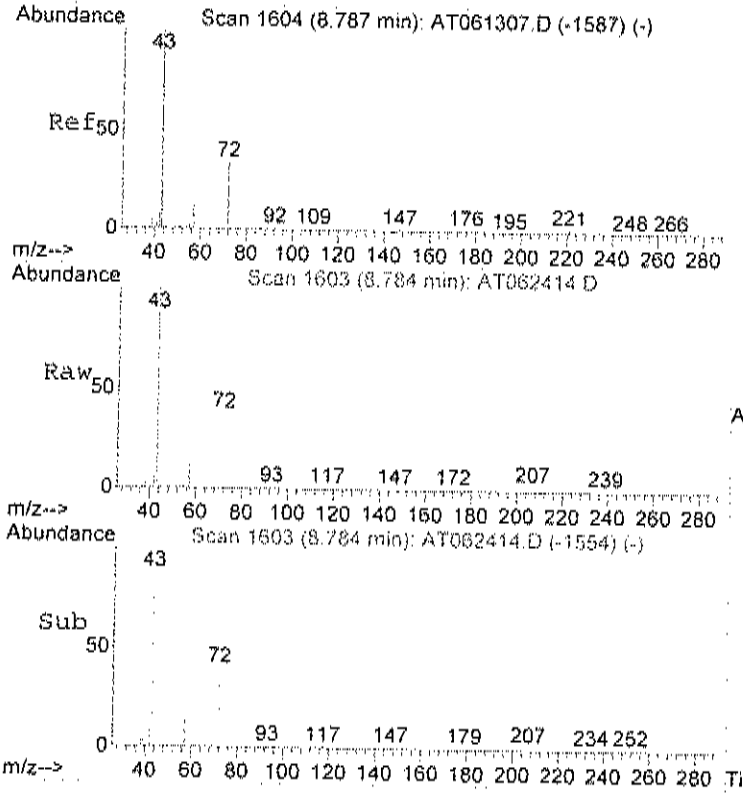


#23
Carbon disulfide
Concen: 10.34 ppb
RT: 7.11 min Scan# 1043
Delta R.T. -0.01 min
Lab File: AT062414.D
Acq: 24 Jun 2022 7:32 pm

Tgt Ion: 76 Resp: 1181806

Ion	Ratio	Lower	Upper
76	100		
78	9.4	0.0	29.7

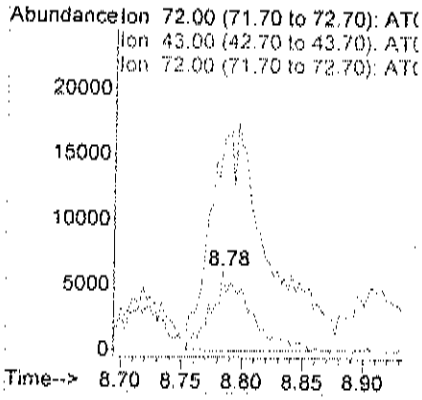


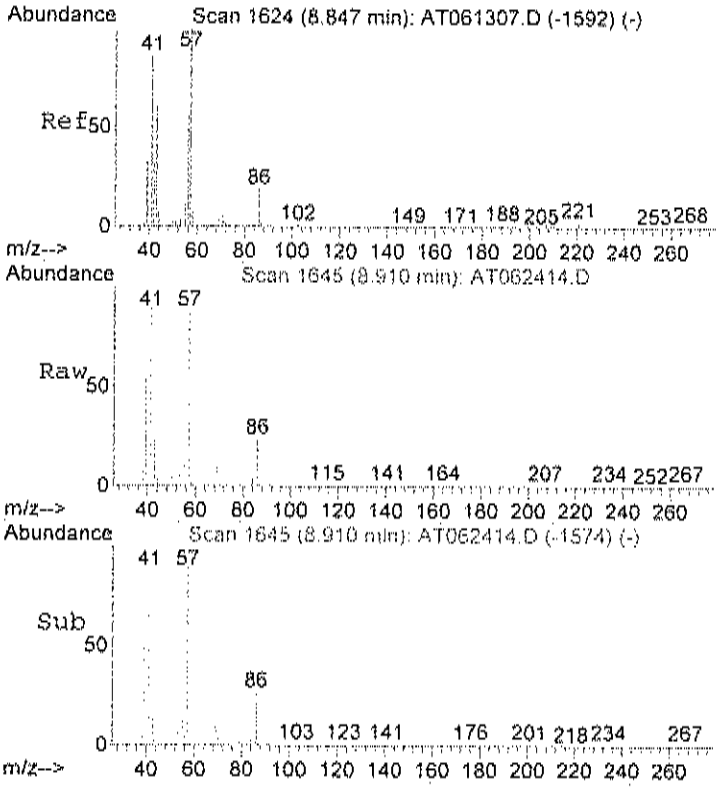


#28
Methyl Ethyl Ketone
Concen: 0.92 ppb
RT: 8.78 min Scan# 1603
Delta R.T. -0.00 min
Lab File: AT062414.D
Acq: 24 Jun 2022 7:32 pm

Tgt Ion: 72 Resp: 13691

Ion	Ratio	Lower	Upper
72	100		
43	423.5	0.0	20.0#
72	100.0	80.0	120.0

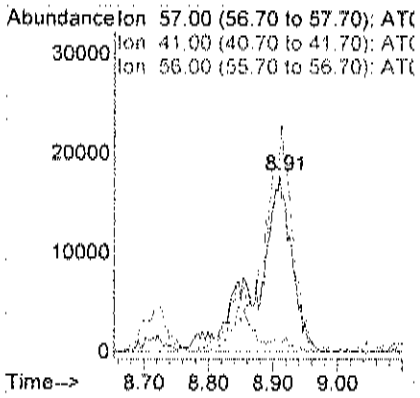


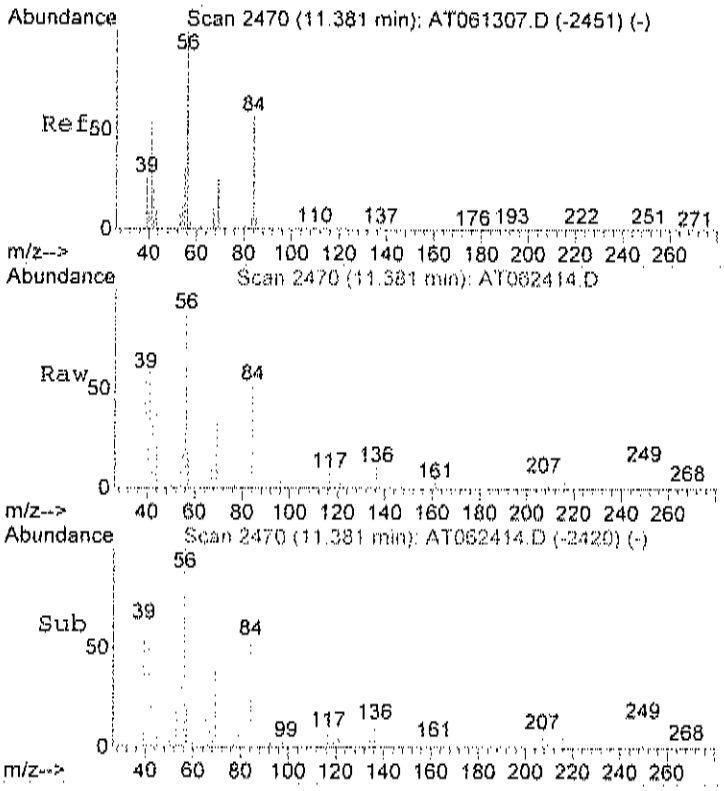


#30
Hexane
Concen: 1.54 ppb
RT: 8.91 min Scan# 1645
Delta R.T. 0.06 min
Lab File: AT062414.D
Acq: 24 Jun 2022 7:32 pm

Tgt Ion: 57 Resp: 69216

Ion	Ratio	Lower	Upper
57	100		
41	108.2	58.1	98.1#
56	0.5	28.7	68.7#

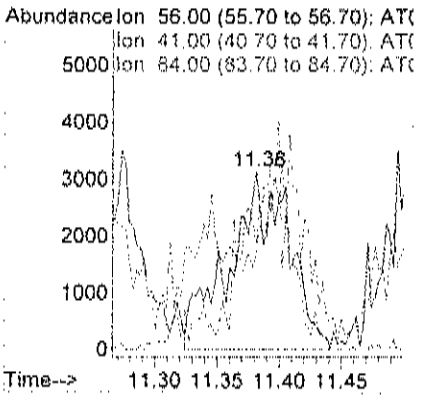


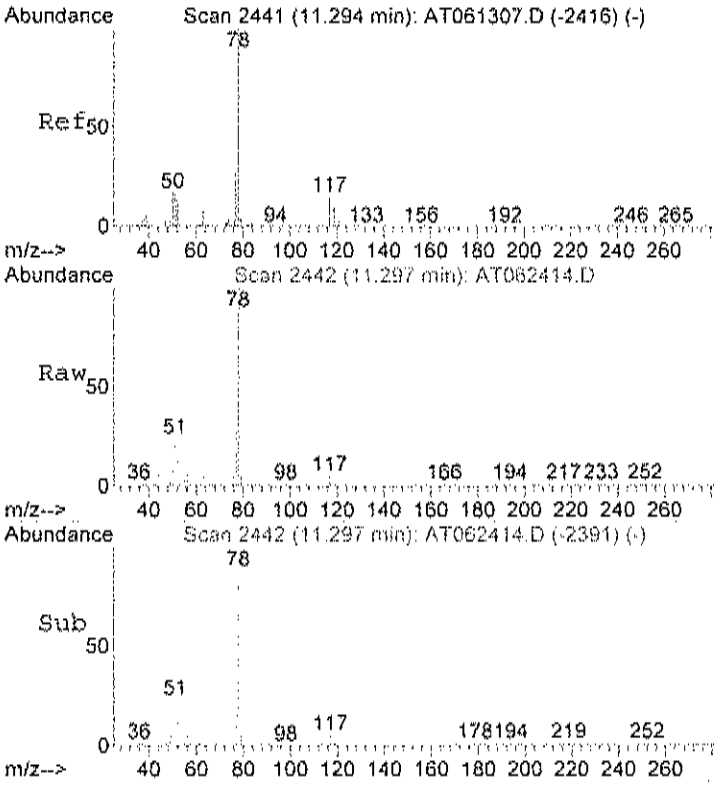


#37
Cyclohexane
Concen: 0.26 ppb
RT: 11.38 min Scan# 2470
Delta R.T. 0.00 min
Lab File: AT062414.D
Acq: 24 Jun 2022 7:32 pm

Tgt Ion: 56 Resp: 10375

Ion	Ratio	Lower	Upper
56	100		
41	127.9	40.3	80.3#
84	76.7	133.0	173.0#

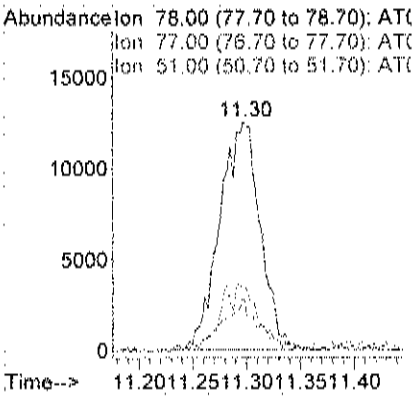


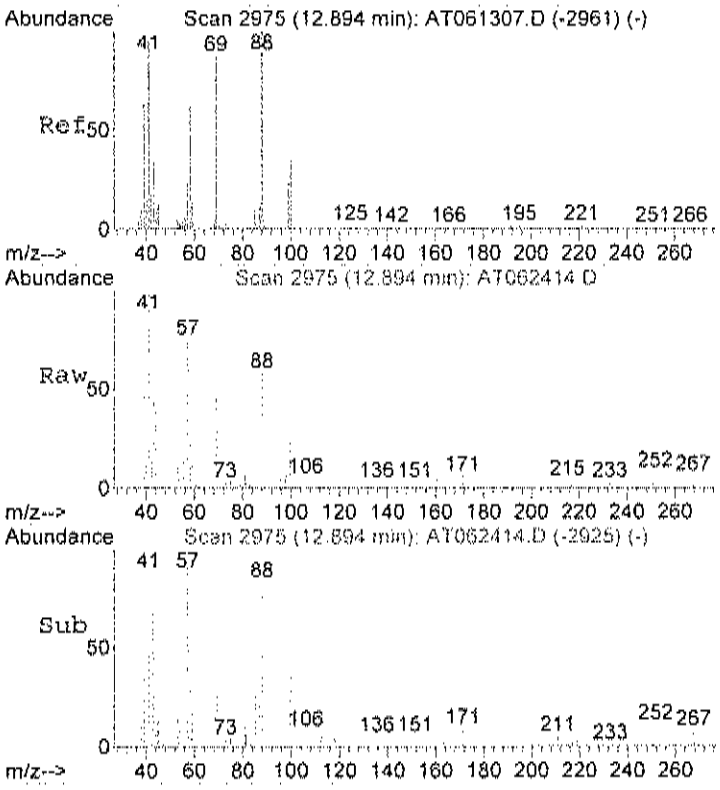


#39
Benzene
Concen: 0.34 ppb
RT: 11.30 min Scan# 2442
Delta R.T. 0.00 min
Lab File: AT062414.D
Acq: 24 Jun 2022 7:32 pm

Tgt Ion: 78 Resp: 32514

Ion	Ratio	Lower	Upper
78	100		
77	27.7	3.1	43.1
51	21.4	0.0	37.8

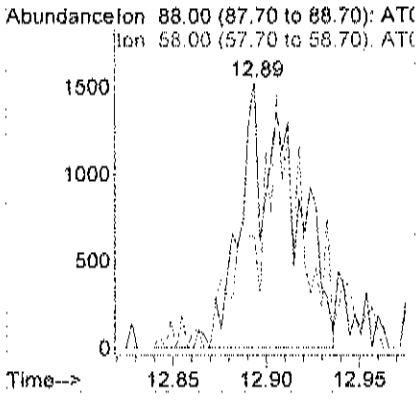


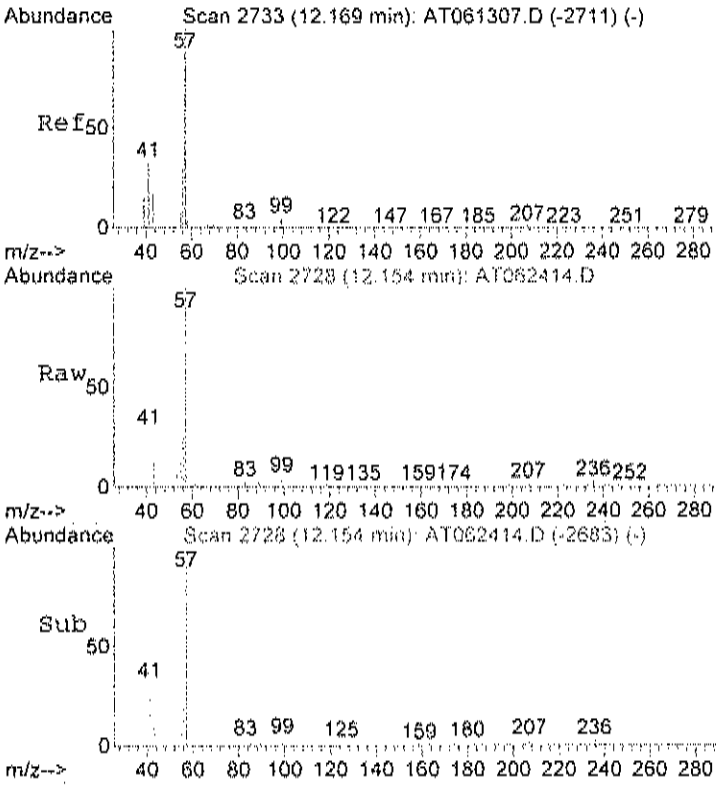


#41
1,4-dioxane
Concen: 0.13 ppb
RT: 12.89 min Scan# 2975
Delta R.T. 0.00 min
Lab File: AT062414.D
Acq: 24 Jun 2022 7:32 pm

Tgt Ion: 88 Resp: 2973

Ion	Ratio	Lower	Upper
88	100		
58	24.4	34.4	74.4#

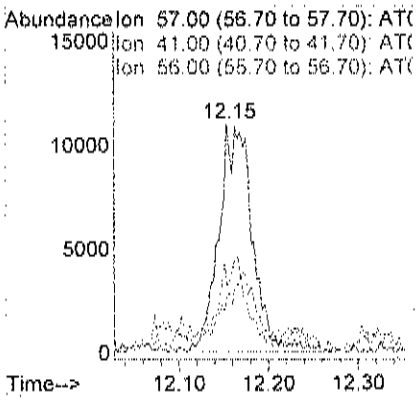


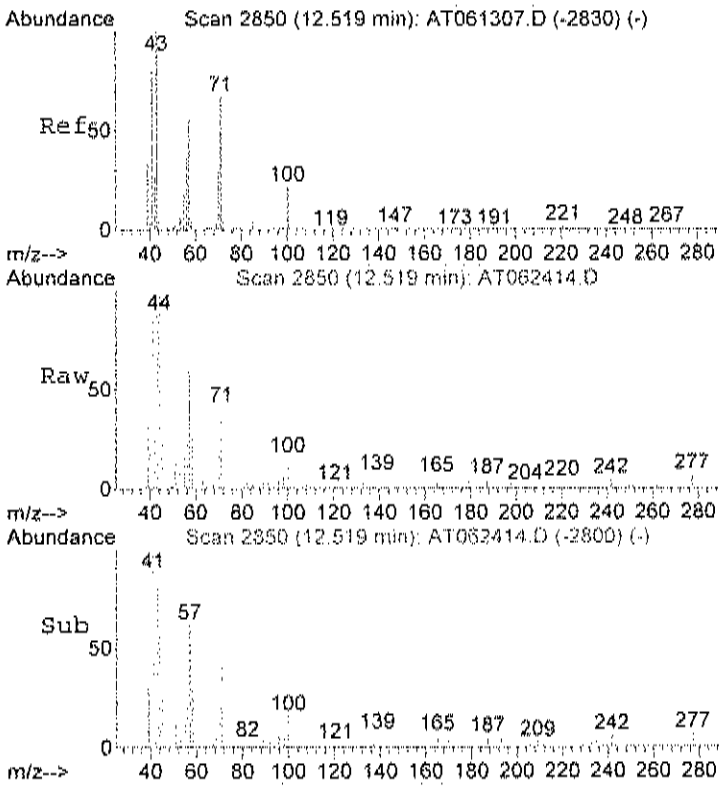


#42
2,2,4-trimethylpentane
Concen: 0.23 ppb
RT: 12.15 min Scan# 2728
Delta R.T. -0.01 min
Lab File: AT062414.D
Acq: 24 Jun 2022 7:32 pm

Tgt Ion: 57 Resp: 28743

Ion	Ratio	Lower	Upper
57	100		
41	64.4	15.3	55.3#
56	43.0	10.1	50.1

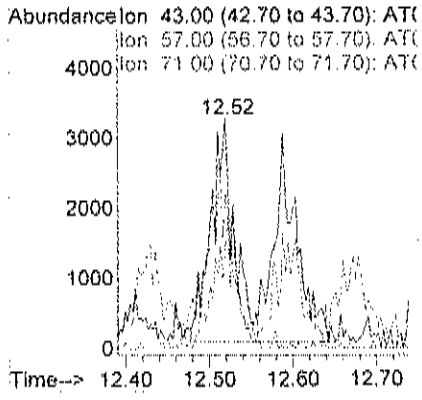


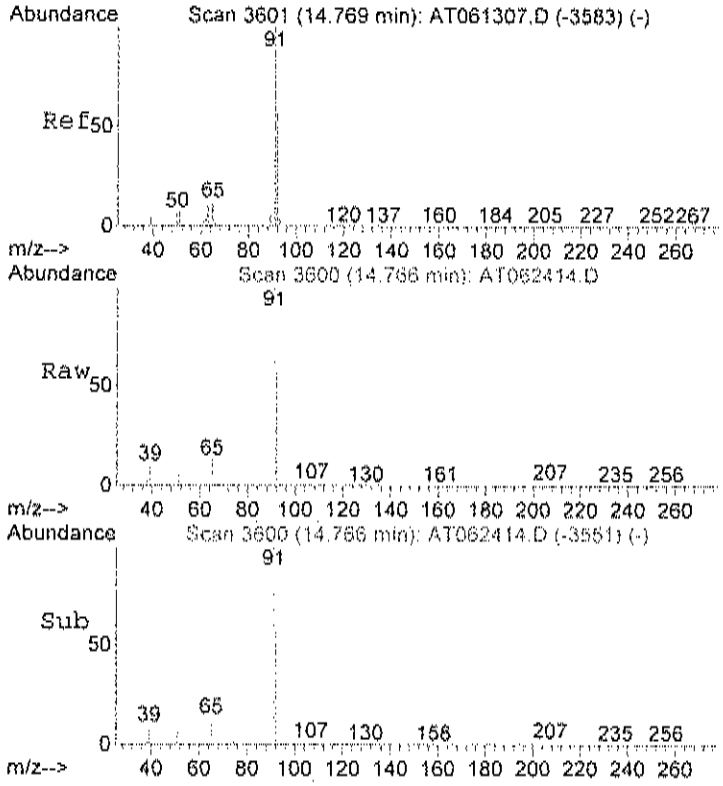


#43
Heptane
Concen: 0.26 ppb
RT: 12.52 min Scan# 2850
Delta R.T. -0.00 min
Lab File: AT062414.D
Acq: 24 Jun 2022 7:32 pm

Tgt Ion: 43 Resp: 11755

Ion	Ratio	Lower	Upper
43	100		
57	36.0	41.7	81.7#
71	30.0	53.4	93.4#

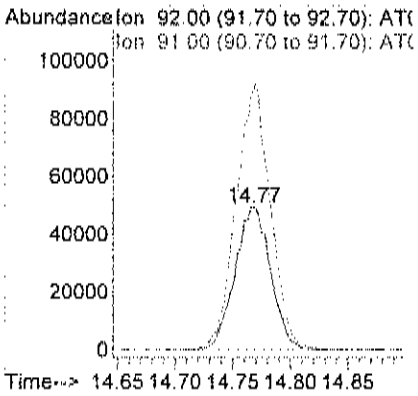


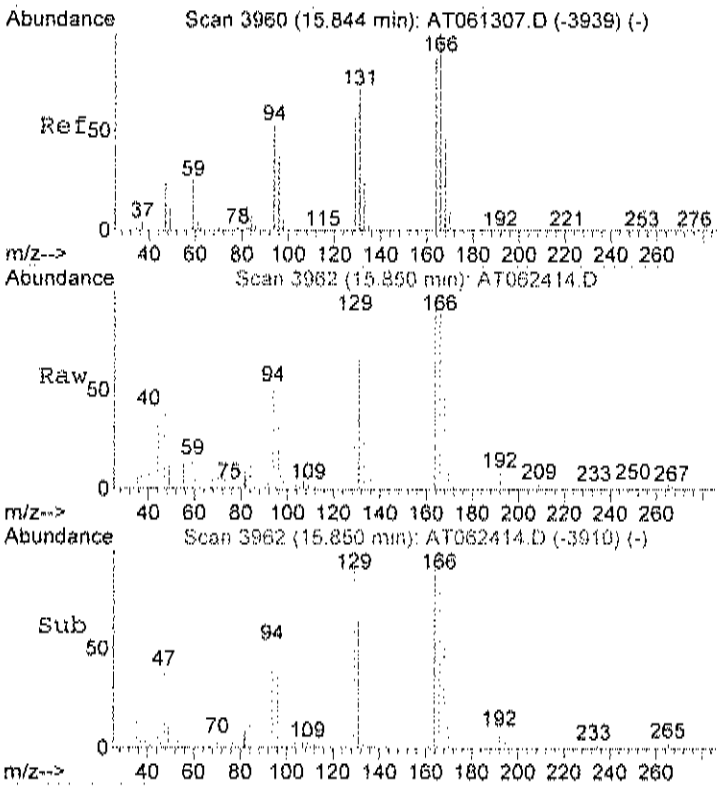


#51
Toluene
Concen: 1.44 ppb
RT: 14.77 min Scan# 3600
Delta R.T. -0.00 min
Lab File: AT062414.D
Acq: 24 Jun 2022 7:32 pm

Tgt Ion: 92 Resp: 106834

Ion	Ratio	Lower	Upper
92	100		
91	178.9	154.4	194.4

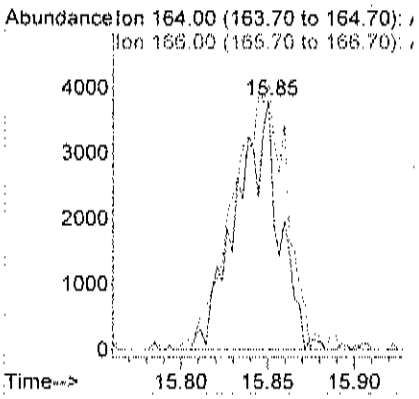


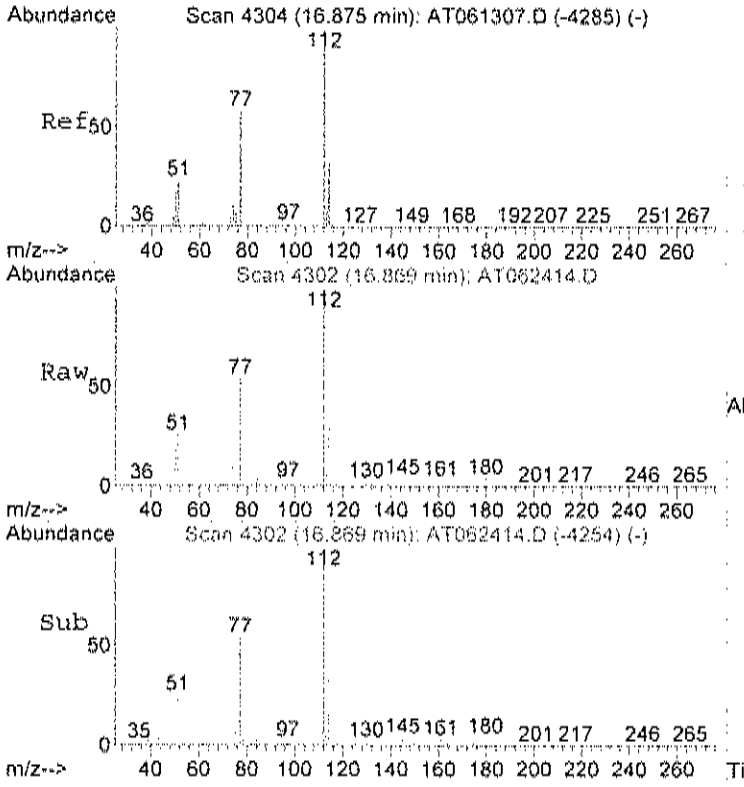


#56
Tetrachloroethylene
Concen: 0.11 ppb
RT: 15.85 min Scan# 3962
Delta R.T. 0.01 min
Lab File: AT062414.D
Acq: 24 Jun 2022 7:32 pm

Tgt Ion:164 Resp: 6568

Ion	Ratio	Lower	Upper
164	100		
166	130.7	107.7	147.7

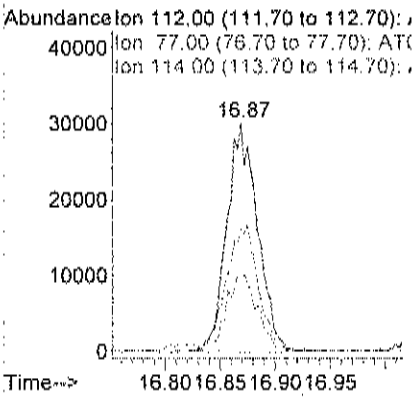


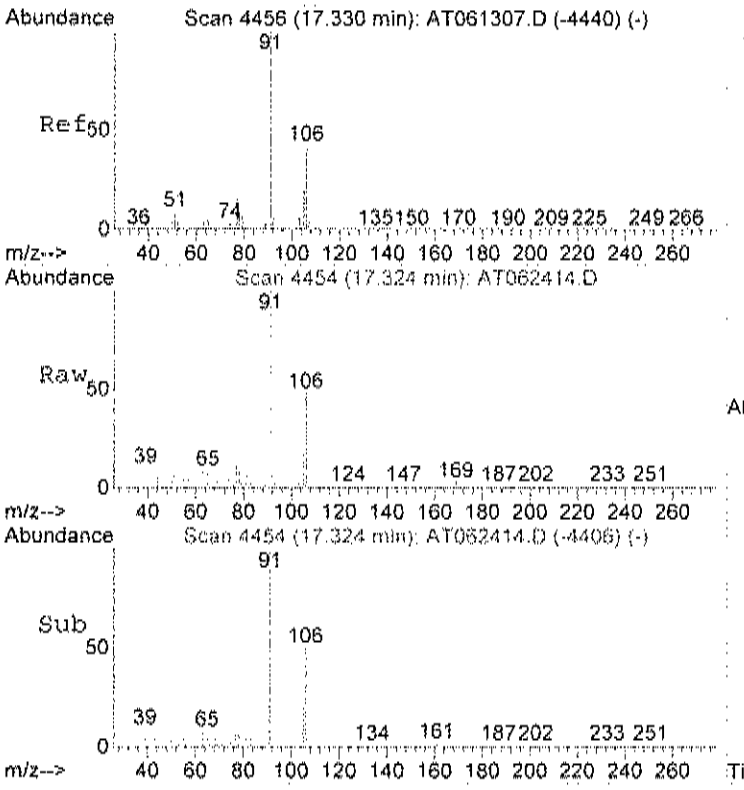


#57
Chlorobenzene
Concen: 0.54 ppb
RT: 16.87 min Scan# 4302
Delta R.T. -0.01 min
Lab File: AT062414.D
Acq: 24 Jun 2022 7:32 pm

Tgt Ion:112 Resp: 58703

Ion	Ratio	Lower	Upper
112	100		
77	56.6	34.4	74.4
114	35.0	12.6	52.6

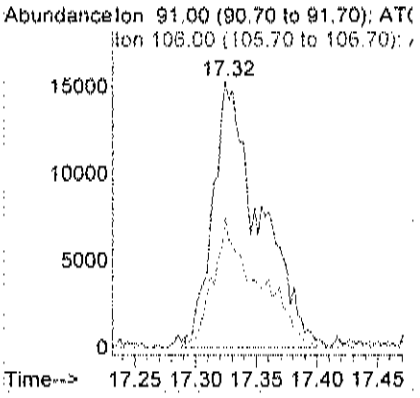


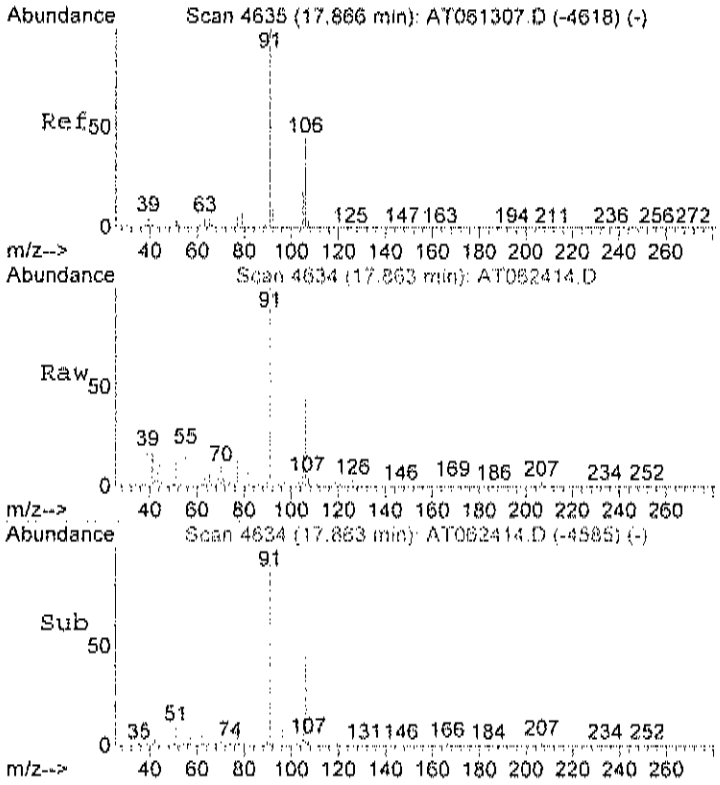


#59
m&p-xylene
Concen: 0.30 ppb
RT: 17.32 min Scan# 4454
Delta R.T. -0.01 min
Lab File: AT062414.D
Acq: 24 Jun 2022 7:32 pm

Tgt Ion: 91 Resp: 41452

Ion	Ratio	Lower	Upper
91	100		
106	46.1	27.9	67.9

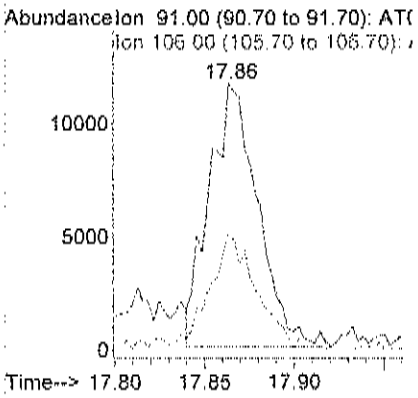


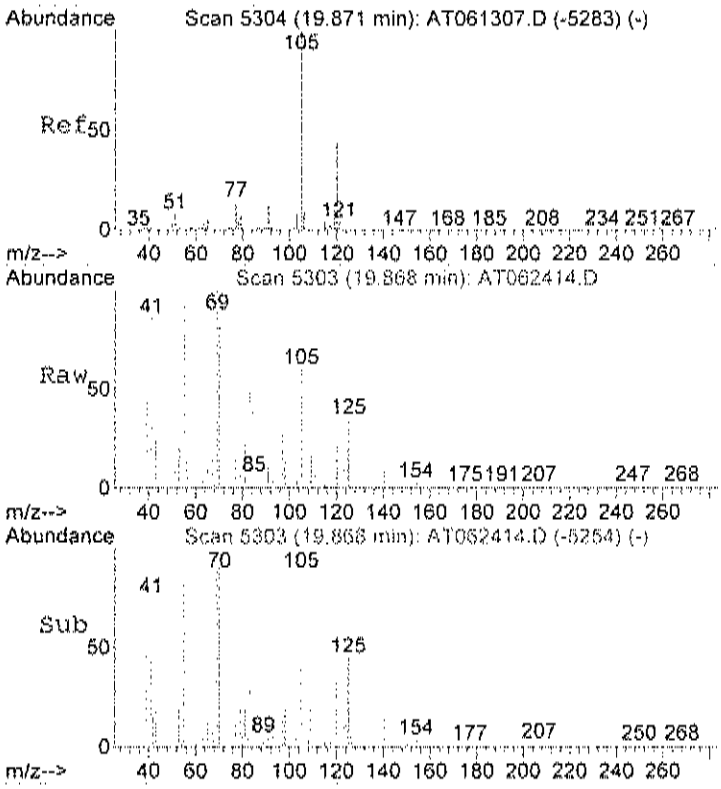


#63
o-xylene
Concen: 0.15 ppb
RT: 17.86 min Scan# 4634
Delta R.T. -0.00 min
Lab File: AT062414.D
Acq: 24 Jun 2022 7:32 pm

Tgt Ion: 91 Resp: 21965

Ion	Ratio	Lower	Upper
91	100		
106	43.4	25.1	65.1

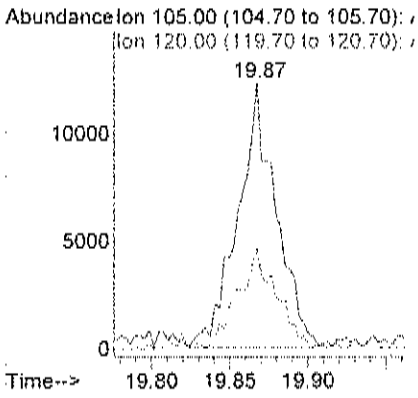


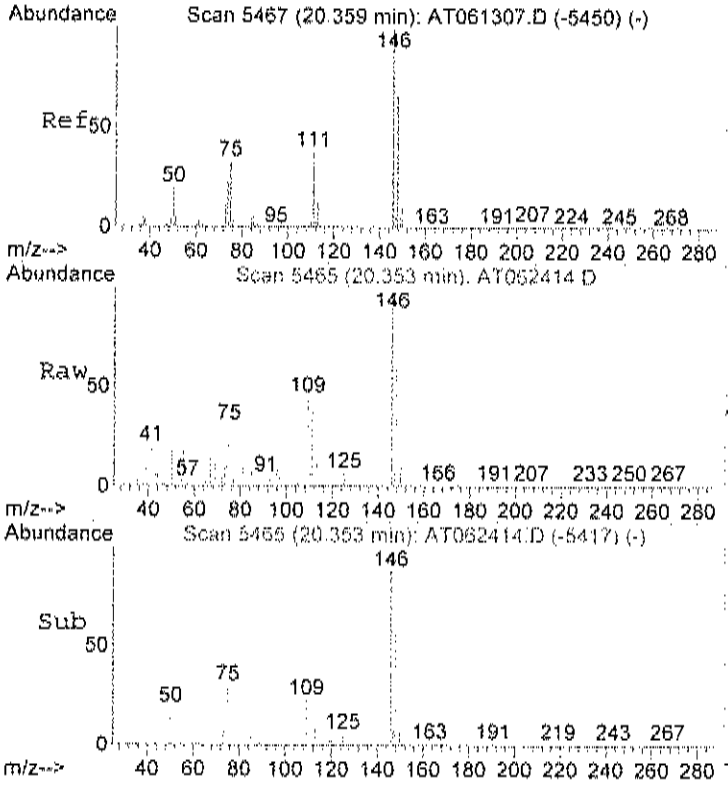


#71
1,2,4-trimethylbenzene
Concen: 0.12 ppb
RT: 19.87 min Scan# 5303
Delta R.T. -0.00 min
Lab File: AT062414.D
Acq: 24 Jun 2022 7:32 pm

Tgt Ion:105 Resp: 20756

Ion	Ratio	Lower	Upper
105	100		
120	38.8	23.8	63.8

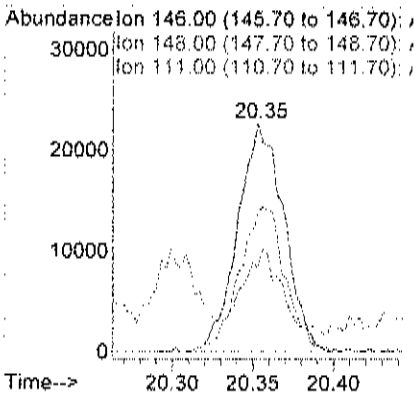




#74
1,4-dichlorobenzene
Concen: 0.42 ppb
RT: 20.35 min Scan# 5465
Delta R.T. -0.01 min
Lab File: AT062414.D
Acq: 24 Jun 2022 7:32 pm

Tgt Ion:146 Resp: 45180

Ion	Ratio	Lower	Upper
146	100		
148	62.9	44.4	84.4
111	33.3	17.5	57.5



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062721.D
Acq On : 28 Jun 2022 12:51 am
Sample : C2206048-005A 20X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 28 07:18:40 2022

Vial: 21
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.71	128	29702	1.00	ppb	0.02
35) 1,4-difluorobenzene	12.00	114	128310	1.00	ppb	0.00
50) Chlorobenzene-d5	16.82	117	112267	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.61	95	69252	0.85	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 85.00%			
Target Compounds						Qvalue
15) Acetone	5.91	58	29929m	1.73	ppb	
23) Carbon disulfide	7.12	76	60678	0.54	ppb	99

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

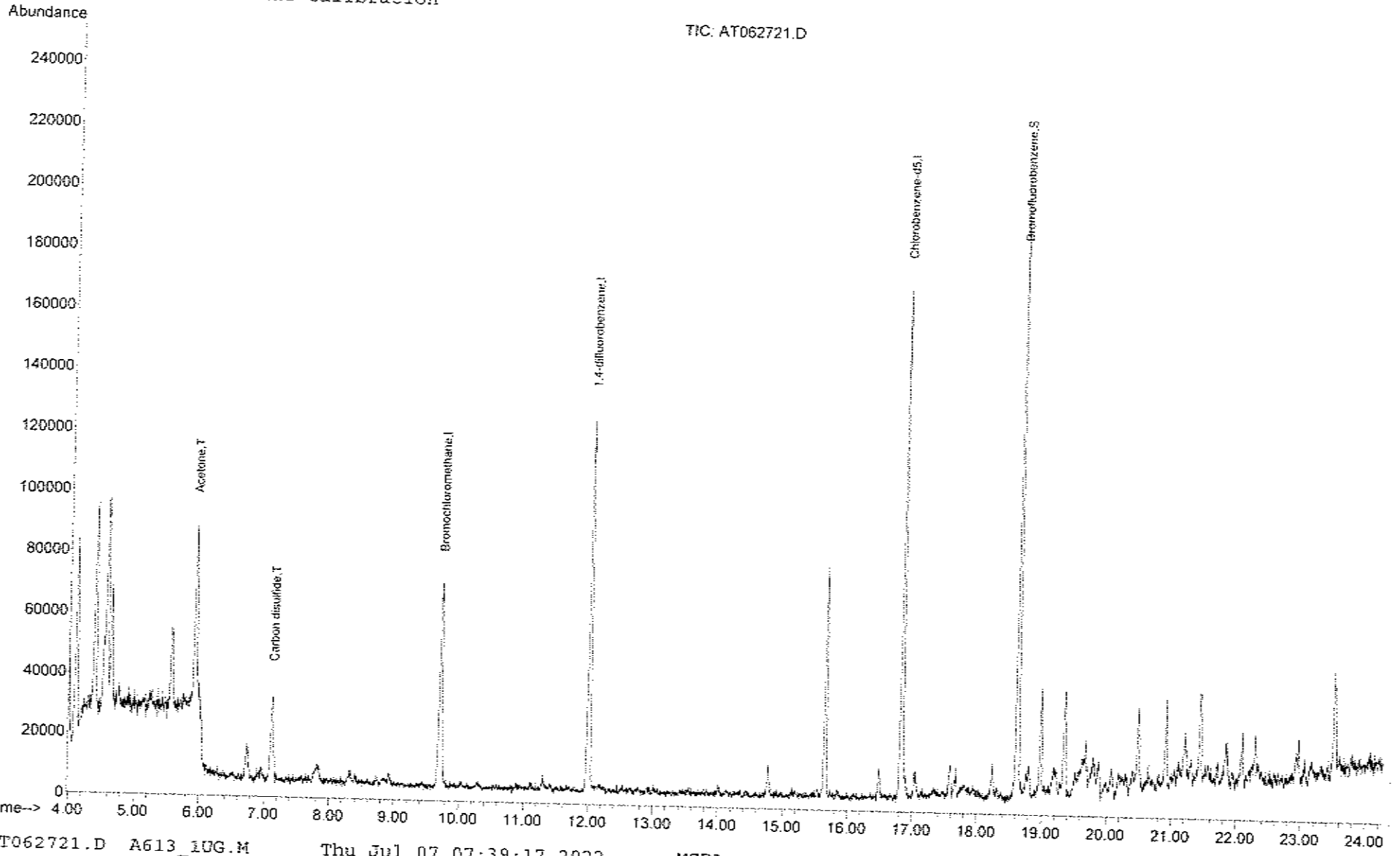
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062721.D
Acq On : 28 Jun 2022 12:51 am
Sample : C2206048-005A 20X
Misc : A613_1UG
MS Integration Params: RTEINT.p
Quant Time: Jun 29 11:15 2022

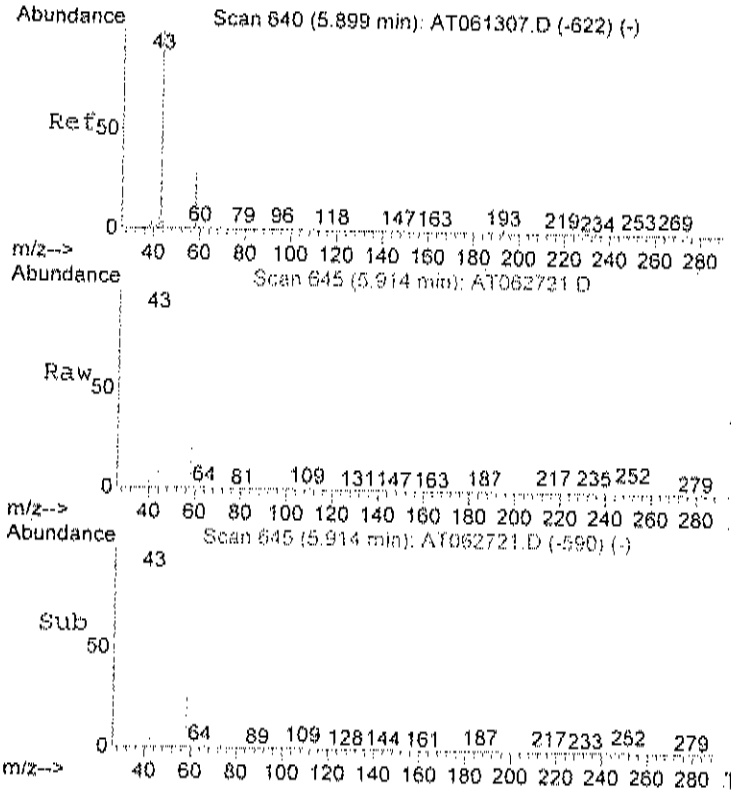
Vial: 21
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



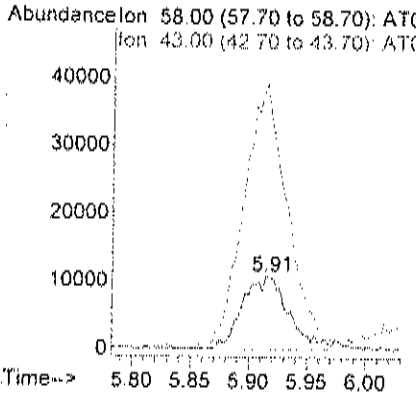
Centek/SanAir Laboratories

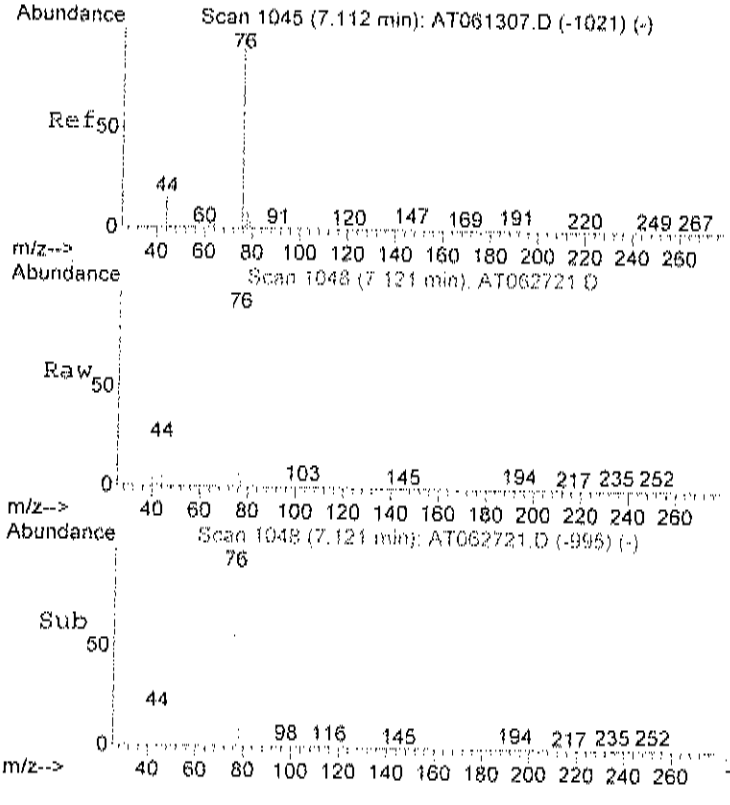


#15
Acetone
Concen: 1.73 ppb m
RT: 5.91 min Scan# 645
Delta R.T. 0.02 min
Lab File: AT062721.D
Acq: 28 Jun 2022 12:51 am

Tgt Ion: 58 Resp: 29929

Ion	Ratio	Lower	Upper
58	100		
43	376.3	268.9	328.9#

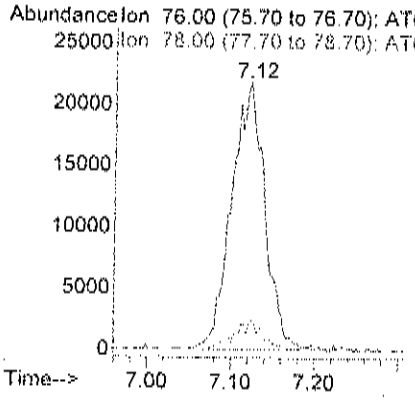




#23
Carbon disulfide
Concen: 0.54 ppb
RT: 7.12 min Scan# 1048
Delta R.T. 0.01 min
Lab File: AT062721.D
Acq: 28 Jun 2022 12:51 am

Tgt Ion: 76 Resp: 60678

Ion	Ratio	Lower	Upper
76	100		
78	9.4	0.0	29.7



Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-006A

Client Sample ID: SVW-5
Tag Number: 245,155
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-4			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: NP
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,4-Dichlorobenzene	0.16	0.15		ppbV	1	6/24/2022 8:16:00 PM
1,4-Dioxane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
2,2,4-trimethylpentane	< 0.30	0.30		ppbV	1	6/24/2022 8:16:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Acetone	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Allyl chloride	20	3.0		ppbV	10	6/28/2022 1:33:00 AM
Benzene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Benzyl chloride	0.17	0.15		ppbV	1	6/24/2022 8:16:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Carbon tetrachloride	1.1	0.15		ppbV	1	6/24/2022 8:16:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Chloroform	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM

Qualifiers:

- `*` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-006A

Client Sample ID: SVW-5
Tag Number: 245,155
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Ethyl acetate	0.37	0.15		ppbV	1	6/24/2022 8:16:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Freon 11	0.63	0.15		ppbV	1	6/24/2022 8:16:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Freon 12	0.55	0.15		ppbV	1	6/24/2022 8:16:00 PM
Heptane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Hexane	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
m&p-Xylene	0.21	0.30	J	ppbV	1	6/24/2022 8:16:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 8:16:00 PM
Methyl Ethyl Ketone	0.70	0.30		ppbV	1	6/24/2022 8:16:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 8:16:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Methylene chloride	0.26	0.15		ppbV	1	6/24/2022 8:16:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Tetrachloroethylene	0.24	0.15		ppbV	1	6/24/2022 8:16:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Toluene	0.74	0.15		ppbV	1	6/24/2022 8:16:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 8:16:00 PM
Surr: Bromofluorobenzene	92.0	46.7-129		%REC	1	6/24/2022 8:16:00 PM

Qualifiers:

- `*` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-006A

Client Sample ID: SVW-5
Tag Number: 245,155
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 8:16:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/24/2022 8:16:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 8:16:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 8:16:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 8:16:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/24/2022 8:16:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/24/2022 8:16:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/24/2022 8:16:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 8:16:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 8:16:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/24/2022 8:16:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/24/2022 8:16:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/24/2022 8:16:00 PM
1,3-Dichlorobenzene	0.96	0.90		ug/m3	1	6/24/2022 8:16:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 8:16:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/24/2022 8:16:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	6/24/2022 8:16:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/24/2022 8:16:00 PM
Acetone	47	7.1		ug/m3	10	6/28/2022 1:33:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/24/2022 8:16:00 PM
Benzene	0.54	0.48		ug/m3	1	6/24/2022 8:16:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/24/2022 8:16:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/24/2022 8:16:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/24/2022 8:16:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/24/2022 8:16:00 PM
Carbon disulfide	3.4	0.47		ug/m3	1	6/24/2022 8:16:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/24/2022 8:16:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/24/2022 8:16:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/24/2022 8:16:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	6/24/2022 8:16:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/24/2022 8:16:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 8:16:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 8:16:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/24/2022 8:16:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/24/2022 8:16:00 PM
Ethyl acetate	1.3	0.54		ug/m3	1	6/24/2022 8:16:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	6/24/2022 8:16:00 PM
Freon 11	3.5	0.84		ug/m3	1	6/24/2022 8:16:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/24/2022 8:16:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/24/2022 8:16:00 PM

Qualifiers:

- . Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-006A

Client Sample ID: SVW-5
Tag Number: 245,155
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.7	0.74		ug/m3	1	6/24/2022 8:16:00 PM
Heptane	< 0.61	0.61		ug/m3	1	6/24/2022 8:16:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/24/2022 8:16:00 PM
Hexane	< 0.53	0.53		ug/m3	1	6/24/2022 8:16:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/24/2022 8:16:00 PM
m&p-Xylene	0.91	1.3	J	ug/m3	1	6/24/2022 8:16:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 8:16:00 PM
Methyl Ethyl Ketone	2.1	0.88		ug/m3	1	6/24/2022 8:16:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 8:16:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/24/2022 8:16:00 PM
Methylene chloride	0.90	0.52		ug/m3	1	6/24/2022 8:16:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	6/24/2022 8:16:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/24/2022 8:16:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/24/2022 8:16:00 PM
Tetrachloroethylene	1.6	1.0		ug/m3	1	6/24/2022 8:16:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/24/2022 8:16:00 PM
Toluene	2.8	0.57		ug/m3	1	6/24/2022 8:16:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 8:16:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 8:16:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	6/24/2022 8:16:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/24/2022 8:16:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/24/2022 8:16:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/24/2022 8:16:00 PM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062415.D
Acq On : 24 Jun 2022 8:16 pm
Sample : C2206048-006A
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 27 11:20:33 2022

Vial: 15
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.69	128	29855	1.00	ppb		0.00
35) 1,4-difluorobenzene	12.00	114	138749	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	123320	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	82398	0.92	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 92.00%				
Target Compounds							Qvalue
3) Freon 12	4.14	85	75828	0.55	ppb		98
14) Freon 11	5.74	101	106812	0.63	ppb		100
15) Acetone	5.90	58	351676	20.25	ppb	#	80
21) Methylene chloride	6.96	84	9667	0.26	ppb		92
23) Carbon disulfide	7.10	76	124616	1.10	ppb		98
28) Methyl Ethyl Ketone	8.78	72	10405	0.70	ppb	#	100
31) Ethyl acetate	9.39	43	25473	0.37	ppb		96
39) Benzene	11.30	78	16652	0.17	ppb		96
51) Toluene	14.77	92	53707	0.74	ppb		96
56) Tetrachloroethylene	15.84	164	13553	0.24	ppb		97
59) m&p-xylene	17.33	91	28791	0.21	ppb		99
72) 1,3-dichlorobenzene	20.21	146	17257	0.16	ppb		93

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

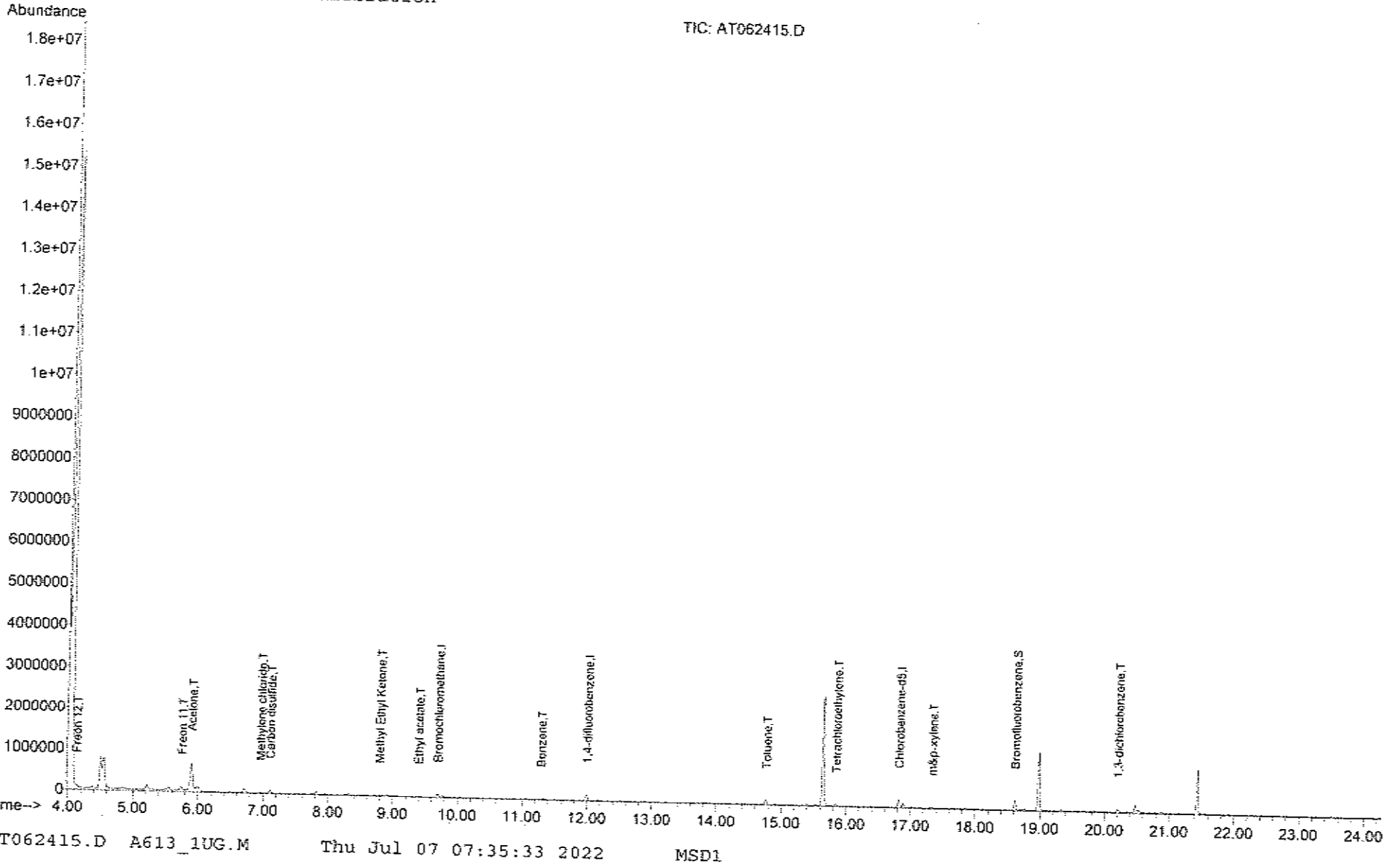
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062415.D
Acq On : 24 Jun 2022 8:16 pm
Sample : C2206048-006A
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 28 13:44 2022

Vial: 15
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

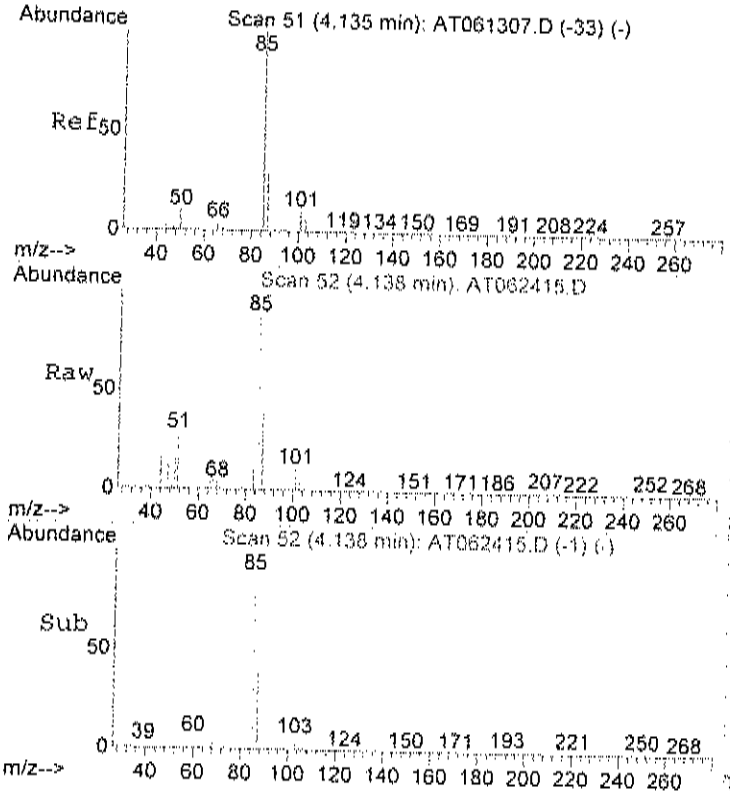
Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



AT062415.D A613_1UG.M Thu Jul 07 07:35:33 2022 MSD1

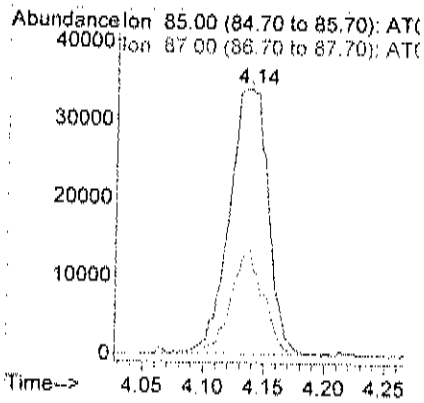
Centek/SanAir Laboratories

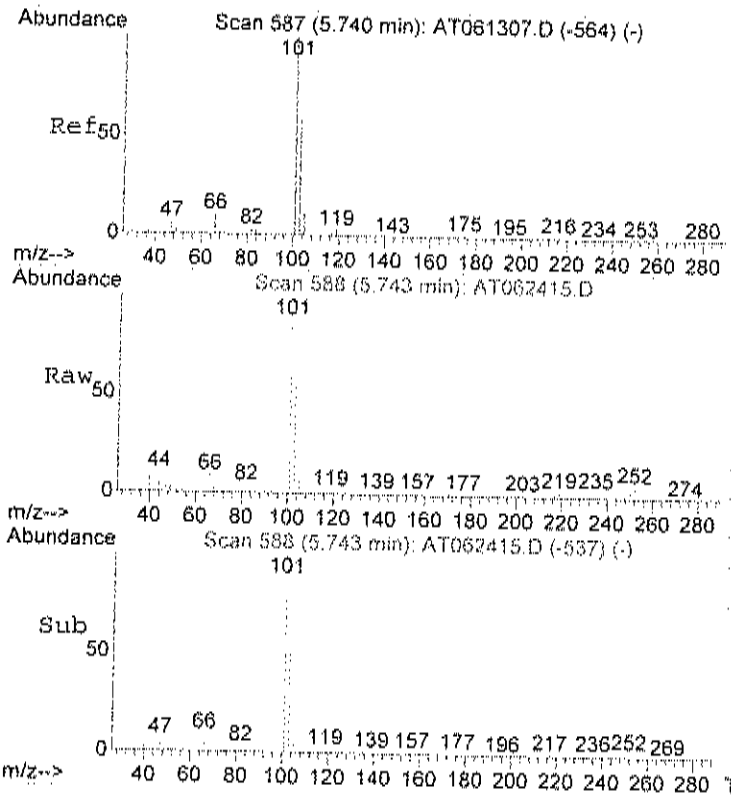


#3
Freon 12
Concen: 0.55 ppb
RT: 4.14 min Scan# 52
Delta R.T. 0.00 min
Lab File: AT062415.D
Acq: 24 Jun 2022 8:16 pm

Tgt Ion: 85 Resp: 75828

Ion	Ratio	Lower	Upper
85	100		
87	34.0	12.8	52.8

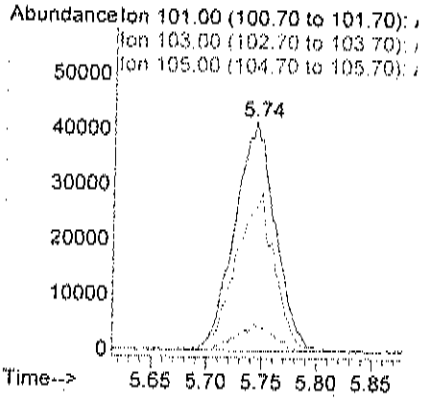


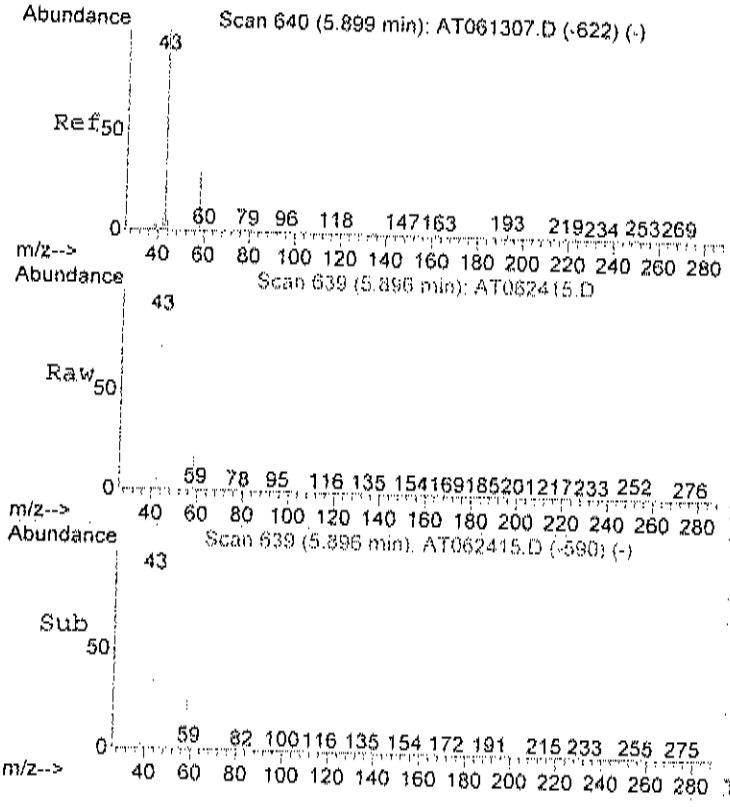


#14
Freon 11
Concen: 0.63 ppb
RT: 5.74 min Scan# 588
Delta R.T. 0.00 min
Lab File: AT062415.D
Acq: 24 Jun 2022 8:16 pm

Tgt Ion:101 Resp: 106812

Ion	Ratio	Lower	Upper
101	100		
103	66.0	46.3	86.3
105	11.1	0.0	31.2

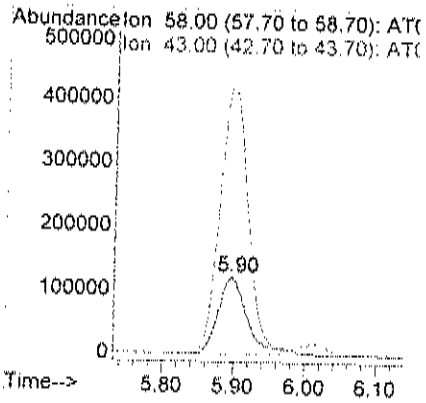


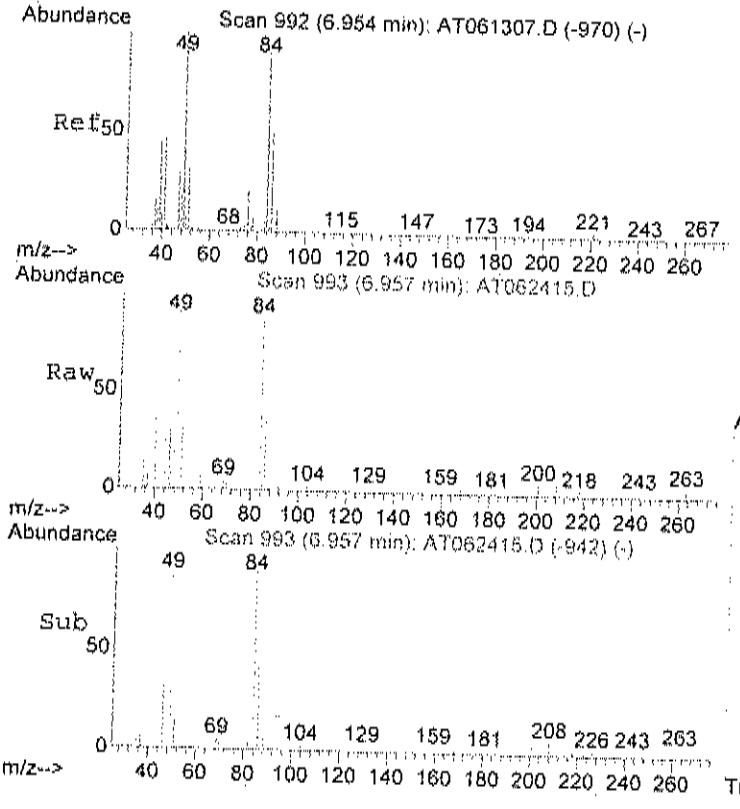


#15
Acetone
Concen: 20.25 ppb
RT: 5.90 min Scan# 639
Delta R.T. -0.00 min
Lab File: AT062415.D
Acq: 24 Jun 2022 8:16 pm

Tgt Ion: 58 Resp: 351676

Ion	Ratio	Lower	Upper
58	100		
43	338.2	268.9	328.9#

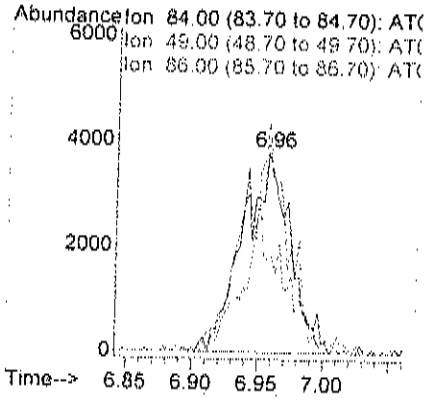


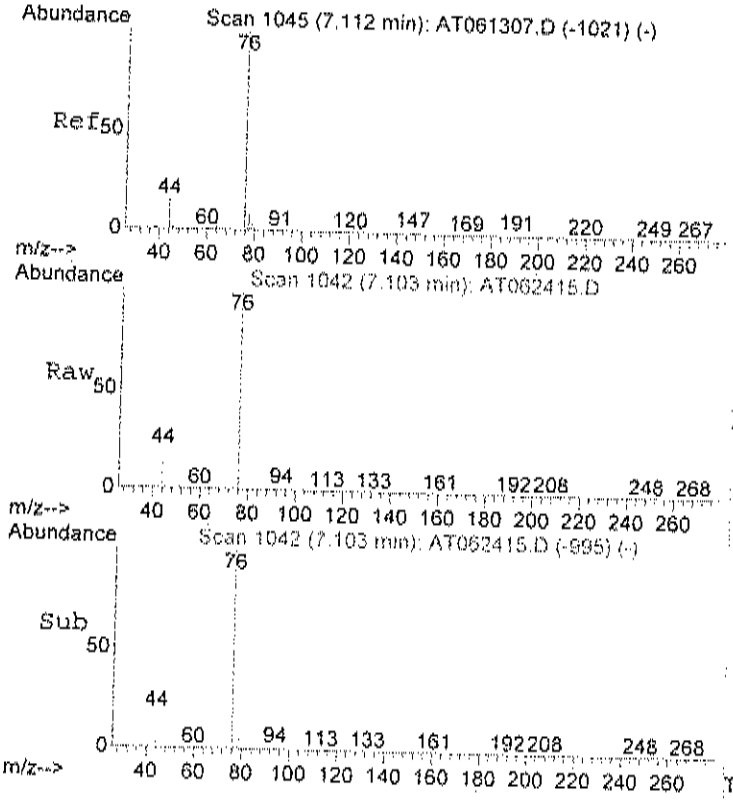


#21
Methylene chloride
Concen: 0.26 ppb
RT: 6.96 min Scan# 993
Delta R.T. 0.00 min
Lab File: AT062415.D
Acq: 24 Jun 2022 8:16 pm

Tgt Ion: 84 Resp: 9667

Ion	Ratio	Lower	Upper
84	100		
49	103.8	93.2	133.2
86	60.0	46.4	86.4

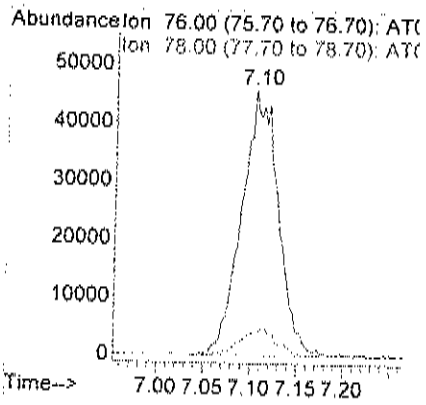


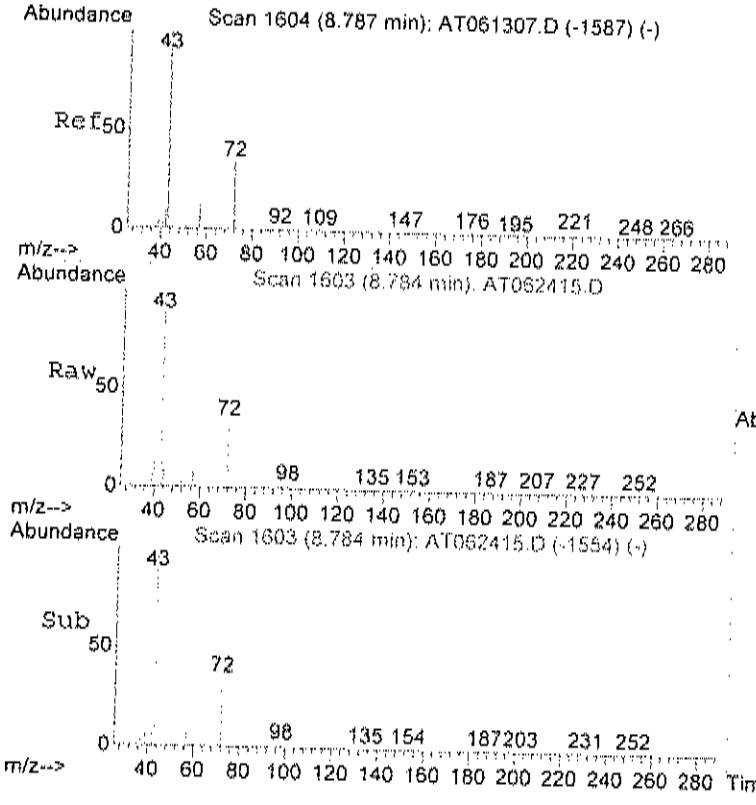


#23
Carbon disulfide
Concen: 1.10 ppb
RT: 7.10 min Scan# 1042
Delta R.T. -0.01 min
Lab File: AT062415.D
Acq: 24 Jun 2022 8:16 pm

Tgt Ion: 76 Resp: 124616

Ion	Ratio	Lower	Upper
76	100		
78	10.3	0.0	29.7

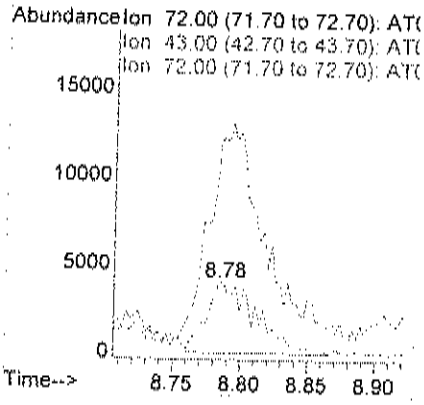


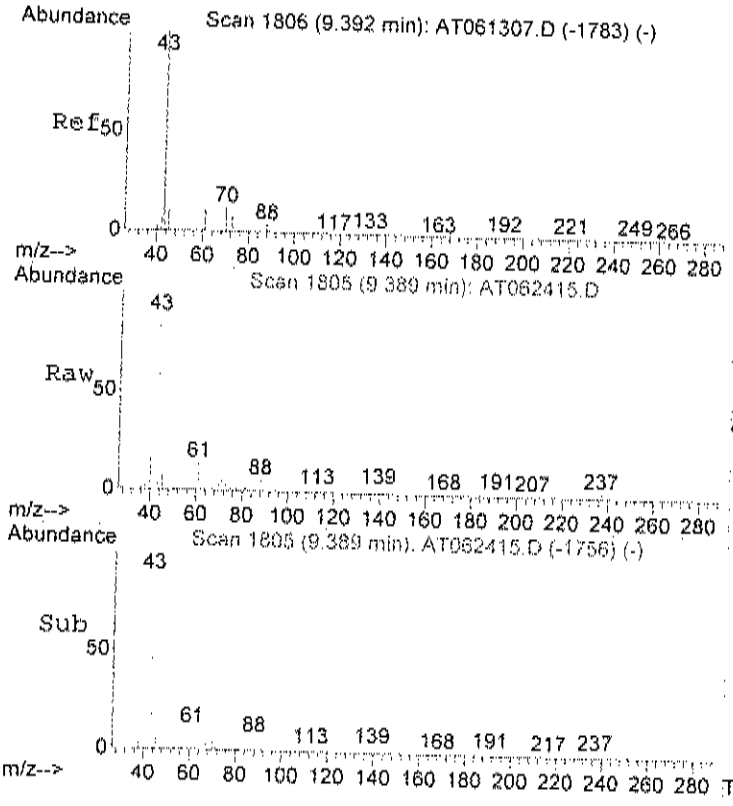


#28
Methyl Ethyl Ketone
Concen: 0.70 ppb
RT: 8.78 min Scan# 1603
Delta R.T. -0.00 min
Lab File: AT062415.D
Acq: 24 Jun 2022 8:16 pm

Tgt Ion: 72 Resp: 10405

Ion	Ratio	Lower	Upper
72	100		
43	380.0	0.0	20.0#
72	100.0	80.0	120.0

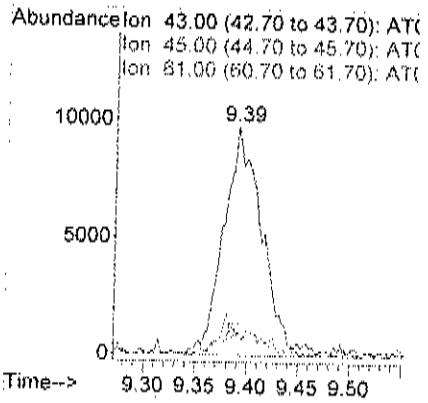


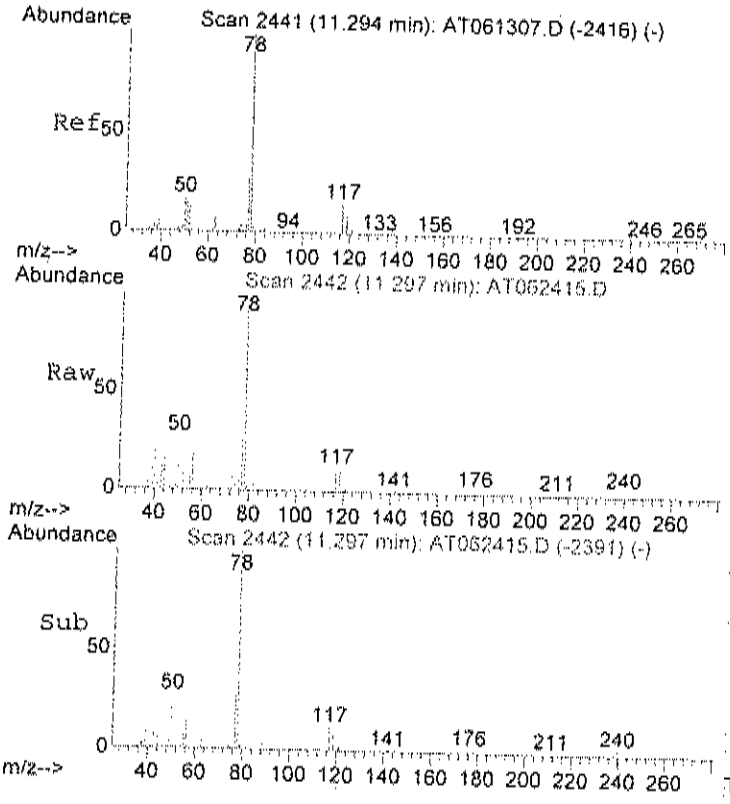


#31
Ethyl acetate
Concen: 0.37 ppb
RT: 9.39 min Scan# 1805
Delta R.T. -0.00 min
Lab File: AT062415.D
Acq: 24 Jun 2022 8:16 pm

Tgt Ion: 43 Resp: 25473

Ion	Ratio	Lower	Upper
43	100		
45	14.7	0.0	33.7
61	12.8	0.0	34.7

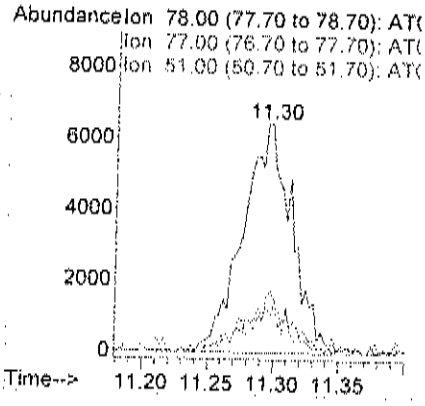


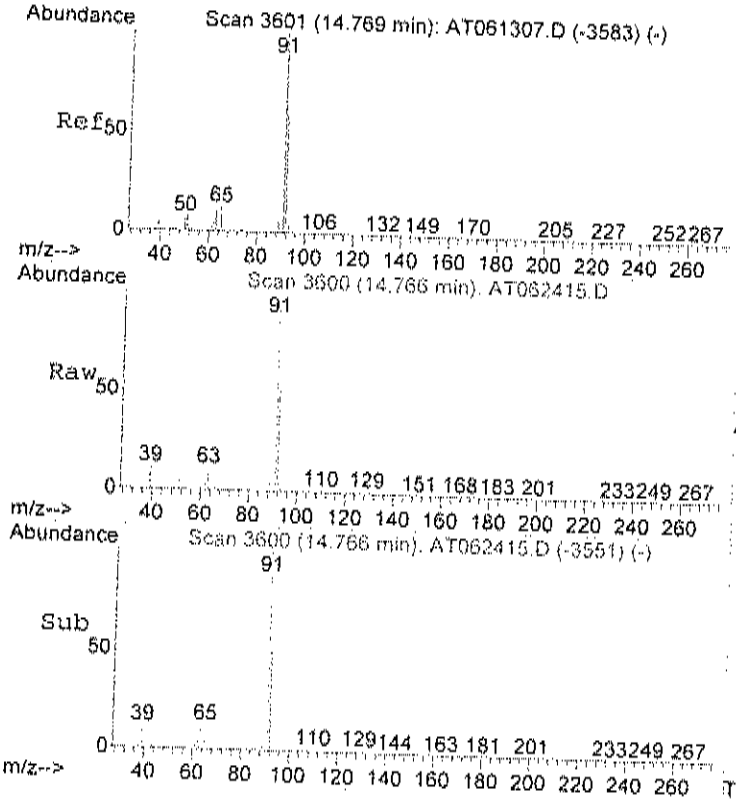


#39
Benzene
Concen: 0.17 ppb
RT: 11.30 min Scan# 2442
Delta R.T. 0.00 min
Lab File: AT062415.D
Acq: 24 Jun 2022 8:16 pm

Tgt Ion: 78 Resp: 16652

Ion	Ratio	Lower	Upper
78	100		
77	21.9	3.1	43.1
51	20.0	0.0	37.8

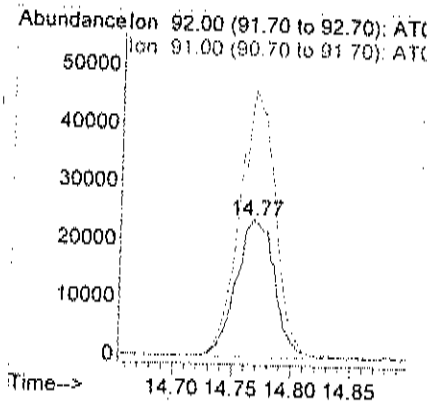


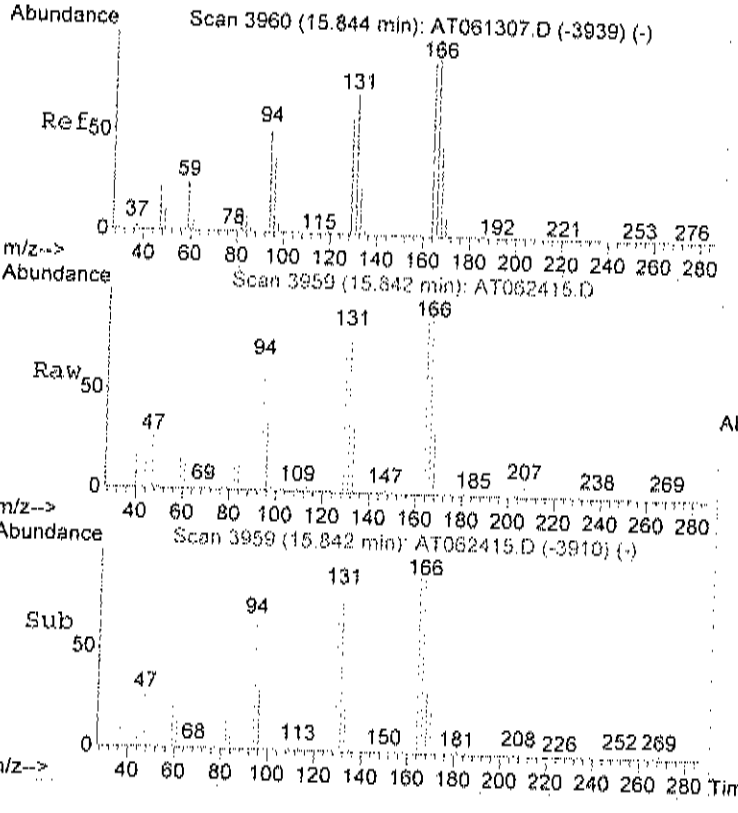


#51
Toluene
Concen: 0.74 ppb
RT: 14.77 min Scan# 3600
Delta R.T. -0.00 min
Lab File: AT062415.D
Acq: 24 Jun 2022 8:16 pm

Tgt Ion: 92 Resp: 53707

Ion	Ratio	Lower	Upper
92	100		
91	179.5	154.4	194.4

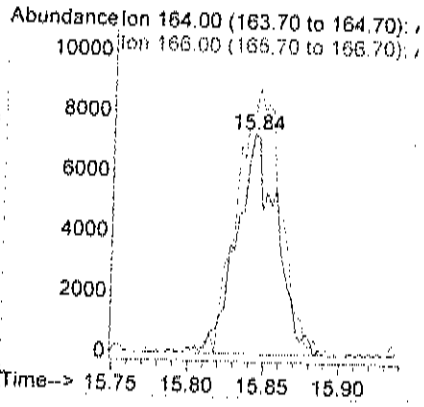


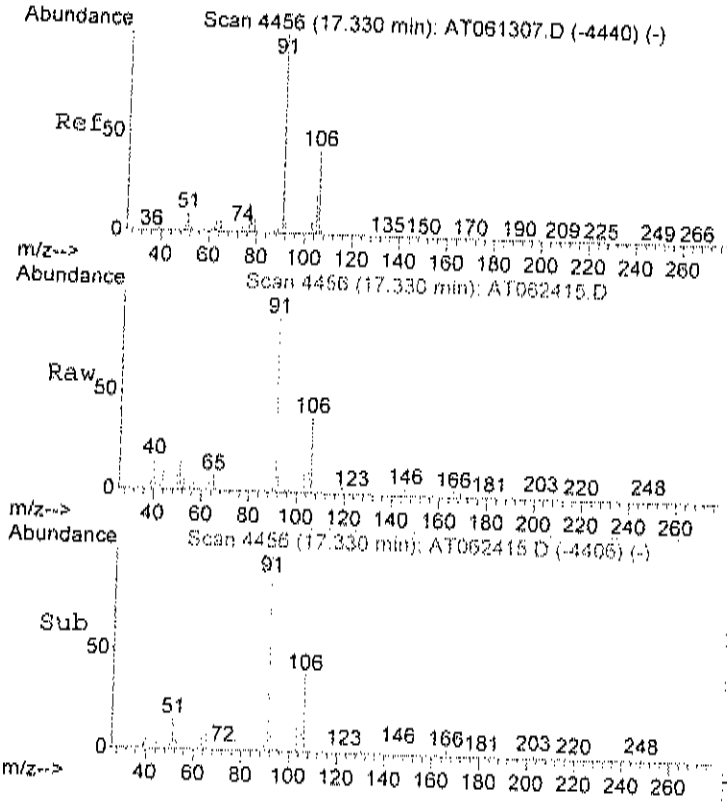


#56
Tetrachloroethylene
Concen: 0.24 ppb
RT: 15.84 min Scan# 3959
Delta R.T. -0.00 min
Lab File: AT062415.D
Acq: 24 Jun 2022 8:16 pm

Tgt Ion:164 Resp: 13553

Ion	Ratio	Lower	Upper
164	100		
166	130.7	107.7	147.7

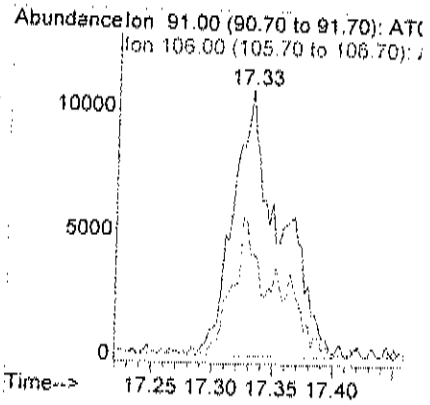


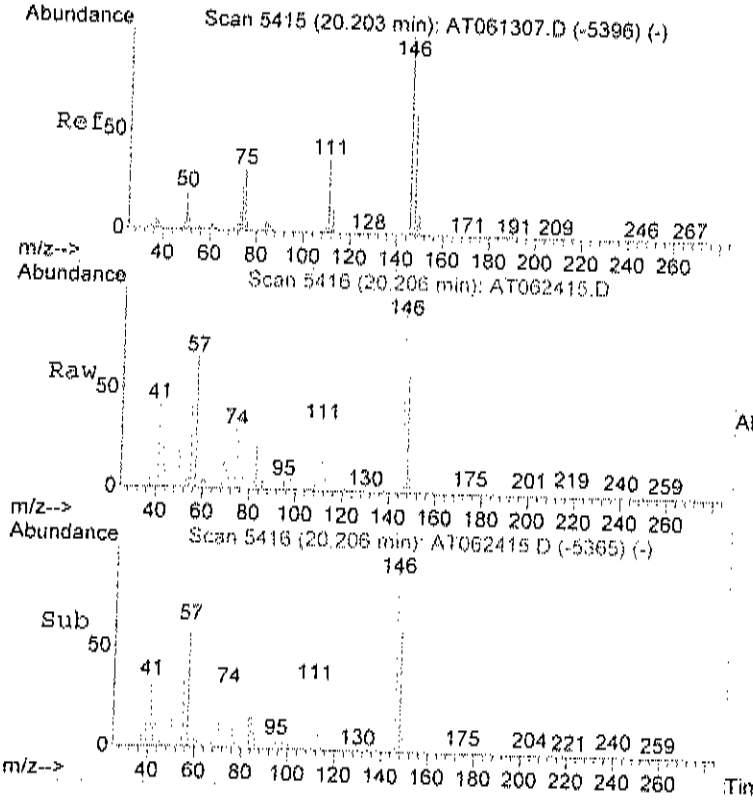


#59
m&p-xylene
Concen: 0.21 ppb
RT: 17.33 min Scan# 4456
Delta R.T. 0.00 min
Lab File: AT062415.D
Acq: 24 Jun 2022 8:16 pm

Tgt Ion: 91 Resp: 28791

Ion	Ratio	Lower	Upper
91	100		
106	47.6	27.9	67.9

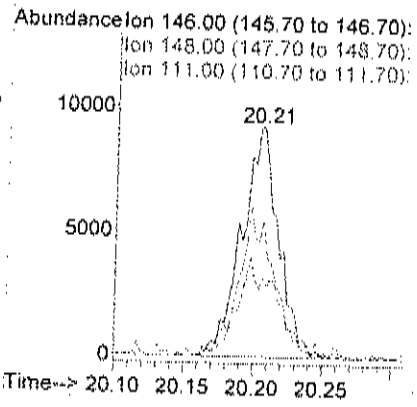




#72
1,3-dichlorobenzene
Concen: 0.16 ppb
RT: 20.21 min Scan# 5416
Delta R.T. 0.00 min
Lab File: AT062415.D
Acq: 24 Jun 2022 8:16 pm

Tgt Ion:146 Resp: 17257

Ion	Ratio	Lower	Upper
146	100		
148	61.4	44.9	84.9
111	46.6	19.7	59.7



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062722.D
Acq On : 28 Jun 2022 1:33 am
Sample : C2206048-006A 10X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 28 07:18:41 2022

Vial: 22
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.70	128	28986	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.00	114	131368	1.00	ppb	0.00
50) Chlorobenzene-d5	16.82	117	112277	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.61	95	69636	0.86	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 86.00%			
Target Compounds						Qvalue
15) Acetone	5.91	58	33473m	1.99	ppb	

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

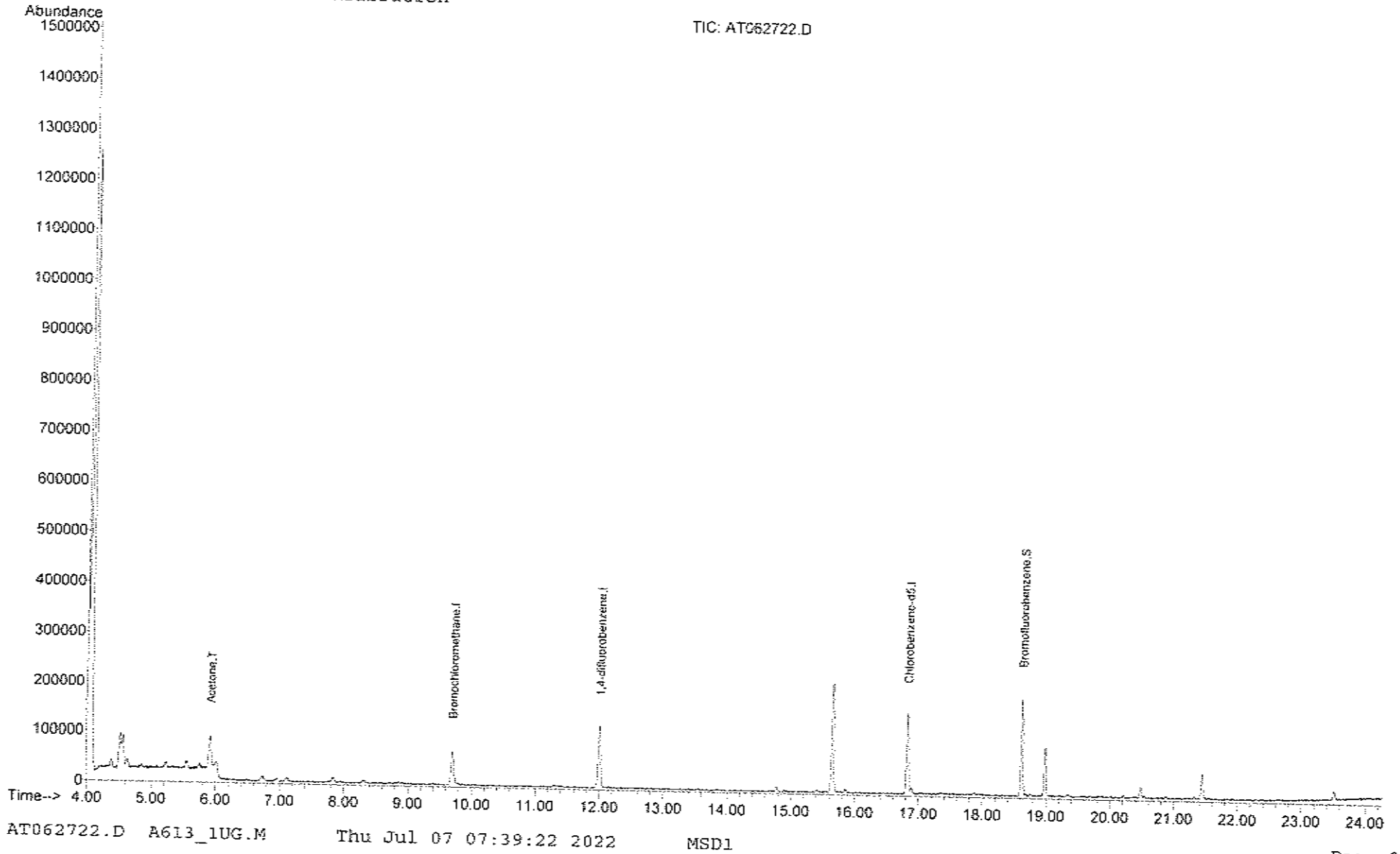
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062722.D
Acq On : 28 Jun 2022 1:33 am
Sample : C2206048-006A 10X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 29 11:14 2022

Vial: 22
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

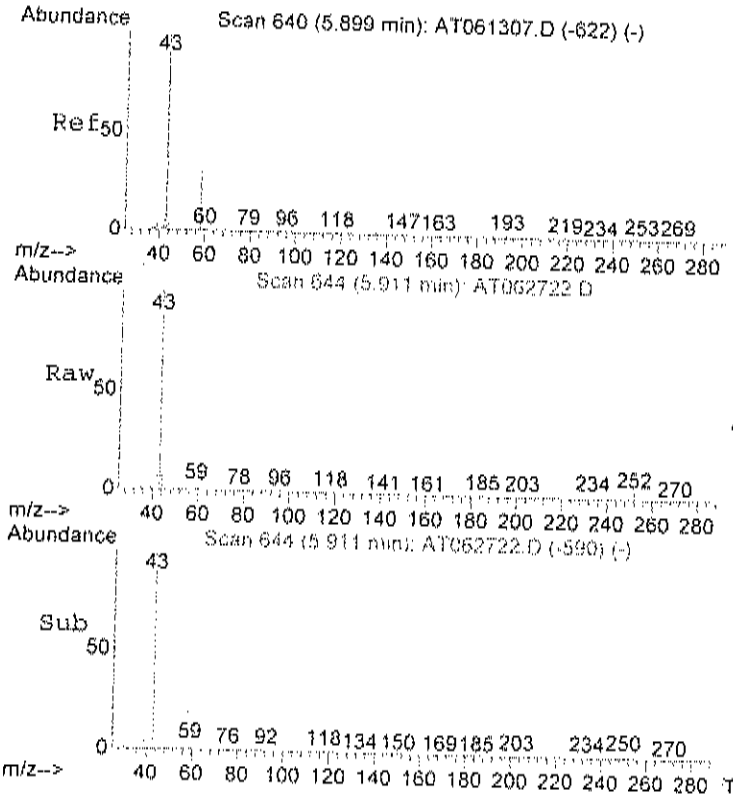
Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



AT062722.D A613_1UG.M Thu Jul 07 07:39:22 2022 MSD1

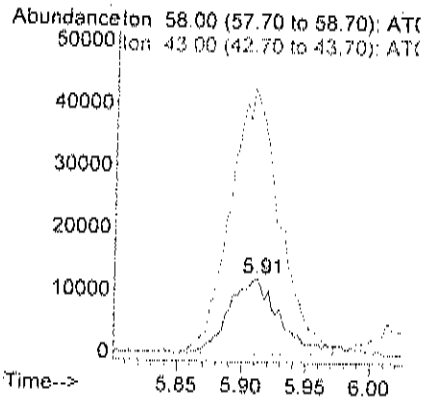
Centek/SanAir Laboratories



#15
Acetone
Concen: 1.99 ppb m
RT: 5.91 min Scan# 644
Delta R.T. 0.01 min
Lab File: AT062722.D
Acq: 28 Jun 2022 1:33 am

Tgt Ion: 58 Resp: 33473

Ion	Ratio	Lower	Upper
58	100		
43	367.5	268.9	328.9#



Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-007A

Client Sample ID: SVW-6
Tag Number: 237,124
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-1			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: NP
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,2,4-Trimethylbenzene	2.2	3.0	J	ppbV	20	6/28/2022 2:16:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,3,5-Trimethylbenzene	0.78	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/24/2022 9:00:00 PM
2,2,4-trimethylpentane	0.36	0.15		ppbV	1	6/24/2022 9:00:00 PM
4-ethyltoluene	0.79	0.15		ppbV	1	6/24/2022 9:00:00 PM
Acetone	17	6.0		ppbV	20	6/28/2022 2:16:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Benzene	0.86	0.15		ppbV	1	6/24/2022 9:00:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Carbon disulfide	0.33	0.15		ppbV	1	6/24/2022 9:00:00 PM
Carbon tetrachloride	0.11	0.15	J	ppbV	1	6/24/2022 9:00:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Chloroform	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Chloromethane	0.64	0.15		ppbV	1	6/24/2022 9:00:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Cyclohexane	0.33	0.15		ppbV	1	6/24/2022 9:00:00 PM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- IN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-007A

Client Sample ID: SVW-6
Tag Number: 237,124
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Ethyl acetate	1.1	0.15		ppbV	1	6/24/2022 9:00:00 PM
Ethylbenzene	1.8	0.15		ppbV	1	6/24/2022 9:00:00 PM
Freon 11	0.27	0.15		ppbV	1	6/24/2022 9:00:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Freon 12	0.50	0.15		ppbV	1	6/24/2022 9:00:00 PM
Heptane	1.4	0.15		ppbV	1	6/24/2022 9:00:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Hexane	0.45	0.15		ppbV	1	6/24/2022 9:00:00 PM
Isopropyl alcohol	30	3.0		ppbV	20	6/28/2022 2:16:00 AM
m&p-Xylene	4.0	6.0	J	ppbV	20	6/28/2022 2:16:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 9:00:00 PM
Methyl Ethyl Ketone	1.7	0.30		ppbV	1	6/24/2022 9:00:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 9:00:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Methylene chloride	0.29	0.15		ppbV	1	6/24/2022 9:00:00 PM
o-Xylene	2.2	3.0	J	ppbV	20	6/28/2022 2:16:00 AM
Propylene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Tetrahydrofuran	0.76	0.15		ppbV	1	6/24/2022 9:00:00 PM
Toluene	6.2	3.0		ppbV	20	6/28/2022 2:16:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 9:00:00 PM
Surr: Bromofluorobenzene	100	46.7-129		%REC	1	6/24/2022 9:00:00 PM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-007A

Client Sample ID: SVW-6
Tag Number: 237,124
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 9:00:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/24/2022 9:00:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 9:00:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 9:00:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 9:00:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/24/2022 9:00:00 PM
1,2,4-Trimethylbenzene	11	15	J	ug/m3	20	6/28/2022 2:16:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/24/2022 9:00:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 9:00:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 9:00:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/24/2022 9:00:00 PM
1,3,5-Trimethylbenzene	3.8	0.74		ug/m3	1	6/24/2022 9:00:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/24/2022 9:00:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 9:00:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 9:00:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/24/2022 9:00:00 PM
2,2,4-trimethylpentane	1.7	0.70		ug/m3	1	6/24/2022 9:00:00 PM
4-ethyltoluene	3.9	0.74		ug/m3	1	6/24/2022 9:00:00 PM
Acetone	41	14		ug/m3	20	6/28/2022 2:16:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/24/2022 9:00:00 PM
Benzene	2.7	0.48		ug/m3	1	6/24/2022 9:00:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/24/2022 9:00:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/24/2022 9:00:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/24/2022 9:00:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/24/2022 9:00:00 PM
Carbon disulfide	1.0	0.47		ug/m3	1	6/24/2022 9:00:00 PM
Carbon tetrachloride	0.69	0.94	J	ug/m3	1	6/24/2022 9:00:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/24/2022 9:00:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/24/2022 9:00:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	6/24/2022 9:00:00 PM
Chloromethane	1.3	0.31		ug/m3	1	6/24/2022 9:00:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 9:00:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 9:00:00 PM
Cyclohexane	1.1	0.52		ug/m3	1	6/24/2022 9:00:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/24/2022 9:00:00 PM
Ethyl acetate	4.0	0.54		ug/m3	1	6/24/2022 9:00:00 PM
Ethylbenzene	7.9	0.65		ug/m3	1	6/24/2022 9:00:00 PM
Freon 11	1.5	0.84		ug/m3	1	6/24/2022 9:00:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/24/2022 9:00:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/24/2022 9:00:00 PM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-007A

Client Sample ID: SVW-6
Tag Number: 237,124
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.5	0.74		ug/m3	1	6/24/2022 9:00:00 PM
Heptane	5.6	0.61		ug/m3	1	6/24/2022 9:00:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/24/2022 9:00:00 PM
Hexane	1.6	0.53		ug/m3	1	6/24/2022 9:00:00 PM
Isopropyl alcohol	75	7.4		ug/m3	20	6/28/2022 2:16:00 AM
m&p-Xylene	17	26	J	ug/m3	20	6/28/2022 2:16:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 9:00:00 PM
Methyl Ethyl Ketone	4.9	0.88		ug/m3	1	6/24/2022 9:00:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 9:00:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/24/2022 9:00:00 PM
Methylene chloride	1.0	0.52		ug/m3	1	6/24/2022 9:00:00 PM
o-Xylene	9.6	13	J	ug/m3	20	6/28/2022 2:16:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/24/2022 9:00:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/24/2022 9:00:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/24/2022 9:00:00 PM
Tetrahydrofuran	2.2	0.44		ug/m3	1	6/24/2022 9:00:00 PM
Toluene	23	11		ug/m3	20	6/28/2022 2:16:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 9:00:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 9:00:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	6/24/2022 9:00:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/24/2022 9:00:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/24/2022 9:00:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/24/2022 9:00:00 PM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062416.D
Acq On : 24 Jun 2022 9:00 pm
Sample : C2206048-007A
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 27 11:20:57 2022

Vial: 16
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.69	128	28817	1.00	ppb		0.00
35) 1,4-difluorobenzene	12.00	114	133262	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	119057	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	86085	1.00	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
3) Freon 12	4.14	85	65925	0.50	ppb		100
4) Chloromethane	4.33	50	20953	0.64	ppb		73
14) Freon 11	5.74	101	44811	0.27	ppb		97
15) Acetone	5.90	58	299522	17.87	ppb		98
17) Isopropyl alcohol	6.01	45	1468764	30.09	ppb	#	21
21) Methylene chloride	6.96	84	10499	0.29	ppb		99
23) Carbon disulfide	7.12	76	36435	0.33	ppb		97
28) Methyl Ethyl Ketone	8.78	72	23597m	1.66	ppb		
30) Hexane	8.85	57	19103m	0.45	ppb		
31) Ethyl acetate	9.39	43	75646	1.12	ppb		99
33) Tetrahydrofuran	10.02	42	19072	0.76	ppb		82
37) Cyclohexane	11.38	56	13133m	0.33	ppb		
38) Carbon tetrachloride	11.34	117	9674	0.11	ppb		99
39) Benzene	11.29	78	82254	0.86	ppb		96
42) 2,2,4-trimethylpentane	12.16	57	44755	0.36	ppb	#	37
43) Heptane	12.51	43	61710	1.37	ppb		93
51) Toluene	14.77	92	537367	7.64	ppb		99
58) Ethylbenzene	17.14	91	298216	1.83	ppb		98
59) m&p-xylene	17.33	91	737631	5.54	ppb		97
63) o-xylene	17.87	91	321275	2.27	ppb		97
69) 4-ethyltoluene	19.29	105	146443m	0.79	ppb		
70) 1,3,5-trimethylbenzene	19.36	105	127545m	0.78	ppb		
71) 1,2,4-trimethylbenzene	19.87	105	499139	3.12	ppb		97
75) 1,2,3-trimethylbenzene	20.41	105	126078	0.77	ppb		95

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

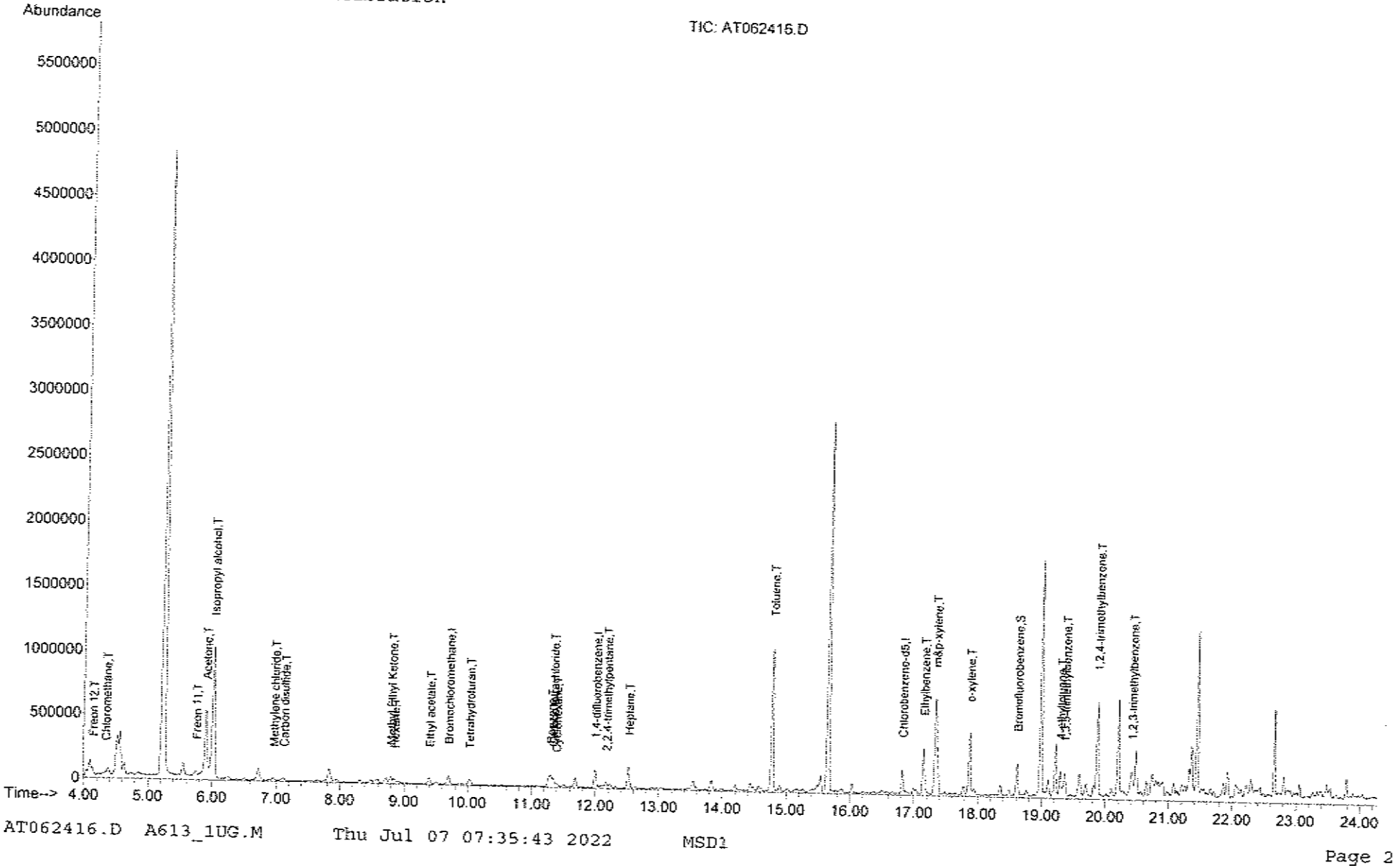
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062416.D
Acq On : 24 Jun 2022 9:00 pm
Sample : C2206048-007A
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 28 13:46 2022

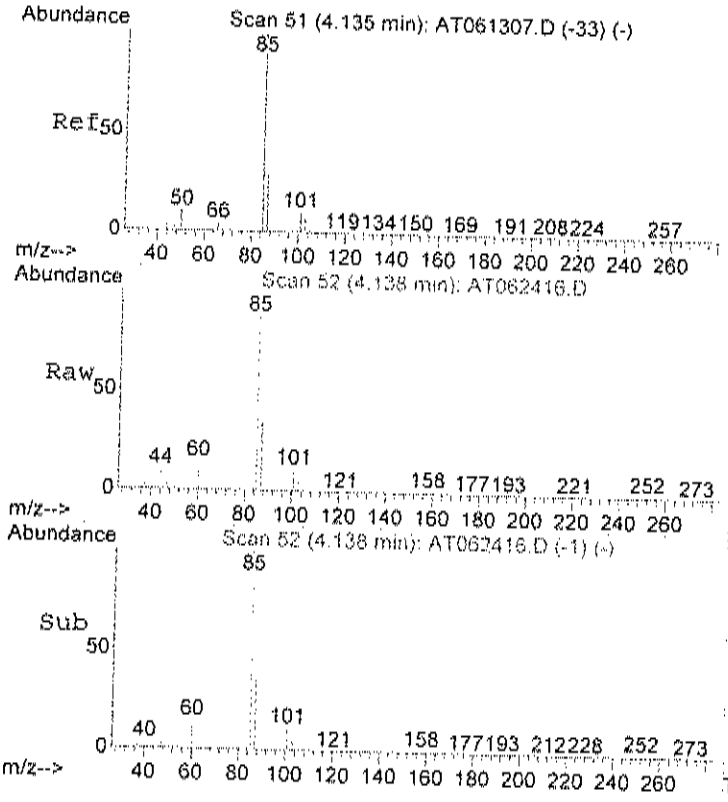
Vial: 16
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



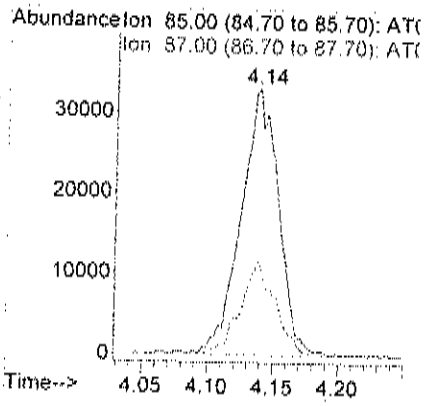
Centek/SanAir Laboratories

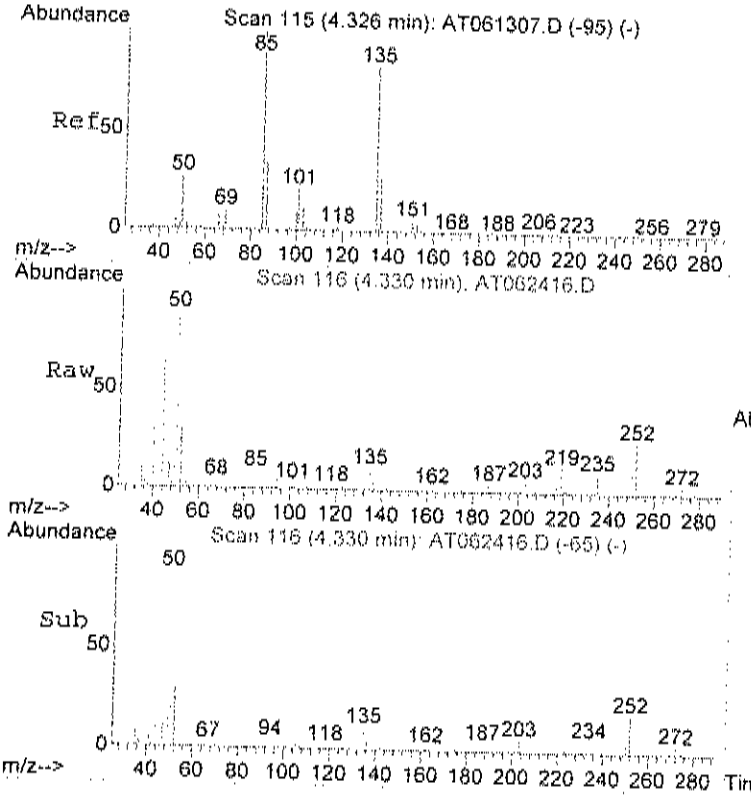


#3
Freon 12
Concen: 0.50 ppb
RT: 4.14 min Scan# 52
Delta R.T. 0.00 min
Lab File: AT062416.D
Acq: 24 Jun 2022 9:00 pm

Tgt Ion: 85 Resp: 65925

Ion	Ratio	Lower	Upper
85	100		
87	32.9	12.8	52.8

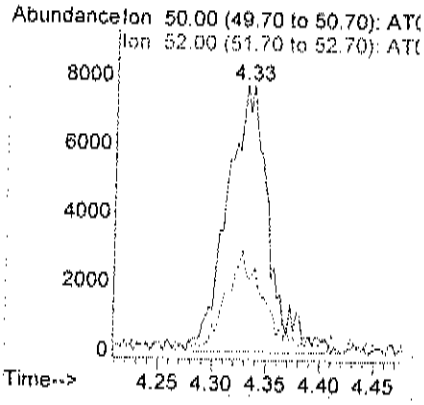


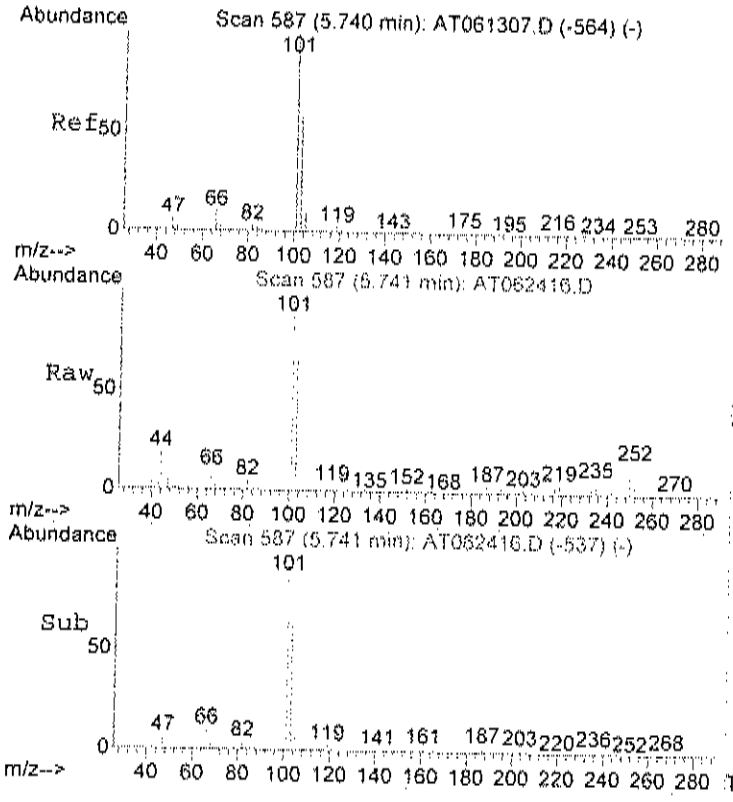


#4
Chloromethane
Concen: 0.64 ppb
RT: 4.33 min Scan# 116
Delta R.T. 0.00 min
Lab File: AT062416.D
Acq: 24 Jun 2022 9:00 pm

Tgt Ion: 50 Resp: 20953

Ion	Ratio	Lower	Upper
50	100		
52	35.5	2.7	42.7

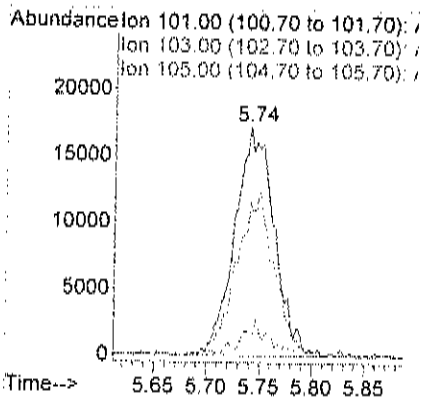


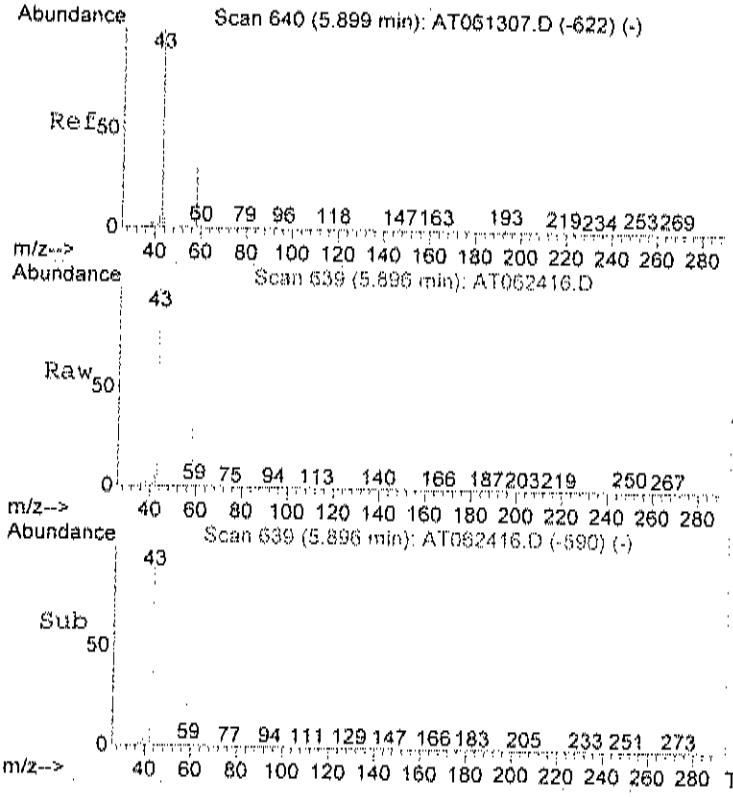


#14
Freon 11
Concen: 0.27 ppb
RT: 5.74 min Scan# 587
Delta R.T. 0.00 min
Lab File: AT062416.D
Acq: 24 Jun 2022 9:00 pm

Tgt Ion:101 Resp: 44811

Ion	Ratio	Lower	Upper
101	100		
103	68.2	46.3	86.3
105	9.1	0.0	31.2

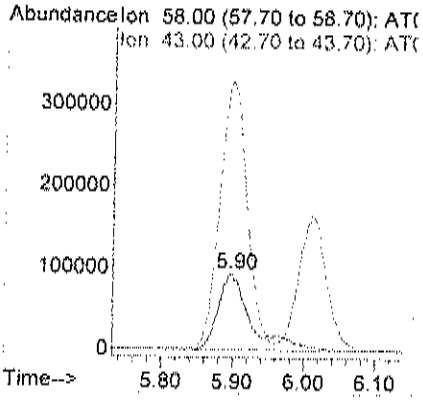


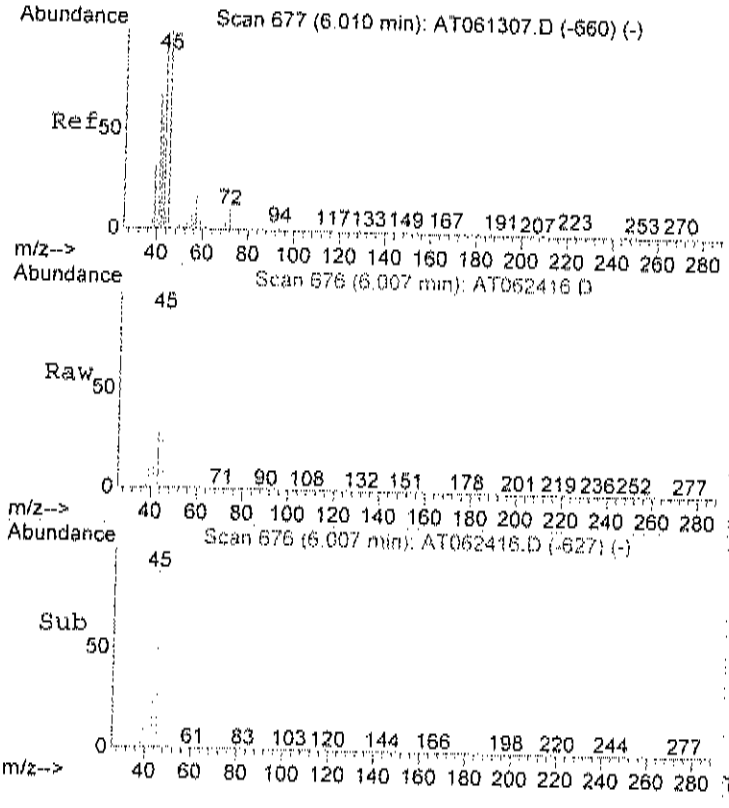


#15
Acetone
Concen: 17.87 ppb
RT: 5.90 min Scan# 639
Delta R.T. -0.00 min
Lab File: AT062416.D
Acq: 24 Jun 2022 9:00 pm

Tgt Ion: 58 Resp: 299522

Ion	Ratio	Lower	Upper
58	100		
43	295.9	268.9	328.9

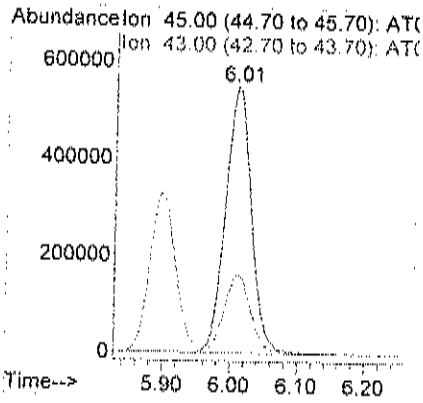


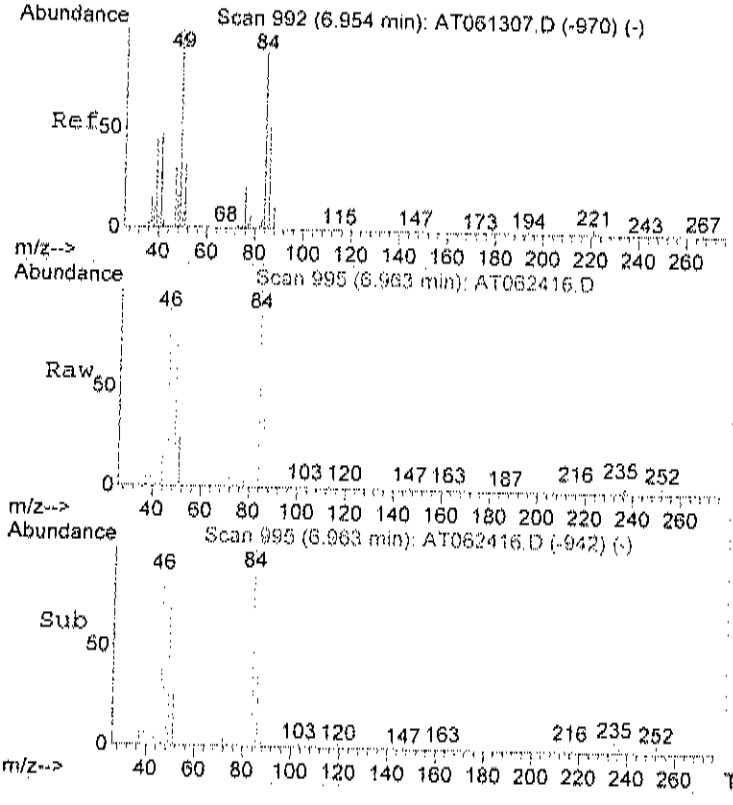


#17
Isopropyl alcohol
Concen: 30.09 ppb
RT: 6.01 min Scan# 676
Delta R.T. -0.00 min
Lab File: AT062416.D
Acq: 24 Jun 2022 9:00 pm

Tgt Ion: 45 Resp: 1468764

Ion	Ratio	Lower	Upper
45	100		
43	30.0	96.2	136.2#

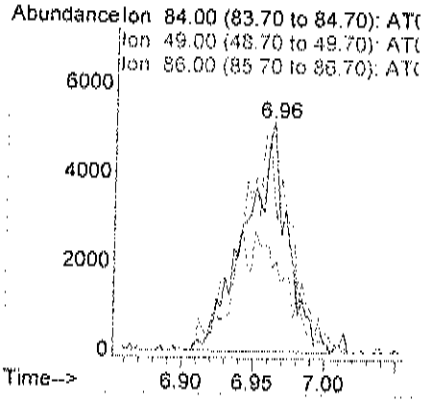


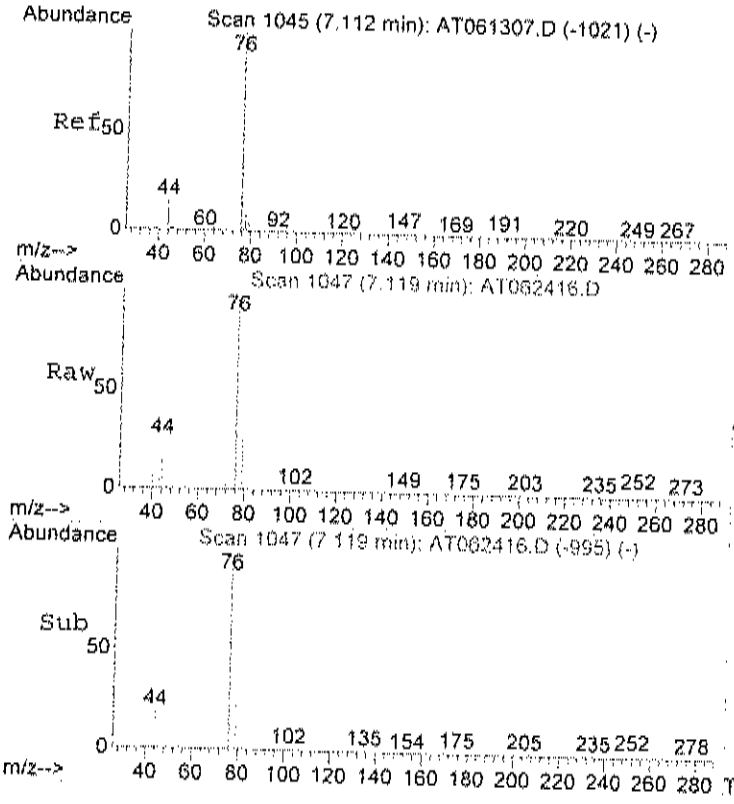


#21
Methylene chloride
Concen: 0.29 ppb
RT: 6.96 min Scan# 995
Delta R.T. 0.01 min
Lab File: AT062416.D
Acq: 24 Jun 2022 9:00 pm

Tgt Ion: 84 Resp: 10499

Ion	Ratio	Lower	Upper
84	100		
49	112.3	93.2	133.2
86	67.5	46.4	86.4

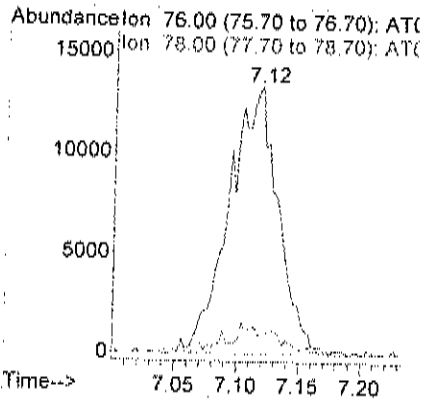


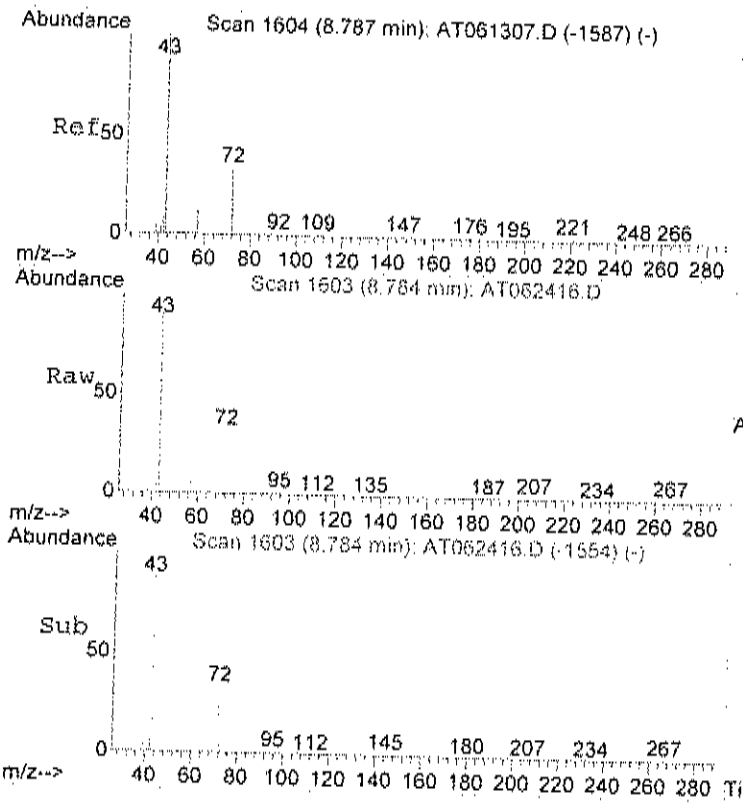


#23
Carbon disulfide
Concen: 0.33 ppb
RT: 7.12 min Scan# 1047
Delta R.T. 0.01 min
Lab File: AT062416.D
Acq: 24 Jun 2022 9:00 pm

Tgt Ion: 76 Resp: 36435

Ion	Ratio	Lower	Upper
76	100		
78	8.4	0.0	29.7

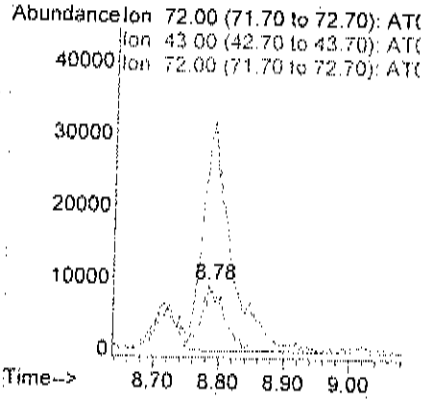


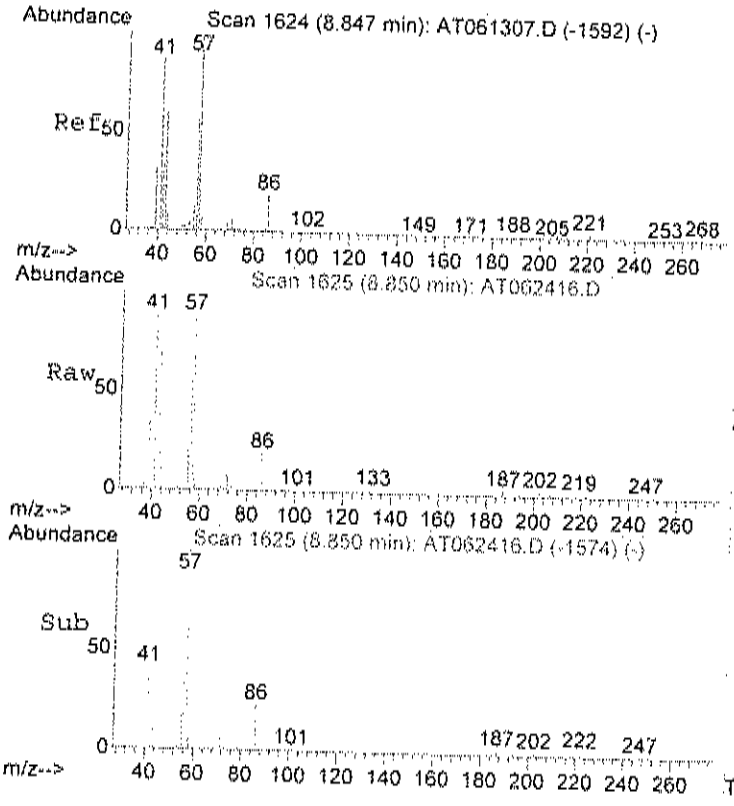


#28
Methyl Ethyl Ketone
Concen: 1.66 ppb m
RT: 8.78 min Scan# 1603
Delta R.T. -0.00 min
Lab File: AT062416.D
Acq: 24 Jun 2022 9:00 pm

Tgt Ion: 72 Resp: 23597

Ion	Ratio	Lower	Upper
72	100		
43	377.8	0.0	20.0#
72	154.6	80.0	120.0#

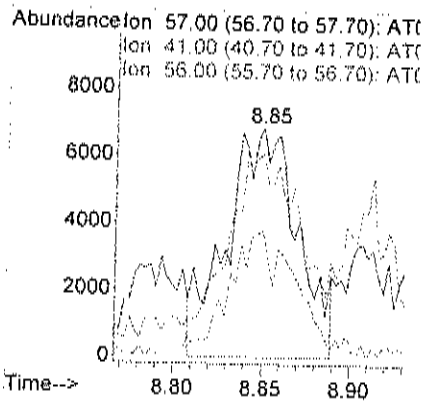


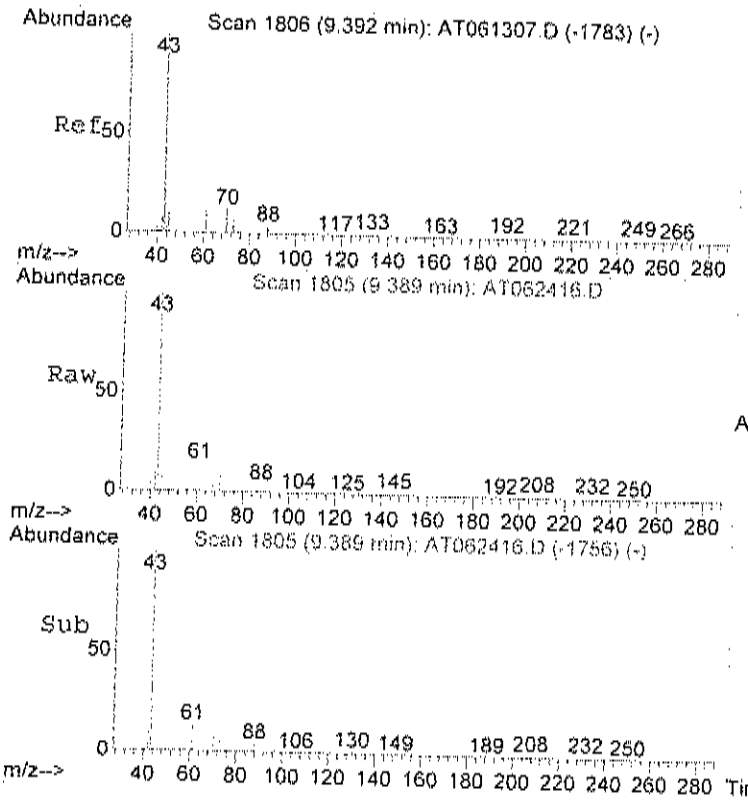


#30
Hexane
Concen: 0.45 ppb m
RT: 8.85 min Scan# 1625
Delta R.T. 0.00 min
Lab File: AT062416.D
Acq: 24 Jun 2022 9:00 pm

Tgt Ion: 57 Resp: 19103

Ion	Ratio	Lower	Upper
57	100		
41	0.0	58.1	98.1#
56	53.3	28.7	68.7

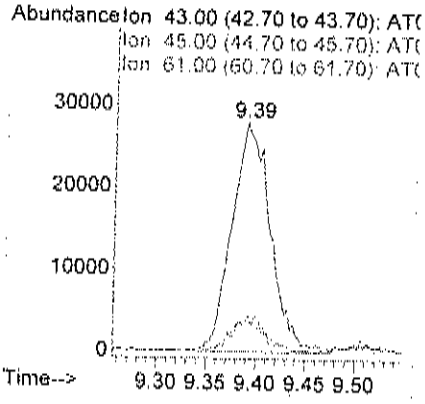


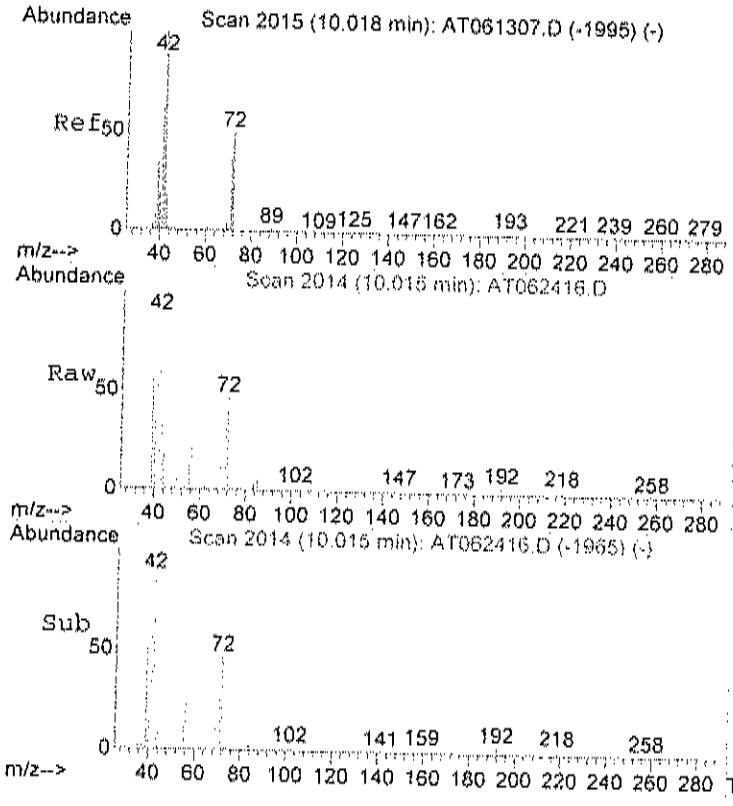


#31
Ethyl acetate
Concen: 1.12 ppb
RT: 9.39 min Scan# 1805
Delta R.T. -0.00 min
Lab File: AT062416.D
Acq: 24 Jun 2022 9:00 pm

Tgt Ion: 43 Resp: 75646

Ion	Ratio	Lower	Upper
43	100		
45	13.8	0.0	33.7
61	13.7	0.0	34.7

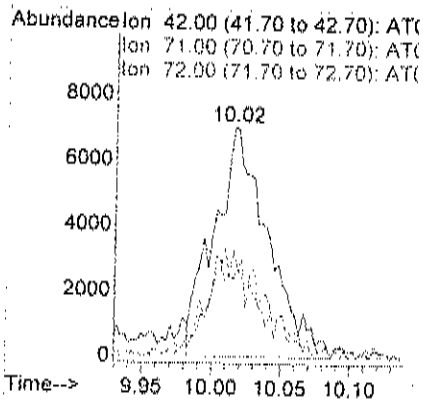


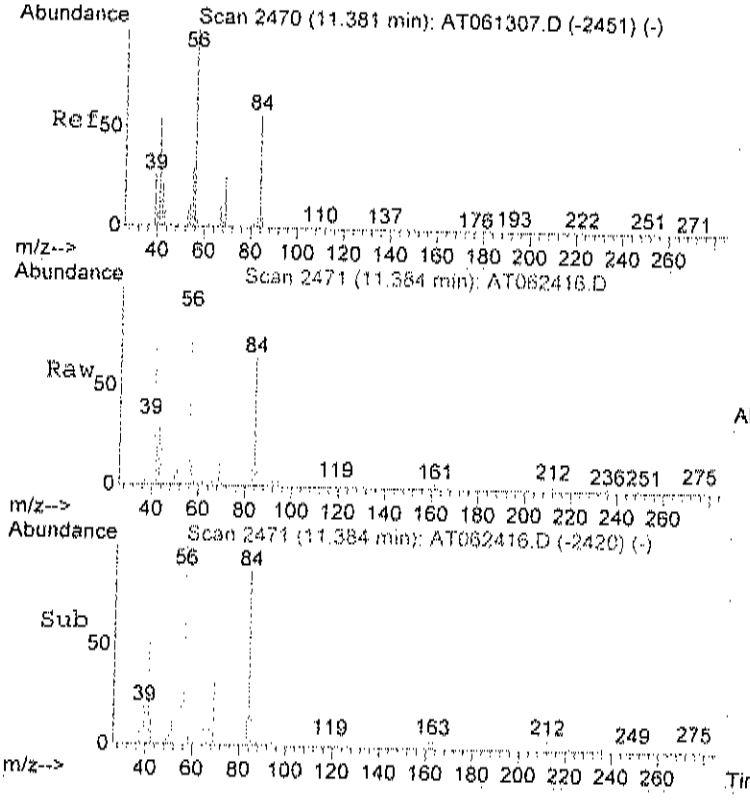


#33
Tetrahydrofuran
Concen: 0.76 ppb
RT: 10.02 min Scan# 2014
Delta R.T. -0.00 min
Lab File: AT062416.D
Acq: 24 Jun 2022 9:00 pm

Tgt Ion: 42 Resp: 19072

Ion	Ratio	Lower	Upper
42	100		
71	43.2	38.0	78.0
72	44.1	35.0	75.0

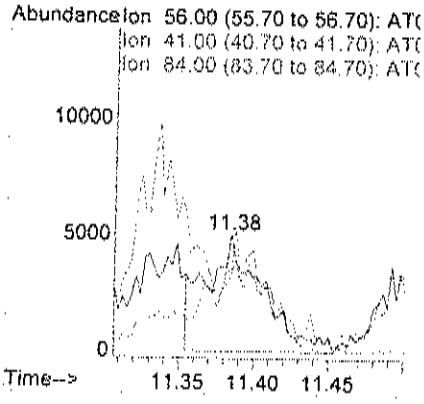


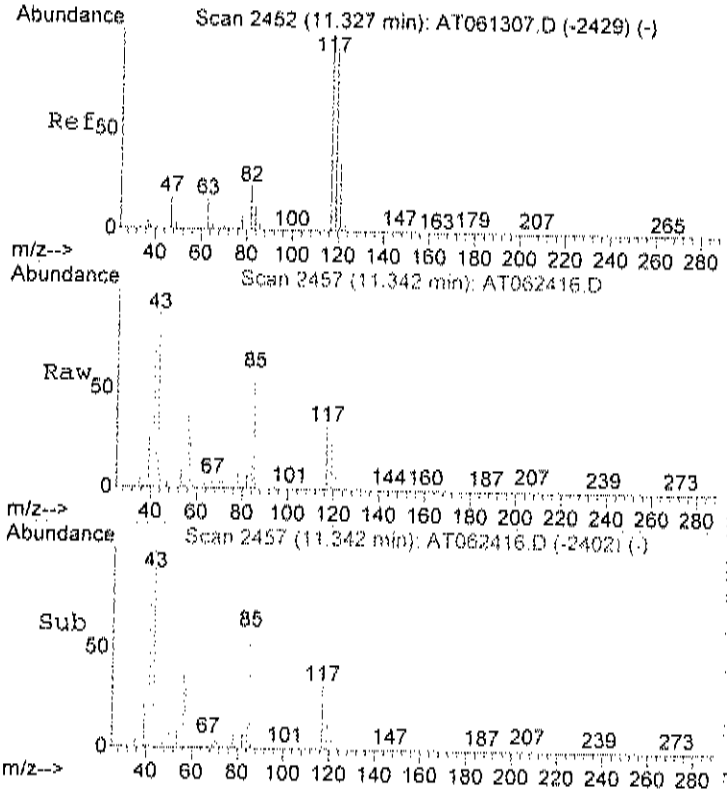


#37
Cyclohexane
Concen: 0.33 ppb m
RT: 11.38 min Scan# 2471
Delta R.T. 0.00 min
Lab File: AT062416.D
Acq: 24 Jun 2022 9:00 pm

Tgt Ion: 56 Resp: 13133

Ion	Ratio	Lower	Upper
56	100		
41	358.6	40.3	80.3#
84	0.0	133.0	173.0#

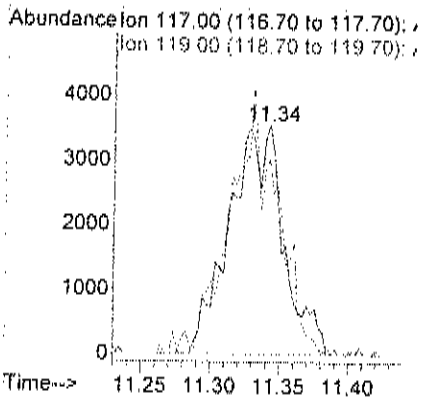


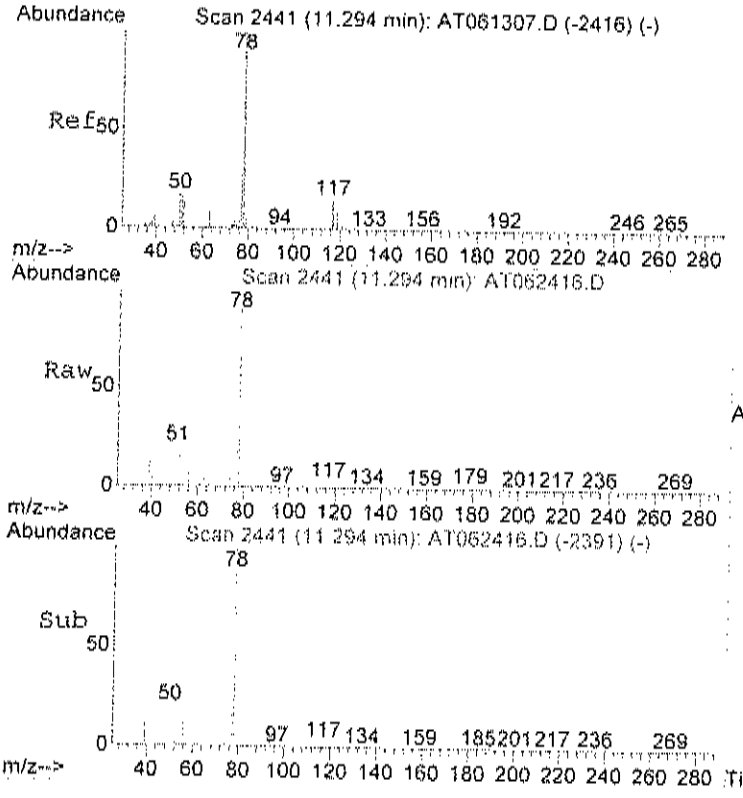


#38
Carbon tetrachloride
Concen: 0.11 ppb
RT: 11.34 min Scan# 2457
Delta R.T. 0.02 min
Lab File: AT062416.D
Acq: 24 Jun 2022 9:00 pm

Tgt Ion:117 Resp: 9674

Ion	Ratio	Lower	Upper
117	100		
119	97.7	77.2	117.2

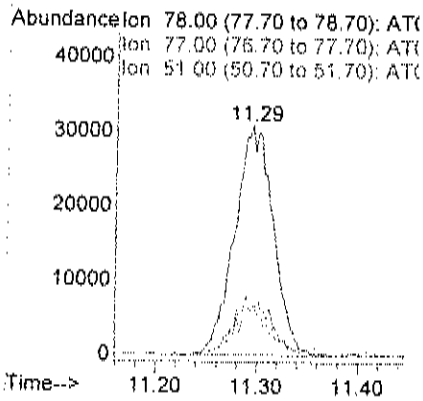


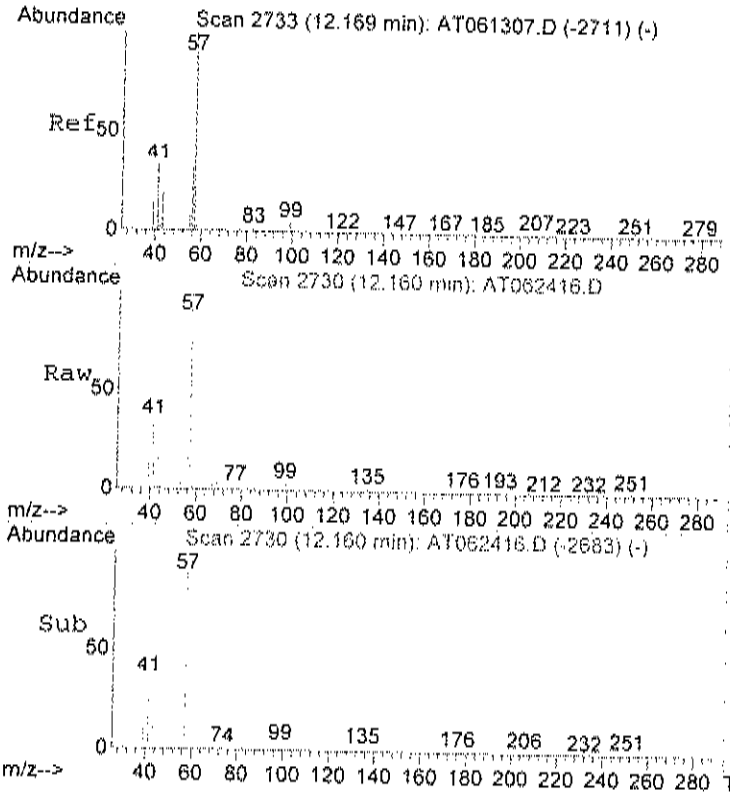


#39
Benzene
Concen: 0.86 ppb
RT: 11.29 min Scan# 2441
Delta R.T. 0.00 min
Lab File: AT062416.D
Acq: 24 Jun 2022 9:00 pm

Tgt Ion: 78 Resp: 82254

Ion	Ratio	Lower	Upper
78	100		
77	23.5	3.1	43.1
51	21.1	0.0	37.8

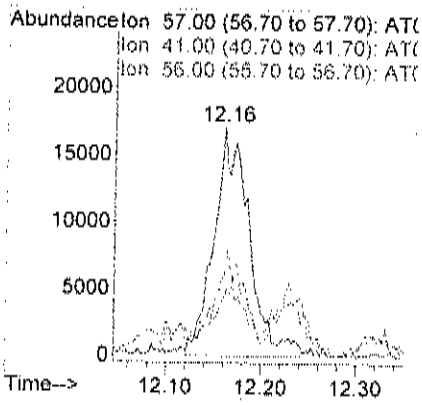


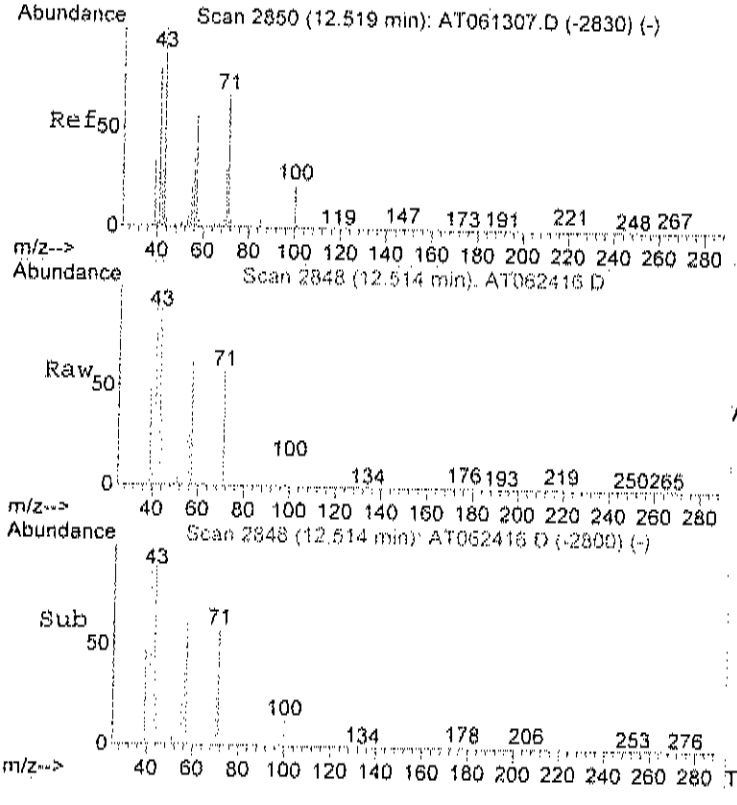


#42
2,2,4-trimethylpentane
Concen: 0.36 ppb
RT: 12.16 min Scan# 2730
Delta R.T. -0.01 min
Lab File: AT062416.D
Acq: 24 Jun 2022 9:00 pm

Tgt Ion: 57 Resp: 44755

Ion	Ratio	Lower	Upper
57	100		
41	78.7	15.3	55.3#
56	57.2	10.1	50.1#

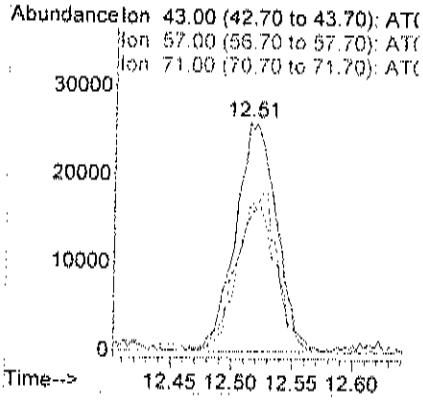


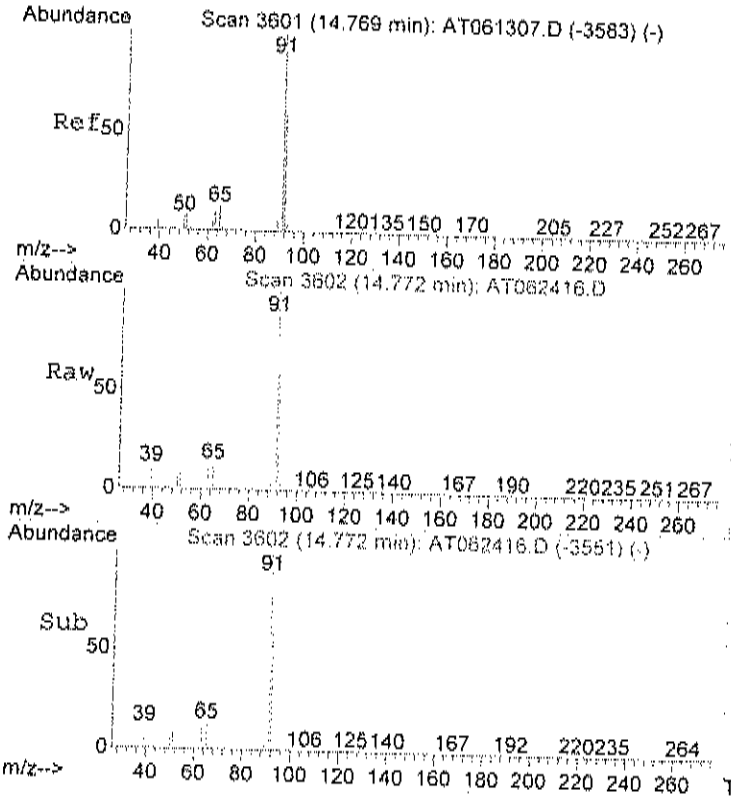


#43
Heptane
Concen: 1.37 ppb
RT: 12.51 min Scan# 2848
Delta R.T. -0.01 min
Lab File: AT062416.D
Acq: 24 Jun 2022 9:00 pm

Tgt Ion: 43 Resp: 61710

Ion	Ratio	Lower	Upper
43	100		
57	64.3	41.7	81.7
71	65.0	53.4	93.4

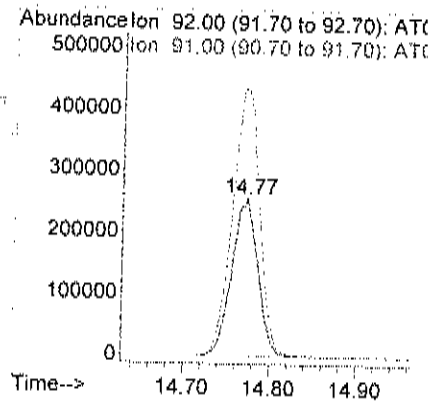


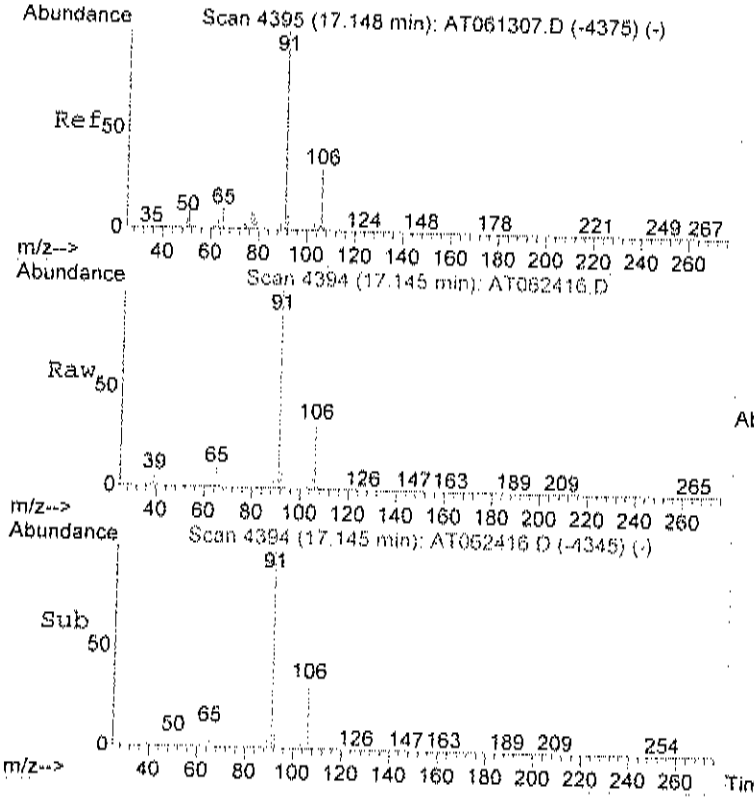


#51
Toluene
Concen: 7.64 ppb
RT: 14.77 min Scan# 3602
Delta R.T. 0.00 min
Lab File: AT062416.D
Acq: 24 Jun 2022 9:00 pm

Tgt Ion: 92 Resp: 537367

Ion	Ratio	Lower	Upper
92	100		
91	176.4	154.4	194.4

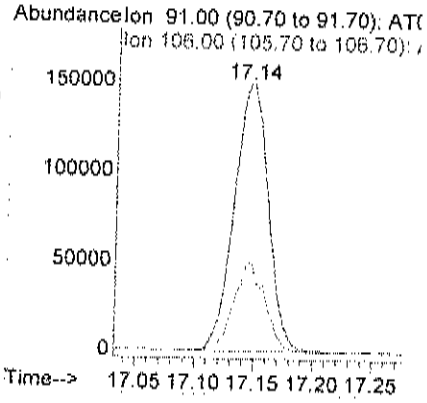


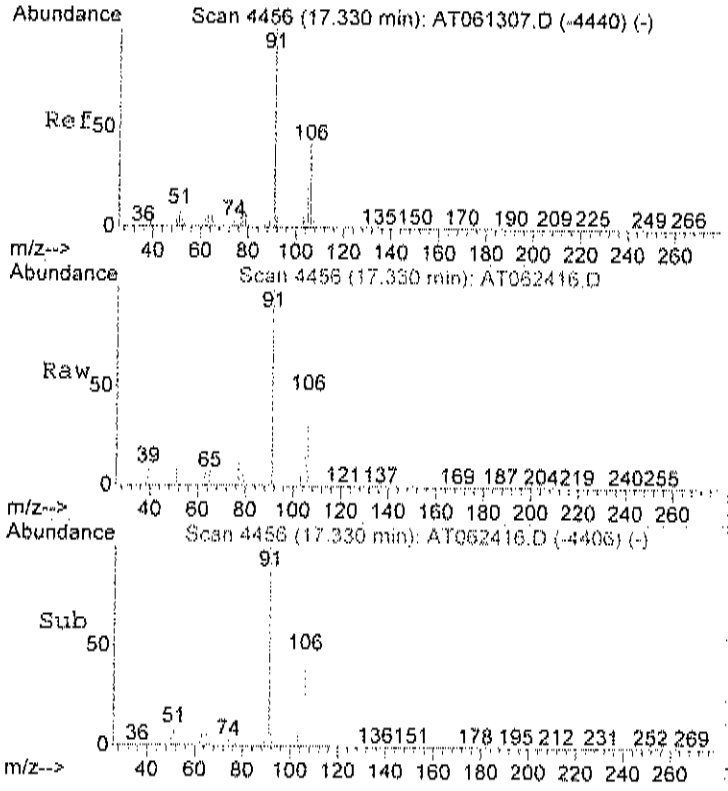


#58
Ethylbenzene
Concen: 1.83 ppb
RT: 17.14 min Scan# 4394
Delta R.T. -0.00 min
Lab File: AT062416.D
Acq: 24 Jun 2022 9:00 pm

Tgt Ion: 91 Resp: 298216

Ion	Ratio	Lower	Upper
91	100		
106	30.5	11.5	51.5

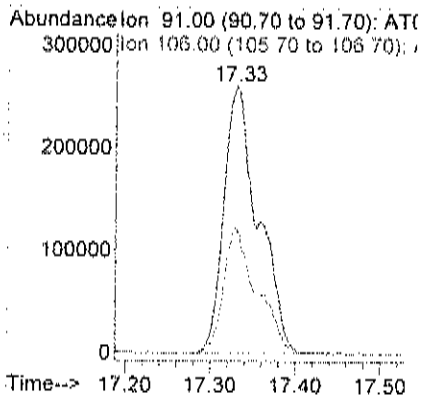


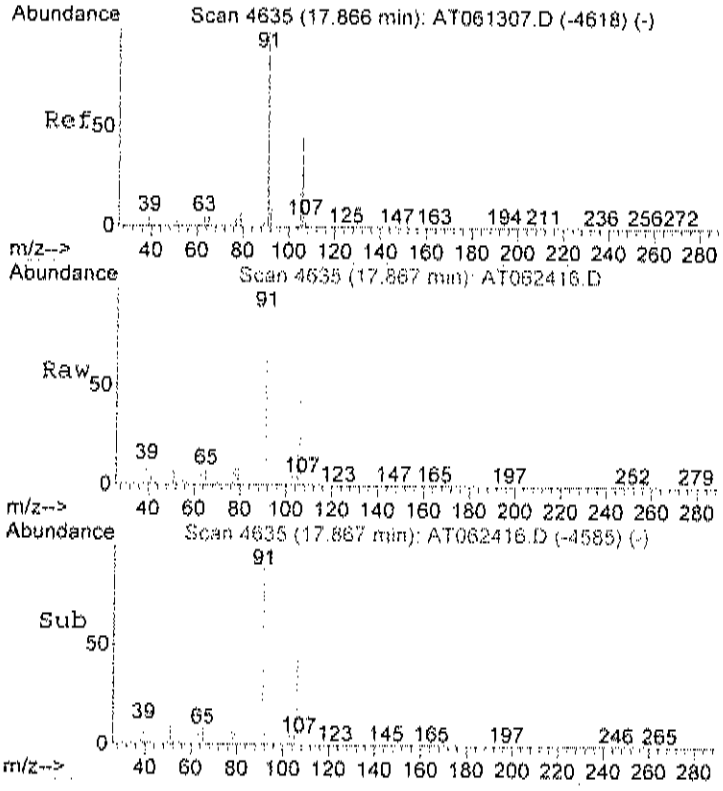


#59
m&p-xylene
Concen: 5.54 ppb
RT: 17.33 min Scan# 4456
Delta R.T. 0.00 min
Lab File: AT062416.D
Acq: 24 Jun 2022 9:00 pm

Tgt Ion: 91 Resp: 737631

Ion	Ratio	Lower	Upper
91	100		
106	45.7	27.9	67.9

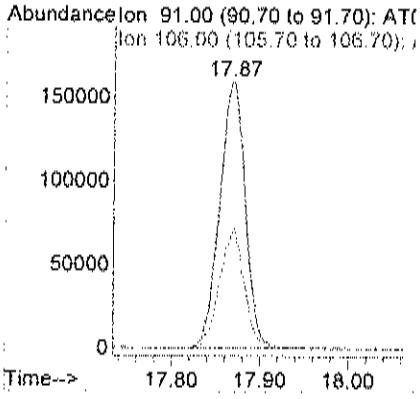


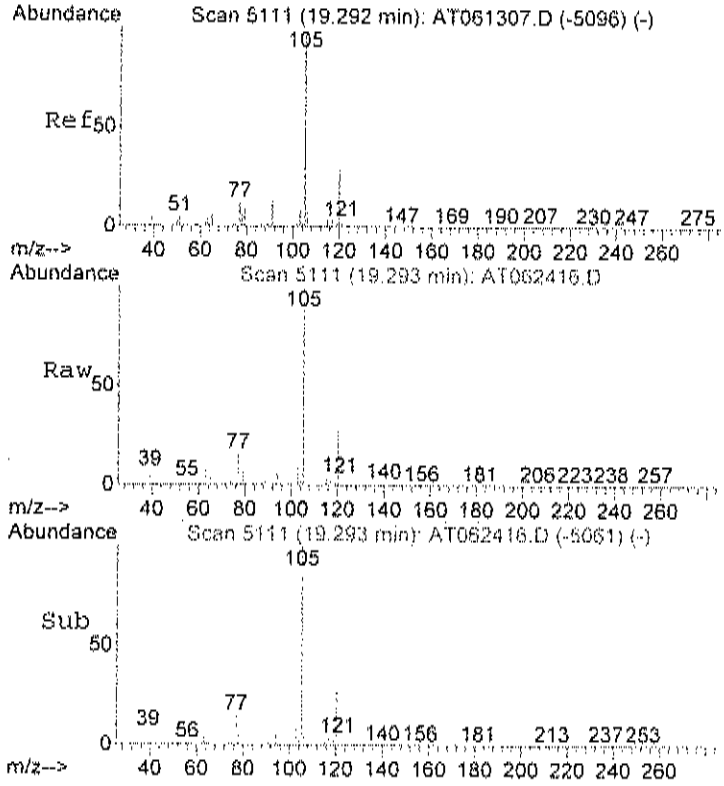


#63
o-xylene
Concen: 2.27 ppb
RT: 17.87 min Scan# 4635
Delta R.T. 0.00 min
Lab File: AT062416.D
Acq: 24 Jun 2022 9:00 pm

Tgt Ion: 91 Resp: 321275

Ion	Ratio	Lower	Upper
91	100		
106	43.1	25.1	65.1

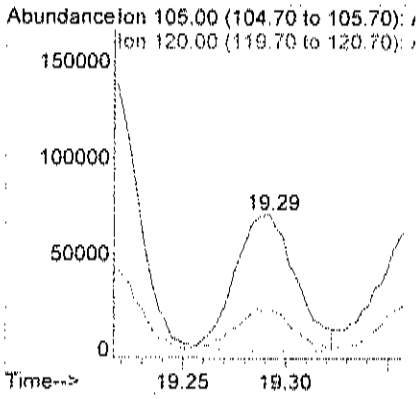


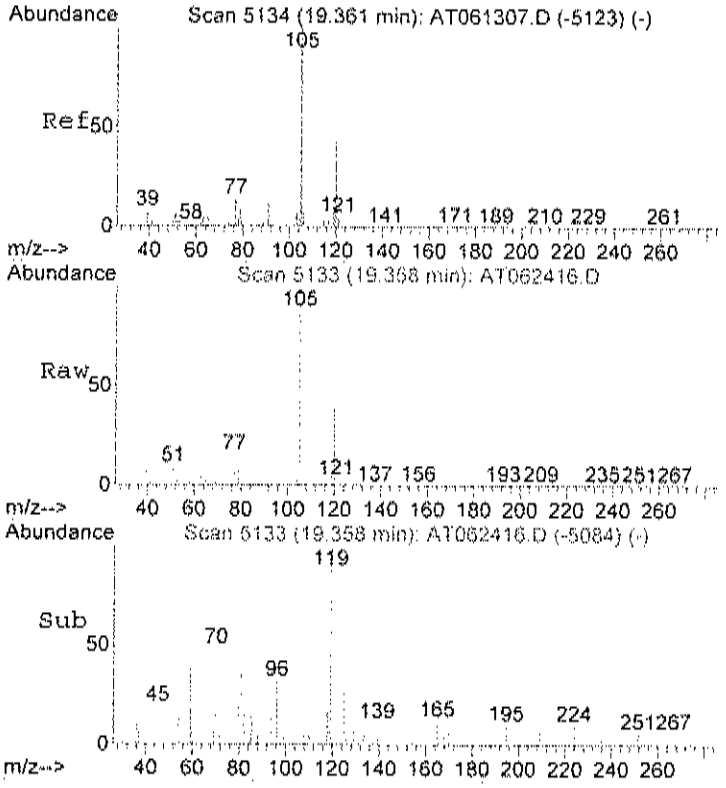


#69
4-ethyltoluene
Concen: 0.79 ppb m
RT: 19.29 min Scan# 5111
Delta R.T. 0.00 min
Lab File: AT062416.D
Acq: 24 Jun 2022 9:00 pm

Tgt Ion:105 Resp: 146443

Ion	Ratio	Lower	Upper
105	100		
120	29.8	10.6	50.6

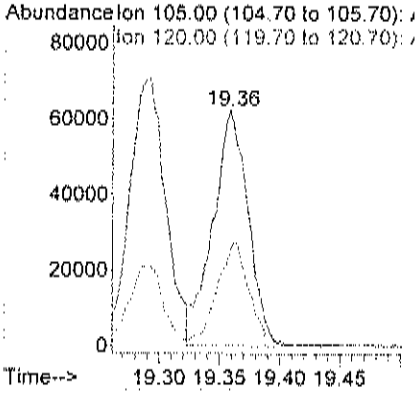


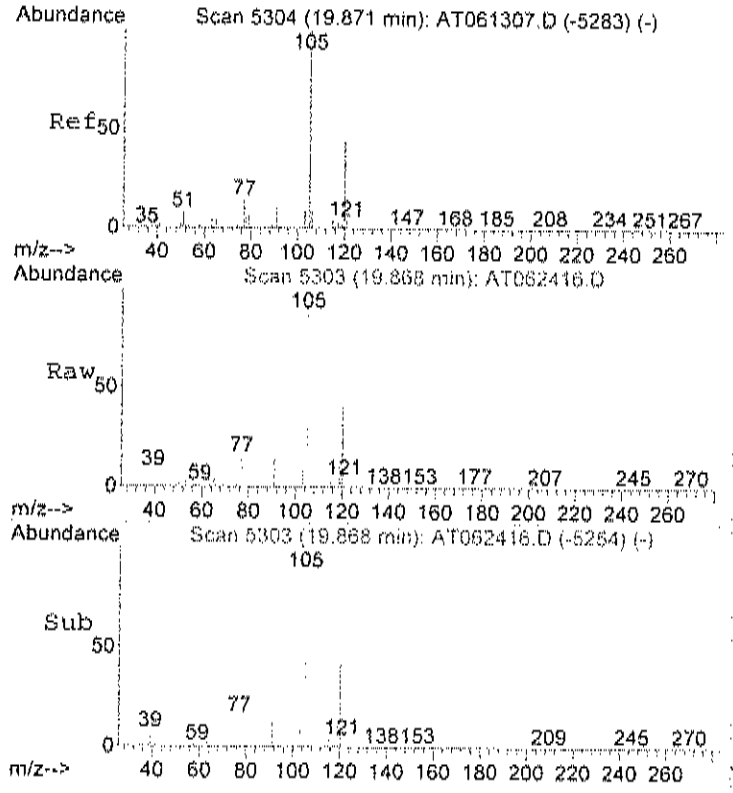


#70
1,3,5-trimethylbenzene
Concen: 0.78 ppb m
RT: 19.36 min Scan# 5133
Delta R.T. -0.00 min
Lab File: AT062416.D
Acq: 24 Jun 2022 9:00 pm

Tgt Ion:105 Resp: 127545

Ion	Ratio	Lower	Upper
105	100		
120	30.9	26.2	66.2

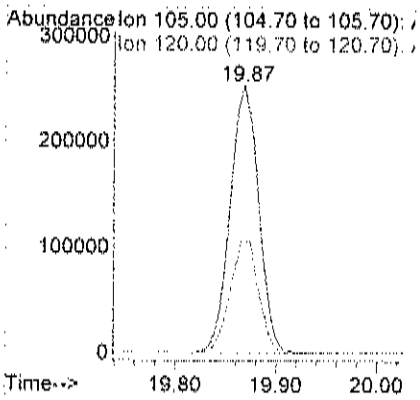


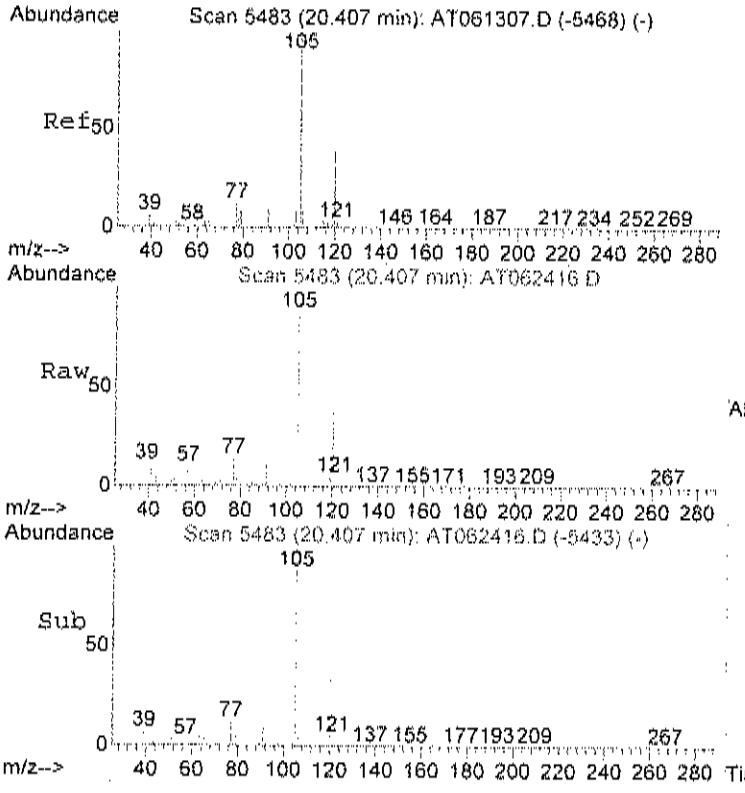


#71
1,2,4-trimethylbenzene
Concen: 3.12 ppb
RT: 19.87 min Scan# 5303
Delta R.T. -0.00 min
Lab File: AT062416.D
Acq: 24 Jun 2022 9:00 pm

Tgt Ion:105 Resp: 499139

Ion	Ratio	Lower	Upper
105	100		
120	42.2	23.8	63.8

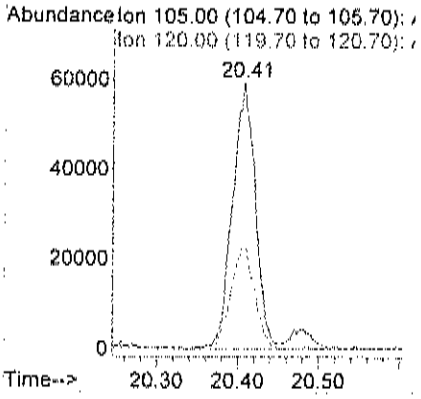




#75
1,2,3-trimethylbenzene
Concen: 0.77 ppb
RT: 20.41 min Scan# 5483
Delta R.T. 0.00 min
Lab File: AT062416.D
Acq: 24 Jun 2022 9:00 pm

Tgt Ion:105 Resp: 126078

Ion	Ratio	Lower	Upper
105	100		
120	37.6	30.7	51.1



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062723.D
Acq On : 28 Jun 2022 2:16 am
Sample : C2206048-007A 20X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 28 07:18:42 2022

Vial: 23
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.70	128	26814	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.00	114	121705	1.00	ppb	0.00
50) Chlorobenzene-d5	16.82	117	108315	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.62	95	68138	0.87	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 87.00%			
Target Compounds						Qvalue
15) Acetone	5.92	58	13497m	0.87	ppb	
17) Isopropyl alcohol	6.02	45	69197	1.52	ppb	# 45
51) Toluene	14.77	92	19621	0.31	ppb	93
59) m&p-xylene	17.33	91	24833	0.20	ppb	99
63) o-xylene	17.87	91	14557m	0.11	ppb	
71) 1,2,4-trimethylbenzene	19.87	105	16689m	0.11	ppb	

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

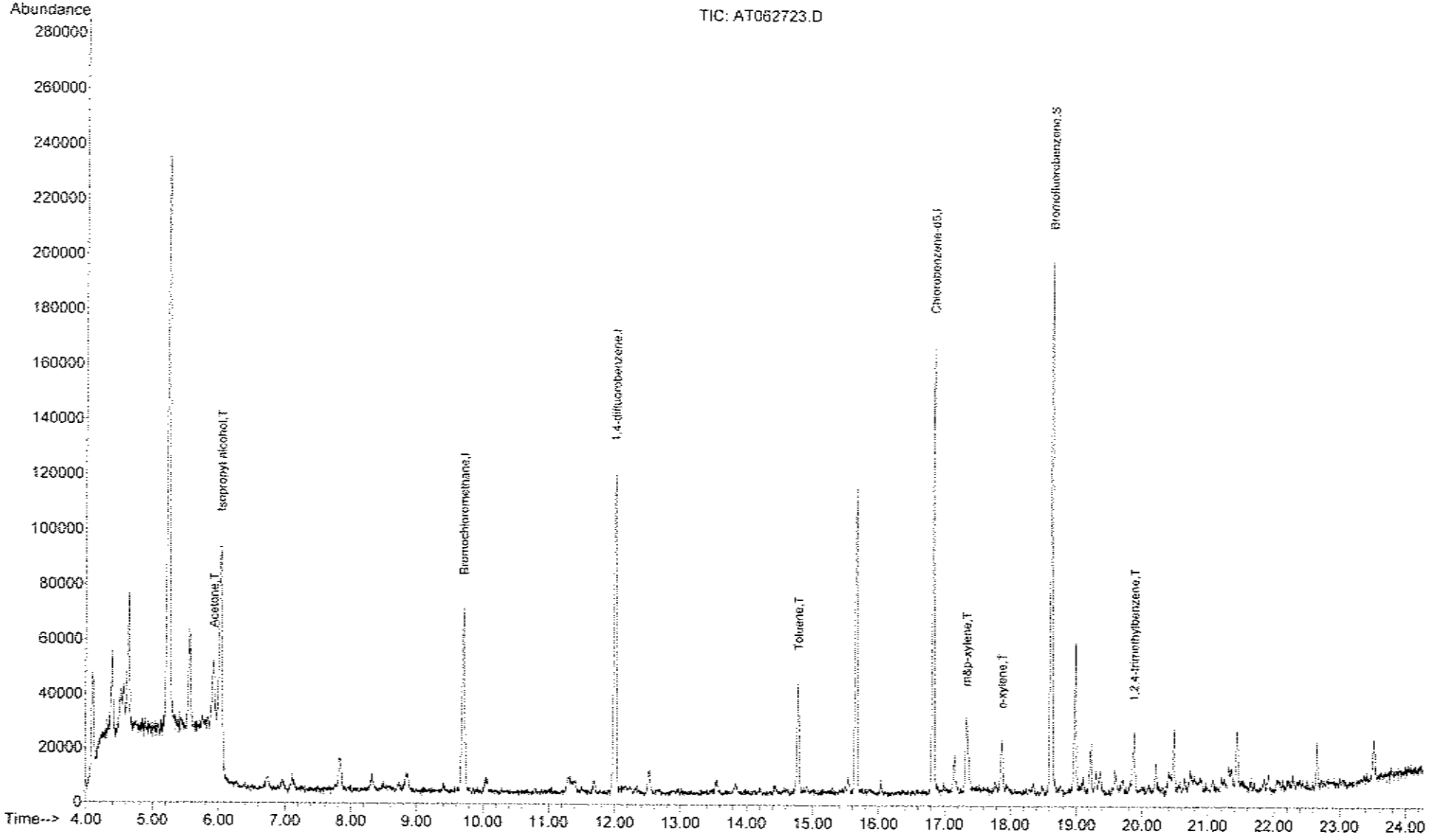
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062723.D
Acq On : 28 Jun 2022 2:16 am
Sample : C2206048-007A 20X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 29 11:56 2022

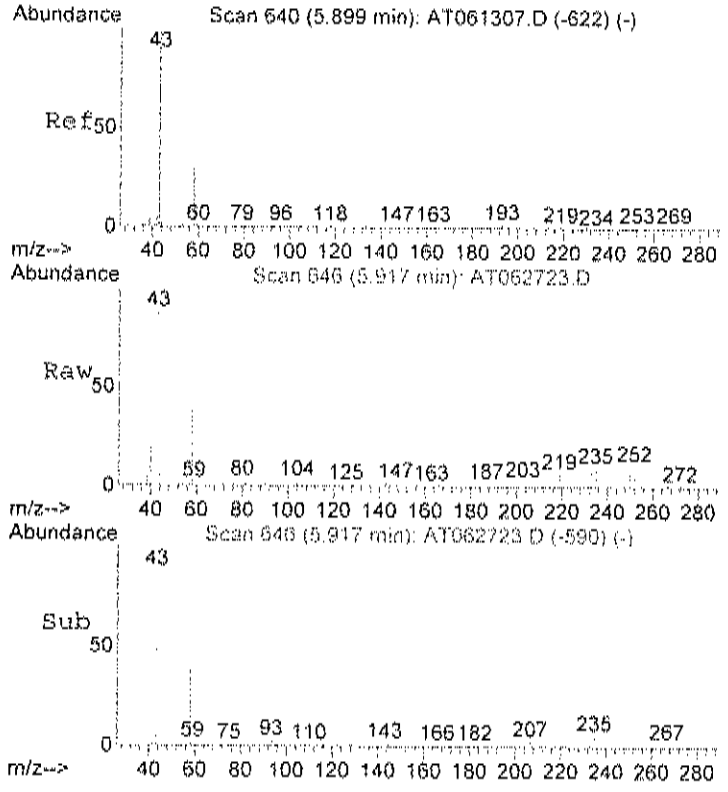
Vial: 23
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



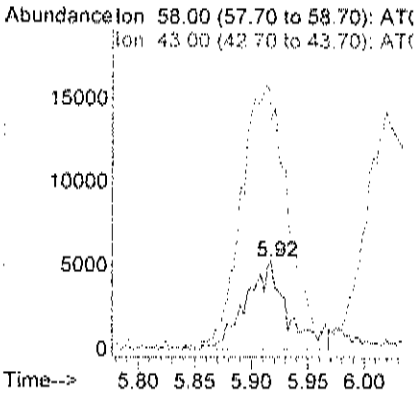
Centek/SanAir Laboratories

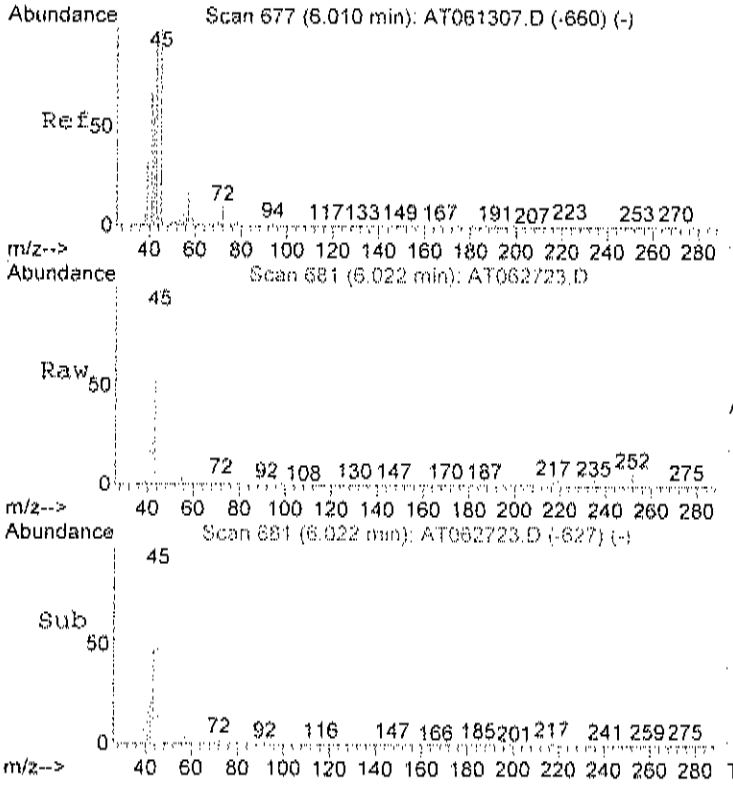


#15
Acetone
Concen: 0.87 ppb m
RT: 5.92 min Scan# 646
Delta R.T. 0.02 min
Lab File: AT062723.D
Acq: 28 Jun 2022 2:16 am

Tgt Ion: 58 Resp: 13497

Ion	Ratio	Lower	Upper
58	100		
43	331.3	268.9	328.9#

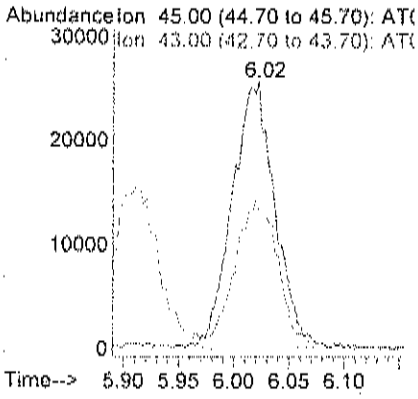


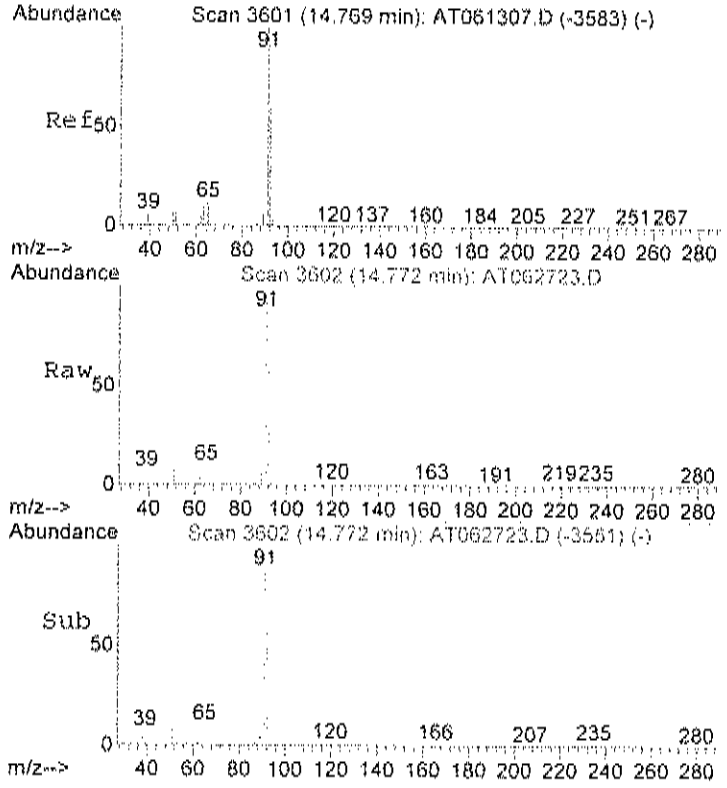


#17
Isopropyl alcohol
Concen: 1.52 ppb
RT: 6.02 min Scan# 681
Delta R.T. 0.01 min
Lab File: AT062723.D
Acq: 28 Jun 2022 2:16 am

Tgt Ion: 45 Resp: 69197

Ion	Ratio	Lower	Upper
45	100		
43	56.6	96.2	136.2#

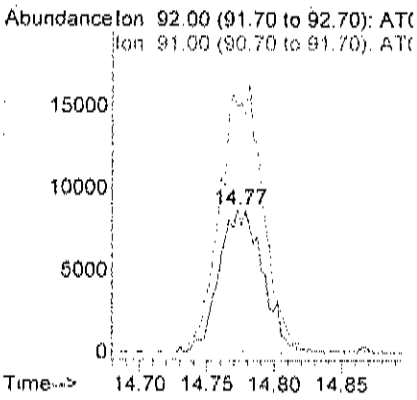


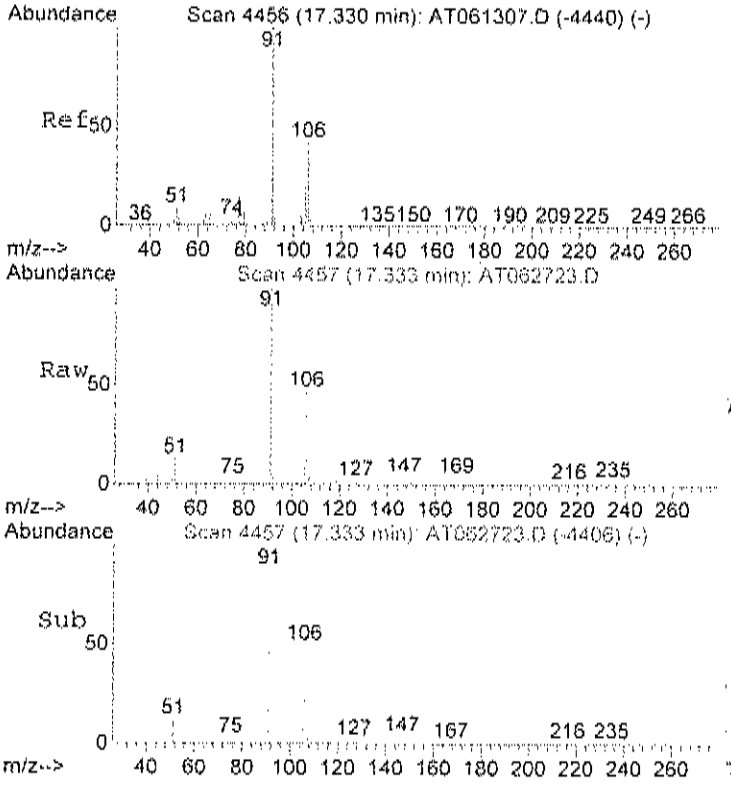


#51
Toluene
Concen: 0.31 ppb
RT: 14.77 min Scan# 3602
Delta R.T. 0.00 min
Lab File: AT062723.D
Acq: 28 Jun 2022 2:16 am

Tgt Ion: 92 Resp: 19621

Ion	Ratio	Lower	Upper
92	100		
91	184.5	154.4	194.4

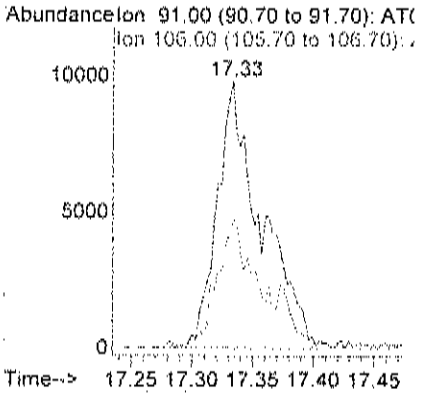


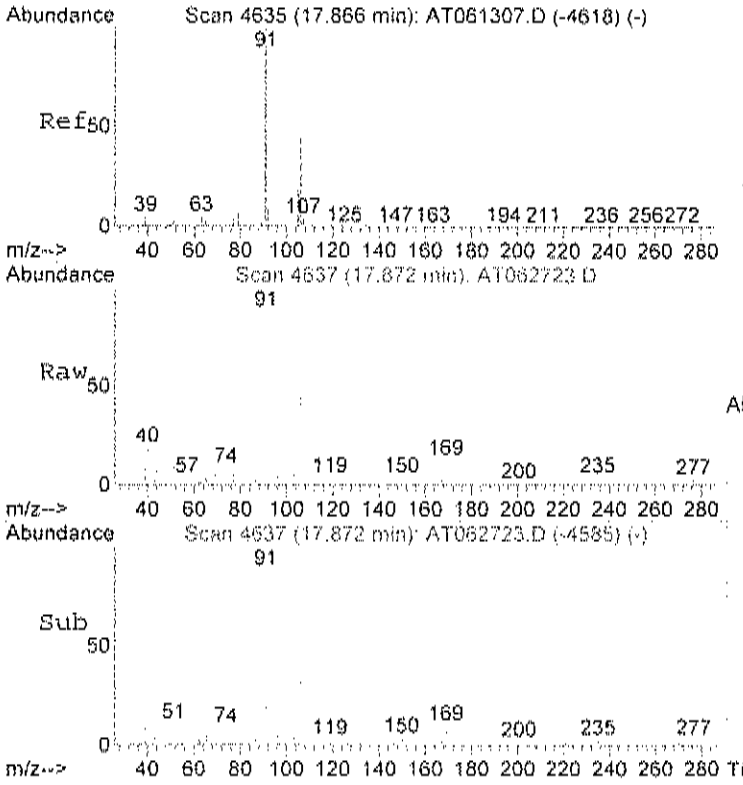


#59
m&p-xylene
Concen: 0.20 ppb
RT: 17.33 min Scan# 4457
Delta R.T. 0.00 min
Lab File: AT062723.D
Acq: 28 Jun 2022 2:16 am

Tgt Ion: 91 Resp: 24833

Ion	Ratio	Lower	Upper
91	100		
106	48.8	27.9	67.9

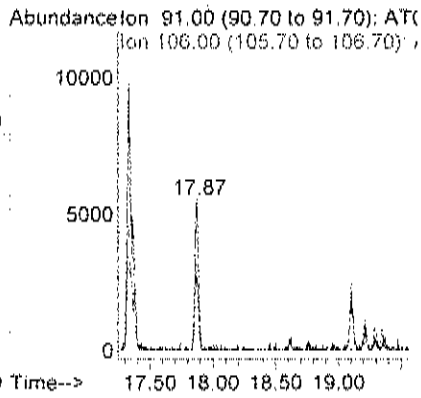


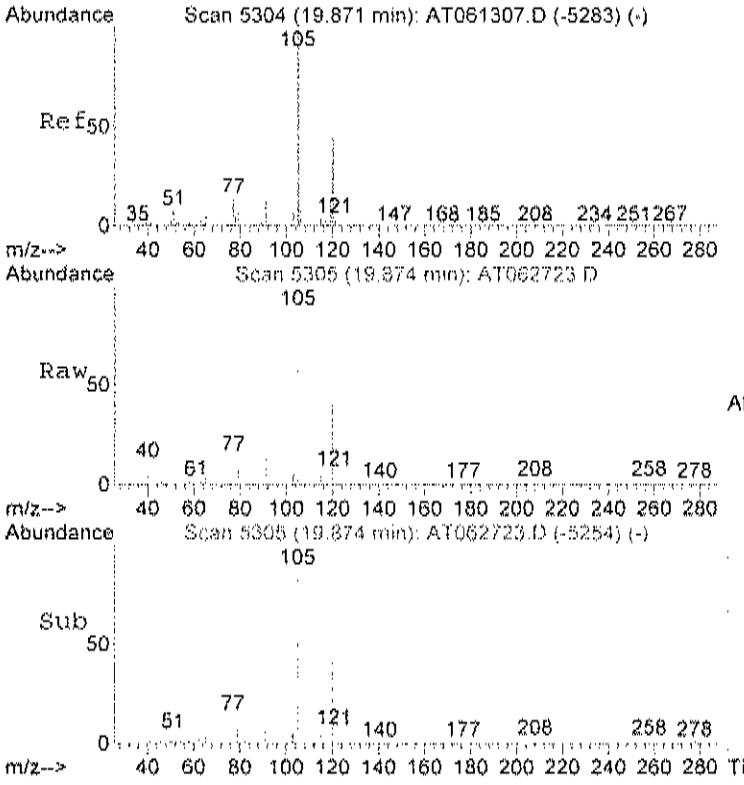


#63
o-xylene
Concen: 0.11 ppb m
RT: 17.87 min Scan# 4637
Delta R.T. 0.01 min
Lab File: AT062723.D
Acq: 28 Jun 2022 2:16 am

Tgt Ion: 91 Resp: 14557

Ion	Ratio	Lower	Upper
91	100		
106	38.1	25.1	65.1

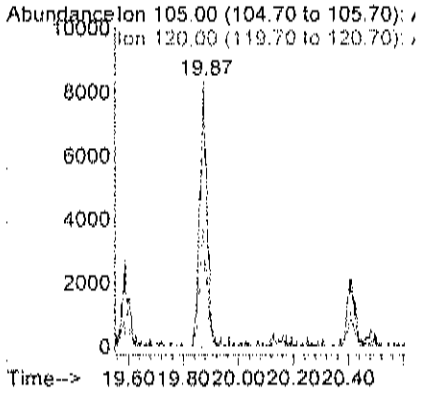




#71
1,2,4-trimethylbenzene
Concen: 0.11 ppb m
RT: 19.87 min Scan# 5305
Delta R.T. 0.00 min
Lab File: AT062723.D
Acq: 28 Jun 2022 2:16 am

Tgt Ion:105 Resp: 16689

Ion	Ratio	Lower	Upper
105	100		
120	42.6	23.8	63.8



Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-008A

Client Sample ID: SVW-7
Tag Number: 1450,125
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	0			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: NP
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,2,4-Trimethylbenzene	0.67	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,2-Dichloroethane	0.20	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,3,5-Trimethylbenzene	0.27	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/27/2022 12:39:00 PM
2,2,4-trimethylpentane	0.50	0.15		ppbV	1	6/27/2022 12:39:00 PM
4-ethyltoluene	0.19	0.15		ppbV	1	6/27/2022 12:39:00 PM
Acetone	17	3.0		ppbV	10	6/28/2022 2:58:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Benzene	0.86	0.15		ppbV	1	6/27/2022 12:39:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Carbon disulfide	1.1	1.5	J	ppbV	10	6/28/2022 2:58:00 AM
Carbon tetrachloride	0.16	0.15		ppbV	1	6/27/2022 12:39:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Chloroform	0.23	0.15		ppbV	1	6/27/2022 12:39:00 PM
Chloromethane	0.50	0.15		ppbV	1	6/27/2022 12:39:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Cyclohexane	0.76	0.15		ppbV	1	6/27/2022 12:39:00 PM

Qualifiers:

- Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-7
Lab Order:	C2206048	**Tag Number:**	1450.125
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-008A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Ethyl acetate	< 1.5	1.5		ppbV	10	6/28/2022 2:58:00 AM
Ethylbenzene	0.81	0.15		ppbV	1	6/27/2022 12:39:00 PM
Freon 11	0.45	0.15		ppbV	1	6/27/2022 12:39:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Freon 12	0.36	0.15		ppbV	1	6/27/2022 12:39:00 PM
Heptane	0.85	0.15		ppbV	1	6/27/2022 12:39:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Hexane	1.1	0.15		ppbV	1	6/27/2022 12:39:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
m&p-Xylene	2.7	0.30		ppbV	1	6/27/2022 12:39:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/27/2022 12:39:00 PM
Methyl Ethyl Ketone	1.4	3.0	J	ppbV	10	6/28/2022 2:58:00 AM
Methyl Isobutyl Ketone	1.3	3.0	J	ppbV	10	6/28/2022 2:58:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Methylene chloride	1.7	0.15		ppbV	1	6/27/2022 12:39:00 PM
o-Xylene	0.97	0.15		ppbV	1	6/27/2022 12:39:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Styrene	0.59	0.15		ppbV	1	6/27/2022 12:39:00 PM
Tetrachloroethylene	0.35	0.15		ppbV	1	6/27/2022 12:39:00 PM
Tetrahydrofuran	1.1	0.15		ppbV	1	6/27/2022 12:39:00 PM
Toluene	7.4	1.5		ppbV	10	6/28/2022 2:58:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Trichloroethene	0.16	0.15		ppbV	1	6/27/2022 12:39:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/27/2022 12:39:00 PM
Surr: Bromofluorobenzene	96.0	46.7-129		%REC	1	6/27/2022 12:39:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-7
Lab Order:	C2206048	**Tag Number:**	1450,125
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-008A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/27/2022 12:39:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/27/2022 12:39:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/27/2022 12:39:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/27/2022 12:39:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/27/2022 12:39:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/27/2022 12:39:00 PM
1,2,4-Trimethylbenzene	3.3	0.74		ug/m3	1	6/27/2022 12:39:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/27/2022 12:39:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/27/2022 12:39:00 PM
1,2-Dichloroethane	0.81	0.61		ug/m3	1	6/27/2022 12:39:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/27/2022 12:39:00 PM
1,3,5-Trimethylbenzene	1.3	0.74		ug/m3	1	6/27/2022 12:39:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/27/2022 12:39:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/27/2022 12:39:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/27/2022 12:39:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/27/2022 12:39:00 PM
2,2,4-trimethylpentane	2.3	0.70		ug/m3	1	6/27/2022 12:39:00 PM
4-ethyltoluene	0.93	0.74		ug/m3	1	6/27/2022 12:39:00 PM
Acetone	39	7.1		ug/m3	10	6/28/2022 2:58:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/27/2022 12:39:00 PM
Benzene	2.7	0.48		ug/m3	1	6/27/2022 12:39:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/27/2022 12:39:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/27/2022 12:39:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/27/2022 12:39:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/27/2022 12:39:00 PM
Carbon disulfide	3.4	4.7	J	ug/m3	10	6/28/2022 2:58:00 AM
Carbon tetrachloride	1.0	0.94		ug/m3	1	6/27/2022 12:39:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/27/2022 12:39:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/27/2022 12:39:00 PM
Chloroform	1.1	0.73		ug/m3	1	6/27/2022 12:39:00 PM
Chloromethane	1.0	0.31		ug/m3	1	6/27/2022 12:39:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/27/2022 12:39:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/27/2022 12:39:00 PM
Cyclohexane	2.6	0.52		ug/m3	1	6/27/2022 12:39:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/27/2022 12:39:00 PM
Ethyl acetate	< 5.4	5.4		ug/m3	10	6/28/2022 2:58:00 AM
Ethylbenzene	3.5	0.65		ug/m3	1	6/27/2022 12:39:00 PM
Freon 11	2.5	0.84		ug/m3	1	6/27/2022 12:39:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/27/2022 12:39:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/27/2022 12:39:00 PM

Qualifiers:

- . Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-008A

Client Sample ID: SVW-7
Tag Number: 1450,125
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	1.7	0.74		ug/m3	1	6/27/2022 12:39:00 PM
Heptane	3.5	0.61		ug/m3	1	6/27/2022 12:39:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/27/2022 12:39:00 PM
Hexane	3.7	0.53		ug/m3	1	6/27/2022 12:39:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/27/2022 12:39:00 PM
m&p-Xylene	12	1.3		ug/m3	1	6/27/2022 12:39:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/27/2022 12:39:00 PM
Methyl Ethyl Ketone	4.1	8.8	J	ug/m3	10	6/28/2022 2:58:00 AM
Methyl Isobutyl Ketone	5.3	12	J	ug/m3	10	6/28/2022 2:58:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/27/2022 12:39:00 PM
Methylene chloride	6.0	0.52		ug/m3	1	6/27/2022 12:39:00 PM
o-Xylene	4.2	0.65		ug/m3	1	6/27/2022 12:39:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/27/2022 12:39:00 PM
Styrene	2.5	0.64		ug/m3	1	6/27/2022 12:39:00 PM
Tetrachloroethylene	2.4	1.0		ug/m3	1	6/27/2022 12:39:00 PM
Tetrahydrofuran	3.4	0.44		ug/m3	1	6/27/2022 12:39:00 PM
Toluene	28	5.7		ug/m3	10	6/28/2022 2:58:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/27/2022 12:39:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/27/2022 12:39:00 PM
Trichloroethene	0.86	0.81		ug/m3	1	6/27/2022 12:39:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/27/2022 12:39:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/27/2022 12:39:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/27/2022 12:39:00 PM

Qualifiers:

- `*` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062705.D
Acq On : 27 Jun 2022 12:39 pm
Sample : C2206048-008A
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 28 07:18:24 2022

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.69	128	71094	1.00	ppb		0.00
35) 1,4-difluorobenzene	11.99	114	331680	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	303103	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.56	95	209941	0.96	ppb		-0.05
Spiked Amount 1.000	Range 70 - 130		Recovery = 96.00%				
Target Compounds							Qvalue
3) Freon 12	4.14	85	116196	0.35	ppb		99
4) Chloromethane	4.34	50	40313	0.50	ppb		97
14) Freon 11	5.75	101	183350	0.45	ppb		100
15) Acetone	5.90	58	1014170	24.53	ppb	#	17
21) Methylene chloride	6.96	84	155674	1.72	ppb		95
23) Carbon disulfide	7.11	76	1867828	6.95	ppb		99
28) Methyl Ethyl Ketone	8.78	72	75880	2.16	ppb	#	100
30) Hexane	8.85	57	111914	1.06	ppb		83
31) Ethyl acetate	9.38	43	1200449	7.24	ppb		99
32) Chloroform	9.86	83	51530	0.23	ppb		93
33) Tetrahydrofuran	10.00	42	70247	1.14	ppb	#	69
34) 1,2-dichloroethane	10.96	62	33203	0.20	ppb		98
37) Cyclohexane	11.40	56	76592m	0.76	ppb		
38) Carbon tetrachloride	11.33	117	34605	0.16	ppb		95
39) Benzene	11.29	78	204576	0.86	ppb		97
42) 2,2,4-trimethylpentane	12.16	57	155583	0.50	ppb	#	69
43) Heptane	12.51	43	95751	0.85	ppb		91
44) Trichloroethene	12.64	130	20933	0.16	ppb		98
51) Toluene	14.77	92	3053305	17.04	ppb		98
52) Methyl Isobutyl Ketone	13.82	43	1402688	8.77	ppb		96
56) Tetrachloroethylene	15.84	164	48471	0.35	ppb		97
58) Ethylbenzene	17.14	91	335846	0.81	ppb		99
59) m&p-xylene	17.33	91	910109	2.68	ppb		99
61) Styrene	17.82	104	148808	0.59	ppb		90
63) o-xylene	17.85	91	350946	0.97	ppb		100
69) 4-ethyltoluene	19.21	105	88092m	0.19	ppb		
70) 1,3,5-trimethylbenzene	19.28	105	112646m	0.27	ppb		
71) 1,2,4-trimethylbenzene	19.77	105	273180	0.67	ppb		99

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

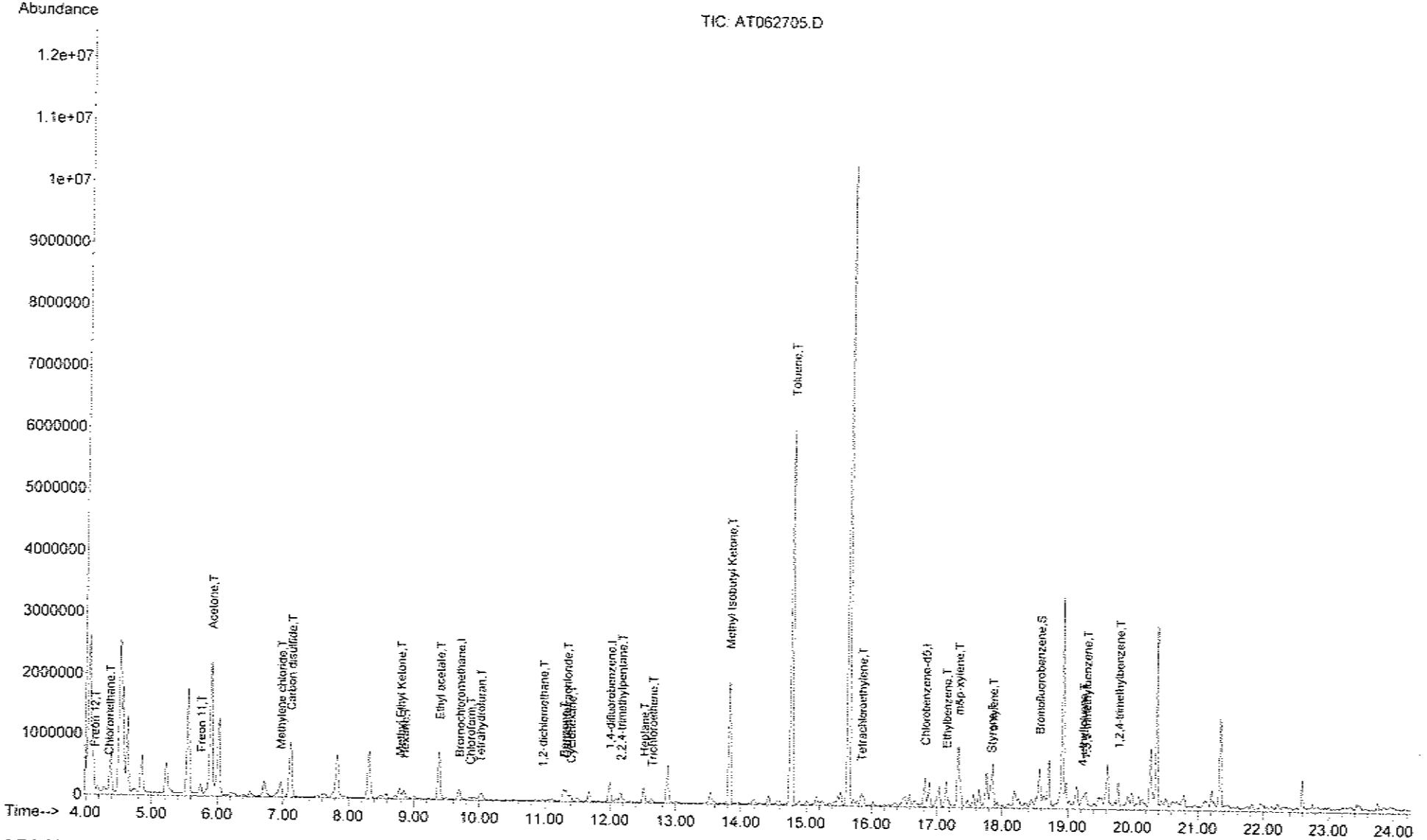
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062705.D
Acq On : 27 Jun 2022 12:39 pm
Sample : C2206048-008A
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 28 15:30 2022

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

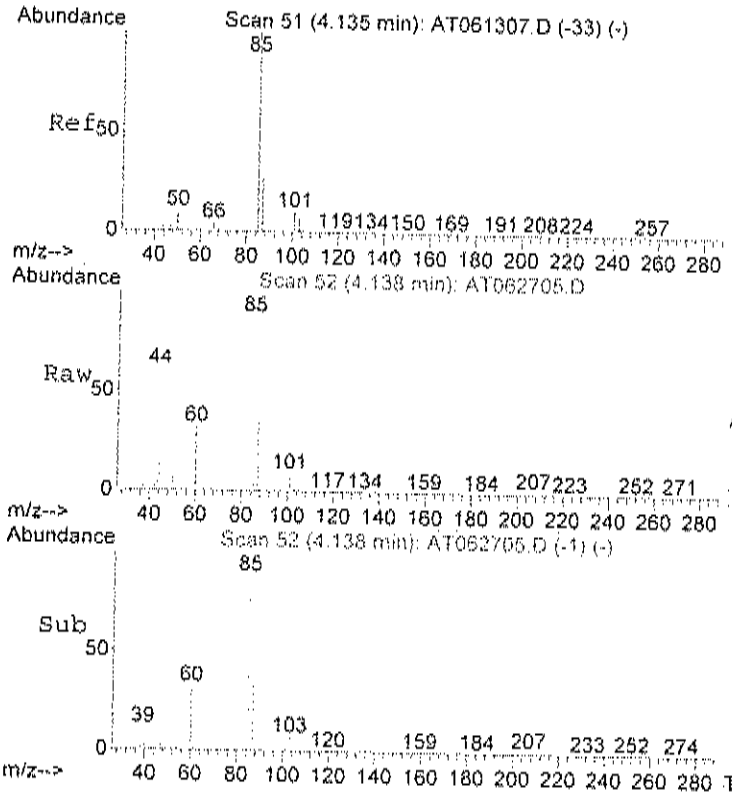
Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



AT062705.D A613_1UG.M Thu Jul 07 07:38:50 2022 MSD1

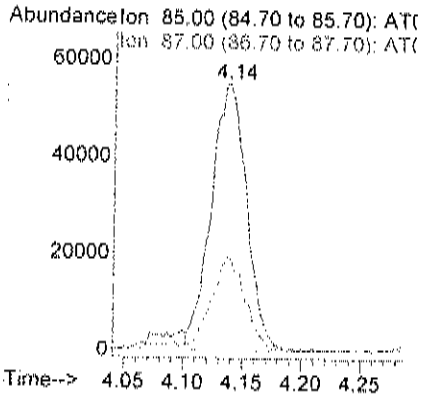
Centek/SanAir Laboratories

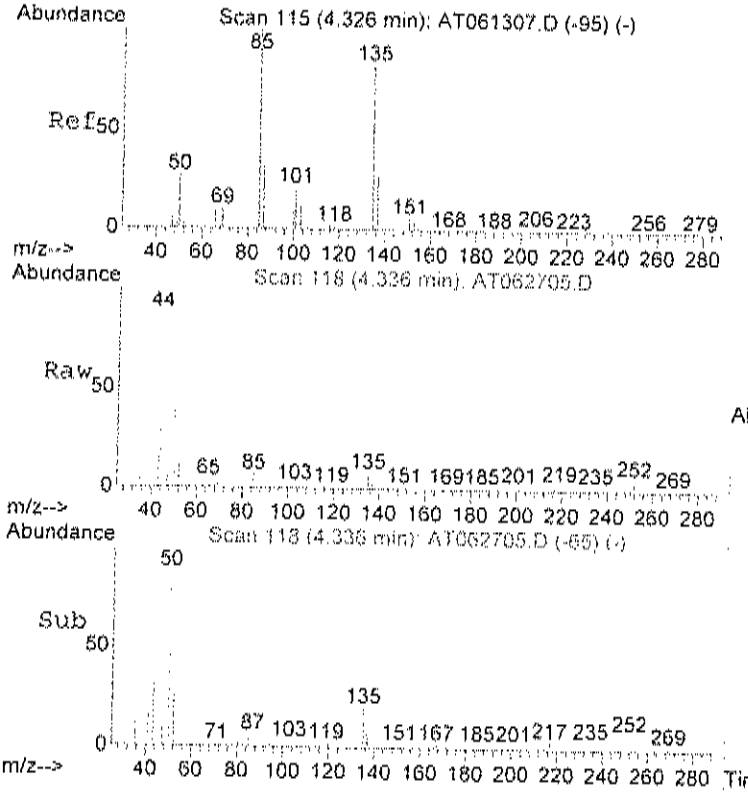


#3
Freon 12
Concen: 0.35 ppb
RT: 4.14 min Scan# 52
Delta R.T. 0.00 min
Lab File: AT062705.D
Acq: 27 Jun 2022 12:39 pm

Tgt Ion: 85 Resp: 116196

Ion	Ratio	Lower	Upper
85	100		
87	33.3	12.8	52.8

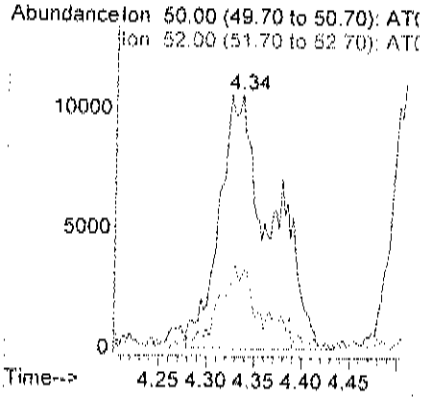


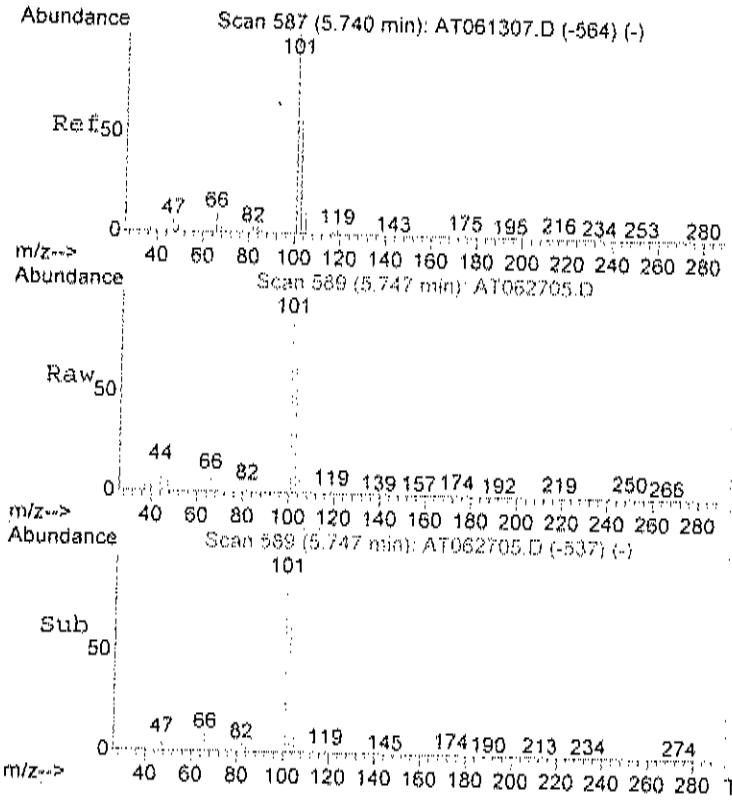


#4
Chloromethane
Concen: 0.50 ppb
RT: 4.34 min Scan# 118
Delta R.T. 0.01 min
Lab File: AT062705.D
Acq: 27 Jun 2022 12:39 pm

Tgt Ion: 50 Resp: 40313

Ion	Ratio	Lower	Upper
50	100		
52	24.0	2.7	42.7

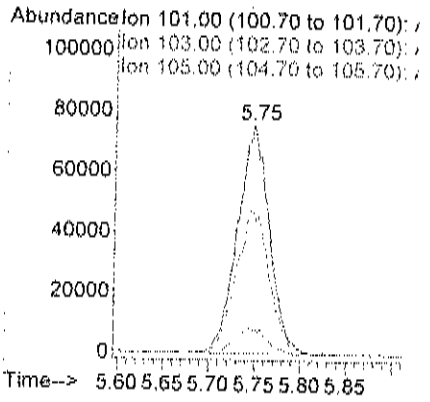


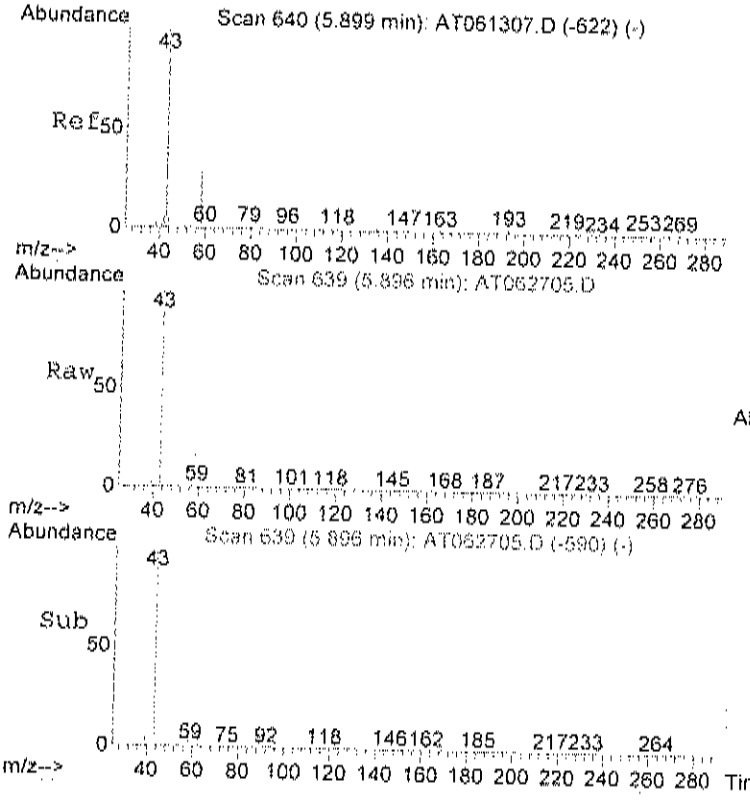


#14
Freon 11
Concen: 0.45 ppb
RT: 5.75 min Scan# 589
Delta R.T. 0.01 min
Lab File: AT062705.D
Acq: 27 Jun 2022 12:39 pm

Tgt Ion:101 Resp: 183350

Ion	Ratio	Lower	Upper
101	100		
103	65.9	46.3	86.3
105	11.3	0.0	31.2

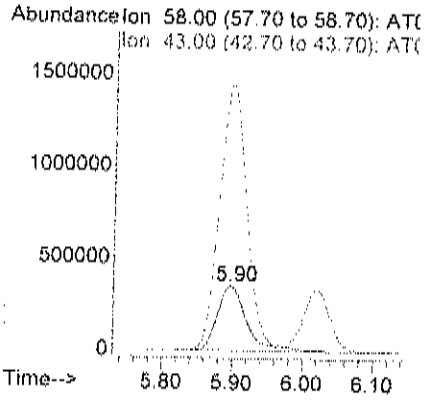


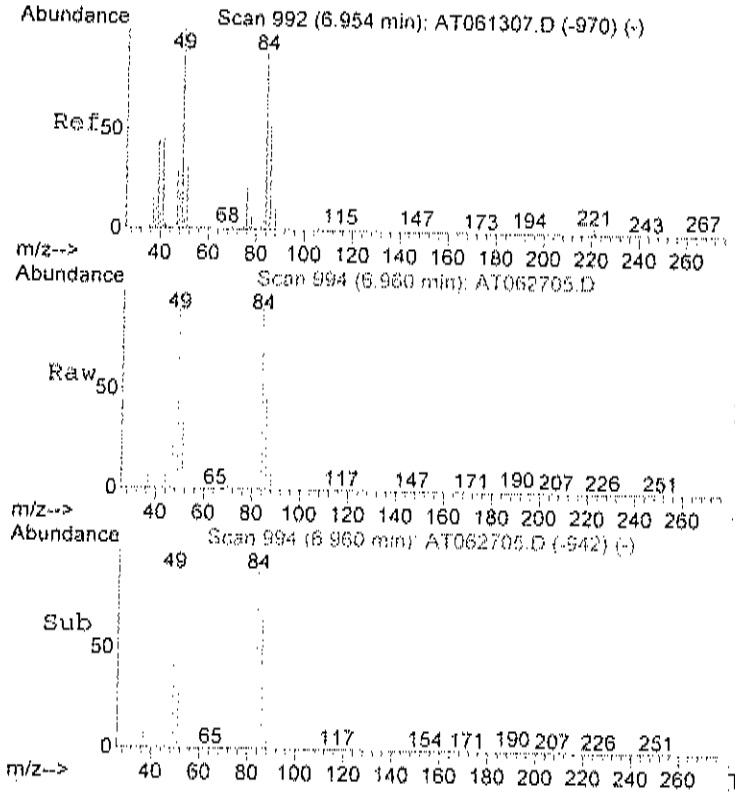


#15
Acetone
Concen: 24.53 ppb
RT: 5.90 min Scan# 639
Delta R.T. -0.00 min
Lab File: AT062705.D
Acq: 27 Jun 2022 12:39 pm

Tgt Ion: 58 Resp: 1014170

Ion	Ratio	Lower	Upper
58	100		
43	460.9	268.9	328.9#

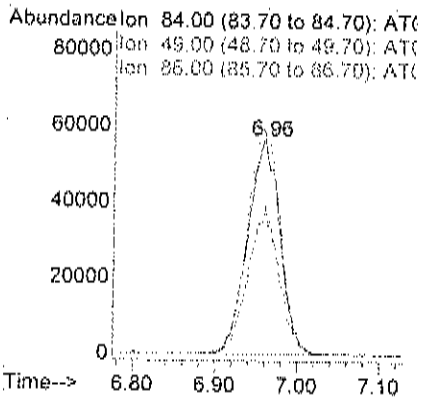


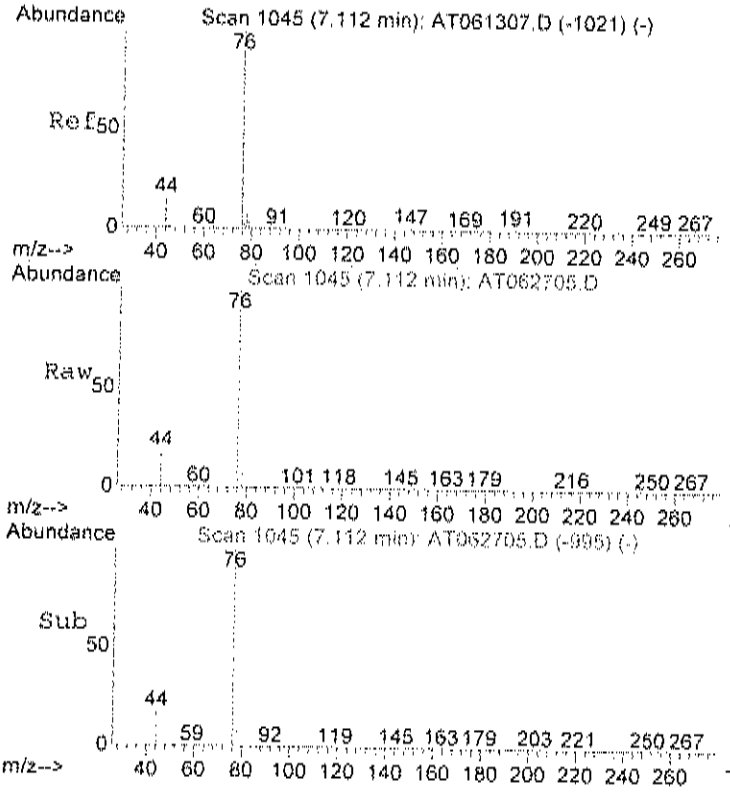


#21
Methylene chloride
Concen: 1.72 ppb
RT: 6.96 min Scan# 994
Delta R.T. 0.01 min
Lab File: AT062705.D
Acq: 27 Jun 2022 12:39 pm

Tgt Ion: 84 Resp: 155674

Ion	Ratio	Lower	Upper
84	100		
49	105.2	93.2	133.2
86	65.1	46.4	86.4

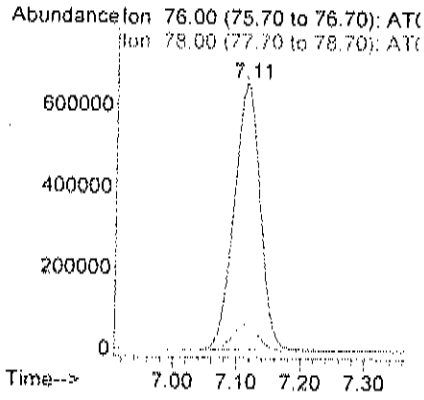


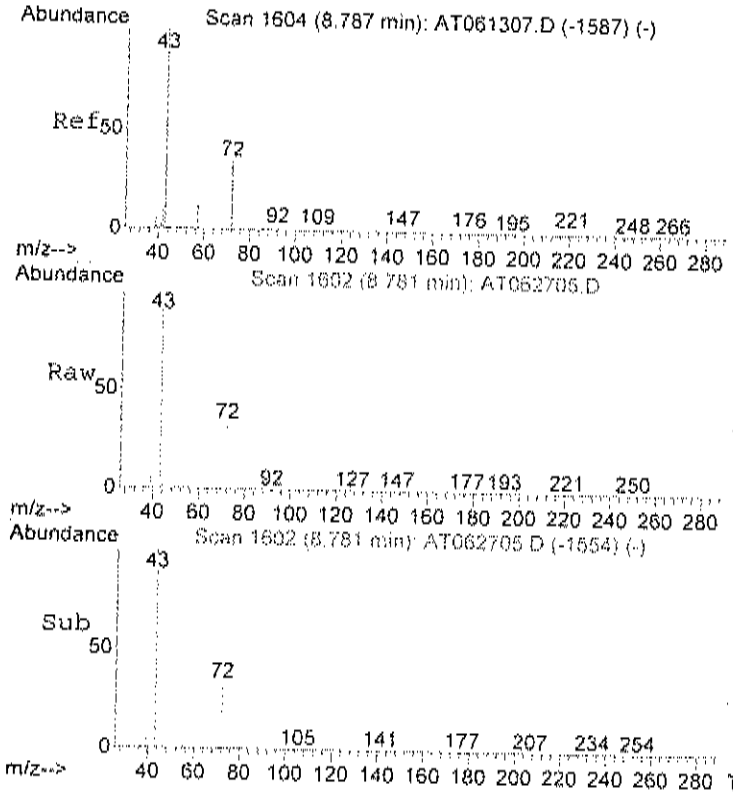


#23
Carbon disulfide
Concen: 6.95 ppb
RT: 7.11 min Scan# 1045
Delta R.T. 0.00 min
Lab File: AT062705.D
Acq: 27 Jun 2022 12:39 pm

Tgt Ion: 76 Resp: 1867828

Ion	Ratio	Lower	Upper
76	100		
78	9.5	0.0	29.7

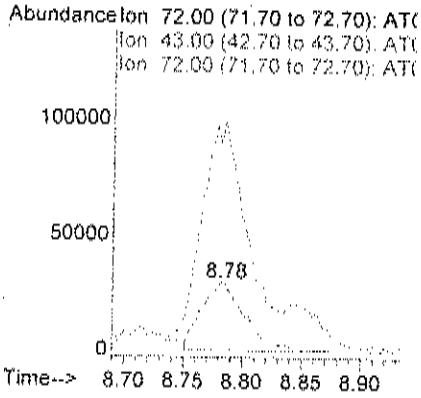


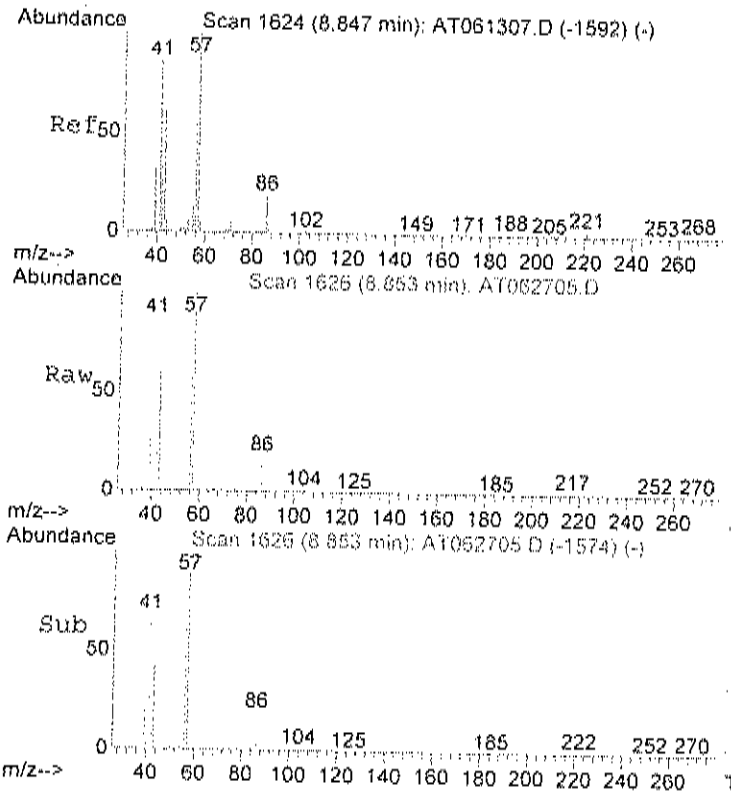


#28
Methyl Ethyl Ketone
Concen: 2.16 ppb
RT: 8.78 min Scan# 1602
Delta R.T. -0.01 min
Lab File: AT062705.D
Acq: 27 Jun 2022 12:39 pm

Tgt Ion: 72 Resp: 75880

Ion	Ratio	Lower	Upper
72	100		
43	403.7	0.0	20.0#
72	100.0	80.0	120.0

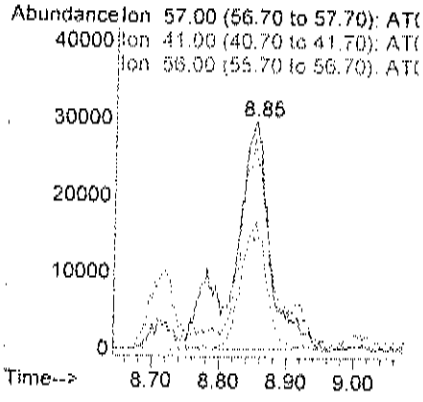


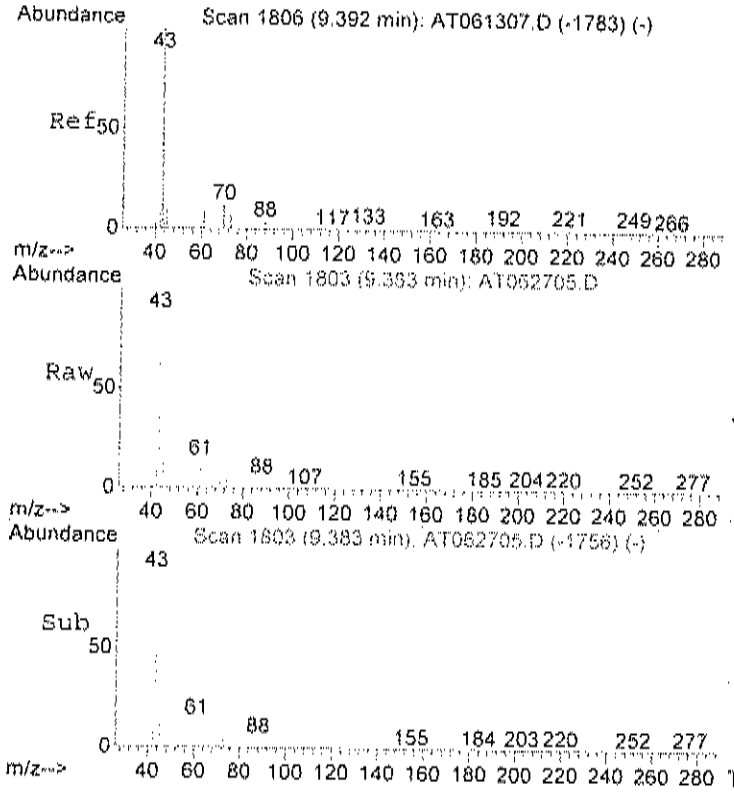


#30
Hexane
Concen: 1.06 ppb
RT: 8.85 min Scan# 1626
Delta R.T. 0.01 min
Lab File: AT062705.D
Acq: 27 Jun 2022 12:39 pm

Tgt Ion: 57 Resp: 111914

Ion	Ratio	Lower	Upper
57	100		
41	94.8	58.1	98.1
56	39.3	28.7	68.7

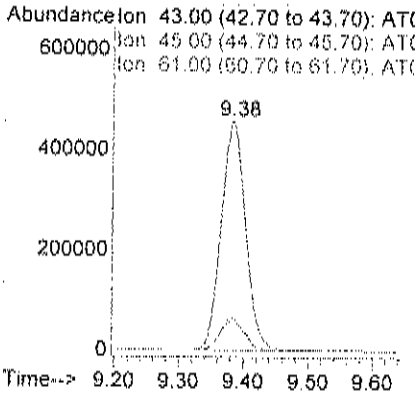


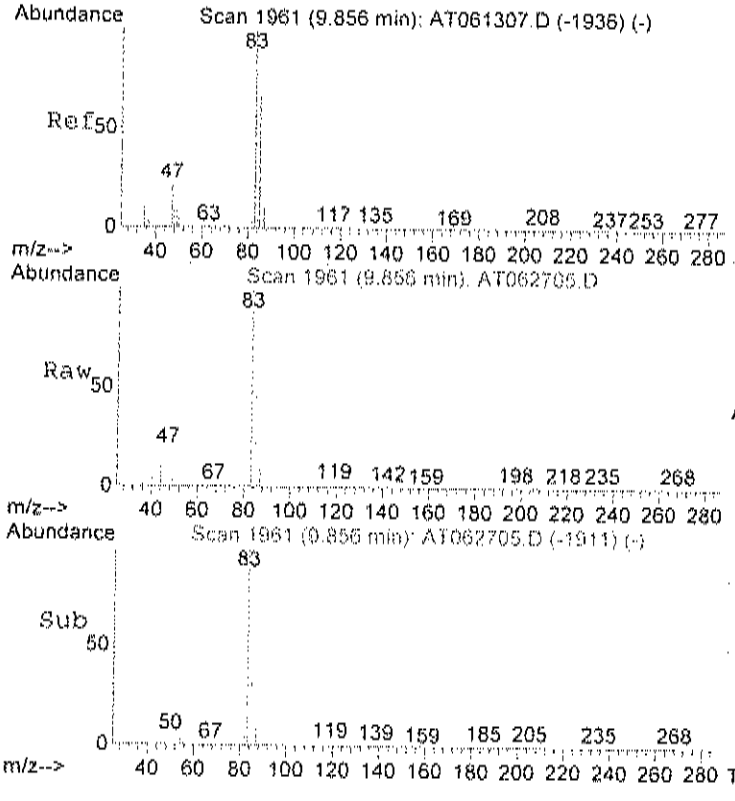


#31
Ethyl acetate
Concen: 7.24 ppb
RT: 9.38 min Scan# 1803
Delta R.T. -0.01 min
Lab File: AT062705.D
Acq: 27 Jun 2022 12:39 pm

Tgt Ion: 43 Resp: 1200449

Ion	Ratio	Lower	Upper
43	100		
45	13.2	0.0	33.7
61	14.2	0.0	34.7

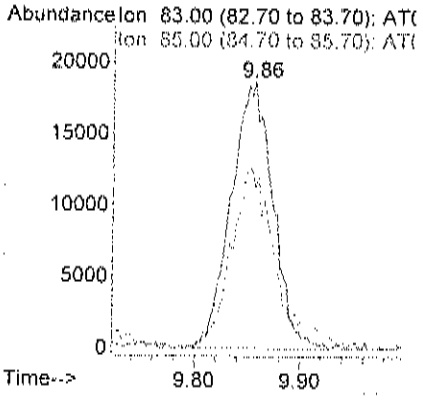


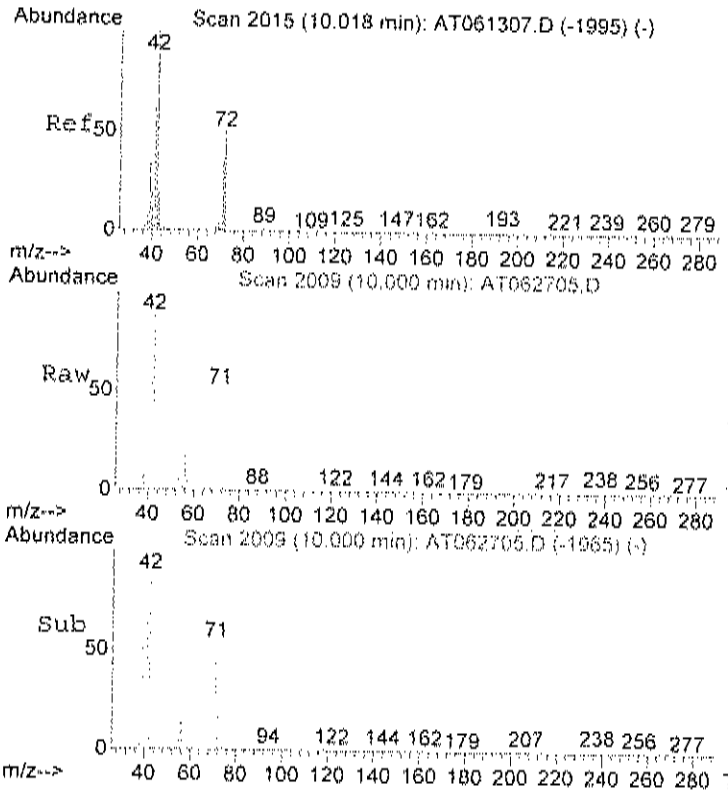


#32
Chloroform
Concen: 0.23 ppb
RT: 9.86 min Scan# 1961
Delta R.T. 0.00 min
Lab File: AT062705.D
Acq: 27 Jun 2022 12:39 pm

Tgt Ion: 83 Resp: 51530

Ion	Ratio	Lower	Upper
83	100		
85	72.1	46.5	86.5

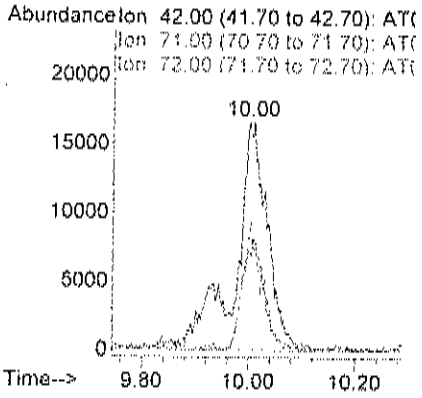


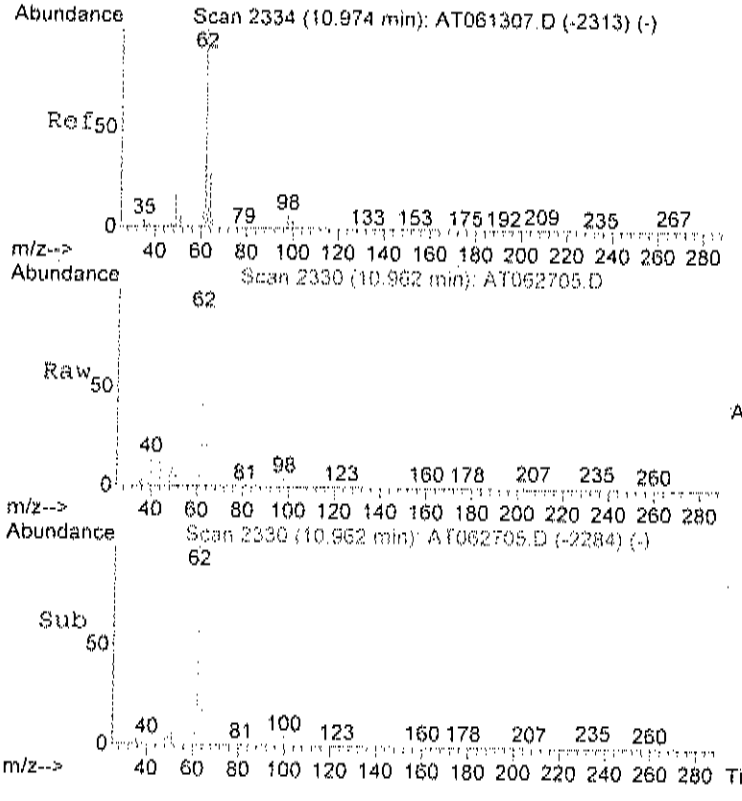


#33
Tetrahydrofuran
Concen: 1.14 ppb
RT: 10.00 min Scan# 2009
Delta R.T. -0.02 min
Lab File: AT062705.D
Acq: 27 Jun 2022 12:39 pm

Tgt Ion: 42 Resp: 70247

Ion	Ratio	Lower	Upper
42	100		
71	34.2	38.0	78.0#
72	33.2	35.0	75.0#

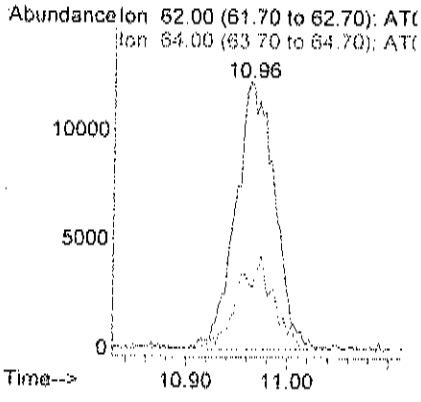


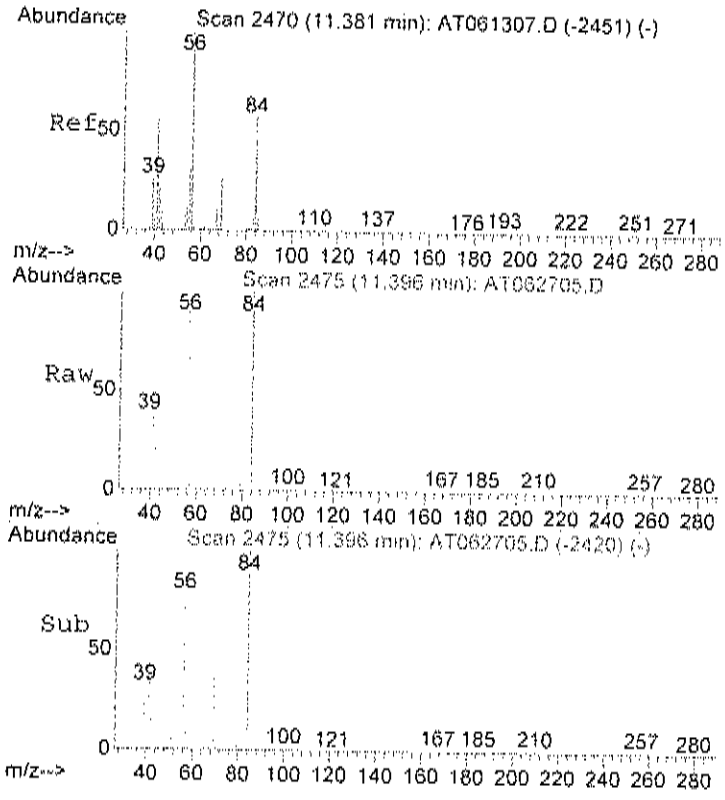


#34
1,2-dichloroethane
Concen: 0.20 ppb
RT: 10.96 min Scan# 2330
Delta R.T. -0.01 min
Lab File: AT062705.D
Acq: 27 Jun 2022 12:39 pm

Tgt Ion: 62 Resp: 33203

Ion	Ratio	Lower	Upper
62	100		
64	31.5	12.8	52.8

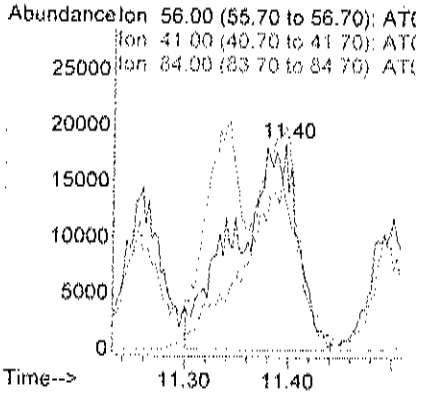


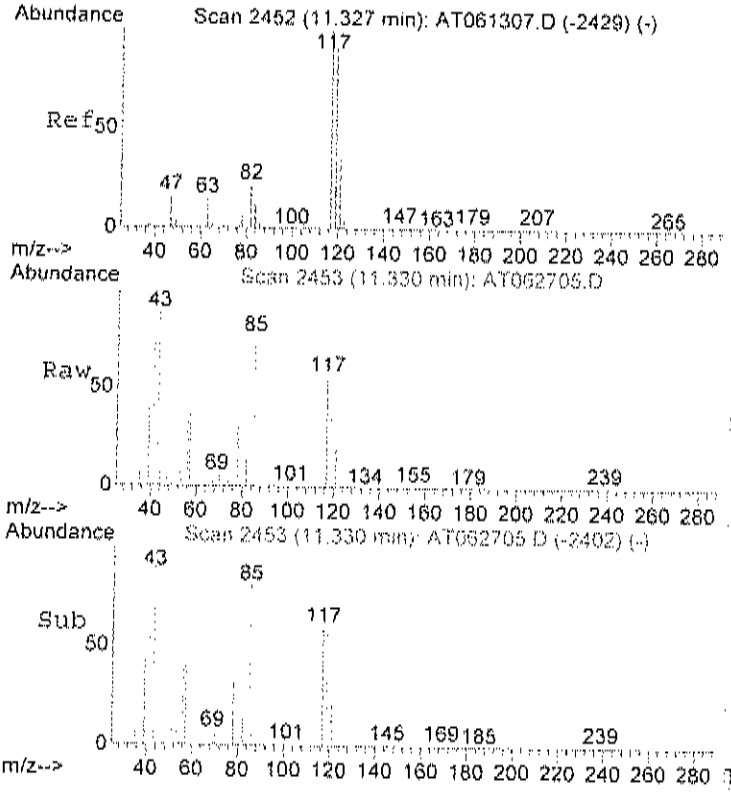


#37
Cyclohexane
Concen: 0.76 ppb m
RT: 11.40 min Scan# 2475
Delta R.T. 0.02 min
Lab File: AT062705.D
Acq: 27 Jun 2022 12:39 pm

Tgt Ion: 56 Resp: 76592

Ion	Ratio	Lower	Upper
56	100		
41	0.0	40.3	80.3#
84	89.0	133.0	173.0#

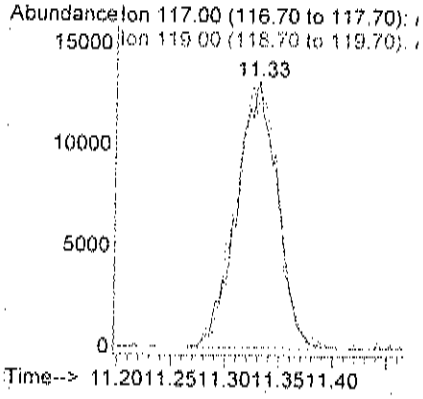


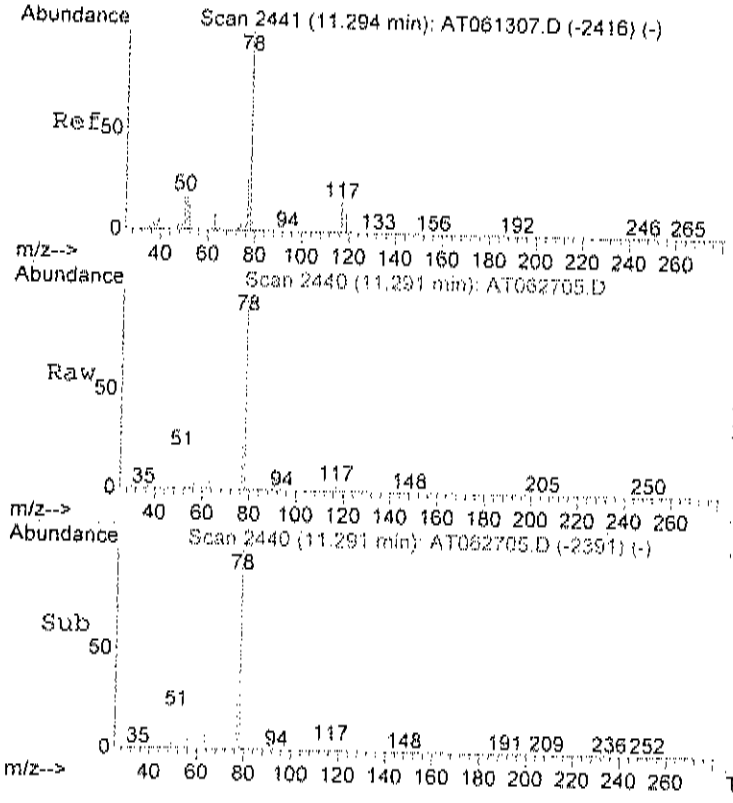


#38
Carbon tetrachloride
Concen: 0.16 ppb
RT: 11.33 min Scan# 2453
Delta R.T. 0.00 min
Lab File: AT062705.D
Acq: 27 Jun 2022 12:39 pm

Tgt Ion:117 Resp: 34605

Ion	Ratio	Lower	Upper
117	100		
119	102.0	77.2	117.2

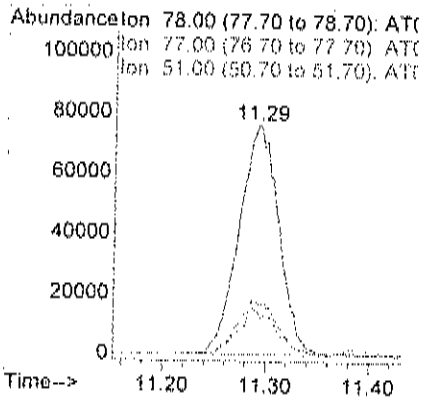


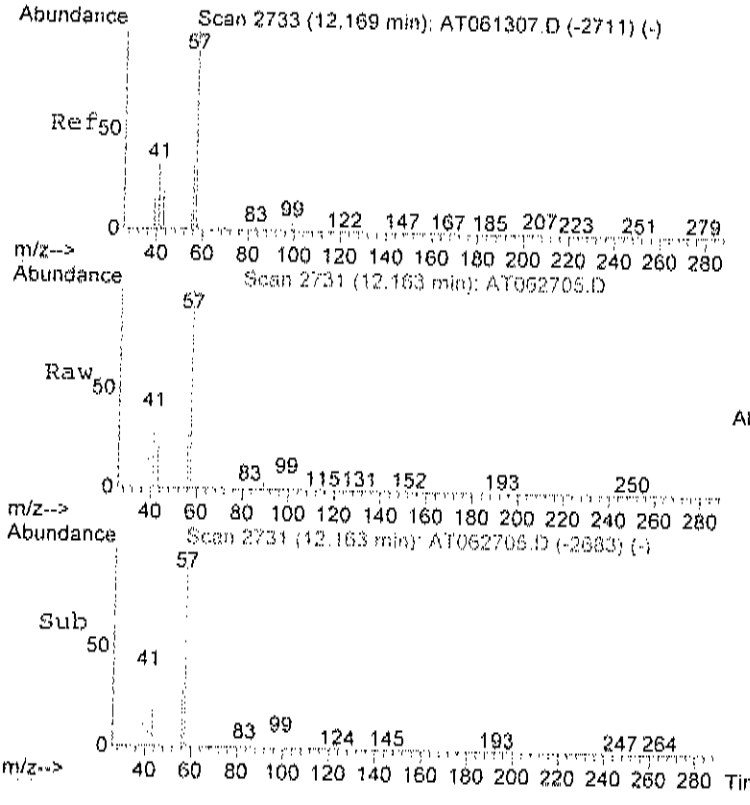


#39
Benzene
Concen: 0.86 ppb
RT: 11.29 min Scan# 2440
Delta R.T. -0.00 min
Lab File: AT062705.D
Acq: 27 Jun 2022 12:39 pm

Tgt Ion: 78 Resp: 204576

Ion	Ratio	Lower	Upper
78	100		
77	24.8	3.1	43.1
51	19.1	0.0	37.8

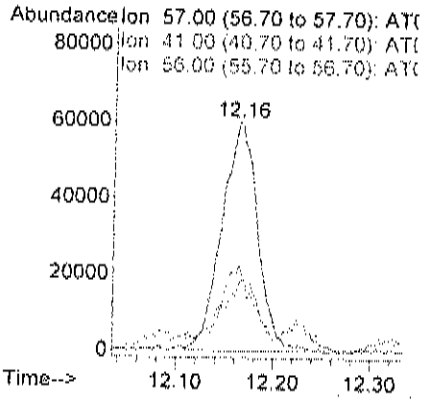


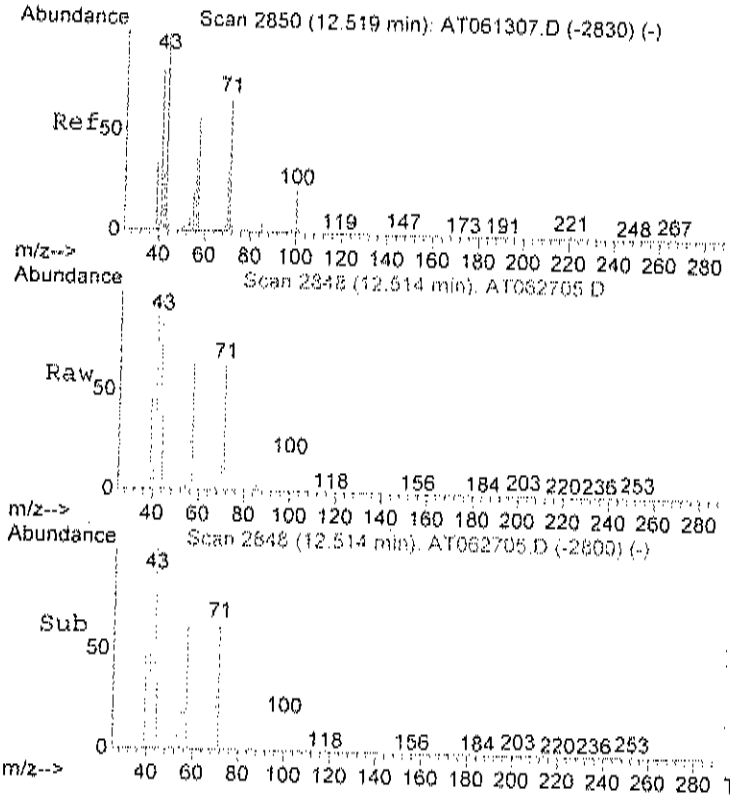


#42
2,2,4-trimethylpentane
Concen: 0.50 ppb
RT: 12.16 min Scan# 2731
Delta R.T. -0.01 min
Lab File: AT062705.D
Acq: 27 Jun 2022 12:39 pm

Tgt Ion: 57 Resp: 155583

Ion	Ratio	Lower	Upper
57	100		
41	56.1	15.3	55.3#
56	43.7	10.1	50.1

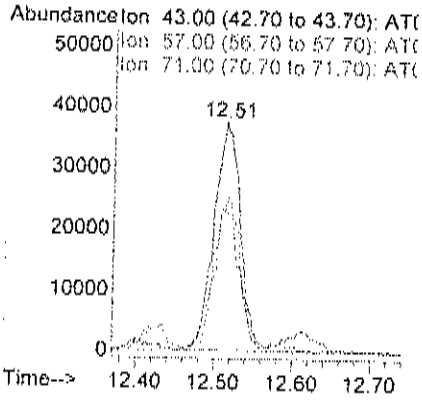


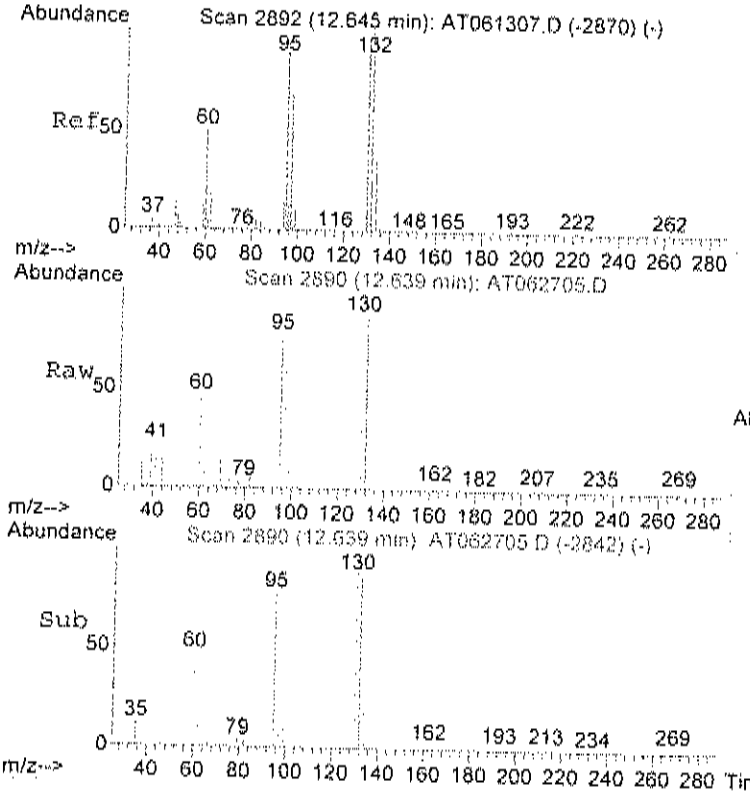


#43
Heptane
Concen: 0.85 ppb
RT: 12.51 min Scan# 2848
Delta R.T. -0.01 min
Lab File: AT062705.D
Acq: 27 Jun 2022 12:39 pm

Tgt Ion: 43 Resp: 95751

Ion	Ratio	Lower	Upper
43	100		
57	61.2	41.7	81.7
71	60.5	53.4	93.4

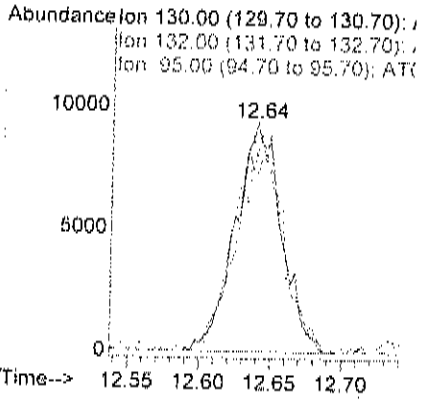


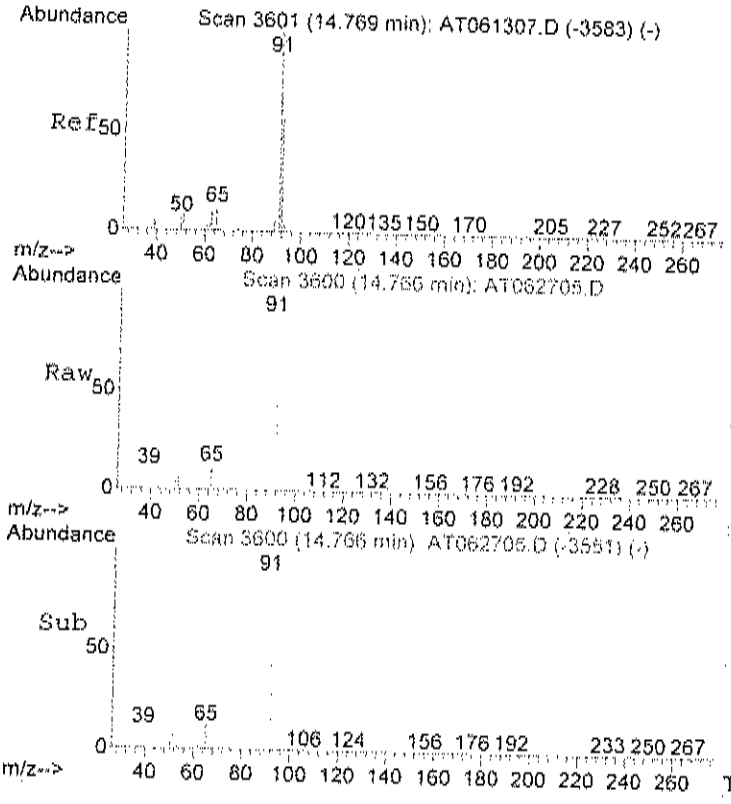


#44
Trichloroethene
Concen: 0.16 ppb
RT: 12.64 min Scan# 2890
Delta R.T. -0.01 min
Lab File: AT062705.D
Acq: 27 Jun 2022 12:39 pm

Tgt Ion:130 Resp: 20933

Ion	Ratio	Lower	Upper
130	100		
132	97.0	76.7	116.7
95	97.8	74.7	114.7

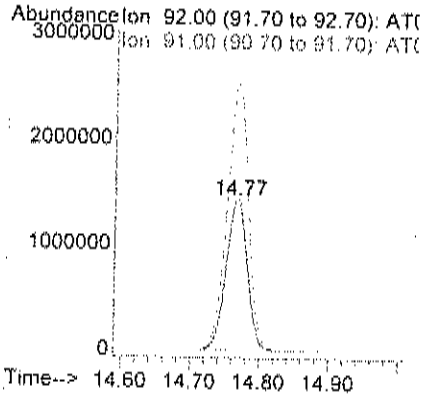


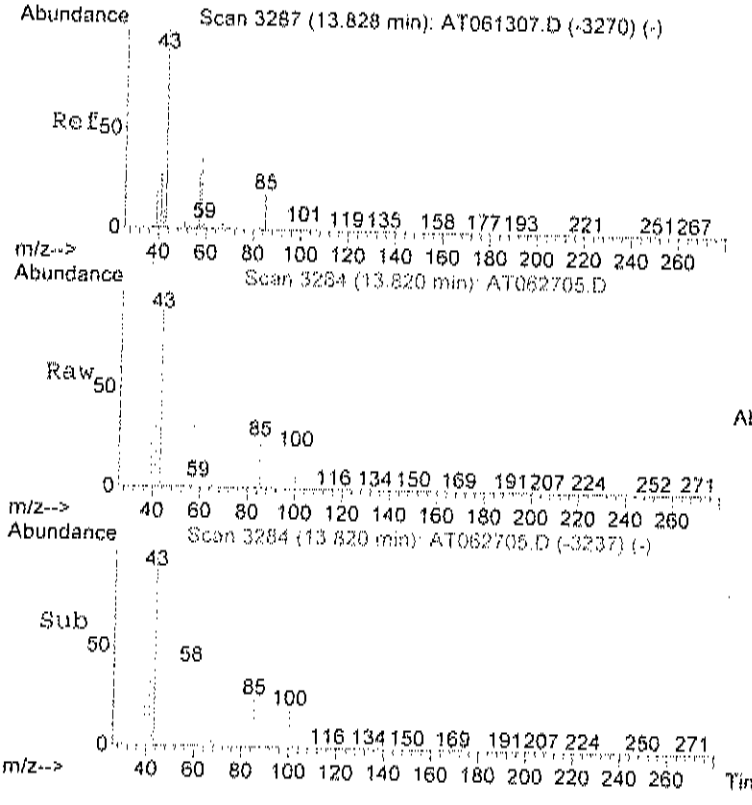


#51
Toluene
Concen: 17.04 ppb
RT: 14.77 min Scan# 3600
Delta R.T. -0.00 min
Lab File: AT062705.D
Acq: 27 Jun 2022 12:39 pm

Tgt Ion: 92 Resp: 3053305

Ion	Ratio	Lower	Upper
92	100		
91	176.6	154.4	194.4

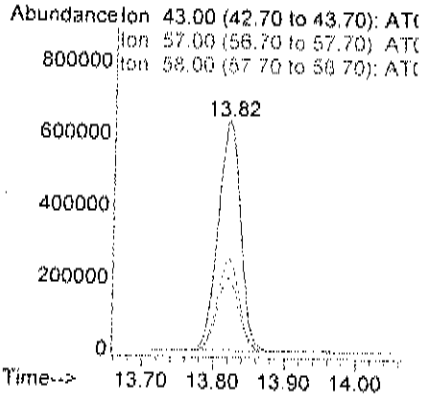


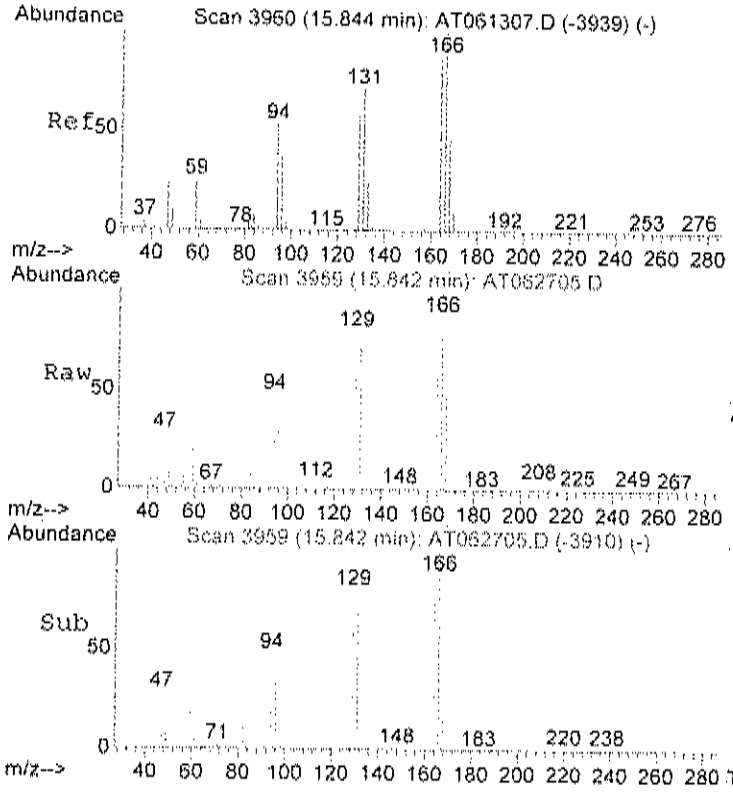


#52
Methyl Isobutyl Ketone
Concen: 8.77 ppb
RT: 13.82 min Scan# 3284
Delta R.T. -0.01 min
Lab File: AT062705.D
Acq: 27 Jun 2022 12:39 pm

Tgt Ion: 43 Resp: 1402688

Ion	Ratio	Lower	Upper
43	100		
57	30.9	9.3	49.3
58	39.4	22.0	62.0

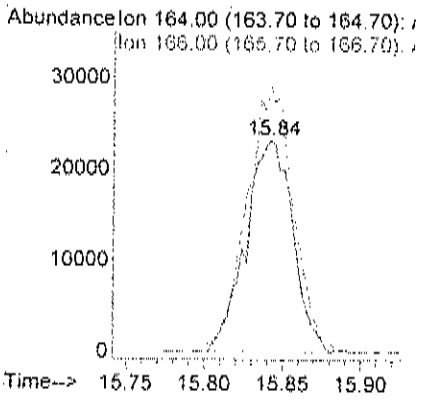


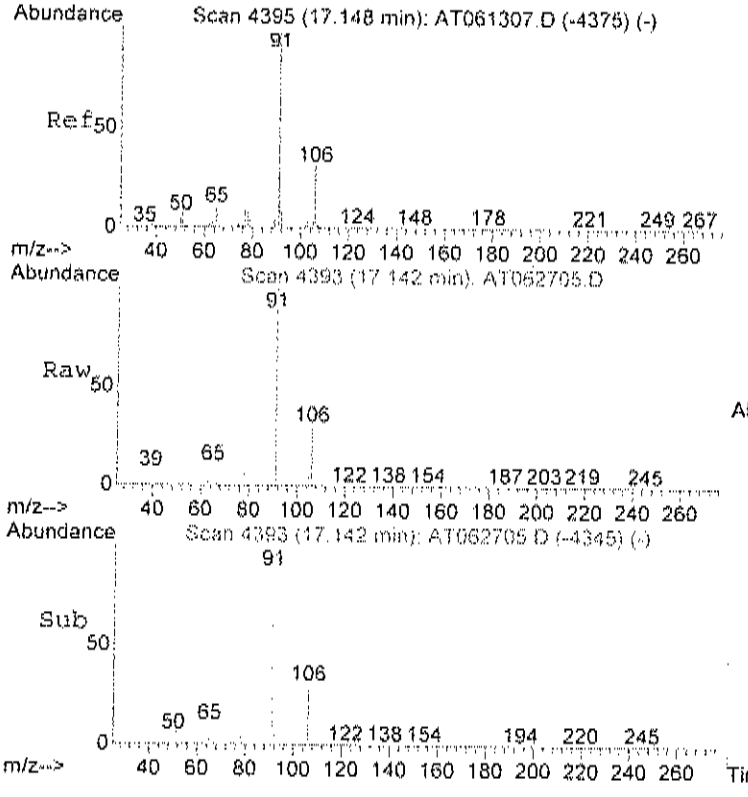


#56
Tetrachloroethylene
Concen: 0.35 ppb
RT: 15.84 min Scan# 3959
Delta R.T. -0.00 min
Lab File: AT062705.D
Acq: 27 Jun 2022 12:39 pm

Tgt Ion:164 Resp: 48471

Ion	Ratio	Lower	Upper
164	100		
166	124.5	107.7	147.7

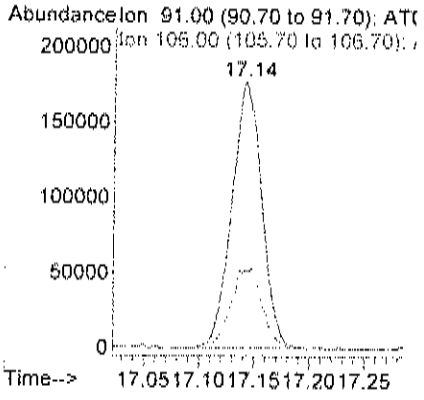


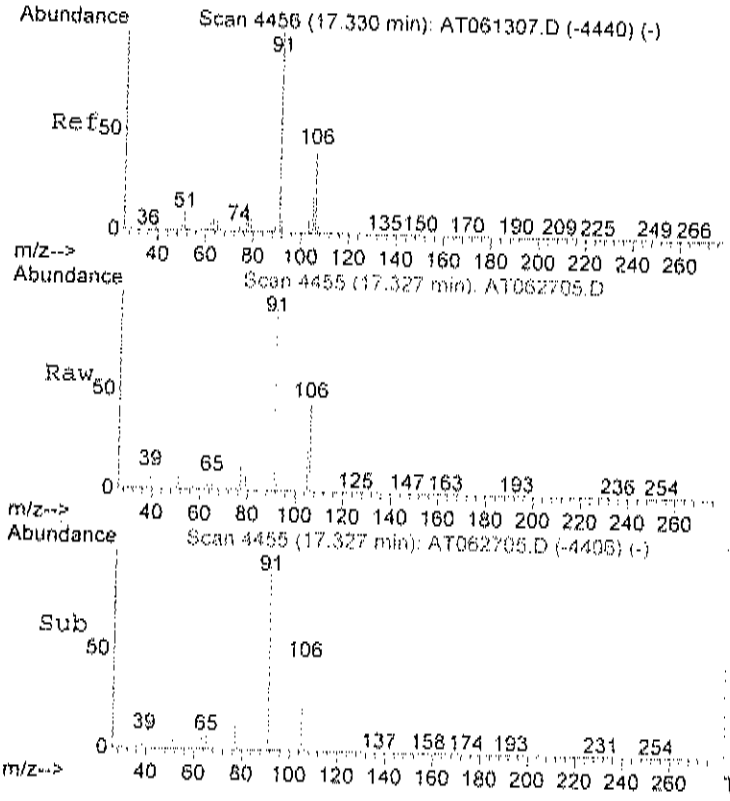


#58
Ethylbenzene
Concen: 0.81 ppb
RT: 17.14 min Scan# 4393
Delta R.T. -0.01 min
Lab File: AT062705.D
Acq: 27 Jun 2022 12:39 pm

Tgt Ion: 91 Resp: 335846

Ion	Ratio	Lower	Upper
91	100		
106	31.9	11.5	51.5

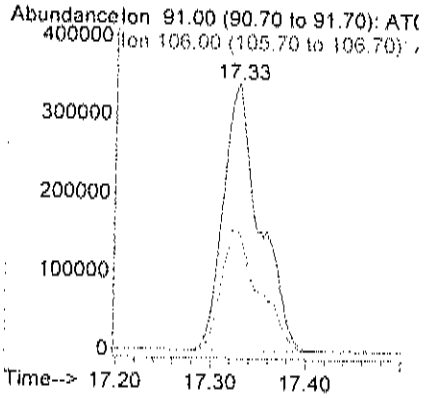


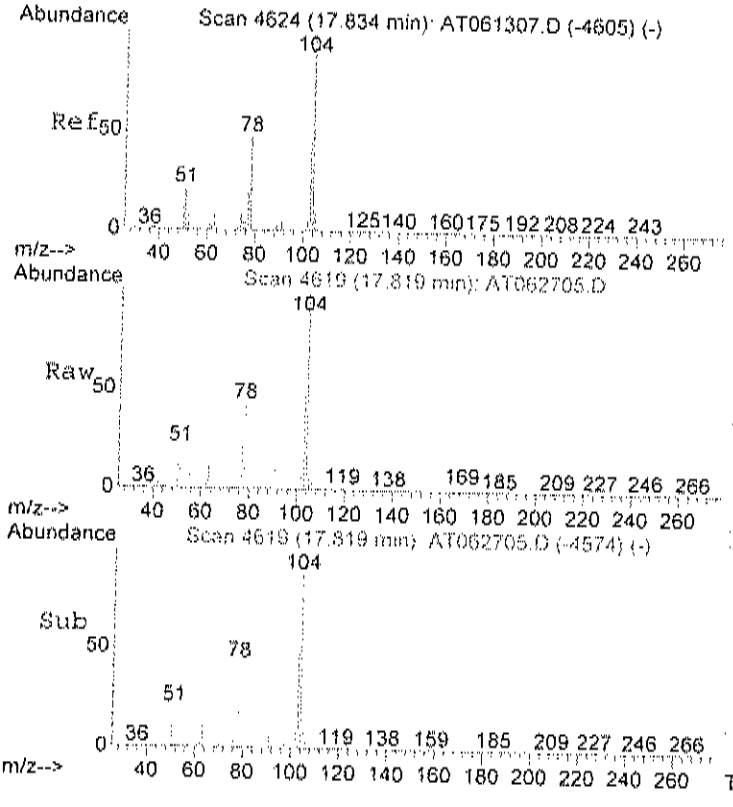


#59
m&p-xylene
Concen: 2.68 ppb
RT: 17.33 min Scan# 4455
Delta R.T. -0.00 min
Lab File: AT062705.D
Acq: 27 Jun 2022 12:39 pm

Tgt Ion: 91 Resp: 910109

Ion	Ratio	Lower	Upper
91	100		
106	46.9	27.9	67.9

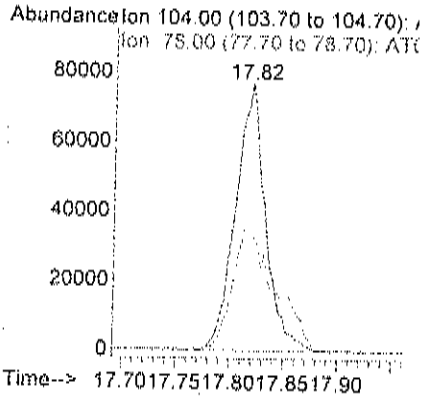


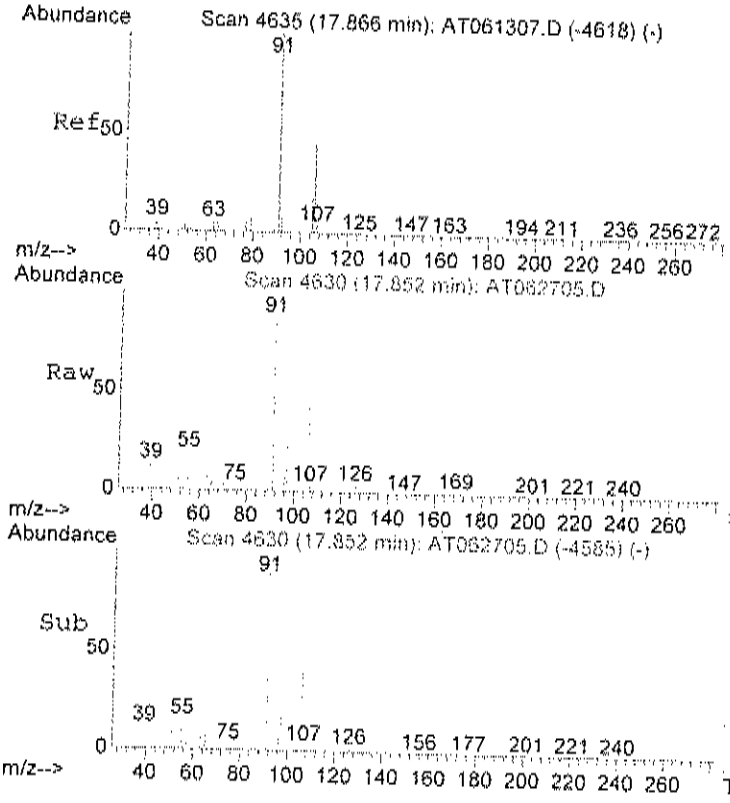


#61
Styrene
Concen: 0.59 ppb
RT: 17.82 min Scan# 4619
Delta R.T. -0.01 min
Lab File: AT062705.D
Acq: 27 Jun 2022 12:39 pm

Tgt Ion:104 Resp: 148808

Ion	Ratio	Lower	Upper
104	100		
78	65.1	37.9	77.9

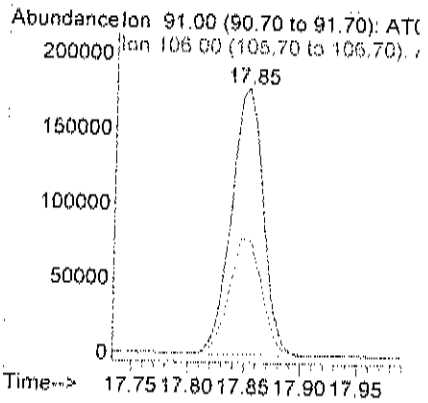


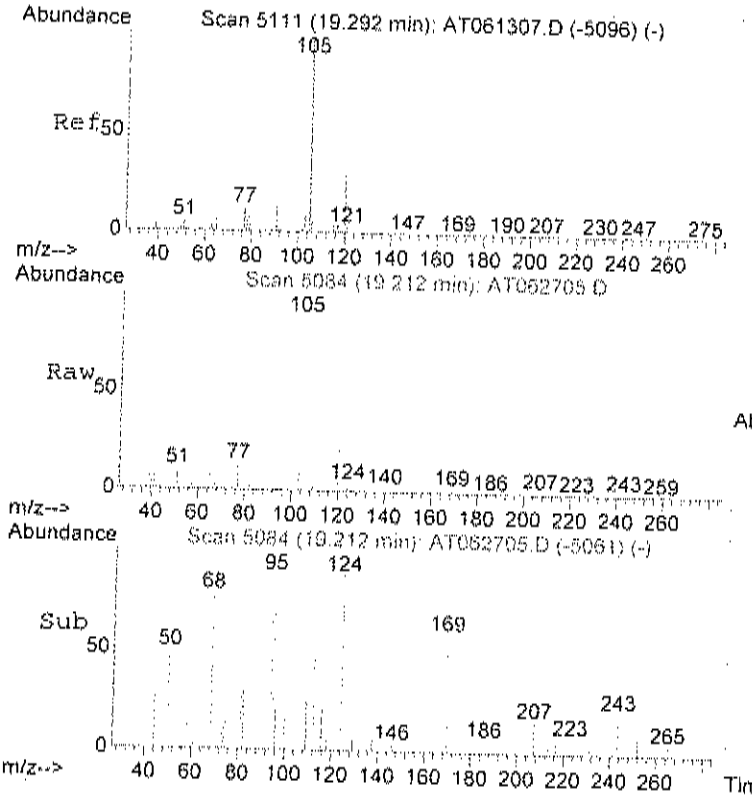


#63
o-xylene
Concen: 0.97 ppb
RT: 17.85 min Scan# 4630
Delta R.T. -0.01 min
Lab File: AT062705.D
Acq: 27 Jun 2022 12:39 pm

Tgt Ion: 91 Resp: 350946

Ion	Ratio	Lower	Upper
91	100		
106	45.0	25.1	65.1

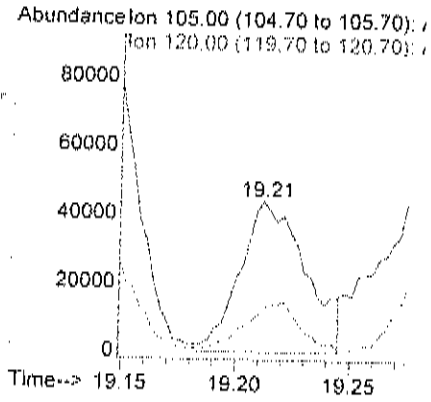


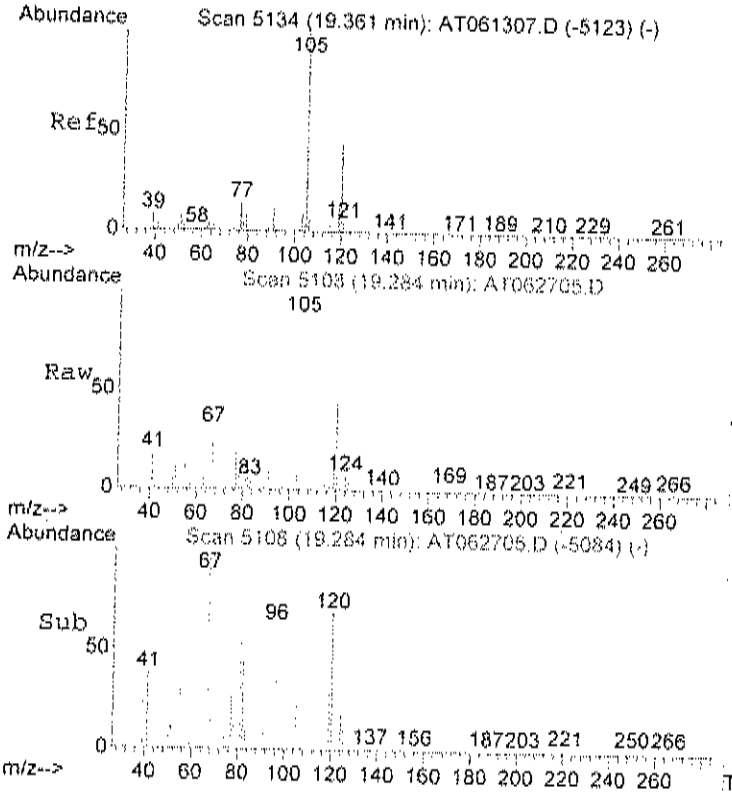


#69
4-ethyltoluene
Concen: 0.19 ppb m
RT: 19.21 min Scan# 5084
Delta R.T. -0.08 min
Lab File: AT062705.D
Acq: 27 Jun 2022 12:39 pm

Tgt Ion:105 Resp: 88092

Ion	Ratio	Lower	Upper
105	100		
120	45.4	10.6	50.6

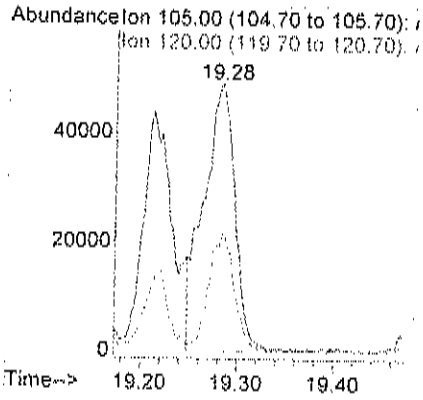


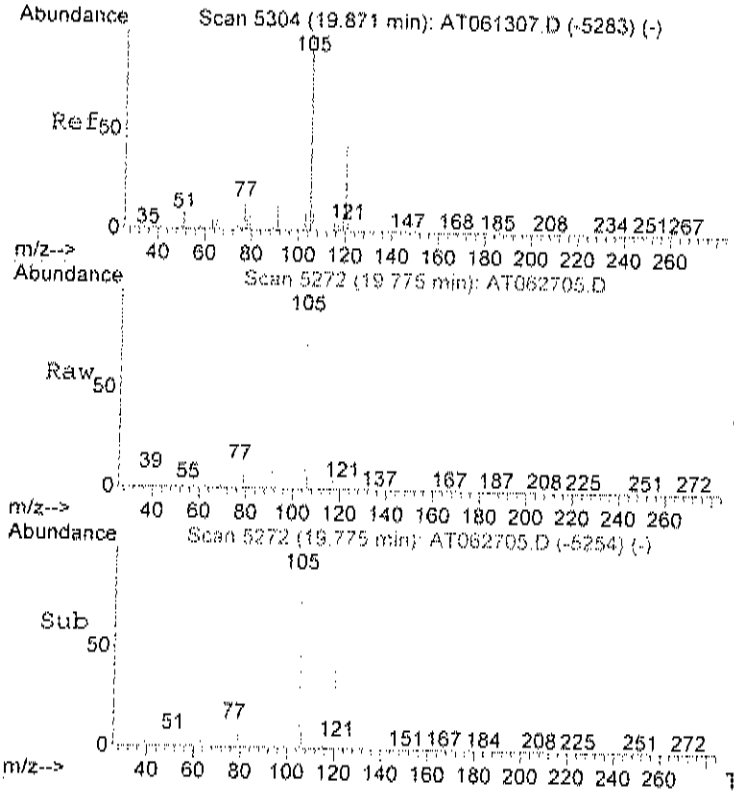


#70
1,3,5-trimethylbenzene
Concen: 0.27 ppb m
RT: 19.28 min Scan# 5108
Delta R.T. -0.08 min
Lab File: AT062705.D
Acq: 27 Jun 2022 12:39 pm

Tgt Ion:105 Resp: 112646

Ion	Ratio	Lower	Upper
105	100		
120	35.5	26.2	66.2

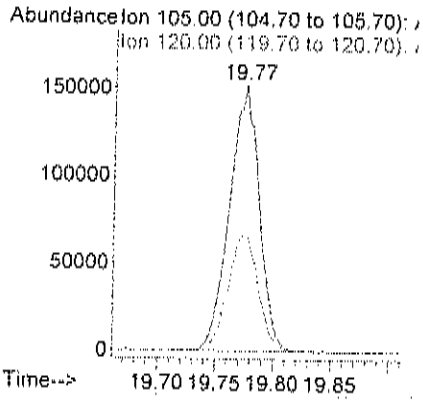




#71
1,2,4-trimethylbenzene
Concen: 0.67 ppb
RT: 19.77 min Scan# 5272
Delta R.T. -0.10 min
Lab File: AT062705.D
Acq: 27 Jun 2022 12:39 pm

Tgt Ion:105 Resp: 273180

Ion	Ratio	Lower	Upper
105	100		
120	44.7	23.8	63.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062724.D
Acq On : 28 Jun 2022 2:58 am
Sample : C2206048-008A 10X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 28 07:18:43 2022

Vial: 24
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.70	128	28796	1.00	ppb	0.02
35) 1,4-difluorobenzene	12.00	114	130091	1.00	ppb	0.00
50) Chlorobenzene-d5	16.82	117	107947	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.61	95	69596	0.89	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 89.00%			
Target Compounds						Qvalue
15) Acetone	5.91	58	27807m	1.66	ppb	
23) Carbon disulfide	7.11	76	11629m	0.11	ppb	
28) Methyl Ethyl Ketone	8.81	72	2017m	0.14	ppb	
31) Ethyl acetate	9.40	43	7108m	0.11	ppb	
51) Toluene	14.78	92	47103	0.74	ppb	96
52) Methyl Isobutyl Ketone	13.84	43	7586m	0.13	ppb	
59) m&p-xylene	17.33	91	54110	0.45	ppb	99

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

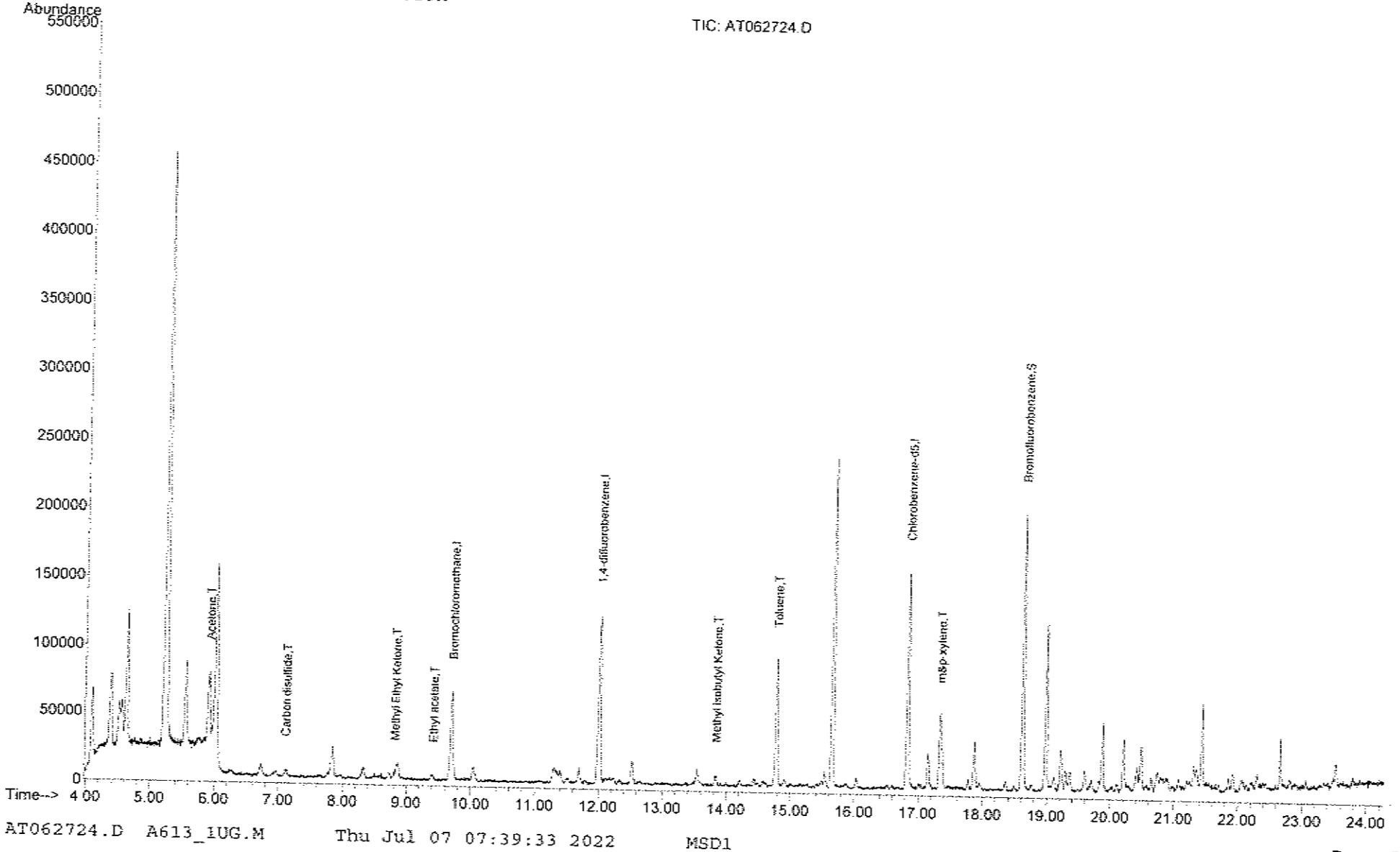
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062724.D
Acq On : 28 Jun 2022 2:58 am
Sample : C2206048-008A 10X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 29 11:53 2022

Vial: 24
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

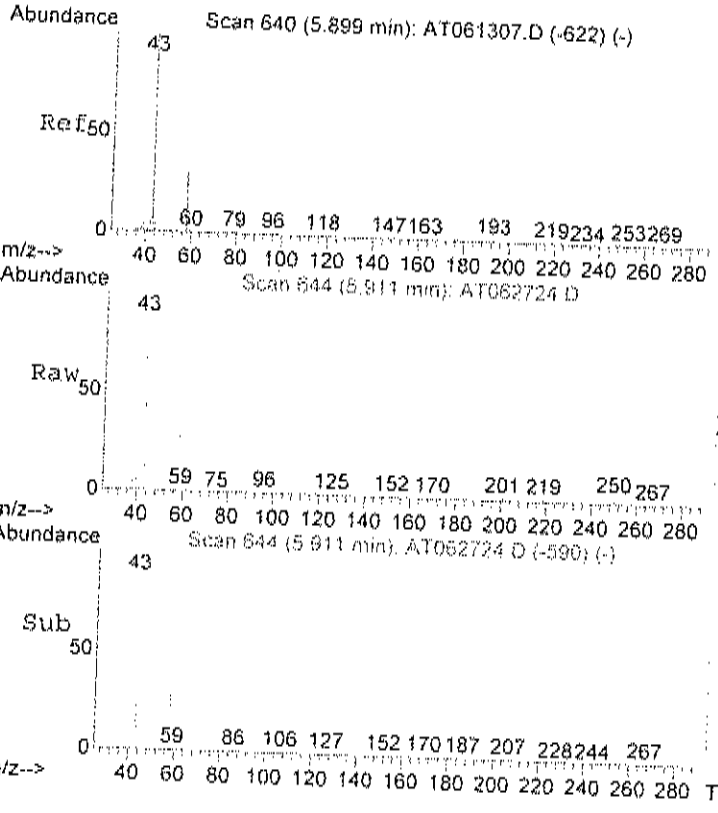
Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



AT062724.D A613_1UG.M Thu Jul 07 07:39:33 2022 MSD1

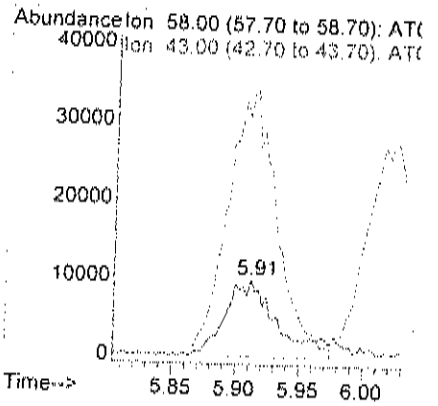
Centek/SanAir Laboratories

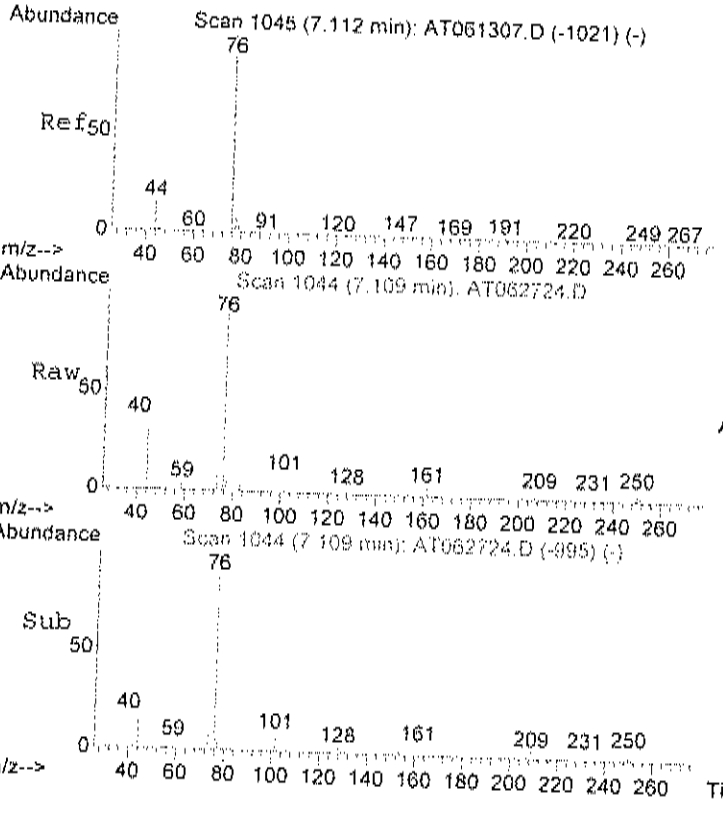


#18
Acetone
Concen: 1.66 ppb m
RT: 5.91 min Scan# 644
Delta R.T. 0.01 min
Lab File: AT062724.D
Acq: 28 Jun 2022 2:58 am

Tgt Ion: 58 Resp: 27807

Ion	Ratio	Lower	Upper
58	100		
43	334.1	268.9	328.9#

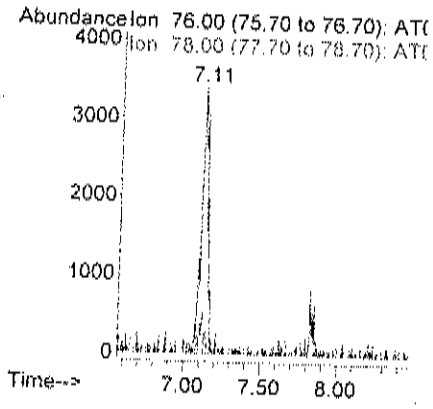


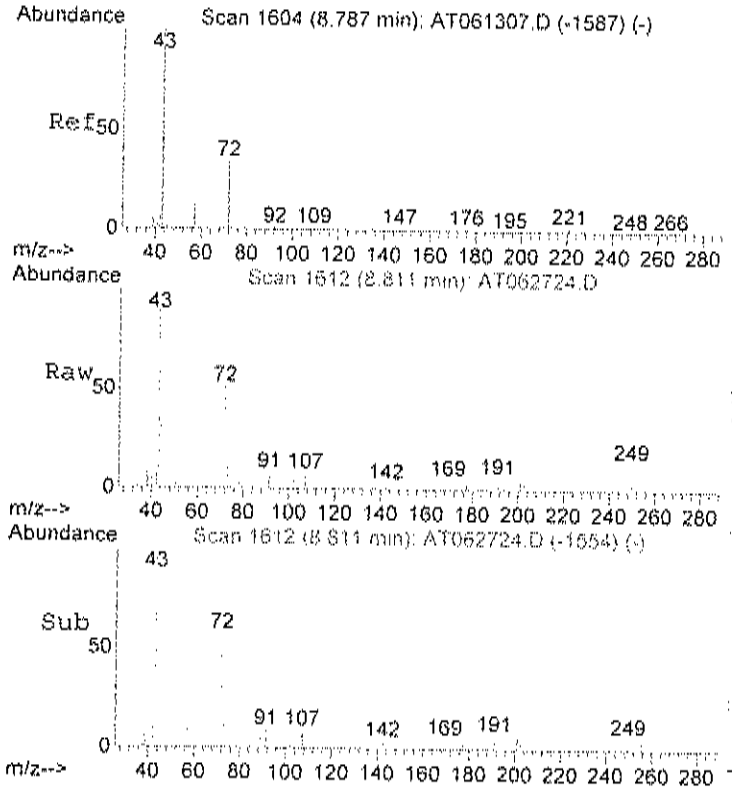


#23
Carbon disulfide
Concen: 0.11 ppb m
RT: 7.11 min Scan# 1044
Delta R.T. -0.00 min
Lab File: AT062724.D
Acq: 28 Jun 2022 2:58 am

Tgt Ion: 76 Resp: 11629

Ion	Ratio	Lower	Upper
76	100		
78	2.9	0.0	29.7

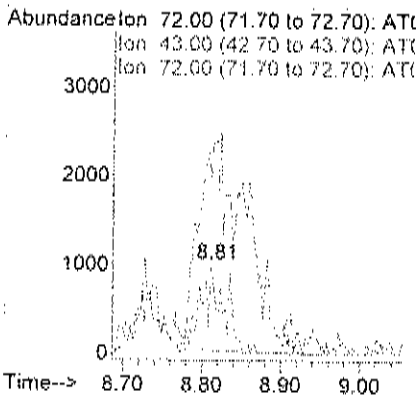


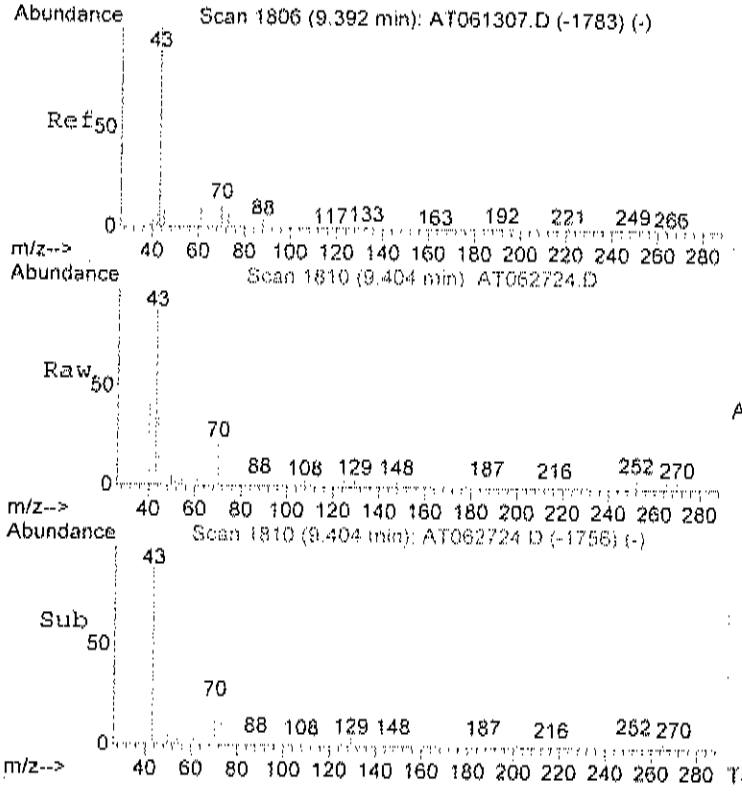


#28
Methyl Ethyl Ketone
Concen: 0.14 ppb m
RT: 8.81 min Scan# 1612
Delta R.T. 0.02 min
Lab File: AT062724.D
Acq: 28 Jun 2022 2:58 am

Tgt Ion: 72 Resp: 2017

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	42.2	80.0	120.0#

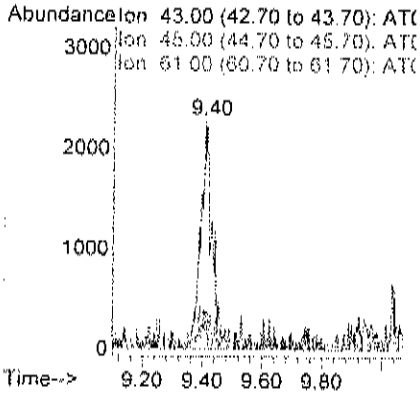


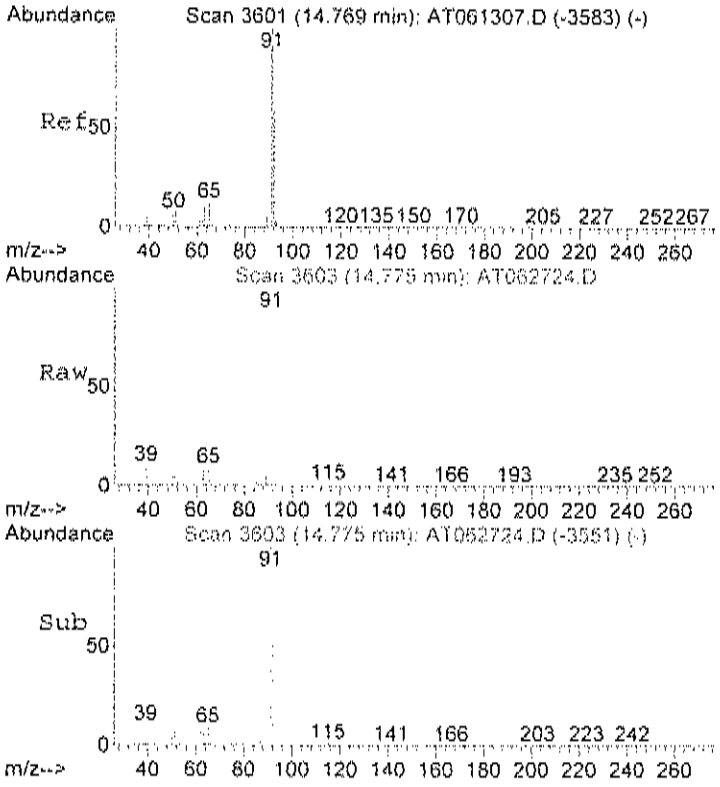


#31
Ethyl acetate
Concen: 0.11 ppb m
RT: 9.40 min Scan# 1810
Delta R.T. 0.01 min
Lab File: AT062724.D
Acq: 28 Jun 2022 2:58 am

Tgt Ion: 43 Resp: 7108

Ion	Ratio	Lower	Upper
43	100		
45	2.0	0.0	33.7
61	8.6	0.0	34.7

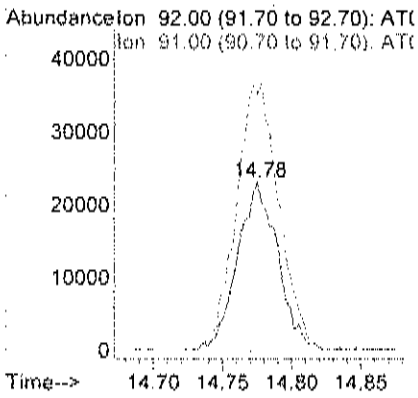


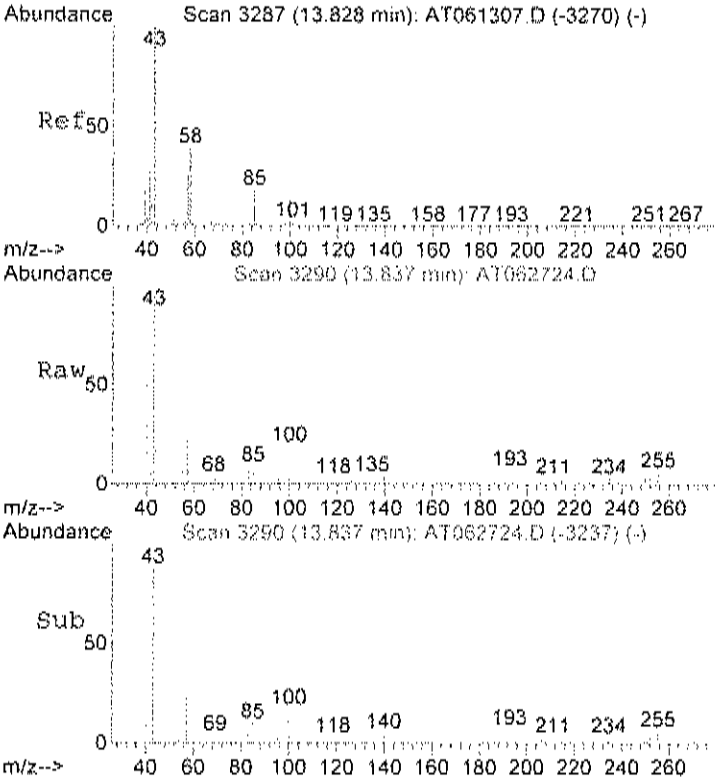


#51
Toluene
Concen: 0.74 ppb
RT: 14.78 min Scan# 3603
Delta R.T. 0.01 min
Lab File: AT062724.D
Acq: 28 Jun 2022 2:58 am

Tgt Ion: 92 Resp: 47103

Ion	Ratio	Lower	Upper
92	100		
91	168.5	154.4	194.4

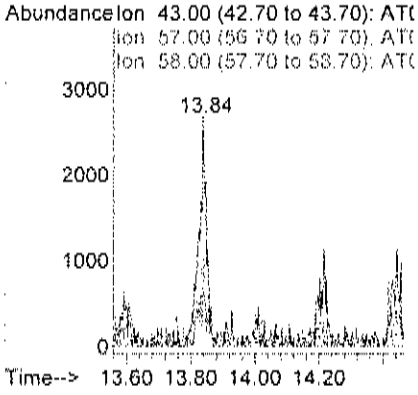


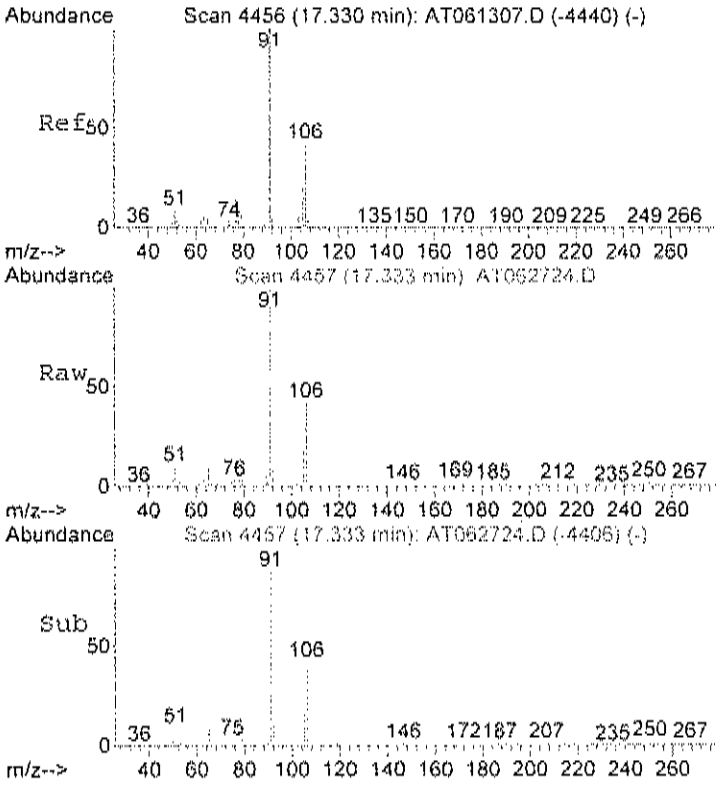


#52
Methyl Isobutyl Ketone
Concen: 0.13 ppb m
RT: 13.84 min Scan# 3290
Delta R.T. 0.01 min
Lab File: AT062724.D
Acq: 28 Jun 2022 2:58 am

Tgt Ion: 43 Resp: 7586

Ion	Ratio	Lower	Upper
43	100		
57	0.0	9.3	49.3#
58	9.8	22.0	62.0#

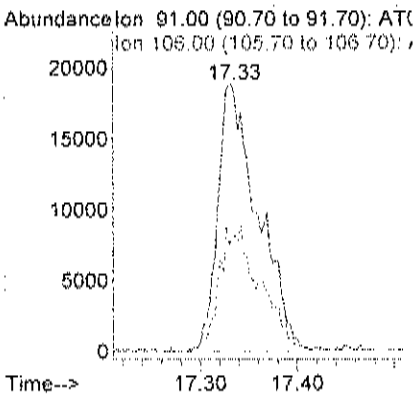




#59
m&p-xylene
Concen: 0.45 ppb
RT: 17.33 min Scan# 4457
Delta R.T. 0.00 min
Lab File: AT062724.D
Acq: 28 Jun 2022 2:58 am

Tgt Ion: 91 Resp: 54110

Ion	Ratio	Lower	Upper
91	100		
106	47.2	27.9	67.9



Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-8
Lab Order:	C2206048	**Tag Number:**	242,187
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-009A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: **NP**
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,2,4-Trimethylbenzene	0.28	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,3-Dichlorobenzene	0.35	0.15		ppbV	1	6/24/2022 10:59:00 PM
1,4-Dichlorobenzene	0.12	0.15	J	ppbV	1	6/24/2022 10:59:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/24/2022 10:59:00 PM
2,2,4-trimethylpentane	0.17	0.15		ppbV	1	6/24/2022 10:59:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Acetone	28	12		ppbV	40	6/28/2022 5:05:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Benzene	0.60	0.15		ppbV	1	6/24/2022 10:59:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Carbon disulfide	14	1.5		ppbV	10	6/28/2022 4:23:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Chloroform	0.14	0.15	J	ppbV	1	6/24/2022 10:59:00 PM
Chloromethane	0.64	0.15		ppbV	1	6/24/2022 10:59:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM

Qualifiers:

- . Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-009A

Client Sample ID: SVW-8
Tag Number: 242,187
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Ethyl acetate	0.55	0.15		ppbV	1	6/24/2022 10:59:00 PM
Ethylbenzene	0.10	0.15	J	ppbV	1	6/24/2022 10:59:00 PM
Freon 11	0.28	0.15		ppbV	1	6/24/2022 10:59:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Freon 12	0.47	0.15		ppbV	1	6/24/2022 10:59:00 PM
Heptane	0.21	0.15		ppbV	1	6/24/2022 10:59:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Hexane	1.0	0.15		ppbV	1	6/24/2022 10:59:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
m&p-Xylene	0.33	0.30		ppbV	1	6/24/2022 10:59:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 10:59:00 PM
Methyl Ethyl Ketone	1.3	0.30		ppbV	1	6/24/2022 10:59:00 PM
Methyl Isobutyl Ketone	1.0	0.30		ppbV	1	6/24/2022 10:59:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Methylene chloride	0.38	0.15		ppbV	1	6/24/2022 10:59:00 PM
o-Xylene	0.14	0.15	J	ppbV	1	6/24/2022 10:59:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Tetrachloroethylene	0.31	0.15		ppbV	1	6/24/2022 10:59:00 PM
Tetrahydrofuran	1.4	1.5	J	ppbV	10	6/28/2022 4:23:00 AM
Toluene	1.1	0.15		ppbV	1	6/24/2022 10:59:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 10:59:00 PM
Surr: Bromofluorobenzene	95.0	46.7-129		%REC	1	6/24/2022 10:59:00 PM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-009A

Client Sample ID: SVW-8
Tag Number: 242,187
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 10:59:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/24/2022 10:59:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 10:59:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 10:59:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 10:59:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/24/2022 10:59:00 PM
1,2,4-Trimethylbenzene	1.4	0.74		ug/m3	1	6/24/2022 10:59:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/24/2022 10:59:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 10:59:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 10:59:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/24/2022 10:59:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/24/2022 10:59:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/24/2022 10:59:00 PM
1,3-Dichlorobenzene	2.1	0.90		ug/m3	1	6/24/2022 10:59:00 PM
1,4-Dichlorobenzene	0.72	0.90	J	ug/m3	1	6/24/2022 10:59:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/24/2022 10:59:00 PM
2,2,4-trimethylpentane	0.79	0.70		ug/m3	1	6/24/2022 10:59:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/24/2022 10:59:00 PM
Acetone	66	28		ug/m3	40	6/28/2022 5:05:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/24/2022 10:59:00 PM
Benzene	1.9	0.48		ug/m3	1	6/24/2022 10:59:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/24/2022 10:59:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/24/2022 10:59:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/24/2022 10:59:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/24/2022 10:59:00 PM
Carbon disulfide	44	4.7		ug/m3	10	6/28/2022 4:23:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/24/2022 10:59:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/24/2022 10:59:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/24/2022 10:59:00 PM
Chloroform	0.68	0.73	J	ug/m3	1	6/24/2022 10:59:00 PM
Chloromethane	1.3	0.31		ug/m3	1	6/24/2022 10:59:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 10:59:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 10:59:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/24/2022 10:59:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/24/2022 10:59:00 PM
Ethyl acetate	2.0	0.54		ug/m3	1	6/24/2022 10:59:00 PM
Ethylbenzene	0.43	0.65	J	ug/m3	1	6/24/2022 10:59:00 PM
Freon 11	1.6	0.84		ug/m3	1	6/24/2022 10:59:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/24/2022 10:59:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/24/2022 10:59:00 PM

Qualifiers:

- `*` Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-009A

Client Sample ID: SVW-8
Tag Number: 242,187
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	2.3	0.74		ug/m3	1	6/24/2022 10:59:00 PM
Heptane	0.86	0.61		ug/m3	1	6/24/2022 10:59:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/24/2022 10:59:00 PM
Hexane	3.7	0.53		ug/m3	1	6/24/2022 10:59:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/24/2022 10:59:00 PM
m&p-Xylene	1.4	1.3		ug/m3	1	6/24/2022 10:59:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 10:59:00 PM
Methyl Ethyl Ketone	4.0	0.88		ug/m3	1	6/24/2022 10:59:00 PM
Methyl Isobutyl Ketone	4.2	1.2		ug/m3	1	6/24/2022 10:59:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/24/2022 10:59:00 PM
Methylene chloride	1.3	0.52		ug/m3	1	6/24/2022 10:59:00 PM
o-Xylene	0.61	0.65	J	ug/m3	1	6/24/2022 10:59:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/24/2022 10:59:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/24/2022 10:59:00 PM
Tetrachloroethylene	2.1	1.0		ug/m3	1	6/24/2022 10:59:00 PM
Tetrahydrofuran	4.1	4.4	J	ug/m3	10	6/28/2022 4:23:00 AM
Toluene	4.0	0.57		ug/m3	1	6/24/2022 10:59:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 10:59:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 10:59:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	6/24/2022 10:59:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/24/2022 10:59:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/24/2022 10:59:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/24/2022 10:59:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062418.D
Acq On : 24 Jun 2022 10:59 pm
Sample : C2206048-009A
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 27 11:11:29 2022

Vial: 18
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.70	128	28705	1.00	ppb		0.00
35) 1,4-difluorobenzene	11.99	114	134434	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	121935	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	84318	0.95	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%				
Target Compounds							Qvalue
3) Freon 12	4.14	85	62793	0.47	ppb		100
4) Chloromethane	4.33	50	20592	0.64	ppb		83
14) Freon 11	5.75	101	45312	0.28	ppb		97
15) Acetone	5.89	58	735750	44.07	ppb	#	45
21) Methylene chloride	6.95	84	13814	0.38	ppb		100
23) Carbon disulfide	7.11	76	934936	8.62	ppb		99
28) Methyl Ethyl Ketone	8.79	72	19084	1.34	ppb	#	100
30) Hexane	8.84	57	44721m	1.05	ppb		
31) Ethyl acetate	9.40	43	37148	0.55	ppb		94
32) Chloroform	9.86	83	12153	0.14	ppb		89
33) Tetrahydrofuran	10.00	42	90354	3.62	ppb		98
39) Benzene	11.29	78	58027	0.60	ppb		91
42) 2,2,4-trimethylpentane	12.17	57	21259	0.17	ppb	#	47
43) Heptane	12.53	43	9519	0.21	ppb	#	69
51) Toluene	14.77	92	76996	1.07	ppb		97
52) Methyl Isobutyl Ketone	13.83	43	66322	1.03	ppb		92
56) Tetrachloroethylene	15.85	164	17187	0.31	ppb		94
58) Ethylbenzene	17.14	91	17482	0.10	ppb		93
59) m&p-xylene	17.34	91	45654	0.33	ppb		95
63) o-xylene	17.86	91	19864	0.14	ppb		98
71) 1,2,4-trimethylbenzene	19.86	105	45713	0.28	ppb		99
72) 1,3-dichlorobenzene	20.20	146	37048	0.35	ppb		87
74) 1,4-dichlorobenzene	20.35	146	12818	0.12	ppb	#	77

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

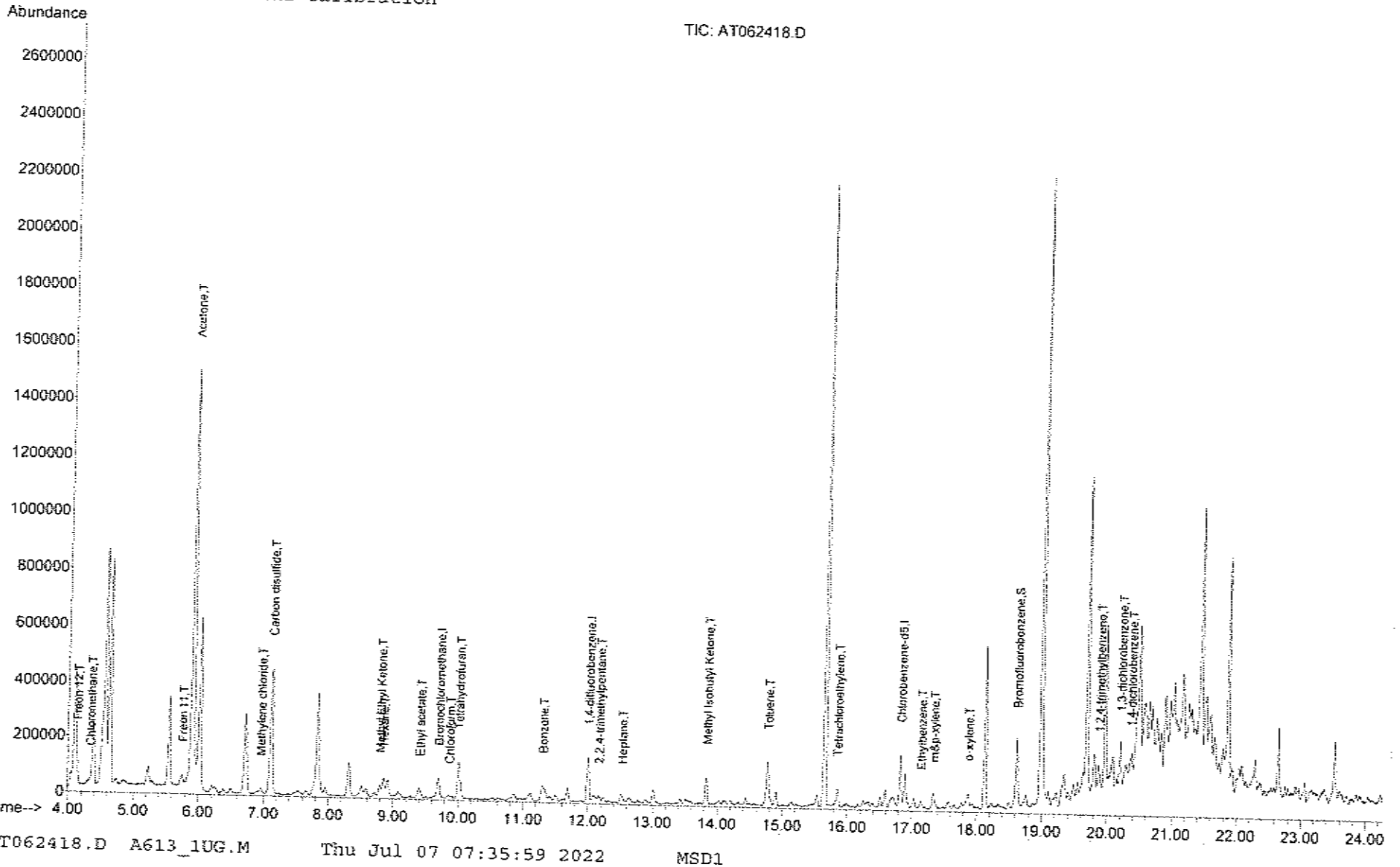
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062418.D
Acq On : 24 Jun 2022 10:59 pm
Sample : C2206048-009A
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 28 13:51 2022

Vial: 18
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

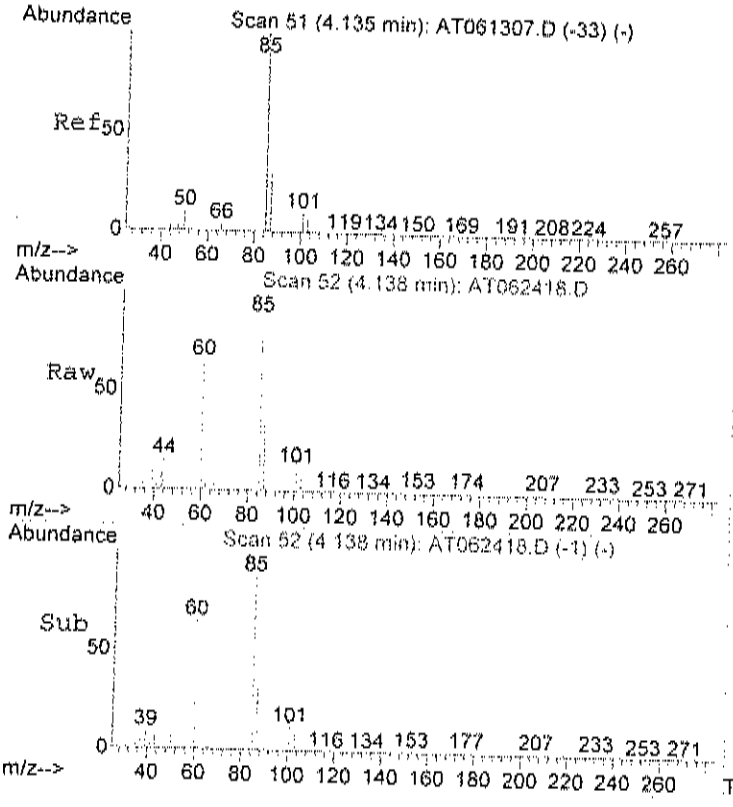
Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



AT062418.D A613_1UG.M Thu Jul 07 07:35:59 2022 MSD1

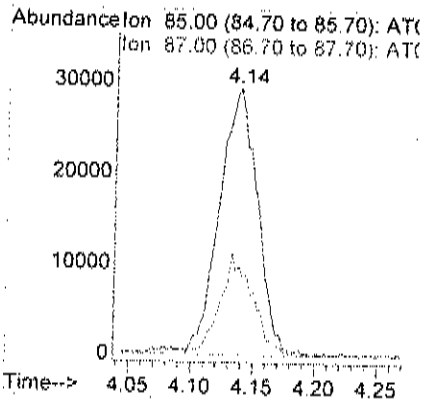
Centek/SanAir Laboratories

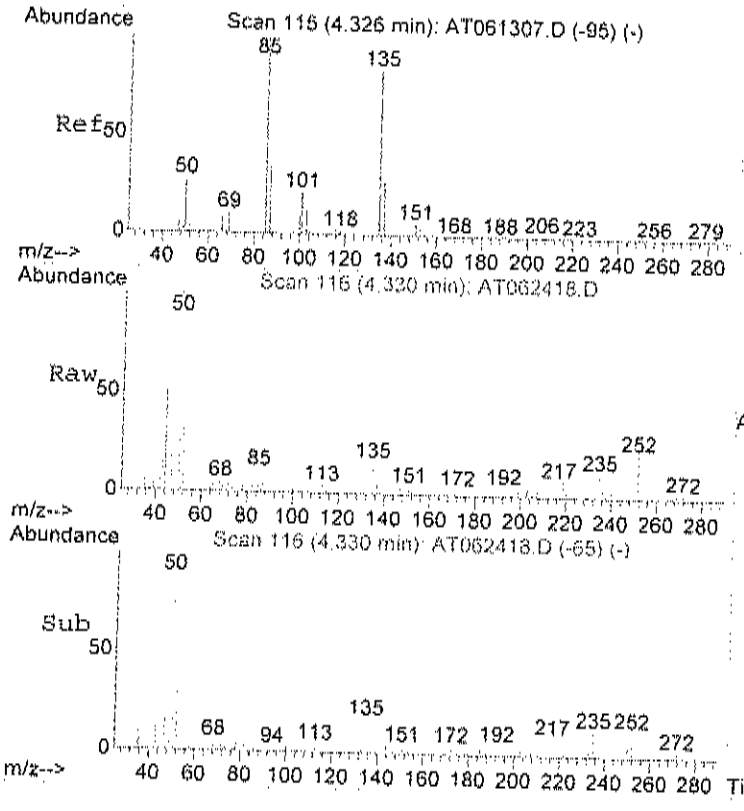


#3
Freon 12
Concen: 0.47 ppb
RT: 4.14 min Scan# 52
Delta R.T. 0.00 min
Lab File: AT062418.D
Acq: 24 Jun 2022 10:59 pm

Tgt Ion: 85 Resp: 62793

Ion	Ratio	Lower	Upper
85	100		
87	32.6	12.8	52.8

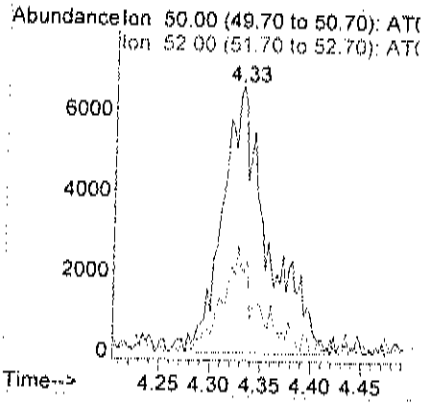


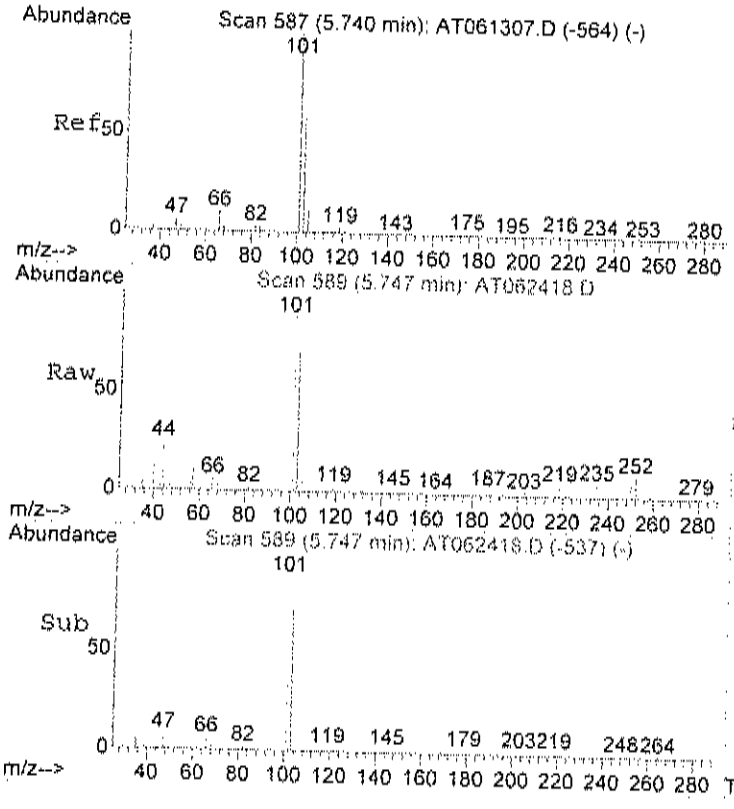


#4
Chloromethane
Concen: 0.64 ppb
RT: 4.33 min Scan# 116
Delta R.T. 0.00 min
Lab File: AT062418.D
Acq: 24 Jun 2022 10:59 pm

Tgt Ion: 50 Resp: 20592

Ion	Ratio	Lower	Upper
50	100		
52	30.9	2.7	42.7

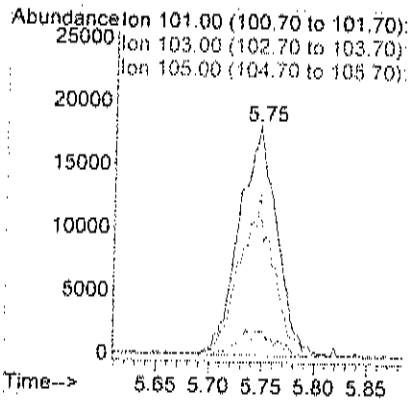


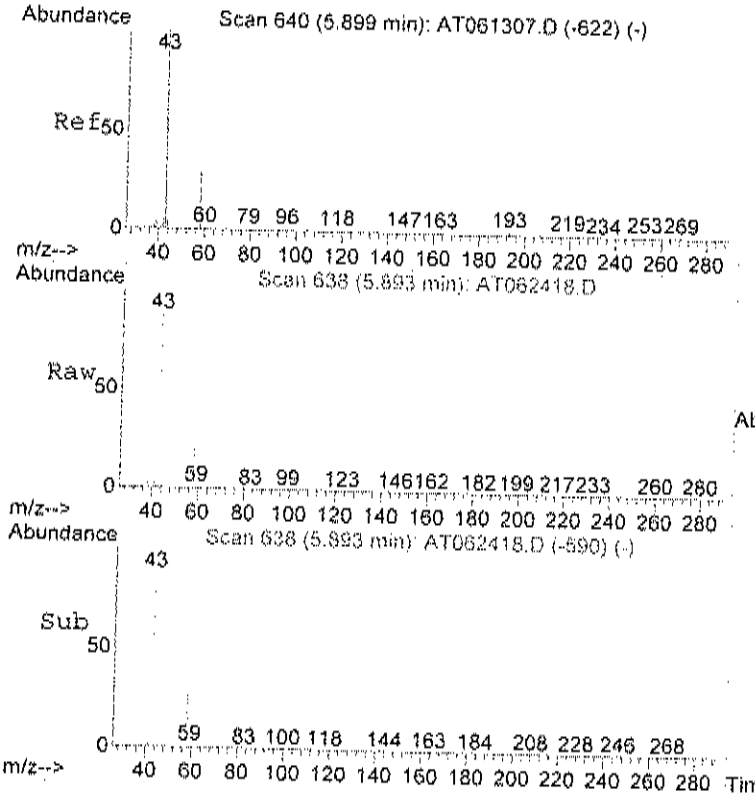


#14
Freon 11
Concen: 0.28 ppb
RT: 5.75 min Scan# 589
Delta R.T. 0.01 min
Lab File: AT062418.D
Acq: 24 Jun 2022 10:59 pm

Tgt Ion:101 Resp: 45312

Ion	Ratio	Lower	Upper
101	100		
103	63.7	46.3	86.3
105	11.0	0.0	31.2

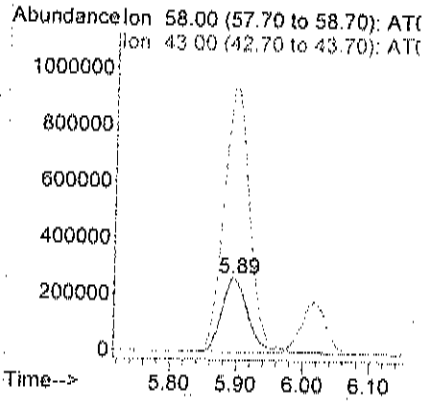


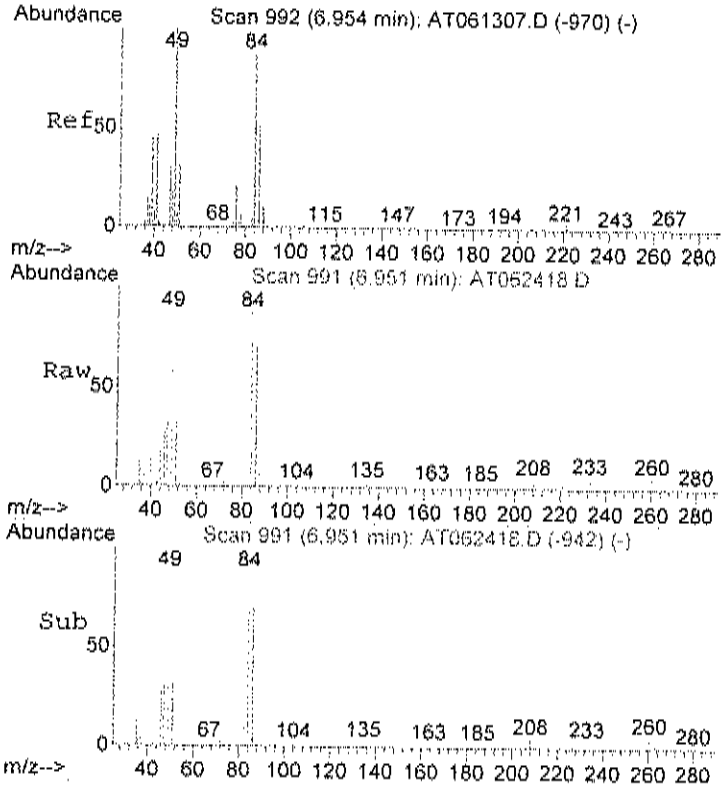


#15
Acetone
Concen: 44.07 ppb
RT: 5.89 min Scan# 638
Delta R.T. -0.01 min
Lab File: AT062418.D
Acq: 24 Jun 2022 10:59 pm

Tgt Ion: 58 Resp: 735750

Ion	Ratio	Lower	Upper
58	100		
43	406.8	268.9	328.9#

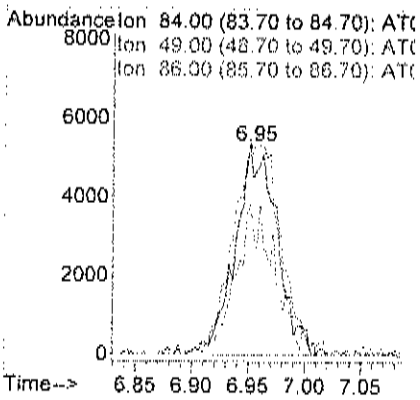


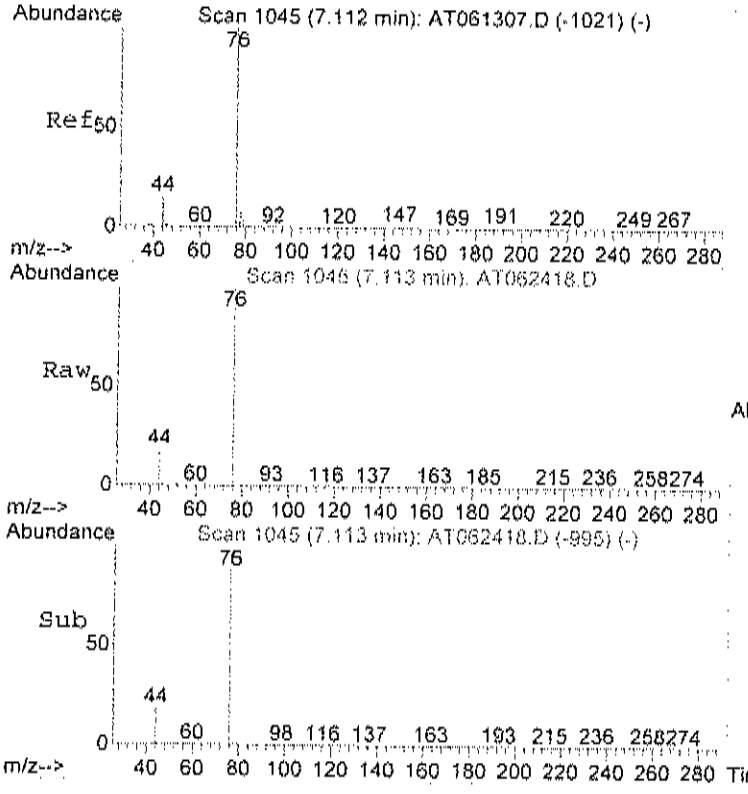


#21
Methylene chloride
Concen: 0.38 ppb
RT: 6.95 min Scan# 991
Delta R.T. -0.00 min
Lab File: AT062418.D
Acq: 24 Jun 2022 10:59 pm

Tgt Ion: 84 Resp: 13814

Ion	Ratio	Lower	Upper
84	100		
49	113.4	93.2	133.2
86	66.1	46.4	86.4

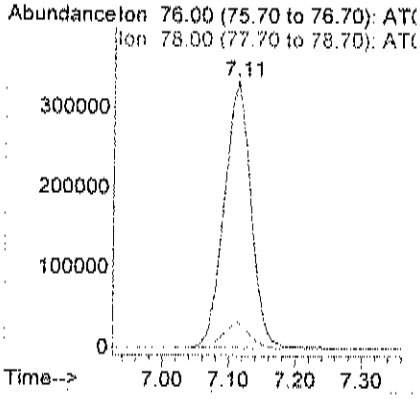


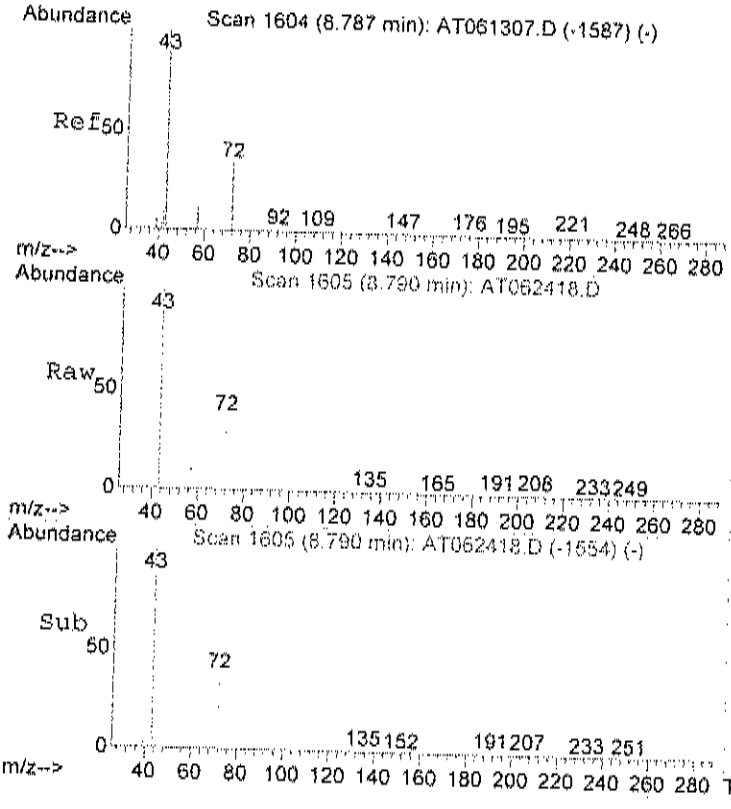


#23
Carbon disulfide
Concen: 8.62 ppb
RT: 7.11 min Scan# 1045
Delta R.T. 0.00 min
Lab File: AT062418.D
Acq: 24 Jun 2022 10:59 pm

Tgt Ion: 76 Resp: 934936

Ion	Ratio	Lower	Upper
76	100		
78	9.4	0.0	29.7

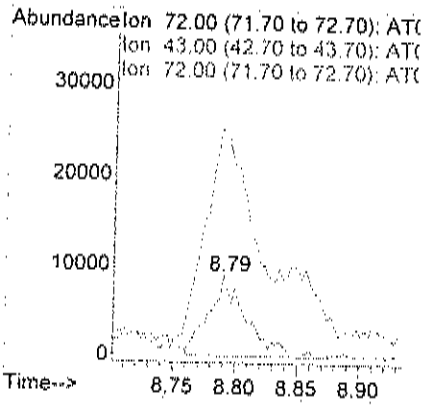


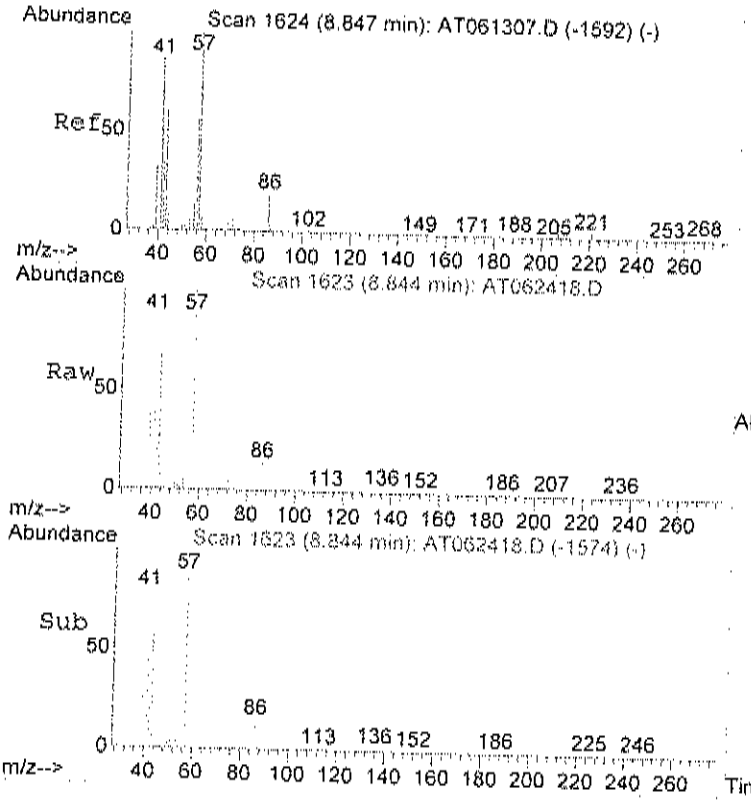


#28
Methyl Ethyl Ketone
Concen: 1.34 ppb
RT: 8.79 min Scan# 1605
Delta R.T. 0.00 min
Lab File: AT062418.D
Acq: 24 Jun 2022 10:59 pm

Tgt Ion: 72 Resp: 19084

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

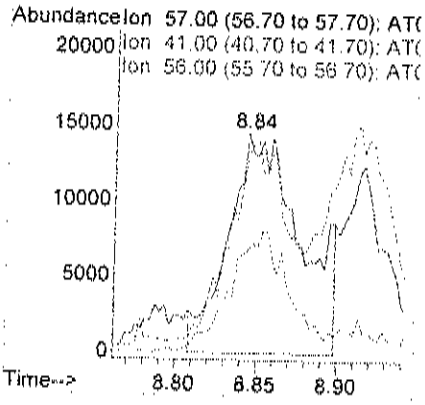


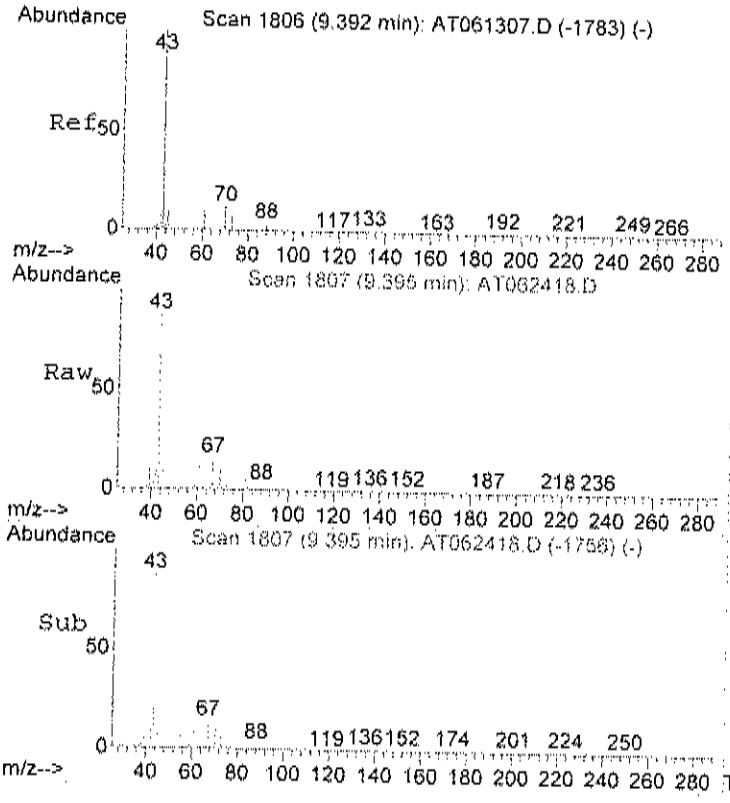


#30
Hexane
Concen: 1.06 ppb m
RT: 8.84 min Scan# 1623
Delta R.T. -0.00 min
Lab File: AT062418.D
Acq: 24 Jun 2022 10:59 pm

Tgt Ion: 57 Resp: 44721

Ion	Ratio	Lower	Upper
57	100		
41	0.0	58.1	98.1#
56	54.6	28.7	68.7

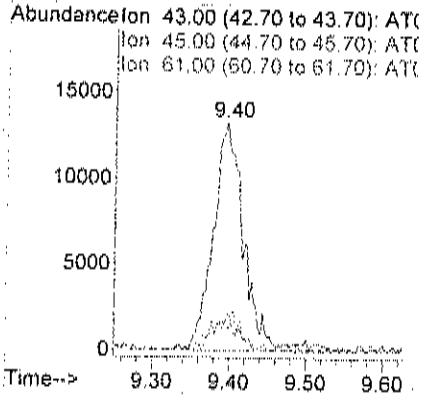


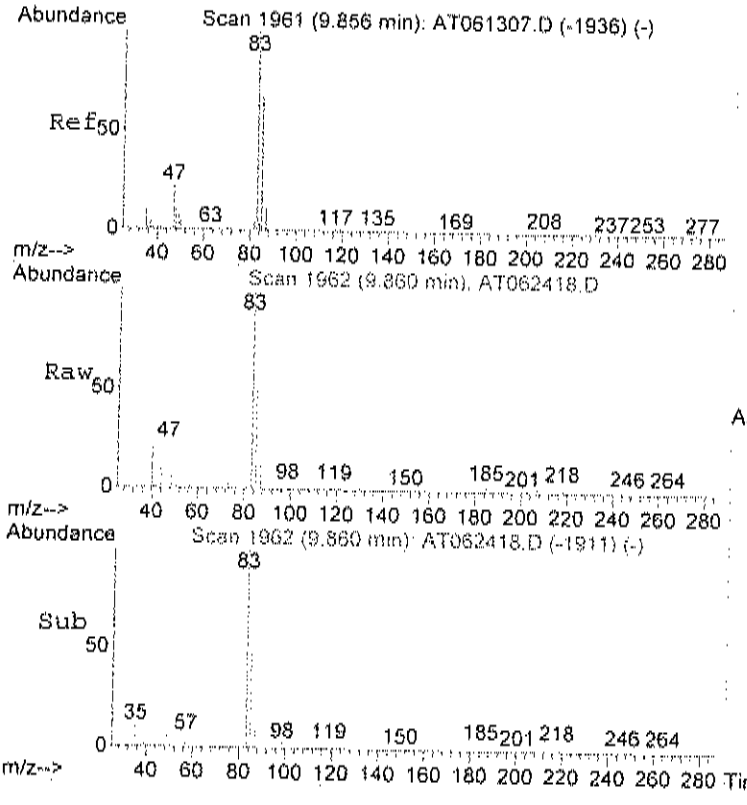


#31
Ethyl acetate
Concen: 0.55 ppb
RT: 9.40 min Scan# 1807
Delta R.T. 0.00 min
Lab File: AT062418.D
Acq: 24 Jun 2022 10:59 pm

Tgt Ion: 43 Resp: 37148

Ion	Ratio	Lower	Upper
43	100		
45	15.5	0.0	33.7
61	11.9	0.0	34.7

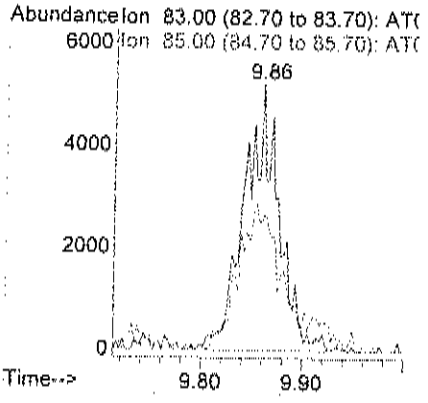


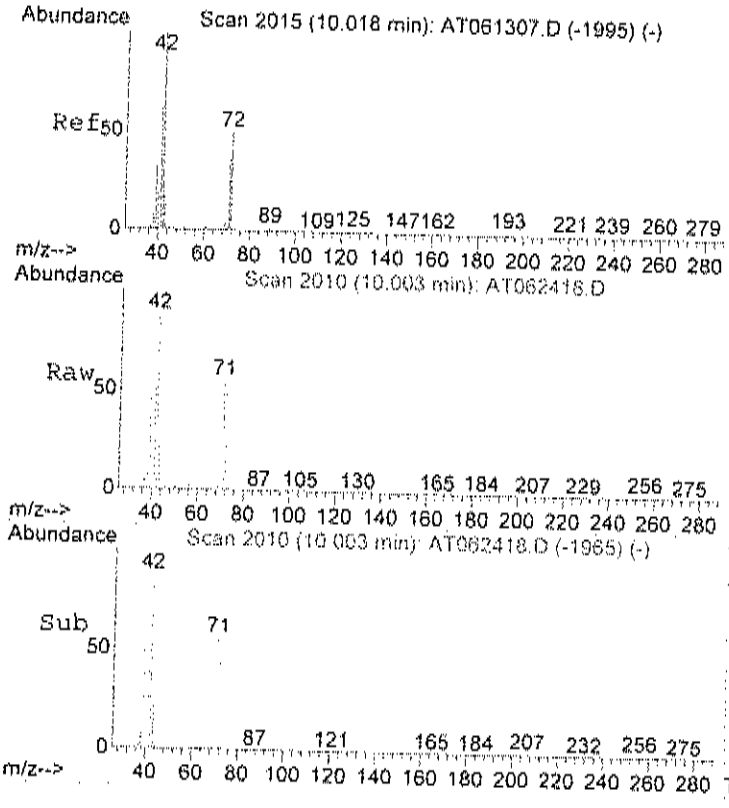


#32
Chloroform
Concen: 0.14 ppb
RT: 9.86 min Scan# 1962
Delta R.T. 0.00 min
Lab File: AT062418.D
Acq: 24 Jun 2022 10:59 pm

Tgt Ion: 83 Resp: 12153

Ion	Ratio	Lower	Upper
83	100		
85	75.5	46.5	86.5

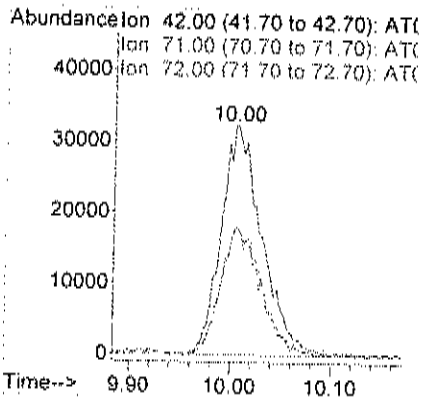


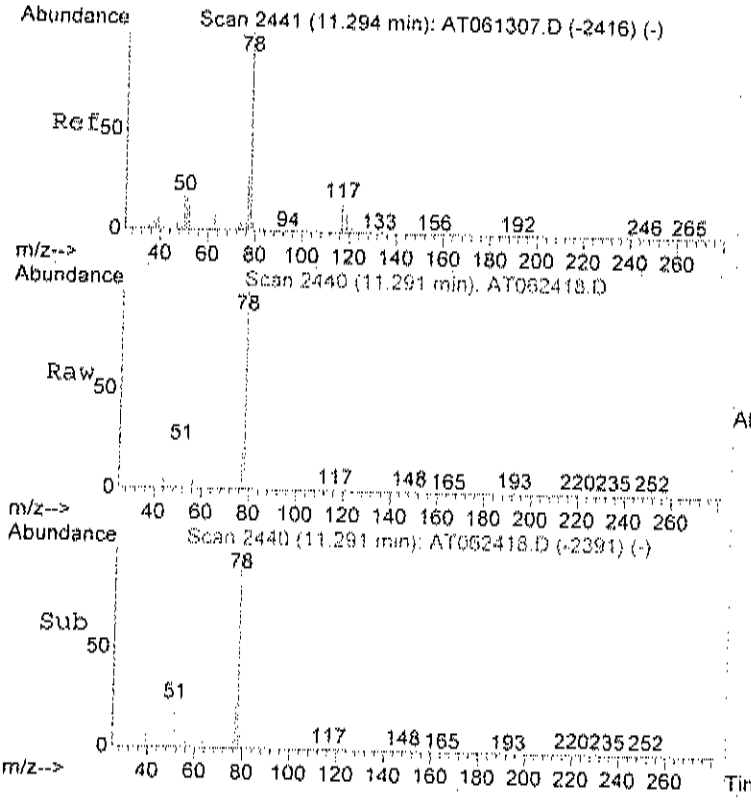


#33
Tetrahydrofuran
Concen: 3.62 ppb
RT: 10.00 min Scan# 2010
Delta R.T. -0.01 min
Lab File: AT062418.D
Acq: 24 Jun 2022 10:59 pm

Tgt Ion: 42 Resp: 90354

Ion	Ratio	Lower	Upper
42	100		
71	56.0	38.0	78.0
72	56.4	35.0	75.0

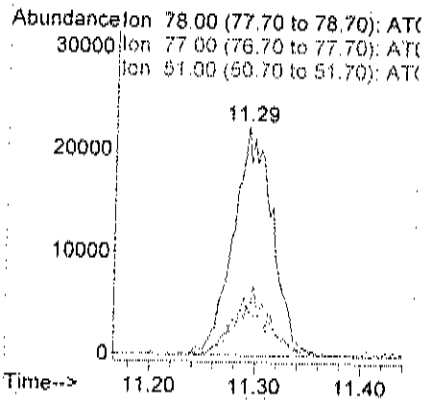


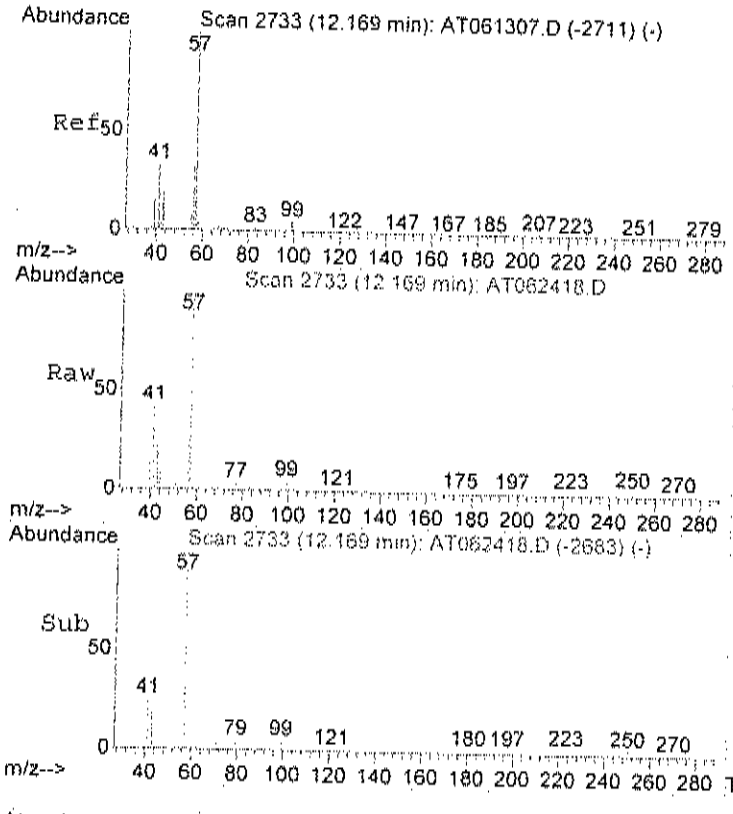


#39
Benzene
Concen: 0.60 ppb
RT: 11.29 min Scan# 2440
Delta R.T. -0.00 min
Lab File: AT062418.D
Acq: 24 Jun 2022 10:59 pm

Tgt Ion: 78 Resp: 58027

Ion	Ratio	Lower	Upper
78	100		
77	26.3	3.1	43.1
51	22.7	0.0	37.8

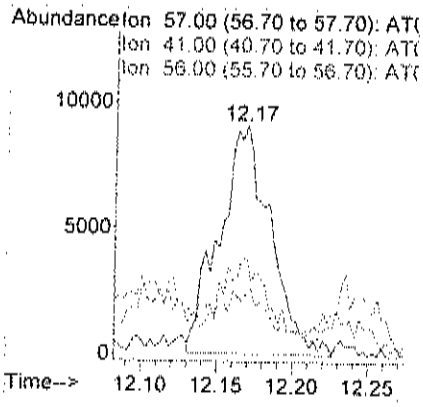


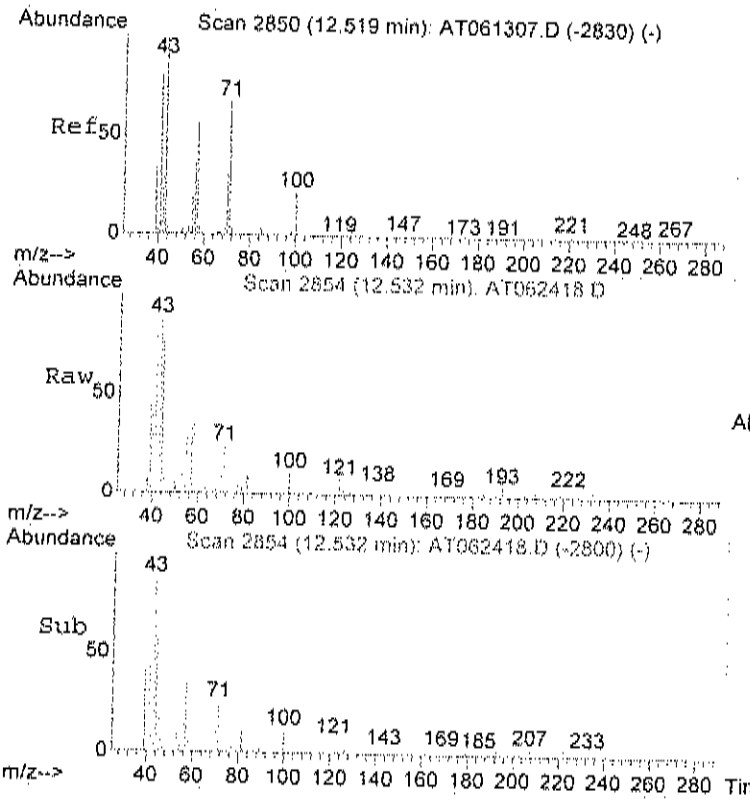


#42
2,2,4-trimethylpentane
Concen: 0.17 ppb
RT: 12.17 min Scan# 2733
Delta R.T. 0.00 min
Lab File: AT062418.D
Acq: 24 Jun 2022 10:59 pm

Tgt Ion: 57 Resp: 21259

Ion	Ratio	Lower	Upper
57	100		
41	65.2	15.3	55.3#
56	0.0	10.1	50.1#

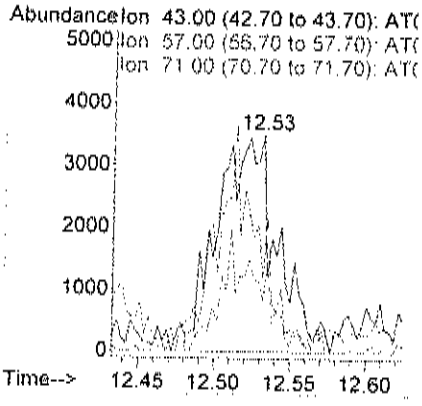


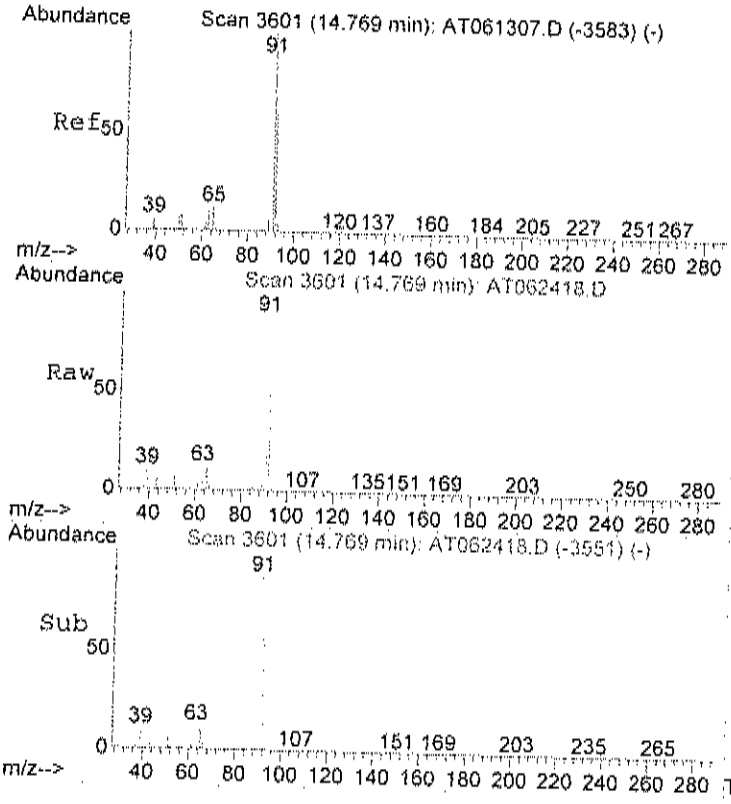


#43
Heptane
Concen: 0.21 ppb
RT: 12.53 min Scan# 2854
Delta R.T. 0.01 min
Lab File: AT062418.D
Acq: 24 Jun 2022 10:59 pm

Tgt Ion: 43 Resp: 9519

Ion	Ratio	Lower	Upper
43	100		
57	71.2	41.7	81.7
71	34.5	53.4	93.4#

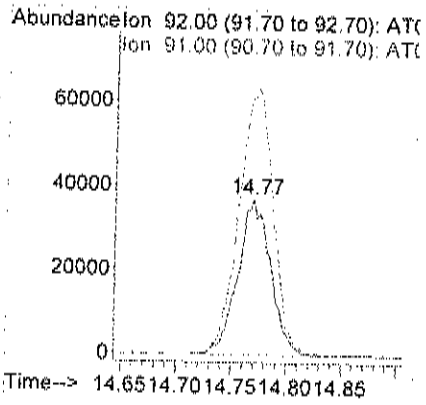


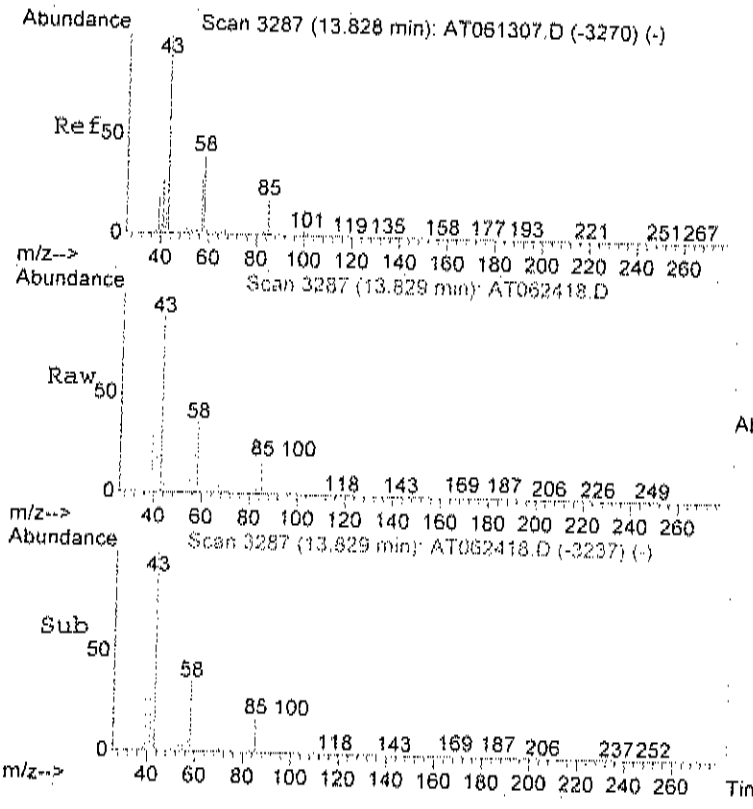


#51
Toluene
Concen: 1.07 ppb
RT: 14.77 min Scan# 3601
Delta R.T. 0.00 min
Lab File: AT062418.D
Acq: 24 Jun 2022 10:59 pm

Tgt Ion: 92 Resp: 76996

Ion	Ratio	Lower	Upper
92	100		
91	178.1	154.4	194.4

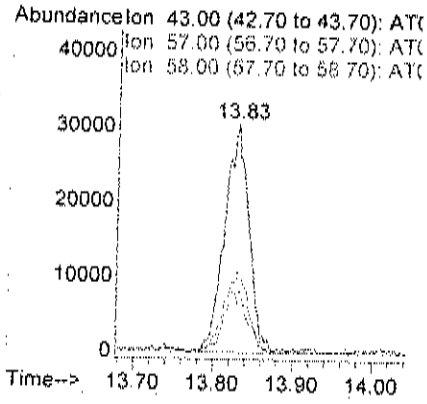


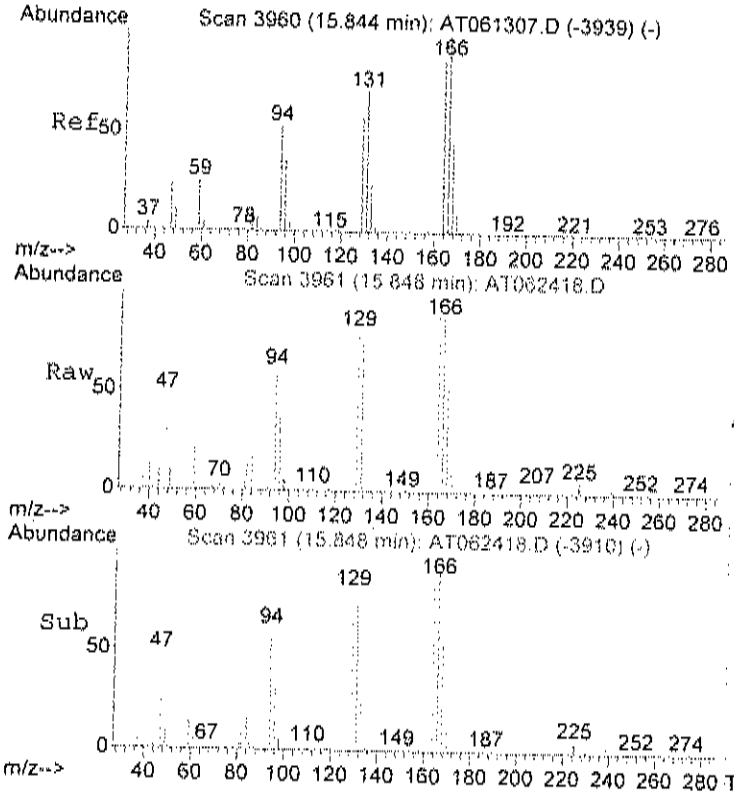


#52
Methyl Isobutyl Ketone
Concen: 1.03 ppb
RT: 13.83 min Scan# 3287
Delta R.T. 0.00 min
Lab File: AT062418.D
Acq: 24 Jun 2022 10:59 pm

Tgt Ion: 43 Resp: 66322

Ion	Ratio	Lower	Upper
43	100		
57	26.7	9.3	49.3
58	35.1	22.0	62.0

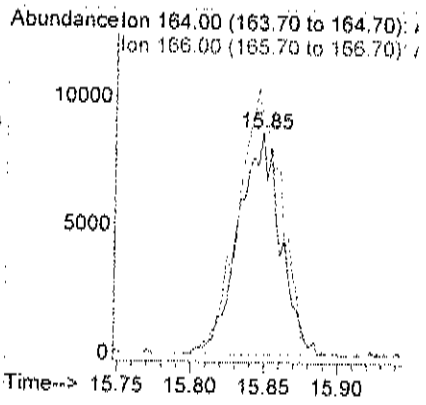


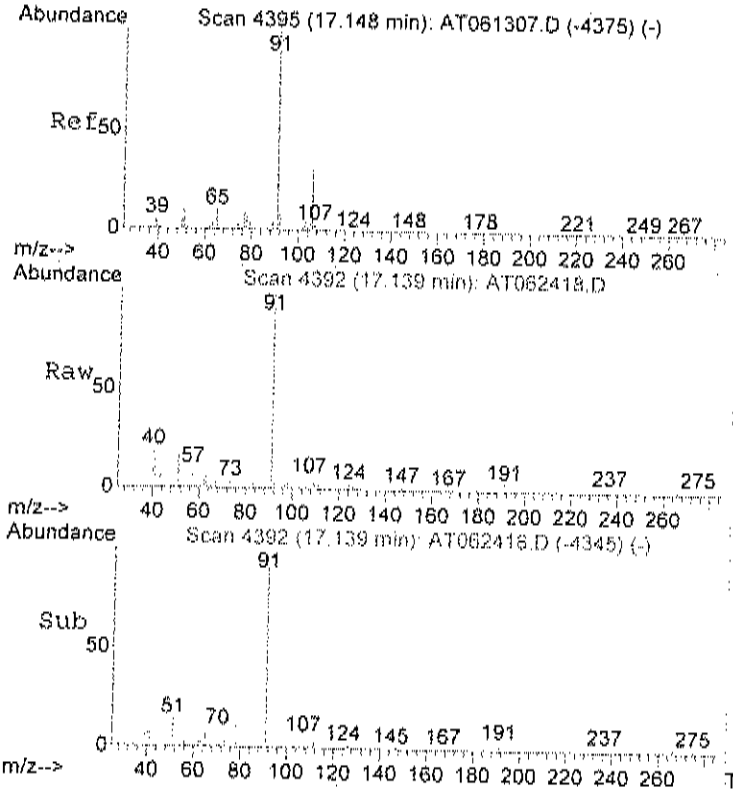


#56
Tetrachloroethylene
Concen: 0.31 ppb
RT: 15.85 min Scan# 3961
Delta R.T. 0.00 min
Lab File: AT062418.D
Acq: 24 Jun 2022 10:59 pm

Tgt Ion:164 Resp: 17187

Ion	Ratio	Lower	Upper
164	100		
166	120.9	107.7	147.7

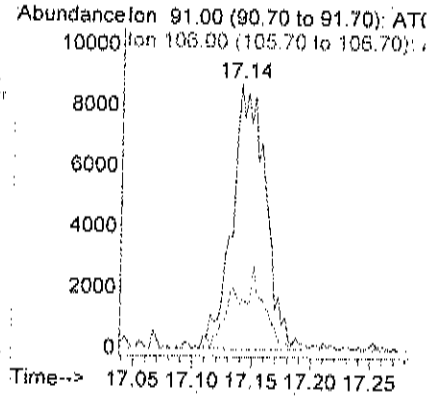


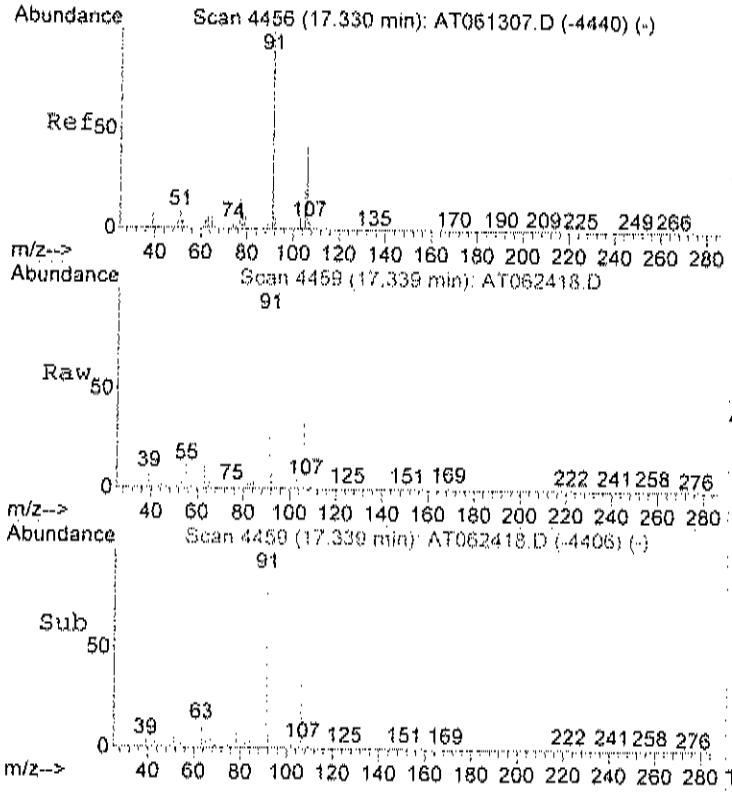


#58
Ethylbenzene
Concen: 0.10 ppb
RT: 17.14 min Scan# 4392
Delta R.T. -0.01 min
Lab File: AT062418.D
Acq: 24 Jun 2022 10:59 pm

Tgt Ion: 91 Resp: 17482

Ion	Ratio	Lower	Upper
91	100		
106	27.5	11.5	51.5

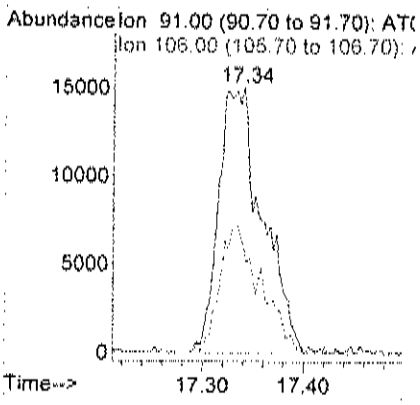


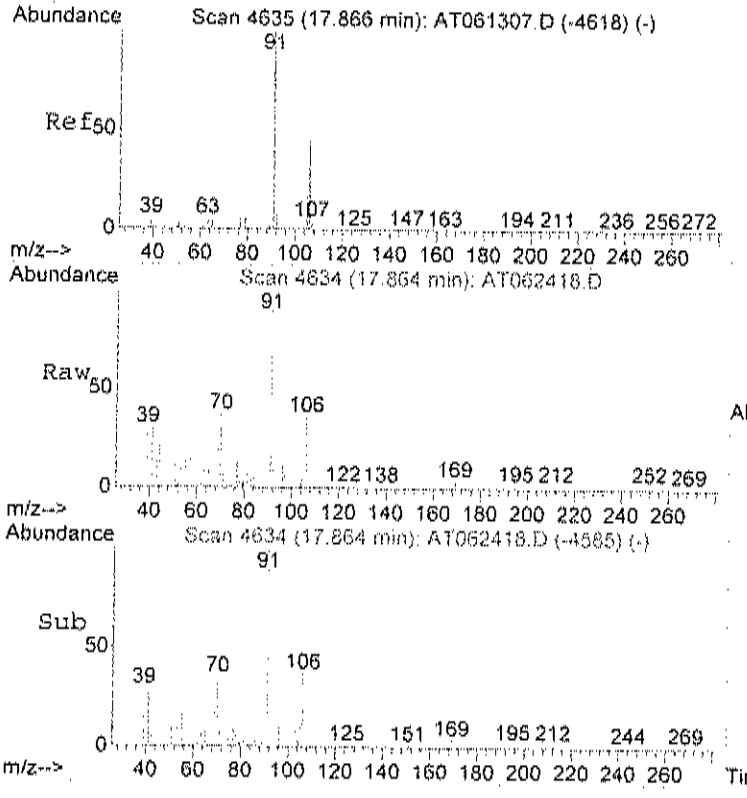


#59
m&p-xylene
Concen: 0.33 ppb
RT: 17.34 min Scan# 4459
Delta R.T. 0.01 min
Lab File: AT062418.D
Acq: 24 Jun 2022 10:59 pm

Tgt Ion: 91 Resp: 45654

Ion	Ratio	Lower	Upper
91	100		
106	44.8	27.9	67.9

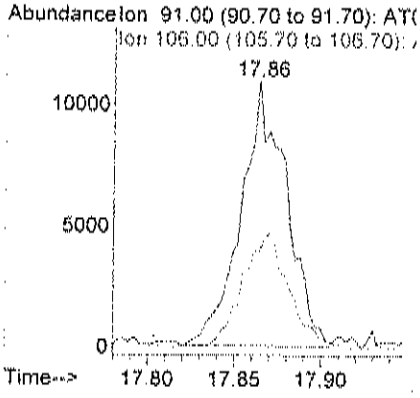


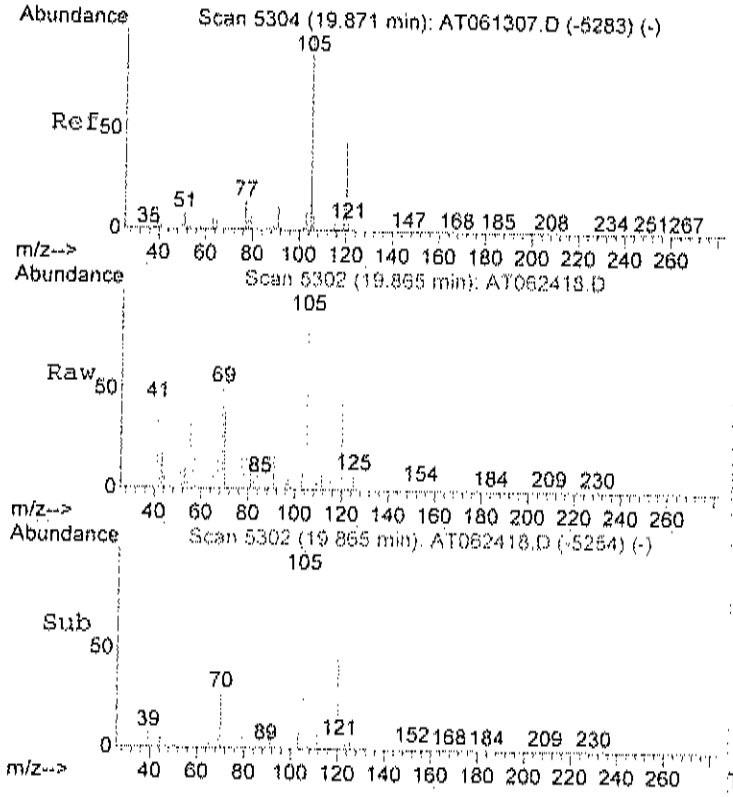


#63
o-xylene
Concen: 0.14 ppb
RT: 17.86 min Scan# 4634
Delta R.T. -0.00 min
Lab File: AT062418.D
Acq: 24 Jun 2022 10:59 pm

Tgt Ion: 91 Resp: 19864

Ion	Ratio	Lower	Upper
91	100		
106	44.1	25.1	65.1

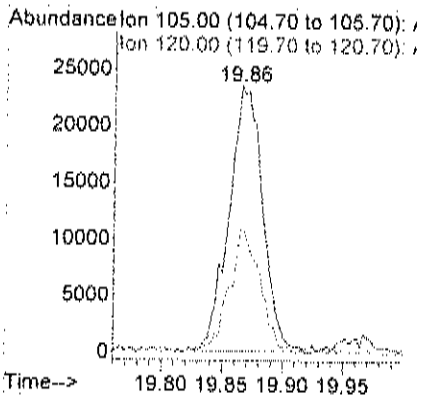


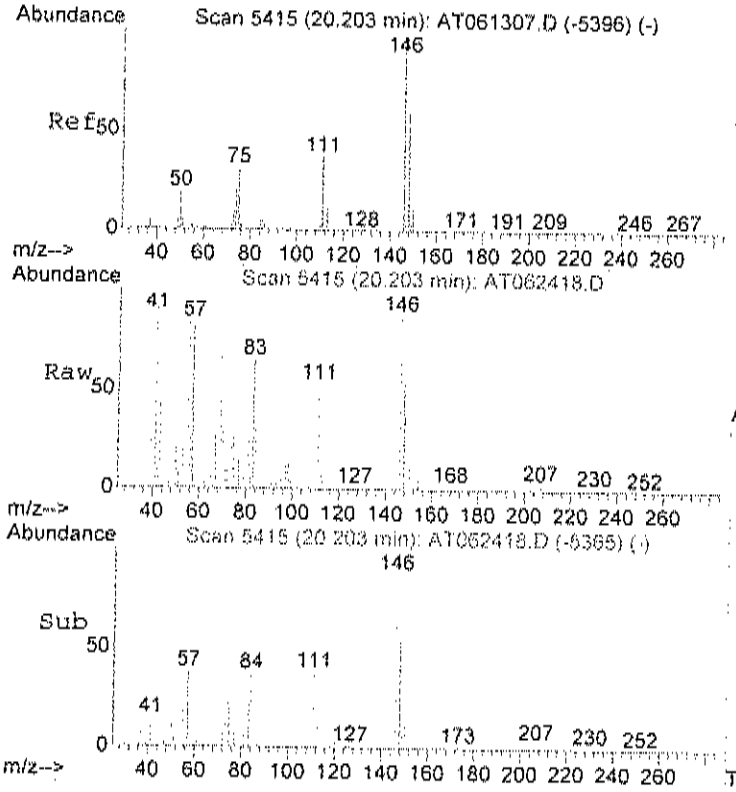


#71
1,2,4-trimethylbenzene
Concen: 0.28 ppb
RT: 19.86 min Scan# 5302
Delta R.T. -0.01 min
Lab File: AT062418.D
Acq: 24 Jun 2022 10:59 pm

Tgt Ion:105 Resp: 45713

Ion	Ratio	Lower	Upper
105	100		
120	43.2	23.8	63.8

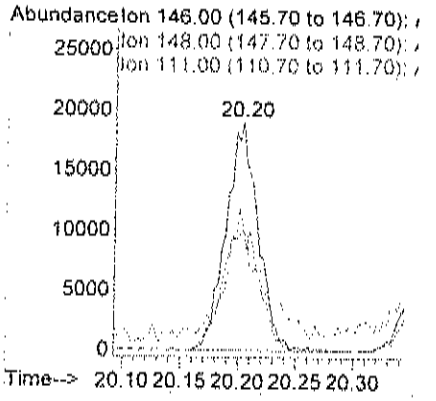


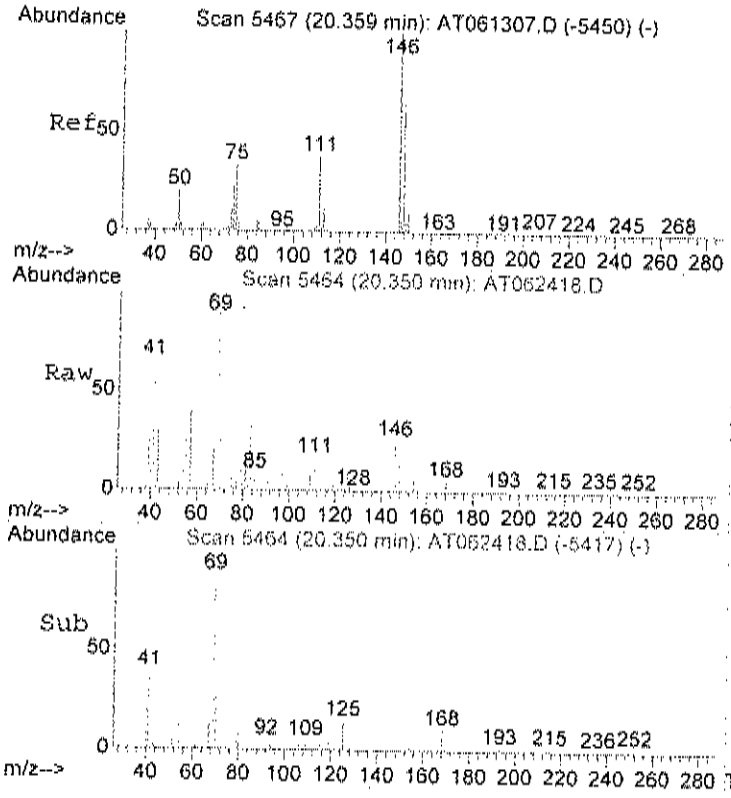


#72
1,3-dichlorobenzene
Concen: 0.35 ppb
RT: 20.20 min Scan# 5415
Delta R.T. 0.00 min
Lab File: AT062418.D
Acq: 24 Jun 2022 10:59 pm

Tgt Ion:146 Resp: 37048

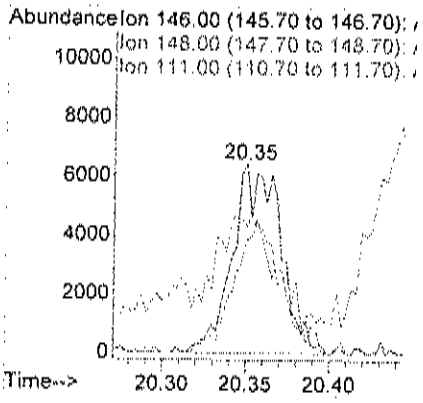
Ion	Ratio	Lower	Upper
146	100		
148	61.3	44.9	84.9
111	56.6	19.7	59.7





#74
1,4-dichlorobenzene
Concen: 0.12 ppb
RT: 20.35 min Scan# 5464
Delta R.T. -0.01 min
Lab File: AT062418.D
Acq: 24 Jun 2022 10:59 pm

Tgt Ion:146	Resp:	12818	
Ion	Ratio	Lower	Upper
146	100		
148	67.7	44.4	84.4
111	70.3	17.5	57.5#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062726.D
Acq On : 28 Jun 2022 4:23 am
Sample : C2206048-009A 10X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 28 07:18:45 2022

Vial: 26
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.70	128	27023	1.00	ppb		0.02
35) 1,4-difluorobenzene	12.00	114	122169	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	113234	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	74892	0.91	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 91.00%				
Target Compounds							Qvalue
15) Acetone	5.91	58	105499m	6.71	ppb		
23) Carbon disulfide	7.12	76	145131	1.42	ppb		100
33) Tetrahydrofuran	10.05	42	3268	0.14	ppb	#	85

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

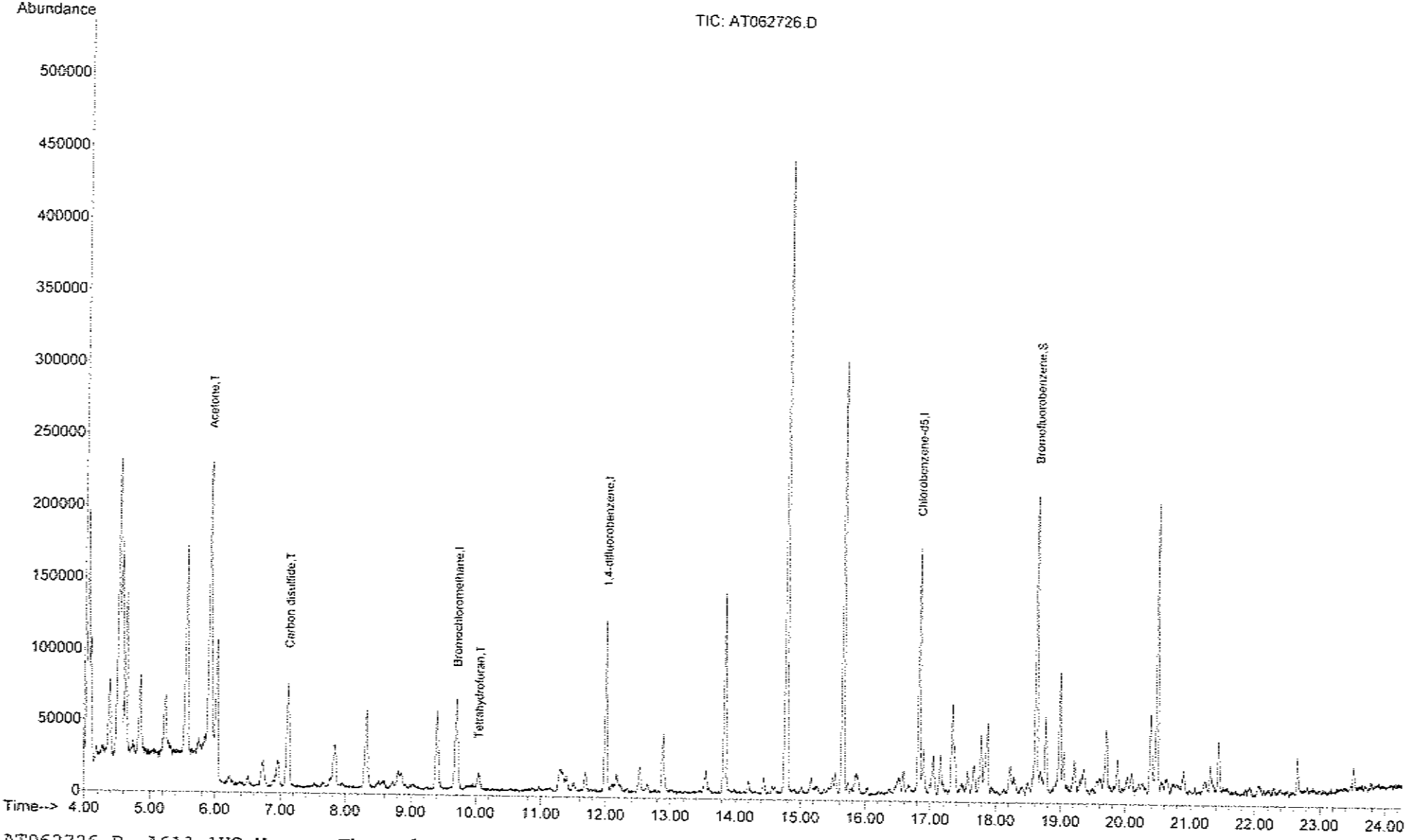
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062726.D
Acq On : 28 Jun 2022 4:23 am
Sample : C2206048-009A 10X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 29 11:35 2022

Vial: 26
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

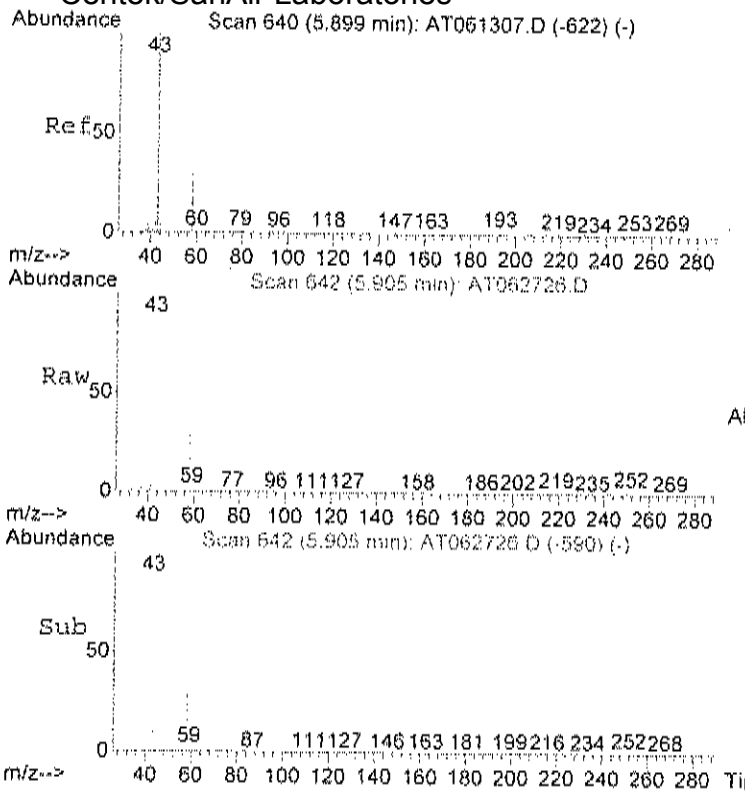
Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



AT062726.D A613_1UG.M Thu Jul 07 07:39:41 2022 MSD1

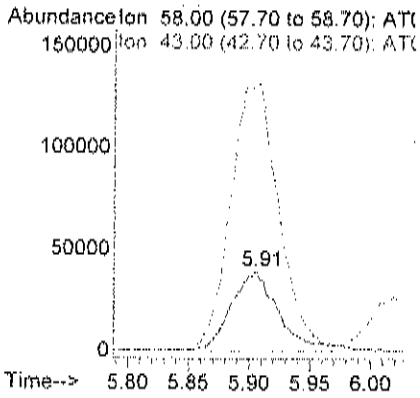
Centek/SanAir Laboratories

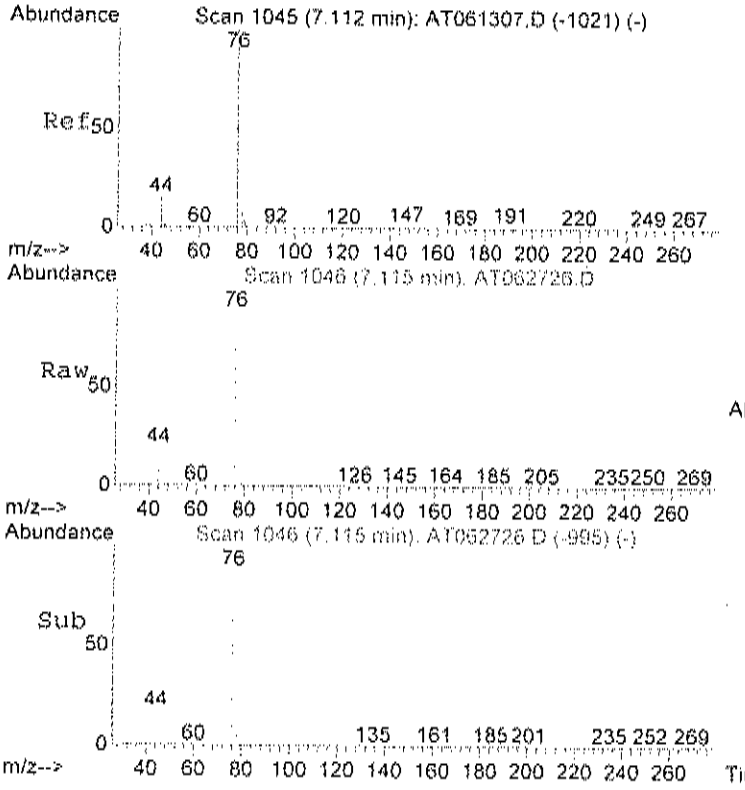


#15
Acetone
Concen: 6.71 ppb m
RT: 5.91 min Scan# 642
Delta R.T. 0.01 min
Lab File: AT062726.D
Acq: 28 Jun 2022 4:23 am

Tgt Ion: 58 Resp: 105499

Ion	Ratio	Lower	Upper
58	100		
43	347.9	268.9	328.9#

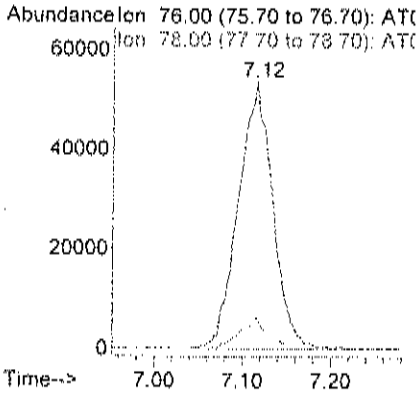


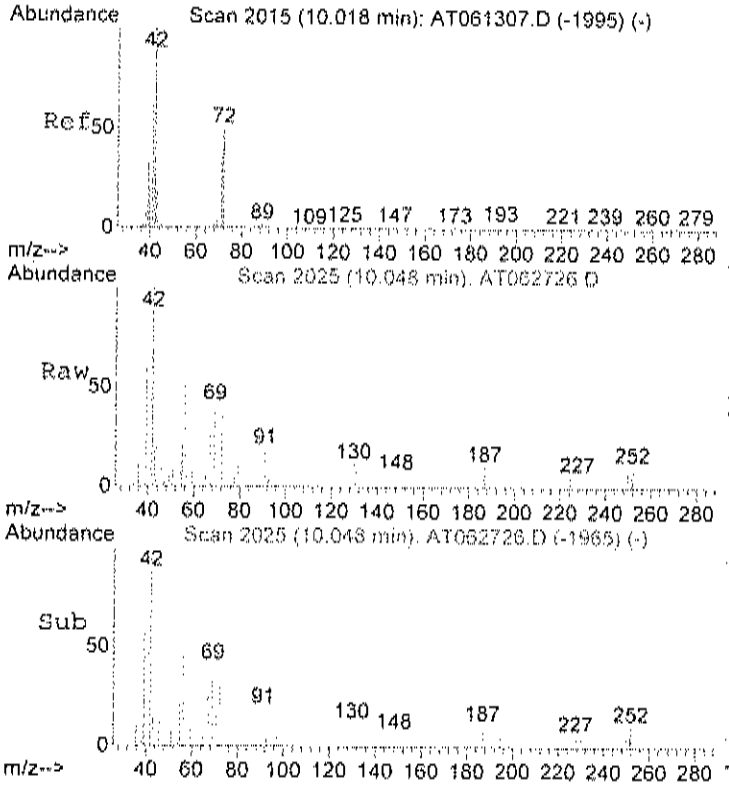


#23
Carbon disulfide
Concen: 1.42 ppb
RT: 7.12 min Scan# 1046
Delta R.T. 0.00 min
Lab File: AT062726.D
Acq: 28 Jun 2022 4:23 am

Tgt Ion: 76 Resp: 145131

Ion	Ratio	Lower	Upper
76	100		
78	9.6	0.0	29.7

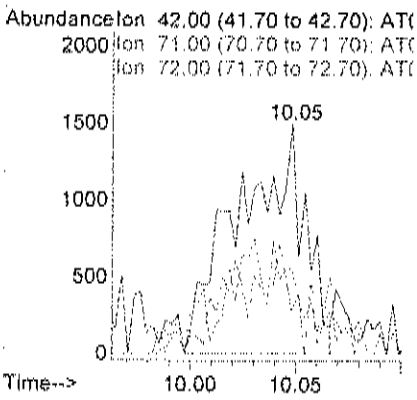




#33
Tetrahydrofuran
Concen: 0.14 ppb
RT: 10.05 min Scan# 2025
Delta R.T. 0.03 min
Lab File: AT062726.D
Acq: 28 Jun 2022 4:23 am

Tgt Ion: 42 Resp: 3268

Ion	Ratio	Lower	Upper
42	100		
71	37.6	38.0	78.0#
72	53.1	35.0	75.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062727.D Vial: 27
Acq On : 28 Jun 2022 5:05 am Operator: RJP
Sample : C2206048-009A 40X Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 07:18:46 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.71	128	26333	1.00	ppb	0.02
35) 1,4-difluorobenzene	12.00	114	115081	1.00	ppb	0.00
50) Chlorobenzene-d5	16.82	117	103631	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.61	95	63677	0.85	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 85.00%			
Target Compounds						Qvalue
15) Acetone	5.91	58	10635	0.69	ppb	# 17

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AT062727.D A613_1UG.M Thu Jul 07 07:39:46 2022 MSD1 Page 1

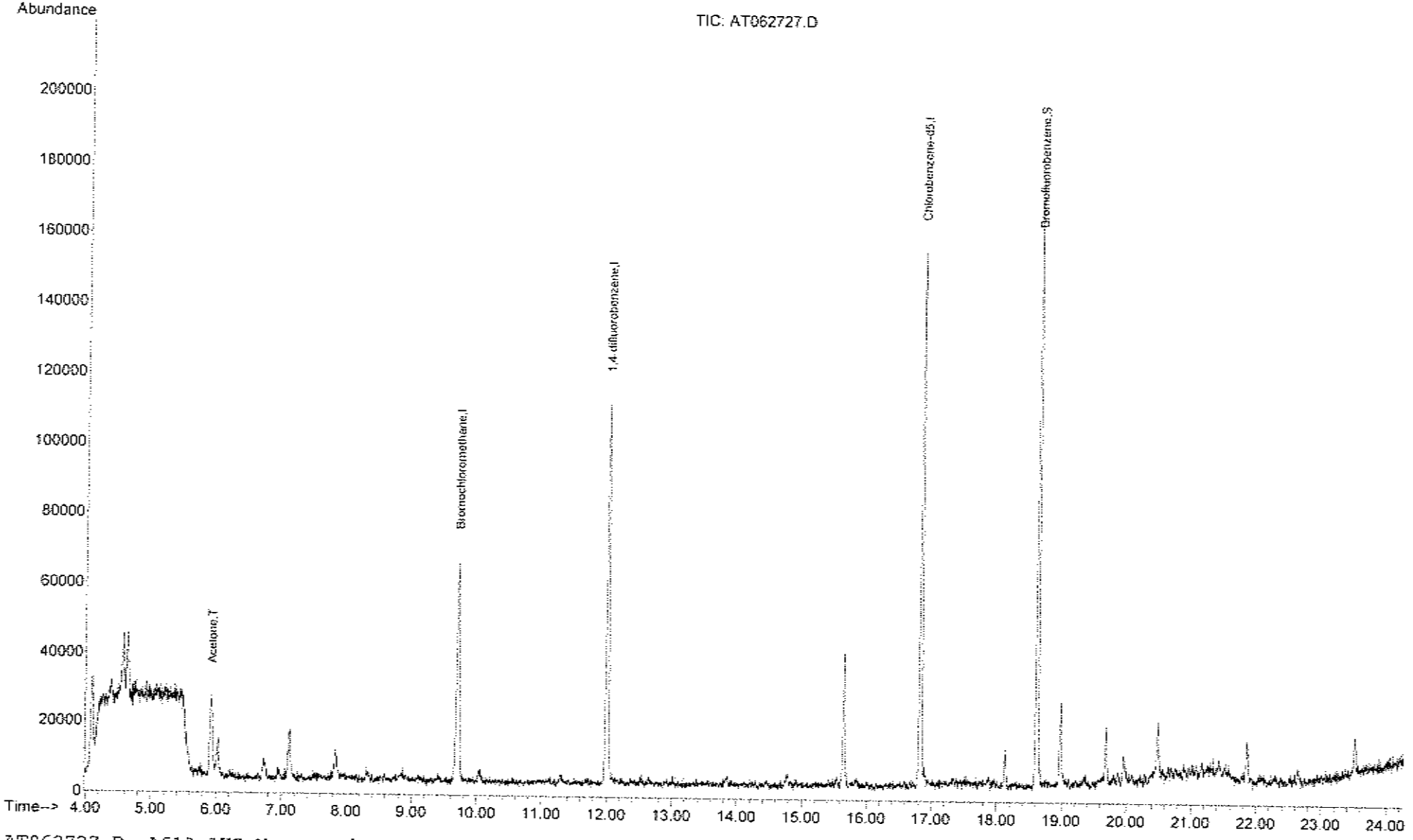
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062727.D
Acq On : 28 Jun 2022 5:05 am
Sample : C2206048-009A 40X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 29 11:36 2022

Vial: 27
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

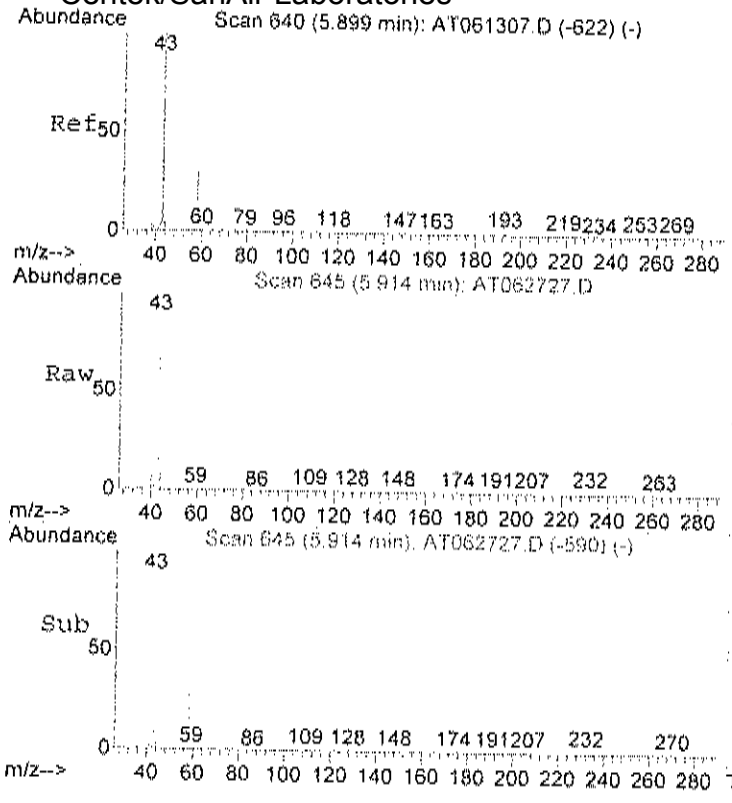
Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



AT062727.D A613_1UG.M Thu Jul 07 07:39:47 2022 MSD1

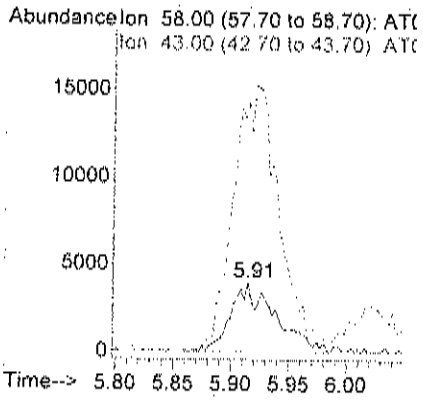
Centek/SanAir Laboratories



#15
Acetone
Concen: 0.69 ppb
RT: 5.91 min Scan# 645
Delta R.T. 0.02 min
Lab File: AT062727.D
Acq: 28 Jun 2022 5:05 am

Tgt Ion: 58 Resp: 10635

Ion	Ratio	Lower	Upper
58	100		
43	461.9	268.9	328.9#



Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-010A

Client Sample ID: SVW-9
Tag Number: 362,1153
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-12			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: NP
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,2,4-Trimethylbenzene	3.9	1.5		ppbV	10	6/29/2022 2:17:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,3,5-Trimethylbenzene	1.9	1.5		ppbV	10	6/29/2022 2:17:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,3-Dichlorobenzene	0.70	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/24/2022 11:47:00 PM
2,2,4-trimethylpentane	0.44	0.15		ppbV	1	6/24/2022 11:47:00 PM
4-ethyltoluene	1.1	0.15		ppbV	1	6/24/2022 11:47:00 PM
Acetone	220	240	J	ppbV	810	6/29/2022 3:04:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Benzene	2.0	1.5		ppbV	10	6/29/2022 2:17:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Carbon disulfide	78	6.0		ppbV	40	6/28/2022 5:47:00 AM
Carbon tetrachloride	0.14	0.15	J	ppbV	1	6/24/2022 11:47:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Chloroethane	0.47	0.15		ppbV	1	6/24/2022 11:47:00 PM
Chloroform	0.94	0.15		ppbV	1	6/24/2022 11:47:00 PM
Chloromethane	0.71	0.15		ppbV	1	6/24/2022 11:47:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Cyclohexane	0.72	0.15		ppbV	1	6/24/2022 11:47:00 PM

Qualifiers:

- . Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-010A

Client Sample ID: SVW-9
Tag Number: 362,1153
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Ethyl acetate	0.86	0.15		ppbV	1	6/24/2022 11:47:00 PM
Ethylbenzene	1.2	0.15		ppbV	1	6/24/2022 11:47:00 PM
Freon 11	0.32	0.15		ppbV	1	6/24/2022 11:47:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Freon 12	0.44	0.15		ppbV	1	6/24/2022 11:47:00 PM
Heptane	0.81	0.15		ppbV	1	6/24/2022 11:47:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Hexane	0.81	0.15		ppbV	1	6/24/2022 11:47:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
m&p-Xylene	3.5	3.0		ppbV	10	6/29/2022 2:17:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 11:47:00 PM
Methyl Ethyl Ketone	13	3.0		ppbV	10	6/29/2022 2:17:00 PM
Methyl Isobutyl Ketone	620	240		ppbV	810	6/29/2022 3:04:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Methylene chloride	3.7	1.5		ppbV	10	6/29/2022 2:17:00 PM
o-Xylene	2.3	1.5		ppbV	10	6/29/2022 2:17:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Styrene	0.48	0.15		ppbV	1	6/24/2022 11:47:00 PM
Tetrachloroethylene	0.41	0.15		ppbV	1	6/24/2022 11:47:00 PM
Tetrahydrofuran	7.5	1.5		ppbV	10	6/29/2022 2:17:00 PM
Toluene	4.8	1.5		ppbV	10	6/29/2022 2:17:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Trichloroethene	0.11	0.15	J	ppbV	1	6/24/2022 11:47:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 11:47:00 PM
Surr: Bromofluorobenzene	99.0	46.7-129		%REC	1	6/24/2022 11:47:00 PM

Qualifiers:

- `*` Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-010A

Client Sample ID: SVW-9
Tag Number: 362,1153
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 11:47:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/24/2022 11:47:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 11:47:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 11:47:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 11:47:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/24/2022 11:47:00 PM
1,2,4-Trimethylbenzene	19	7.4		ug/m3	10	6/29/2022 2:17:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/24/2022 11:47:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 11:47:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 11:47:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/24/2022 11:47:00 PM
1,3,5-Trimethylbenzene	9.3	7.4		ug/m3	10	6/29/2022 2:17:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/24/2022 11:47:00 PM
1,3-Dichlorobenzene	4.2	0.90		ug/m3	1	6/24/2022 11:47:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 11:47:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/24/2022 11:47:00 PM
2,2,4-trimethylpentane	2.1	0.70		ug/m3	1	6/24/2022 11:47:00 PM
4-ethyltoluene	5.5	0.74		ug/m3	1	6/24/2022 11:47:00 PM
Acetone	520	570	J	ug/m3	810	6/29/2022 3:04:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/24/2022 11:47:00 PM
Benzene	6.4	4.8		ug/m3	10	6/29/2022 2:17:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/24/2022 11:47:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/24/2022 11:47:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/24/2022 11:47:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/24/2022 11:47:00 PM
Carbon disulfide	240	19		ug/m3	40	6/28/2022 5:47:00 AM
Carbon tetrachloride	0.88	0.94	J	ug/m3	1	6/24/2022 11:47:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/24/2022 11:47:00 PM
Chloroethane	1.2	0.40		ug/m3	1	6/24/2022 11:47:00 PM
Chloroform	4.6	0.73		ug/m3	1	6/24/2022 11:47:00 PM
Chloromethane	1.5	0.31		ug/m3	1	6/24/2022 11:47:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 11:47:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 11:47:00 PM
Cyclohexane	2.5	0.52		ug/m3	1	6/24/2022 11:47:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/24/2022 11:47:00 PM
Ethyl acetate	3.1	0.54		ug/m3	1	6/24/2022 11:47:00 PM
Ethylbenzene	5.1	0.65		ug/m3	1	6/24/2022 11:47:00 PM
Freon 11	1.8	0.84		ug/m3	1	6/24/2022 11:47:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/24/2022 11:47:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/24/2022 11:47:00 PM

Qualifiers:

- `*` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-010A

Client Sample ID: SVW-9
Tag Number: 362,1153
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.2	0.74		ug/m3	1	6/24/2022 11:47:00 PM
Heptane	3.3	0.61		ug/m3	1	6/24/2022 11:47:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/24/2022 11:47:00 PM
Hexane	2.9	0.53		ug/m3	1	6/24/2022 11:47:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/24/2022 11:47:00 PM
m&p-Xylene	15	13		ug/m3	10	6/29/2022 2:17:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 11:47:00 PM
Methyl Ethyl Ketone	39	8.8		ug/m3	10	6/29/2022 2:17:00 PM
Methyl Isobutyl Ketone	2500	980		ug/m3	810	6/29/2022 3:04:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/24/2022 11:47:00 PM
Methylene chloride	13	5.2		ug/m3	10	6/29/2022 2:17:00 PM
o-Xylene	10	6.5		ug/m3	10	6/29/2022 2:17:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/24/2022 11:47:00 PM
Styrene	2.0	0.64		ug/m3	1	6/24/2022 11:47:00 PM
Tetrachloroethylene	2.8	1.0		ug/m3	1	6/24/2022 11:47:00 PM
Tetrahydrofuran	22	4.4		ug/m3	10	6/29/2022 2:17:00 PM
Toluene	18	5.7		ug/m3	10	6/29/2022 2:17:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 11:47:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 11:47:00 PM
Trichloroethene	0.59	0.81	J	ug/m3	1	6/24/2022 11:47:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/24/2022 11:47:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/24/2022 11:47:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/24/2022 11:47:00 PM

Qualifiers:

- . Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062419.D
Acq On : 24 Jun 2022 11:47 pm
Sample : C2206048-010A
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 27 11:28:59 2022

Vial: 19
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.70	128	34394	1.00	ppb		0.02
35) 1,4-difluorobenzene	12.00	114	151042	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	143331	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	102801	0.99	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99.00%				
Target Compounds							Qvalue
3) Freon 12	4.14	85	70456	0.44	ppb		99
4) Chloromethane	4.34	50	27347	0.71	ppb		97
10) Chloroethane	5.14	64	8639	0.47	ppb		98
14) Freon 11	5.75	101	62371	0.32	ppb		99
15) Acetone	5.90	58	5942187	297.07	ppb		91
21) Methylene chloride	6.97	84	176856	4.05	ppb		97
23) Carbon disulfide	7.12	76	11474125	88.24	ppb		100
28) Methyl Ethyl Ketone	8.78	72	261742	15.39	ppb	#	100
30) Hexane	8.86	57	41498m	0.81	ppb		
31) Ethyl acetate	9.40	43	69087	0.86	ppb		97
32) Chloroform	9.86	83	101718	0.94	ppb		95
33) Tetrahydrofuran	10.01	42	366173	12.25	ppb		87
37) Cyclohexane	11.40	56	32812m	0.72	ppb		
38) Carbon tetrachloride	11.33	117	13938	0.14	ppb		92
39) Benzene	11.30	78	249111	2.29	ppb		99
42) 2,2,4-trimethylpentane	12.17	57	62563	0.44	ppb	#	56
43) Heptane	12.52	43	41440	0.81	ppb		88
44) Trichloroethene	12.64	130	6246	0.11	ppb		99
51) Toluene	14.77	92	486592	5.74	ppb		98
52) Methyl Isobutyl Ketone	13.84	43	33042618	436.93	ppb	#	63
56) Tetrachloroethylene	15.84	164	26749	0.41	ppb		97
58) Ethylbenzene	17.14	91	229490	1.17	ppb		98
59) m&p-xylene	17.33	91	708484	4.42	ppb		97
61) Styrene	17.83	104	57235	0.48	ppb	#	27
63) o-xylene	17.87	91	463649	2.72	ppb		97
69) 4-ethyltoluene	19.29	105	246922m	1.11	ppb		
70) 1,3,5-trimethylbenzene	19.36	105	412935m	2.08	ppb		
71) 1,2,4-trimethylbenzene	19.87	105	893779	4.64	ppb		100
72) 1,3-dichlorobenzene	20.21	146	87122	0.70	ppb		88
75) 1,2,3-trimethylbenzene	20.41	105	320649	1.62	ppb		99

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

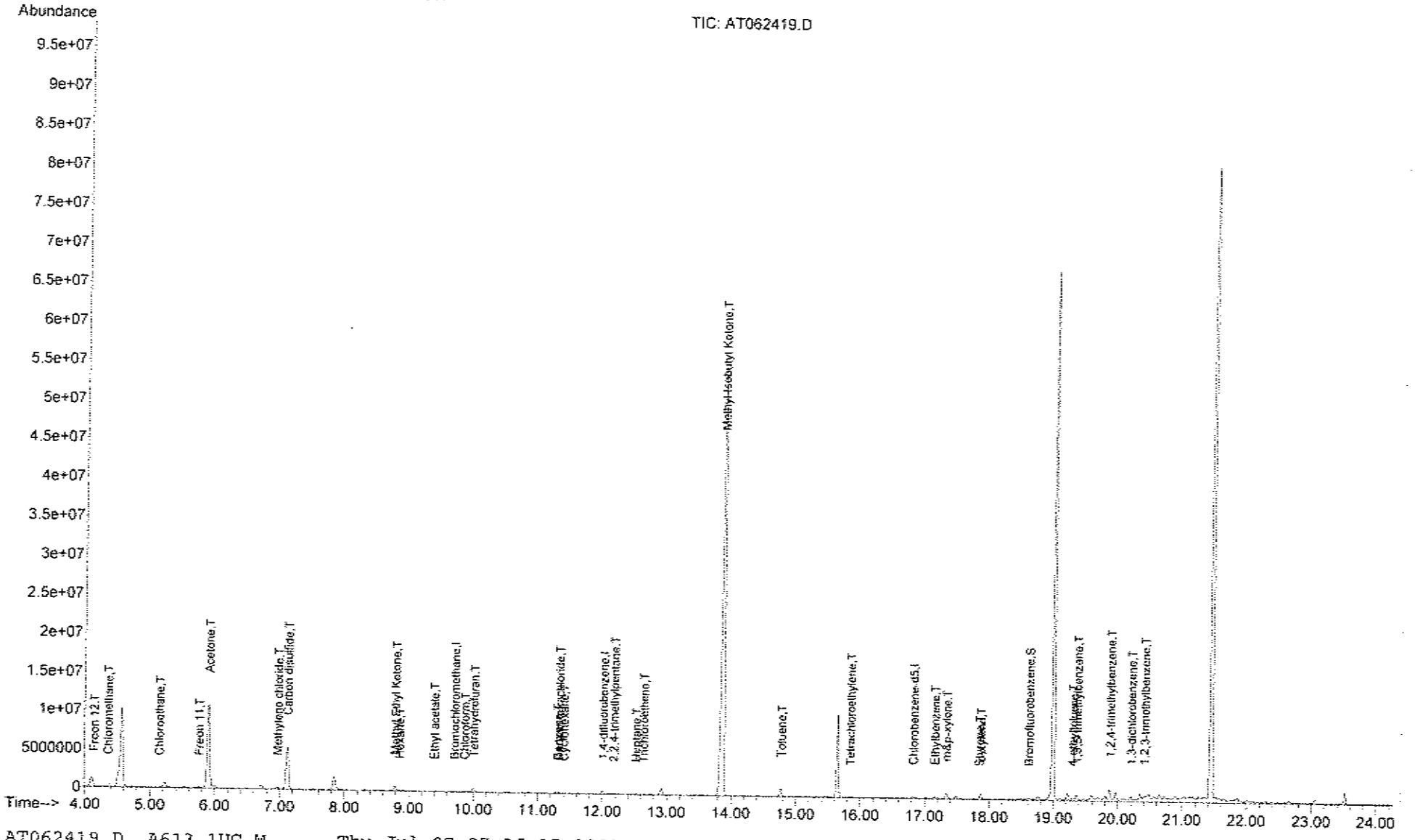
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062419.D
Acq On : 24 Jun 2022 11:47 pm
Sample : C2206048-010A
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 28 13:54 2022

Vial: 19
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

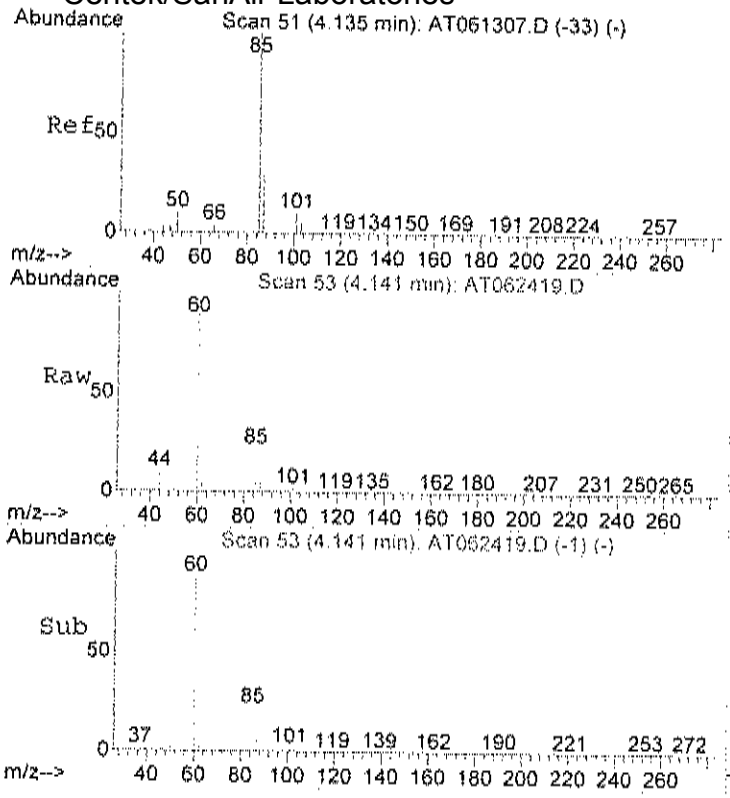
Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



AT062419.D A613_1UG.M Thu Jul 07 07:36:15 2022 MSD1

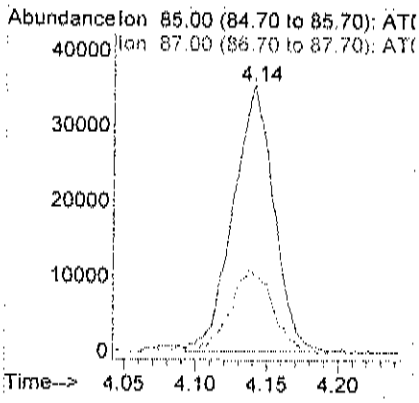
Centek/SanAir Laboratories

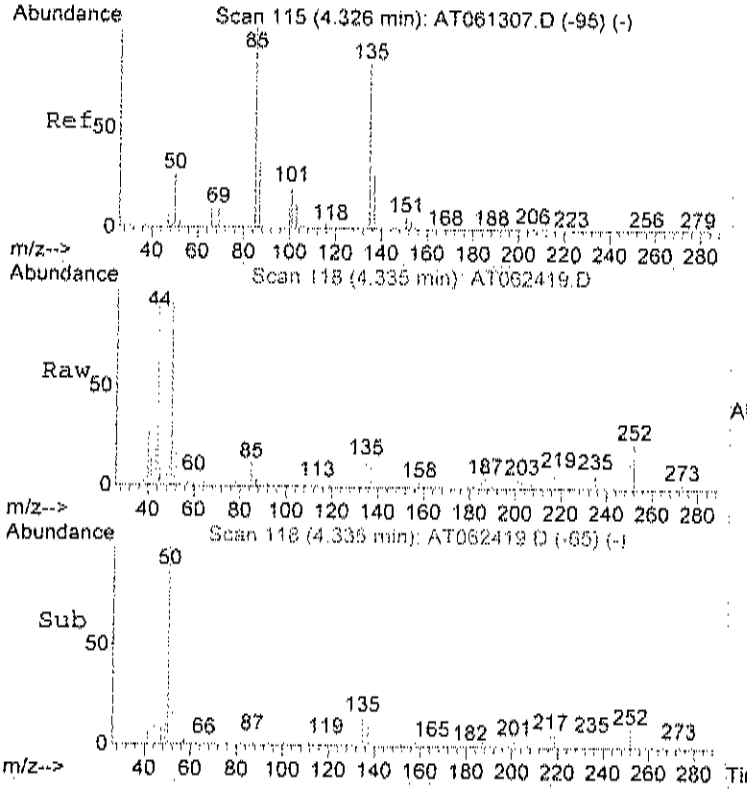


#3
Freon 12
Concen: 0.44 ppb
RT: 4.14 min Scan# 53
Delta R.T. 0.01 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion: 85 Resp: 70456

Ion	Ratio	Lower	Upper
85	100		
87	32.1	12.8	52.8

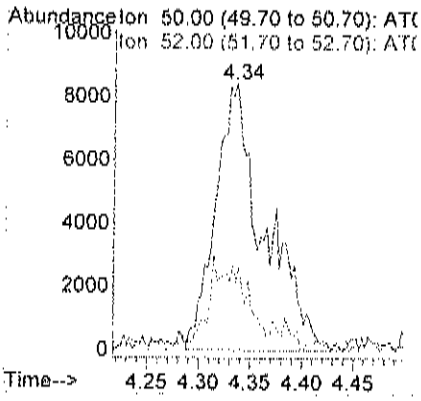


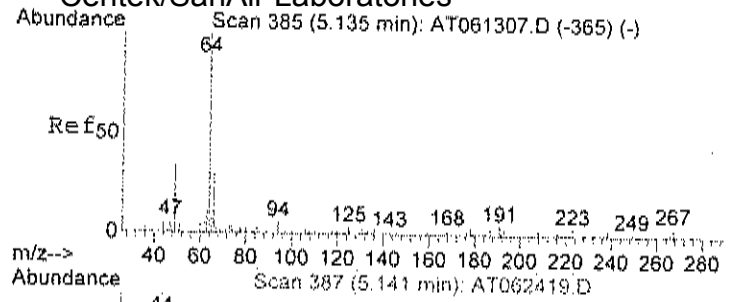


#4
Chloromethane
Concen: 0.71 ppb
RT: 4.34 min Scan# 118
Delta R.T. 0.01 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion: 50 Resp: 27347

Ion	Ratio	Lower	Upper
50	100		
52	24.2	2.7	42.7

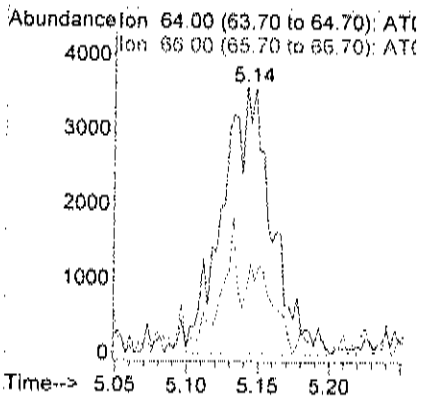


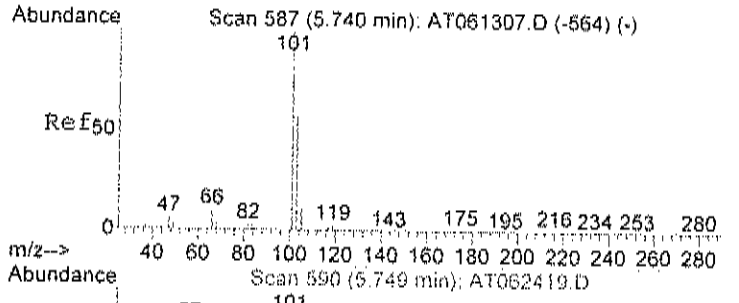


#10
Chloroethane
Concen: 0.47 ppb
RT: 5.14 min Scan# 387
Delta R.T. 0.01 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion: 64 Resp: 8639

Ion	Ratio	Lower	Upper
64	100		
66	35.1	27.0	40.4

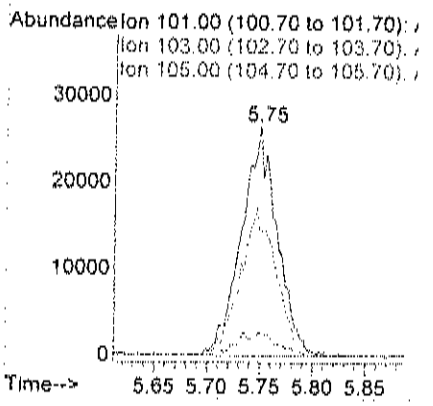


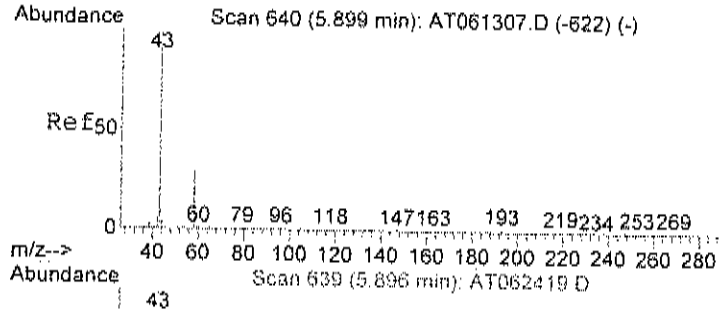


#14
Freon 11
Concen: 0.32 ppb
RT: 5.75 min Scan# 590
Delta R.T. 0.01 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion:101 Resp: 62371

Ion	Ratio	Lower	Upper
101	100		
103	65.5	46.3	86.3
105	11.5	0.0	31.2

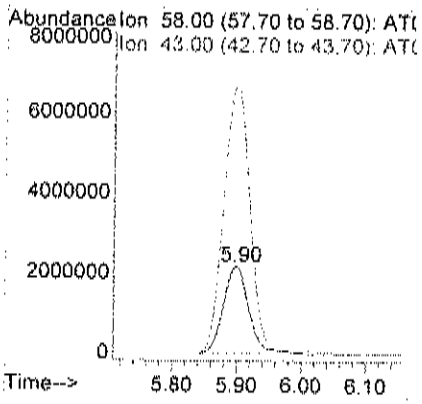


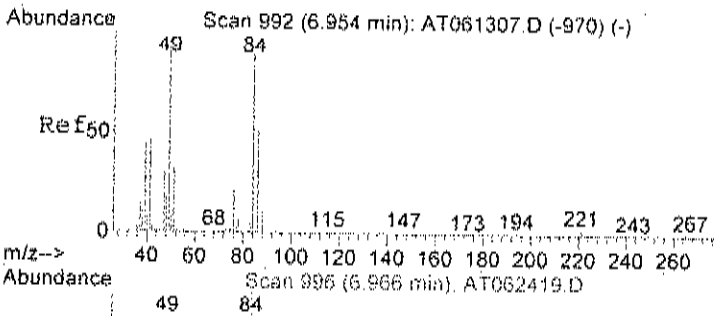


#15
Acetone
Concen: 297.07 ppb
RT: 5.90 min Scan# 639
Delta R.T. -0.00 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion: 58 Resp: 5942187

Ion	Ratio	Lower	Upper
58	100		
43	316.4	268.9	328.9

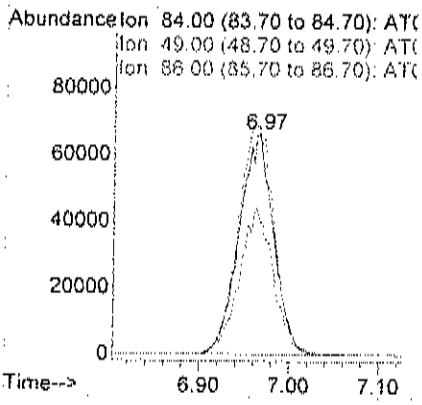


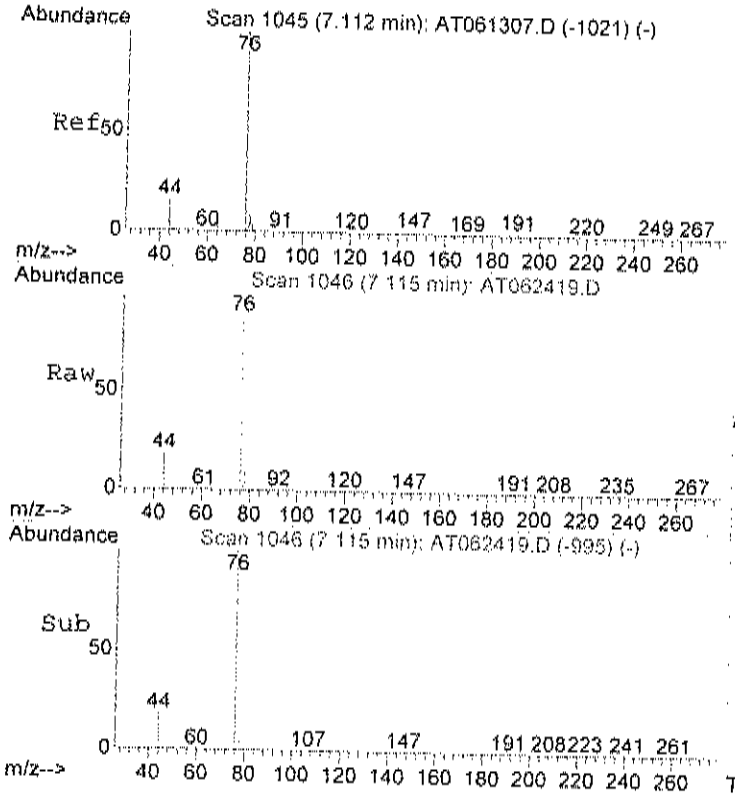


#21
Methylene chloride
Concen: 4.05 ppb
RT: 6.97 min Scan# 996
Delta R.T. 0.01 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion: 84 Resp: 176856

Ion	Ratio	Lower	Upper
84	100		
49	108.9	93.2	133.2
86	65.3	46.4	86.4

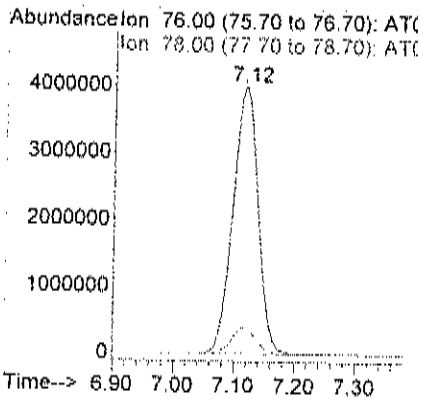


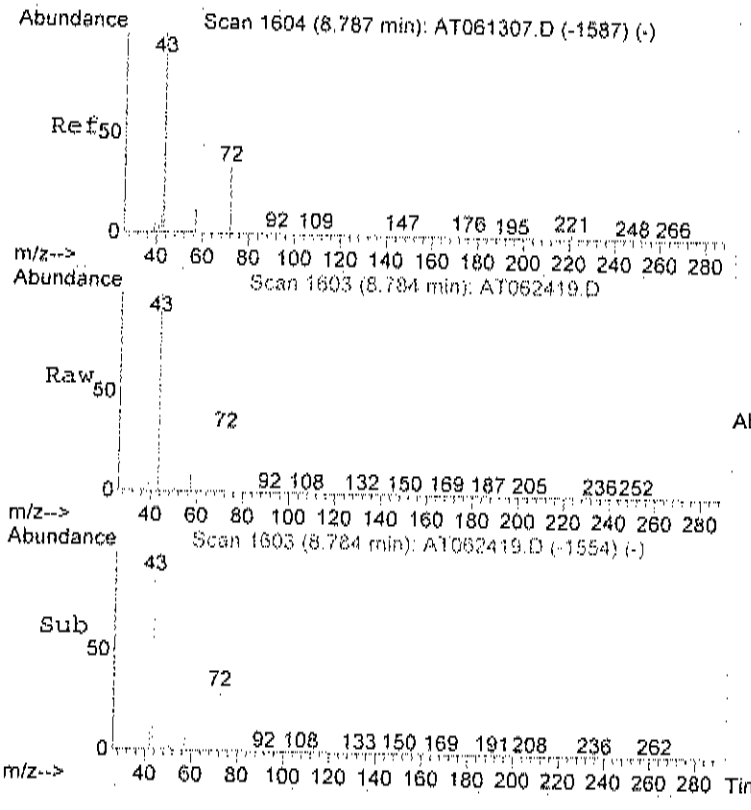


#23
Carbon disulfide
Concen: 88.24 ppb
RT: 7.12 min Scan# 1046
Delta R.T. 0.00 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion: 76 Resp:11474125

Ion	Ratio	Lower	Upper
76	100		
78	9.7	0.0	29.7

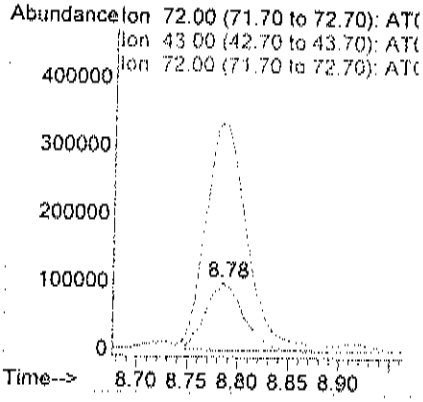


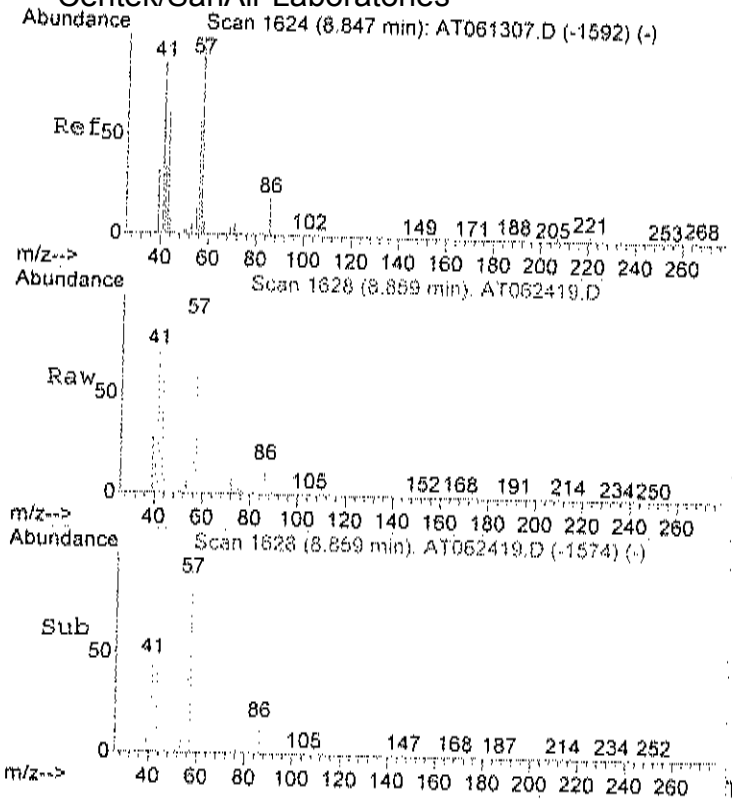


#28
Methyl Ethyl Ketone
Concen: 15.39 ppb
RT: 8.78 min Scan# 1603
Delta R.T. -0.00 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion: 72 Resp: 261742

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

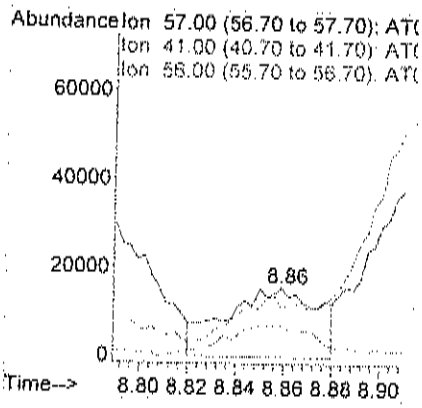


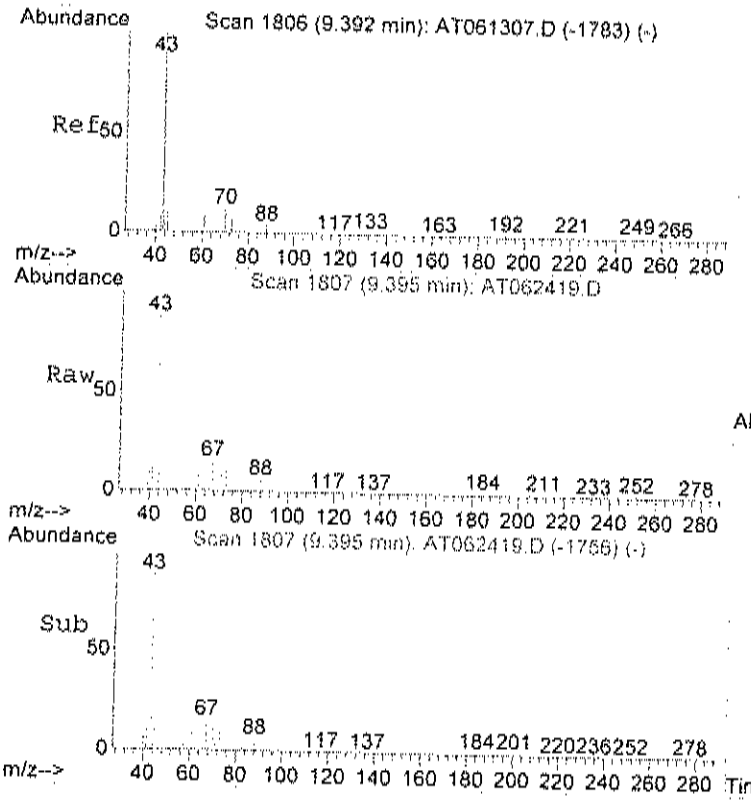


#30
Hexane
Concen: 0.81 ppb m
RT: 8.86 min Scan# 1628
Delta R.T. 0.01 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion: 57 Resp: 41498

Ion	Ratio	Lower	Upper
57	100		
41	487.5	58.1	98.1#
56	3.5	28.7	68.7#

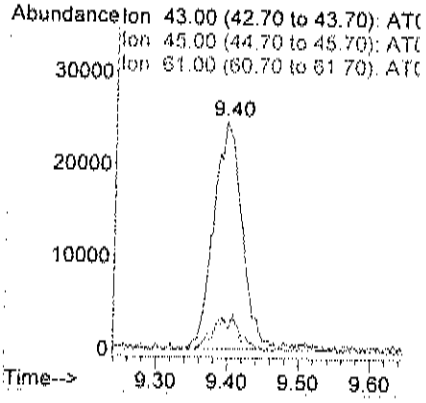


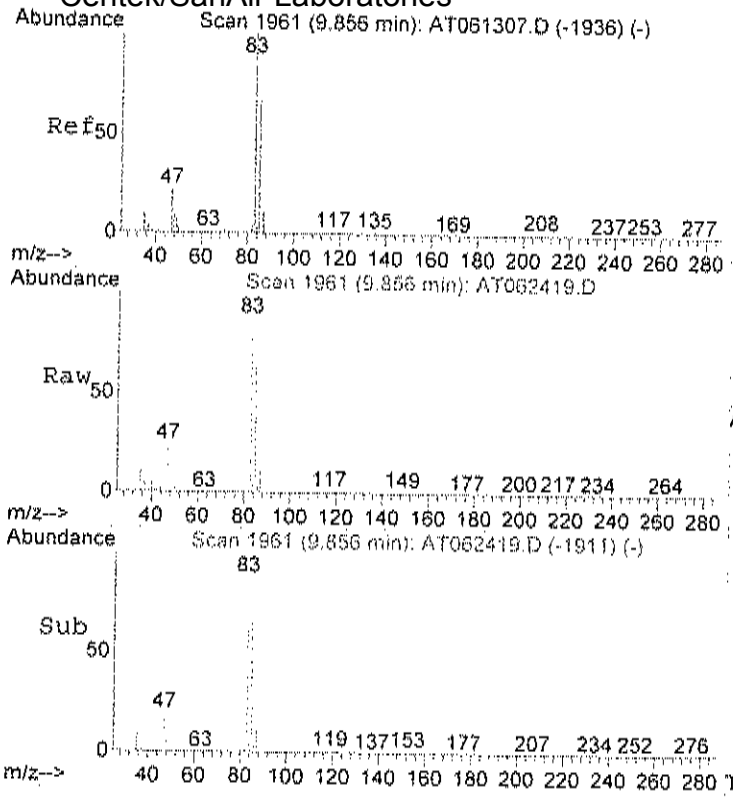


#31
Ethyl acetate
Concen: 0.86 ppb
RT: 9.40 min Scan# 1807
Delta R.T. 0.00 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion: 43 Resp: 69087

Ion	Ratio	Lower	Upper
43	100		
45	15.2	0.0	33.7
61	14.0	0.0	34.7

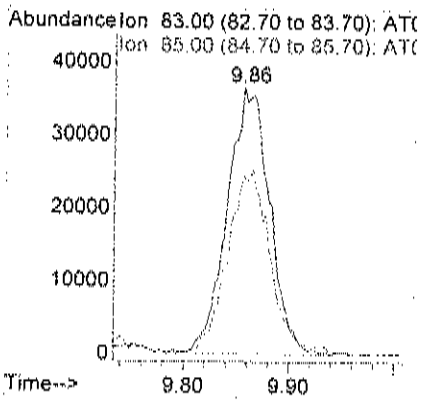


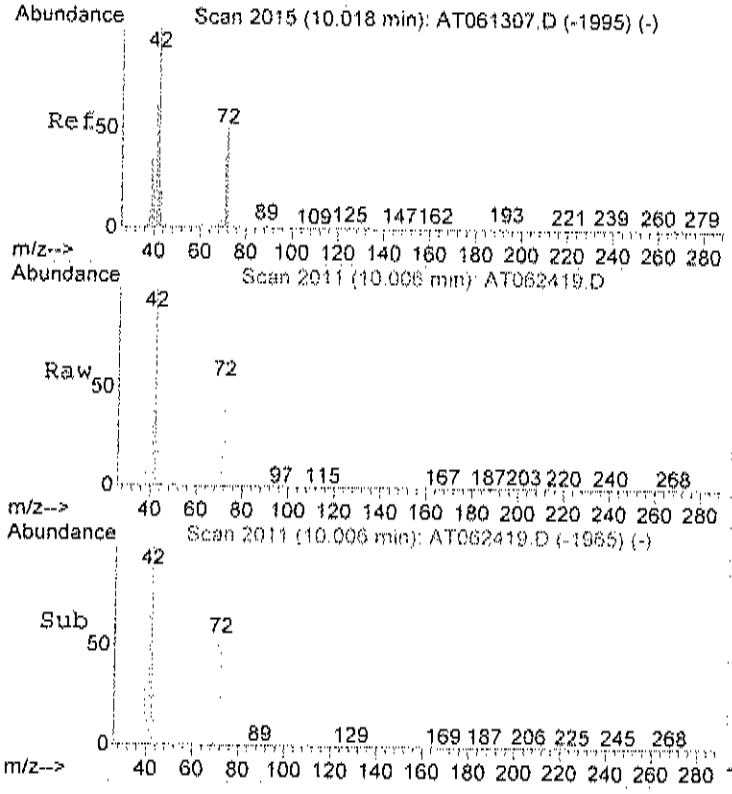


#32
Chloroform
Concen: 0.94 ppb
RT: 9.86 min Scan# 1961
Delta R.T. 0.00 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion: 83 Resp: 101718

Ion	Ratio	Lower	Upper
83	100		
85	70.4	46.5	86.5

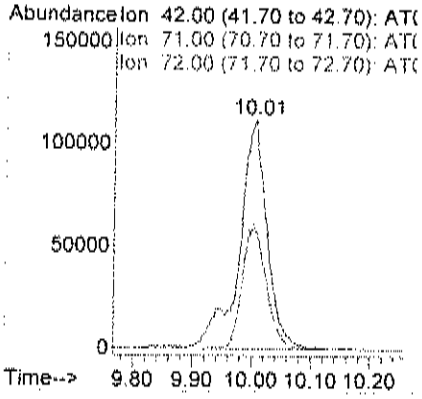


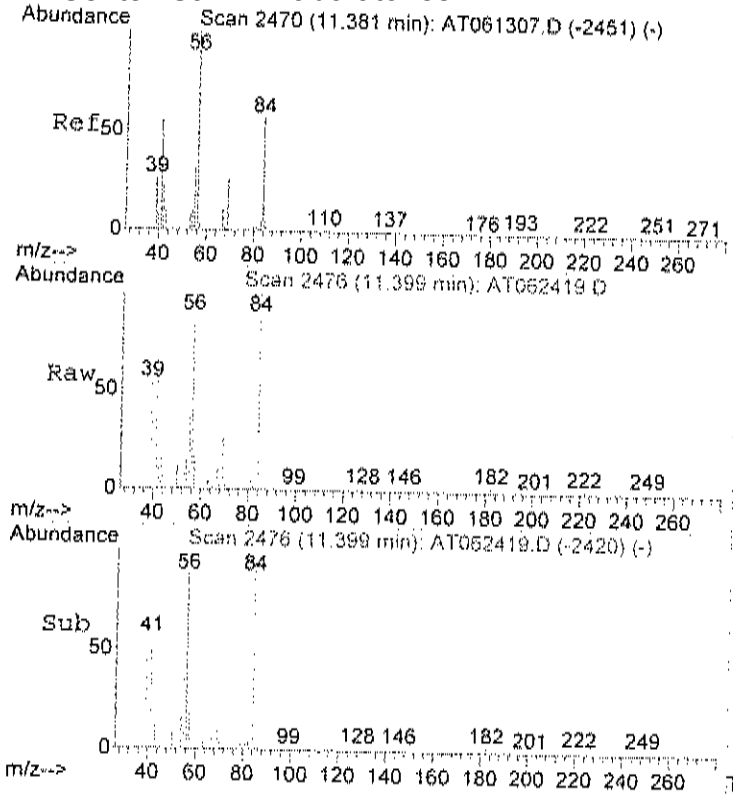


#33
Tetrahydrofuran
Concen: 12.25 ppb
RT: 10.01 min Scan# 2011
Delta R.T. -0.01 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion: 42 Resp: 366173

Ion	Ratio	Lower	Upper
42	100		
71	46.2	38.0	78.0
72	47.3	35.0	75.0

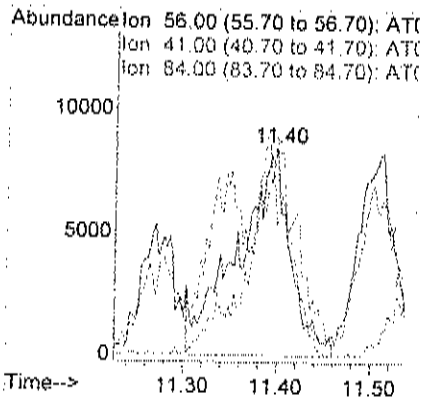


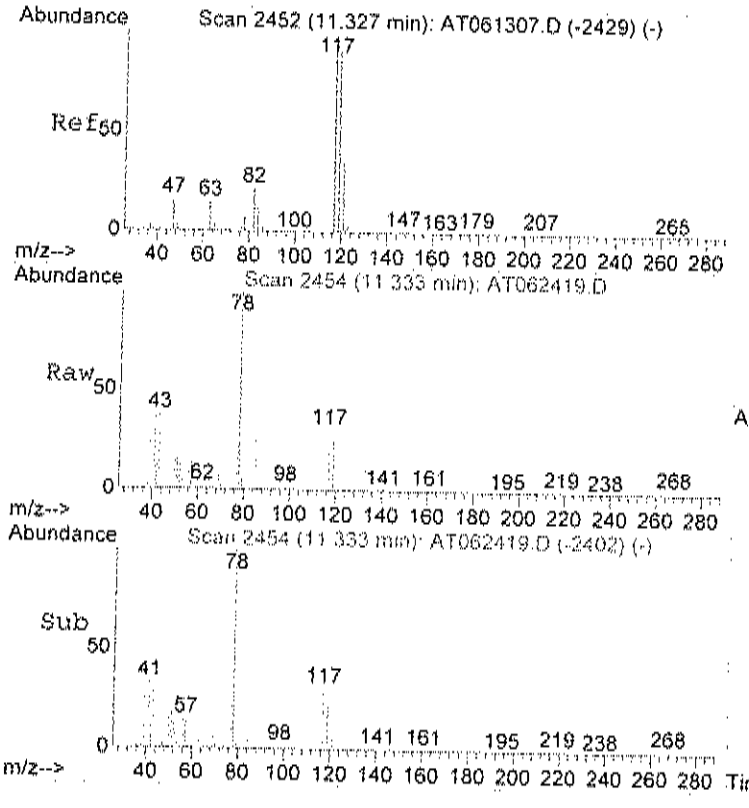


#37
Cyclohexane
Concen: 0.72 ppb m
RT: 11.40 min Scan# 2476
Delta R.T. 0.02 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion: 56 Resp: 32812

Ion	Ratio	Lower	Upper
56	100		
41	140.4	40.3	80.3#
84	86.6	133.0	173.0#

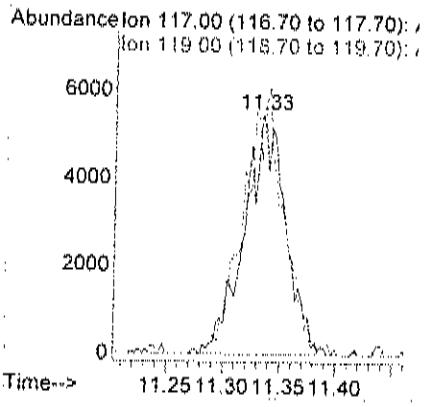


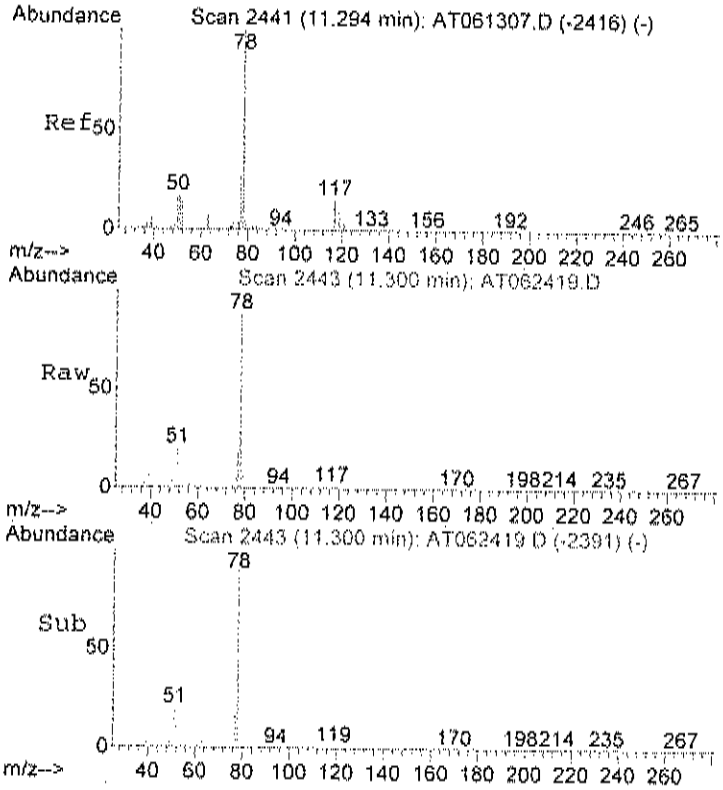


#38
Carbon tetrachloride
Concen: 0.14 ppb
RT: 11.33 min Scan# 2454
Delta R.T. 0.01 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion:117 Resp: 13938

Ion	Ratio	Lower	Upper
117	100		
119	105.4	77.2	117.2

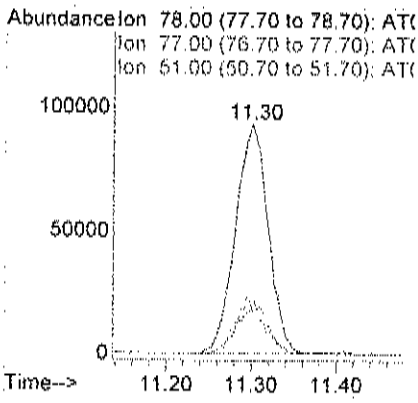


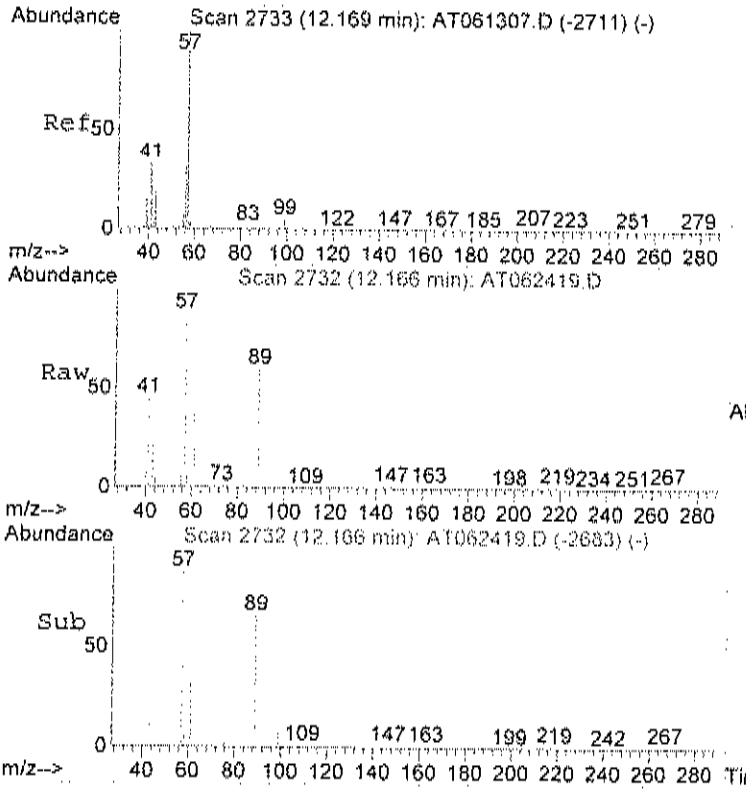


#39
Benzene
Concen: 2.29 ppb
RT: 11.30 min Scan# 2443
Delta R.T. 0.01 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion: 78 Resp: 249111

Ion	Ratio	Lower	Upper
78	100		
77	23.3	3.1	43.1
51	18.6	0.0	37.8

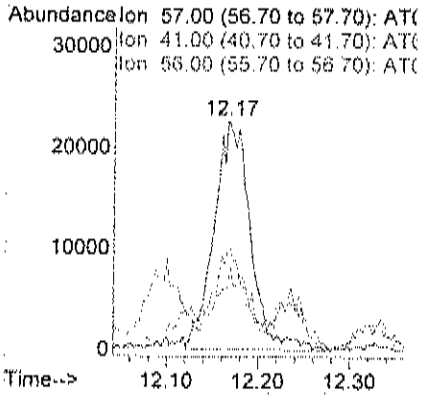


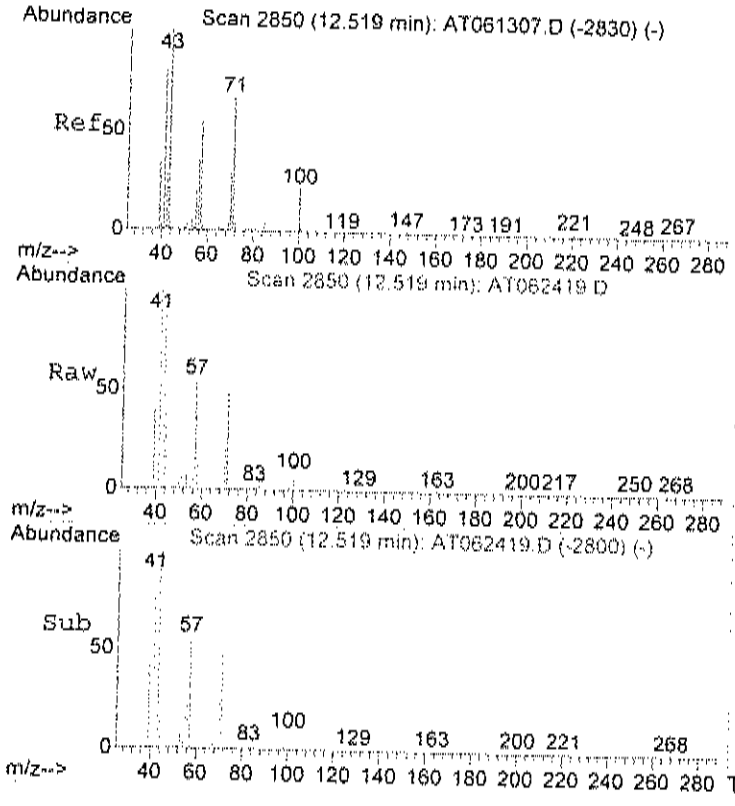


#42
2,2,4-trimethylpentane
Concen: 0.44 ppb
RT: 12.17 min Scan# 2732
Delta R.T. -0.00 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion: 57 Resp: 62563

Ion	Ratio	Lower	Upper
57	100		
41	67.5	15.3	55.3#
56	46.7	10.1	50.1

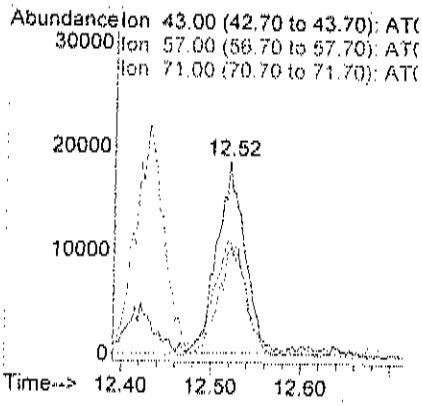


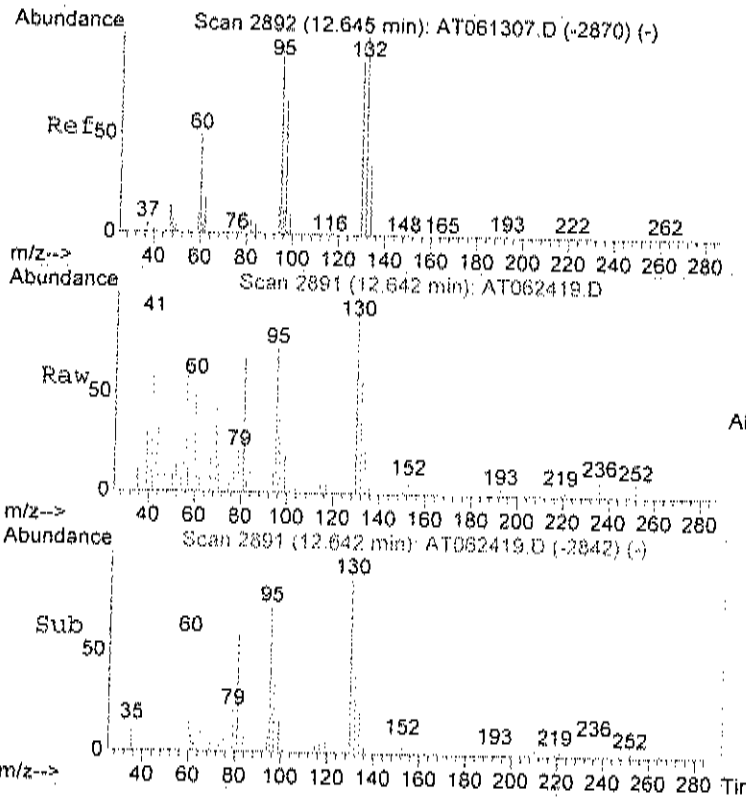


#43
Heptane
Concen: 0.81 ppb
RT: 12.52 min Scan# 2850
Delta R.T. 0.00 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion: 43 Resp: 41440

Ion	Ratio	Lower	Upper
43	100		
57	63.7	41.7	81.7
71	56.5	53.4	93.4

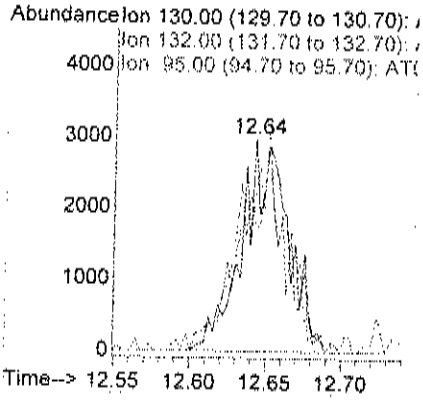


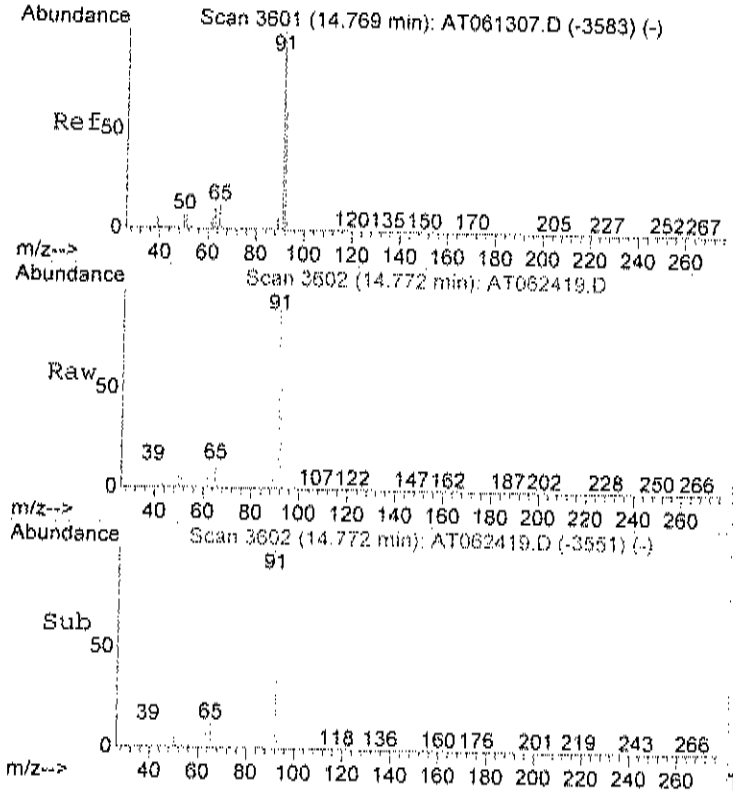


#44
Trichloroethene
Concen: 0.11 ppb
RT: 12.64 min Scan# 2891
Delta R.T. -0.00 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion:130 Resp: 6246

Ion	Ratio	Lower	Upper
130	100		
132	94.9	76.7	116.7
95	95.1	74.7	114.7

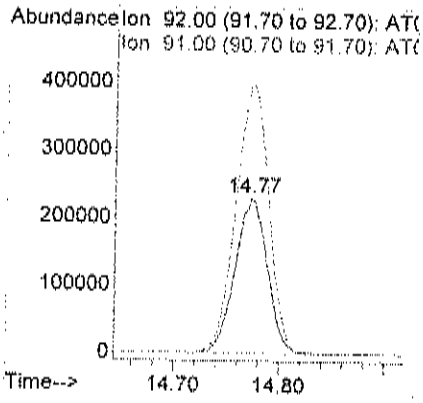


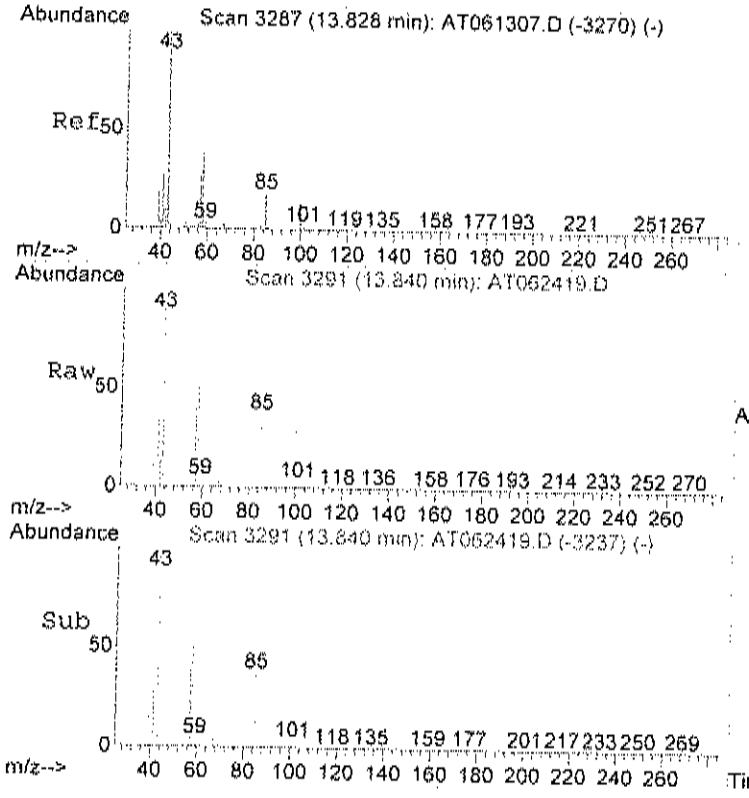


#51
Toluene
Concen: 5.74 ppb
RT: 14.77 min Scan# 3602
Delta R.T. 0.00 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion: 92 Resp: 486592

Ion	Ratio	Lower	Upper
92	100		
91	177.0	154.4	194.4

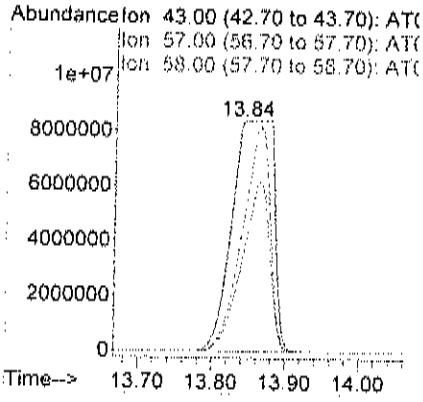


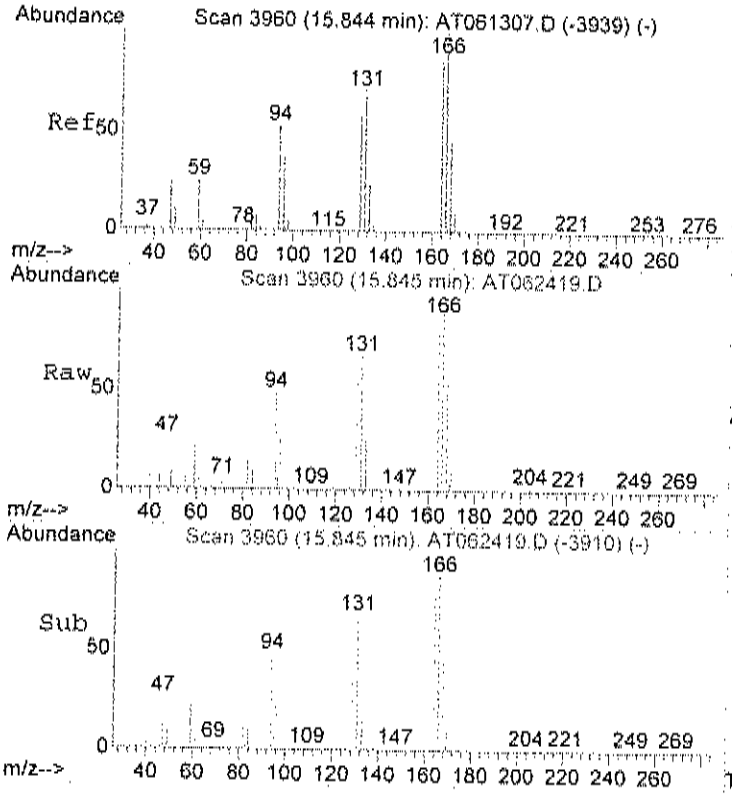


#52
Methyl Isobutyl Ketone
Concen: 436.93 ppb
RT: 13.84 min Scan# 3291
Delta R.T. 0.01 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion: 43 Resp: 33042618

Ion	Ratio	Lower	Upper
43	100		
57	49.1	9.3	49.3
58	65.2	22.0	62.0#

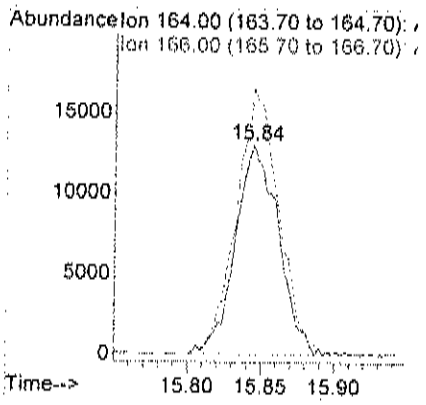


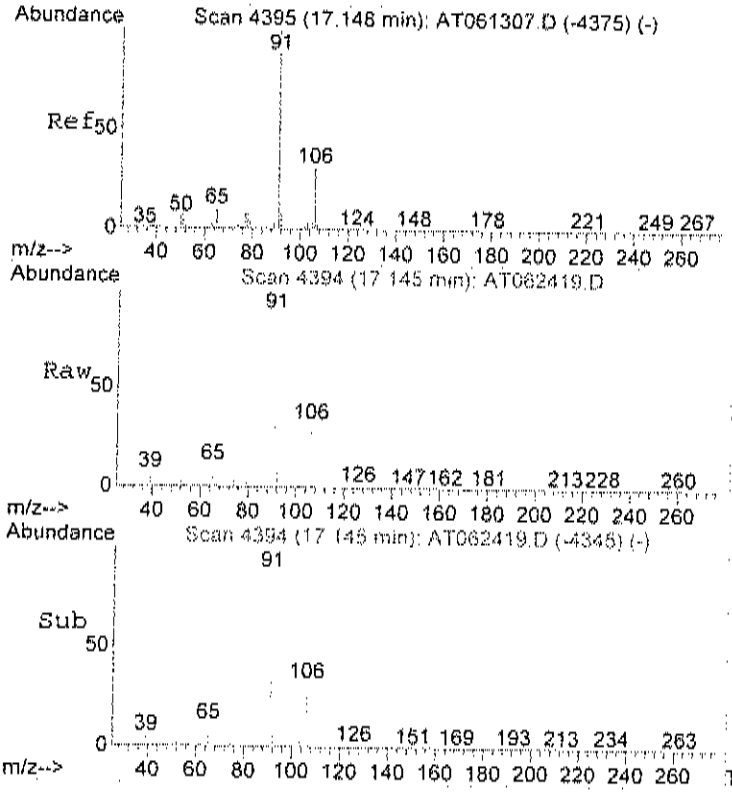


#56
Tetrachloroethylene
Concen: 0.41 ppb
RT: 15.84 min Scan# 3960
Delta R.T. 0.00 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion:164 Resp: 26749

Ion	Ratio	Lower	Upper
164	100		
166	123.8	107.7	147.7

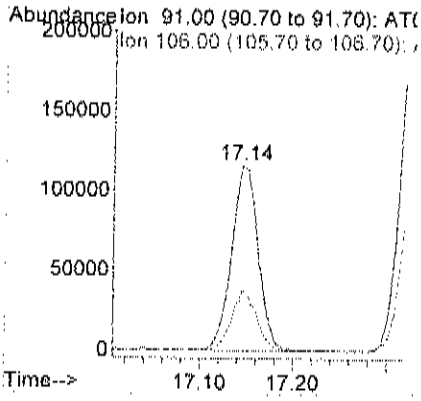


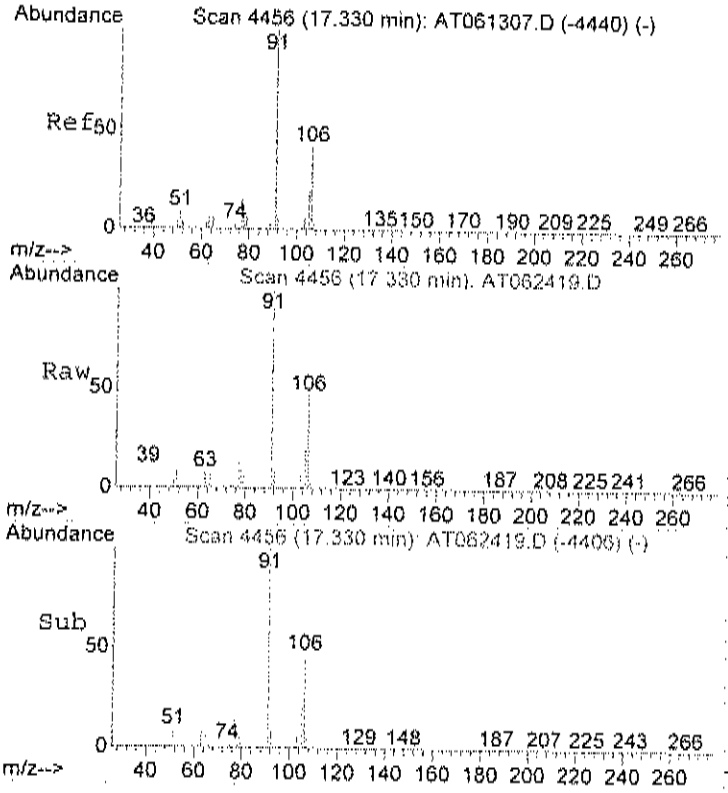


#58
Ethylbenzene
Concen: 1.17 ppb
RT: 17.14 min Scan# 4394
Delta R.T. -0.00 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion: 91 Resp: 229490

Ion	Ratio	Lower	Upper
91	100		
106	30.5	11.5	51.5

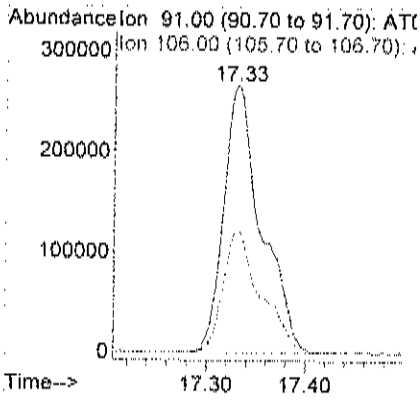


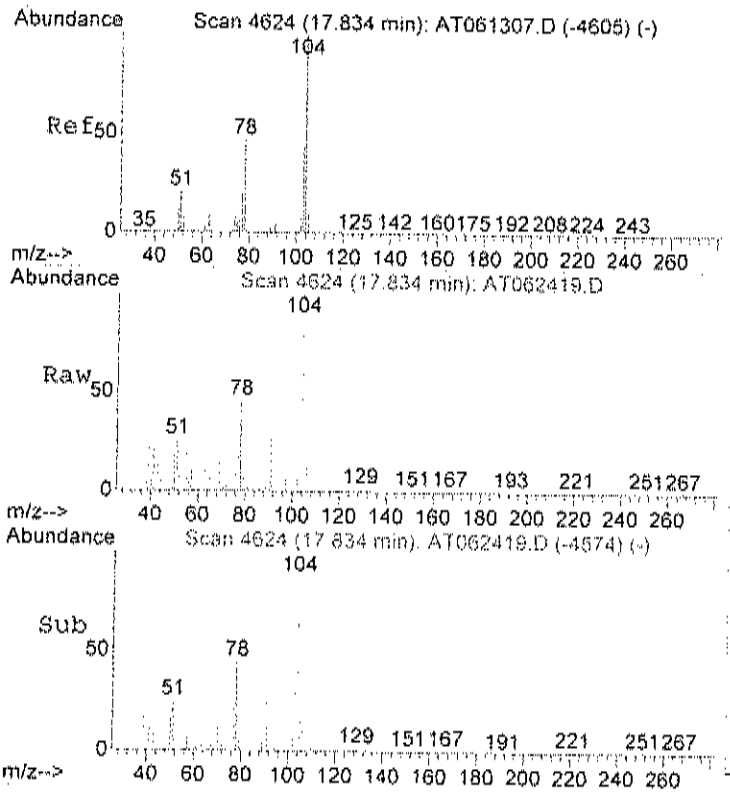


#59
m&p-xylene
Concen: 4.42 ppb
RT: 17.33 min Scan# 4456
Delta R.T. 0.00 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion: 91 Resp: 708484

Ion	Ratio	Lower	Upper
91	100		
106	45.8	27.9	67.9

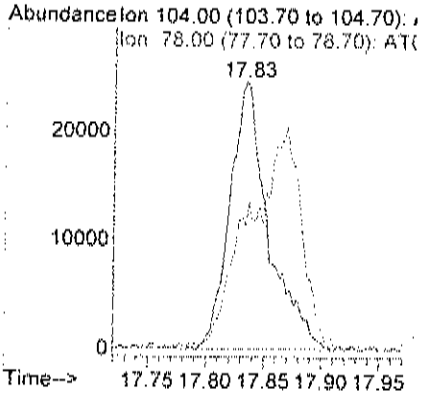


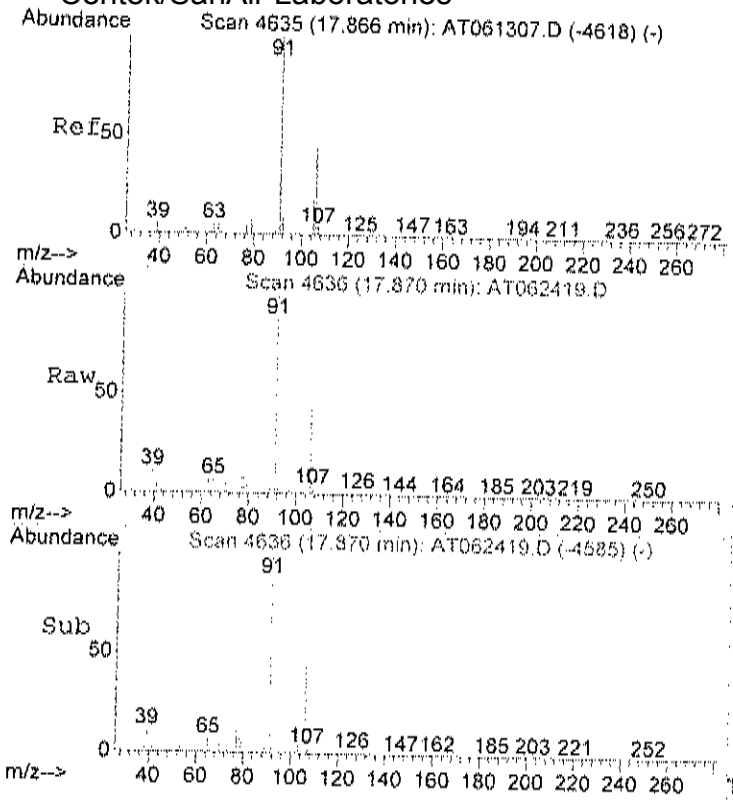


#61
Styrene
Concen: 0.48 ppb
RT: 17.83 min Scan# 4624
Delta R.T. 0.00 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion:104 Resp: 57235

Ion	Ratio	Lower	Upper
104	100		
78	111.7	37.9	77.9#

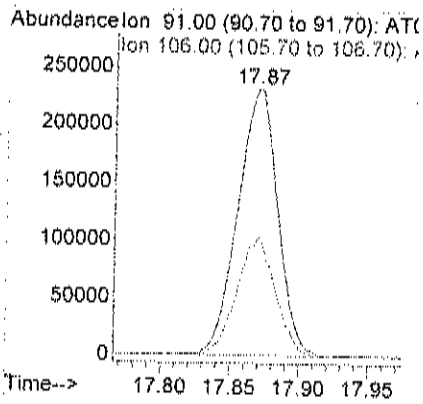


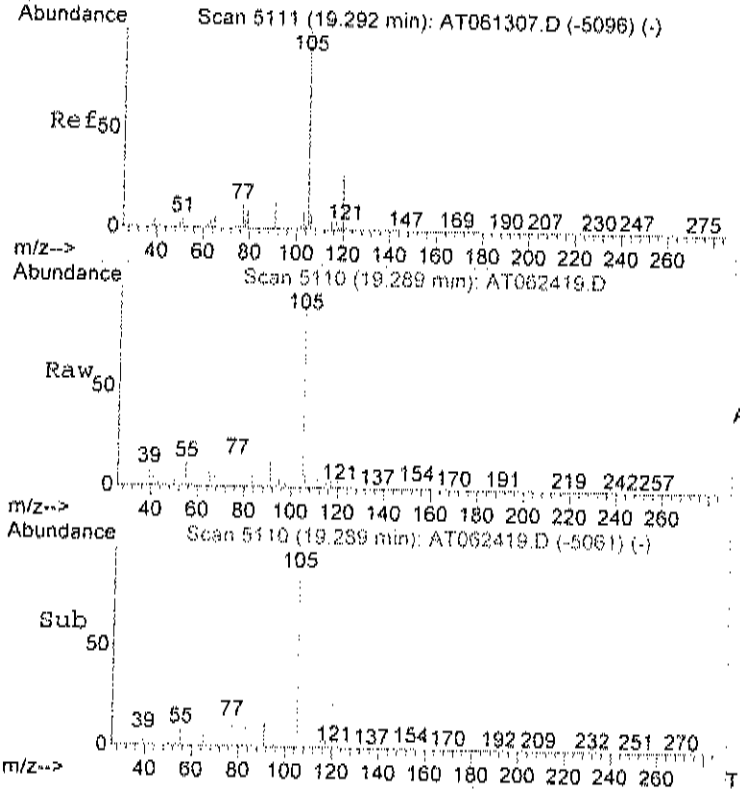


#63
o-xylene
Concen: 2.72 ppb
RT: 17.87 min Scan# 4636
Delta R.T. 0.00 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion: 91 Resp: 463649

Ion	Ratio	Lower	Upper
91	100		
106	43.2	25.1	65.1

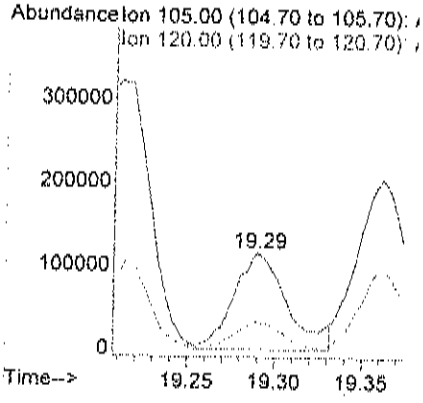


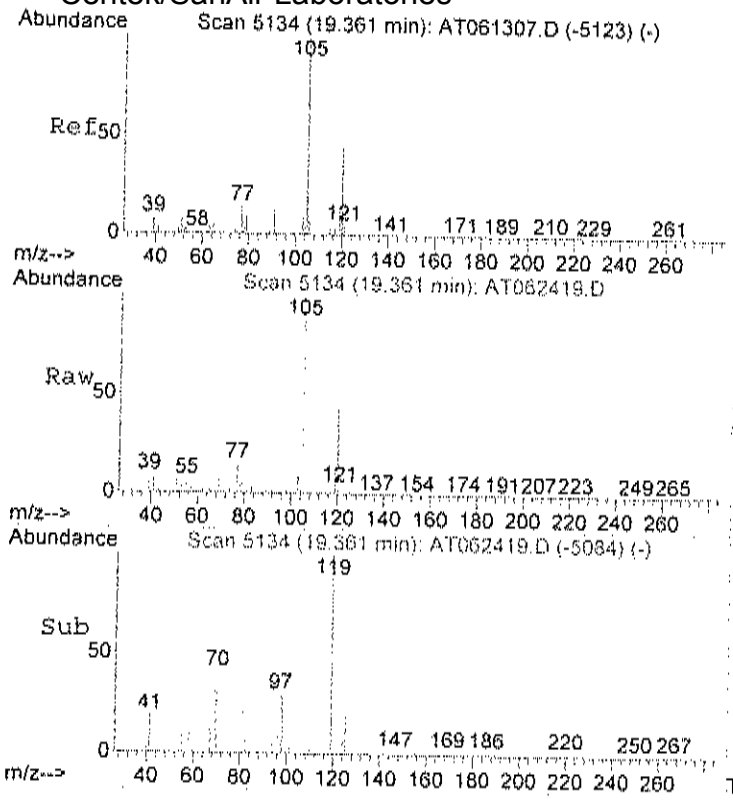


#69
4-ethyltoluene
Concen: 1.11 ppb m
RT: 19.29 min Scan# 5110
Delta R.T. -0.00 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion:105 Resp: 246922

Ion	Ratio	Lower	Upper
105	100		
120	72.3	10.6	50.6#

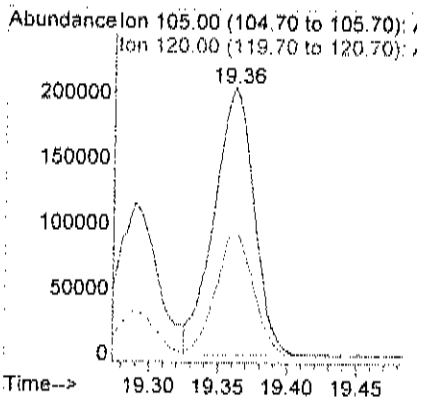


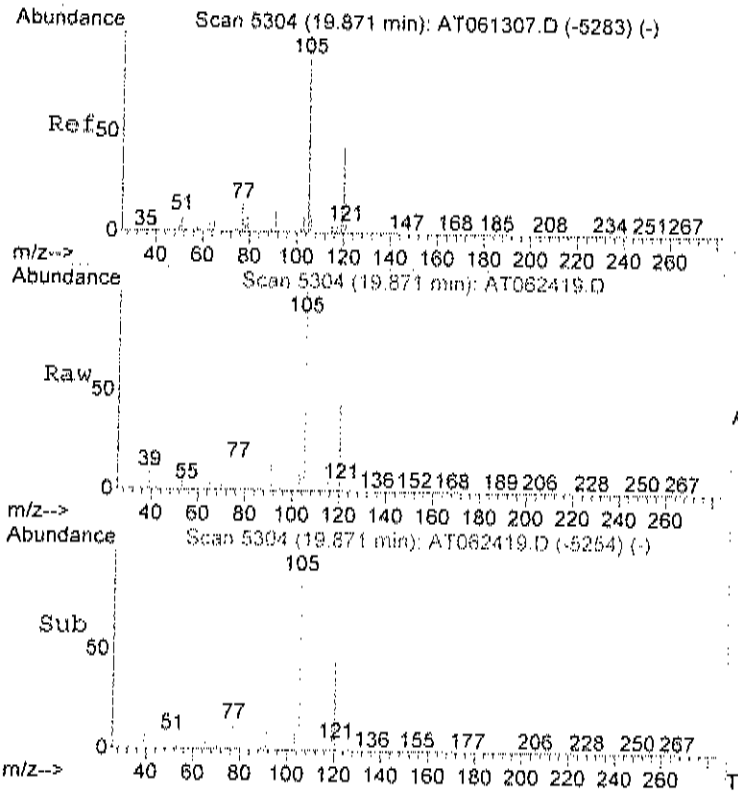


#70
1,3,5-trimethylbenzene
Concen: 2.08 ppb m
RT: 19.36 min Scan# 5134
Delta R.T. 0.00 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion:105 Resp: 412935

Ion	Ratio	Lower	Upper
105	100		
120	43.2	26.2	66.2

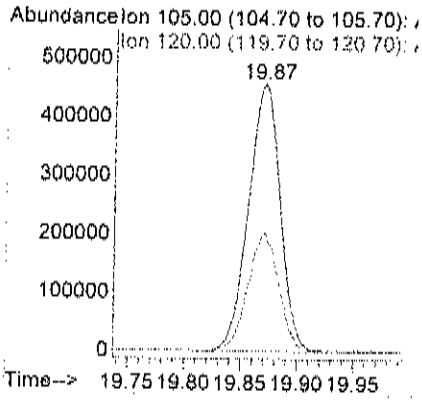


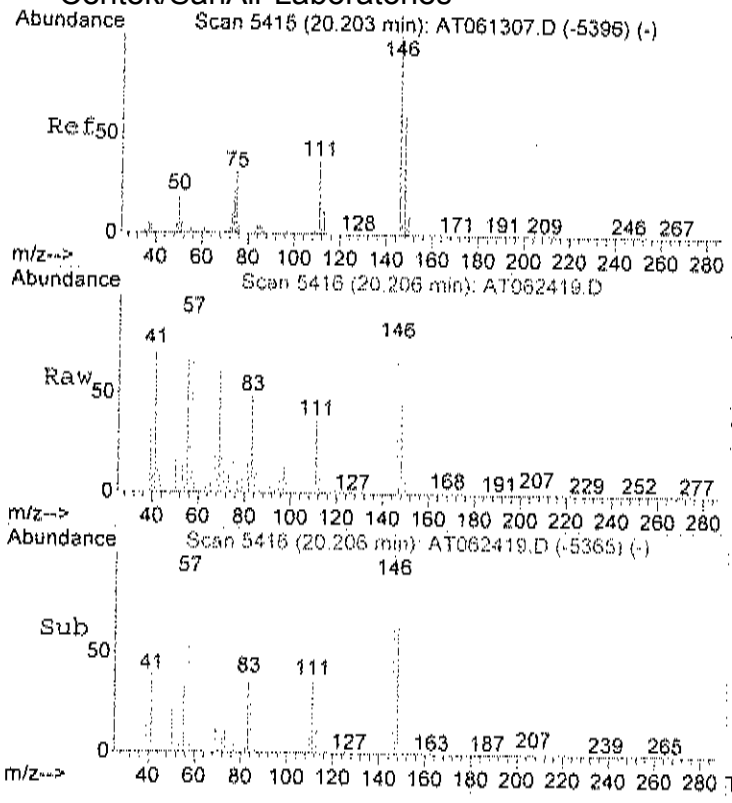


#71
1,2,4-trimethylbenzene
Concen: 4.64 ppb
RT: 19.87 min Scan# 5304
Delta R.T. 0.00 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion:105 Resp: 893779

Ion	Ratio	Lower	Upper
105	100		
120	43.6	23.8	63.8

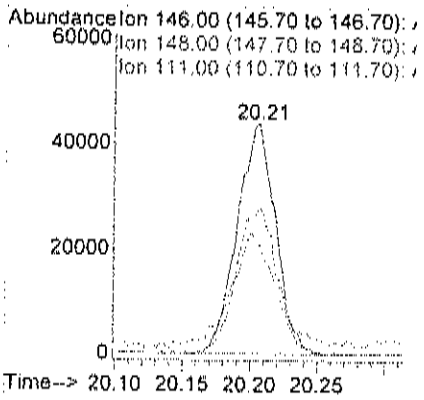


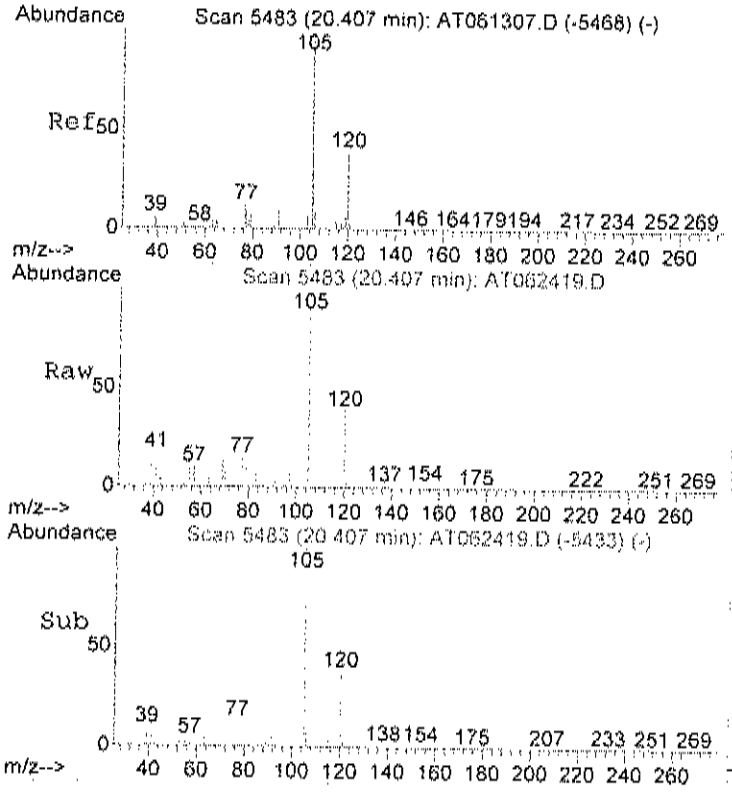


#72
1,3-dichlorobenzene
Concen: 0.70 ppb
RT: 20.21 min Scan# 5416
Delta R.T. 0.00 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion:146 Resp: 87122

Ion	Ratio	Lower	Upper
146	100		
148	66.9	44.9	84.9
111	56.9	19.7	59.7

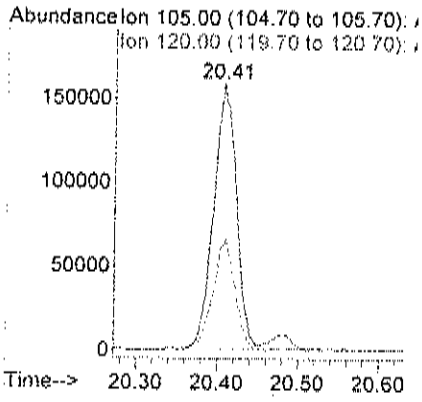




#75
1,2,3-trimethylbenzene
Concen: 1.62 ppb
RT: 20.41 min Scan# 5483
Delta R.T. 0.00 min
Lab File: AT062419.D
Acq: 24 Jun 2022 11:47 pm

Tgt Ion:105 Resp: 320649

Ion	Ratio	Lower	Upper
105	100		
120	40.2	30.7	51.1



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062907.D
Acq On : 29 Jun 2022 2:17 pm
Sample : C2206048-010A 10X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 30 07:33:13 2022

Vial: 7
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.69	128	22369	1.00	ppb	0.00
35) 1,4-difluorobenzene	11.99	114	92245	1.00	ppb	0.00
50) Chlorobenzene-d5	16.82	117	88849	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.56	95	62385	0.97	ppb	-0.05
Spiked Amount 1.000	Range 70 - 130		Recovery = 97.00%			
Target Compounds						Qvalue
15) Acetone	5.90	58	237186	18.23	ppb	# 31
21) Methylene chloride	6.96	84	10637	0.37	ppb	93
23) Carbon disulfide	7.11	76	652865	7.72	ppb	99
28) Methyl Ethyl Ketone	8.79	72	14538	1.31	ppb	# 100
33) Tetrahydrofuran	10.02	42	14642	0.75	ppb	98
39) Benzene	11.29	78	12965	0.20	ppb	97
51) Toluene	14.77	92	25430	0.48	ppb	94
52) Methyl Isobutyl Ketone	13.82	43	2378340	50.73	ppb	96
59) m&p-xylene	17.33	91	34785	0.35	ppb	98
63) o-xylene	17.85	91	24535	0.23	ppb	98
70) 1,3,5-trimethylbenzene	19.29	105	22991	0.19	ppb	90
71) 1,2,4-trimethylbenzene	19.78	105	46445	0.39	ppb	98

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

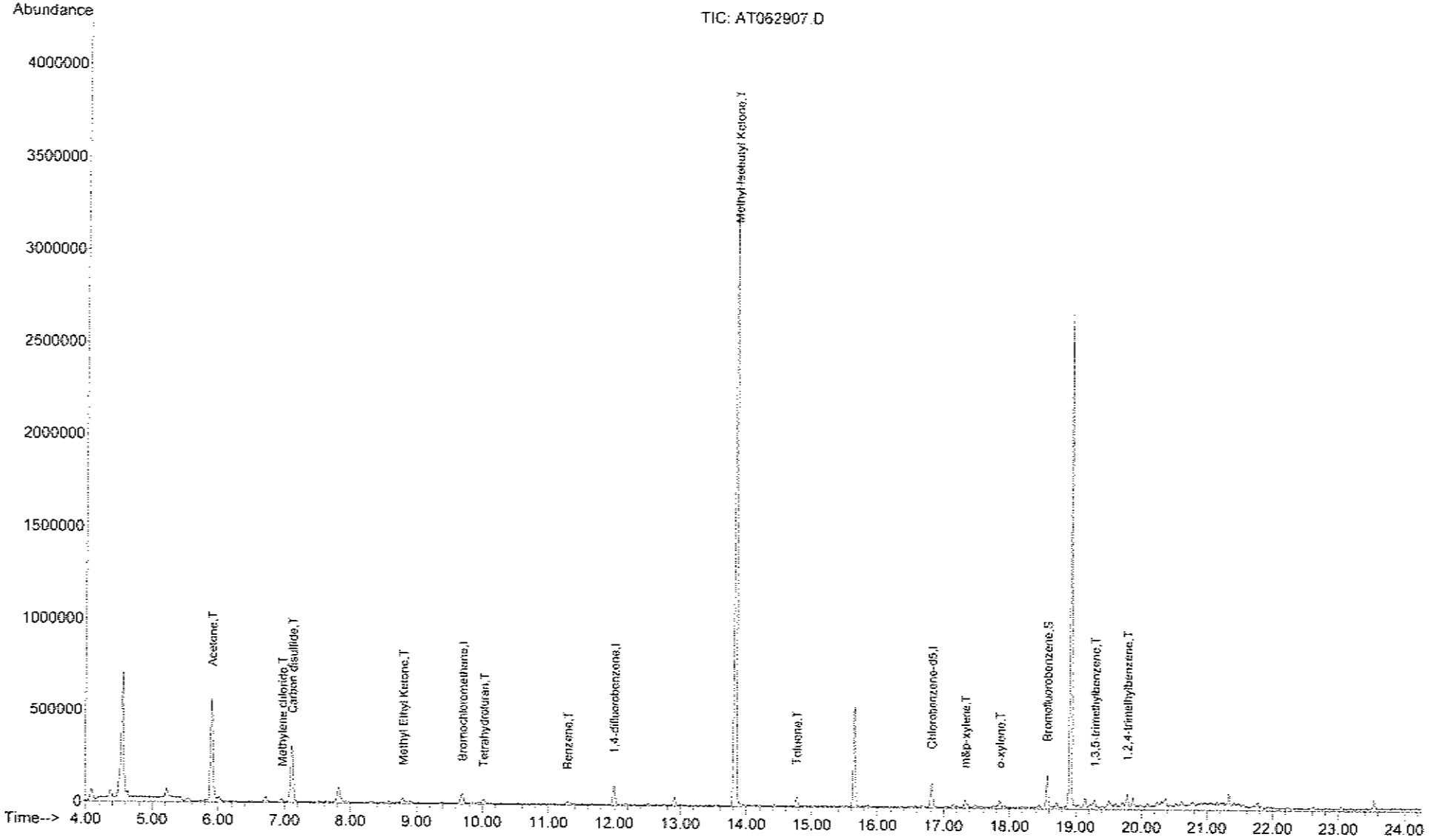
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062907.D
Acq On : 29 Jun 2022 2:17 pm
Sample : C2206048-010A 10X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 30 8:05 2022

Vial: 7
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

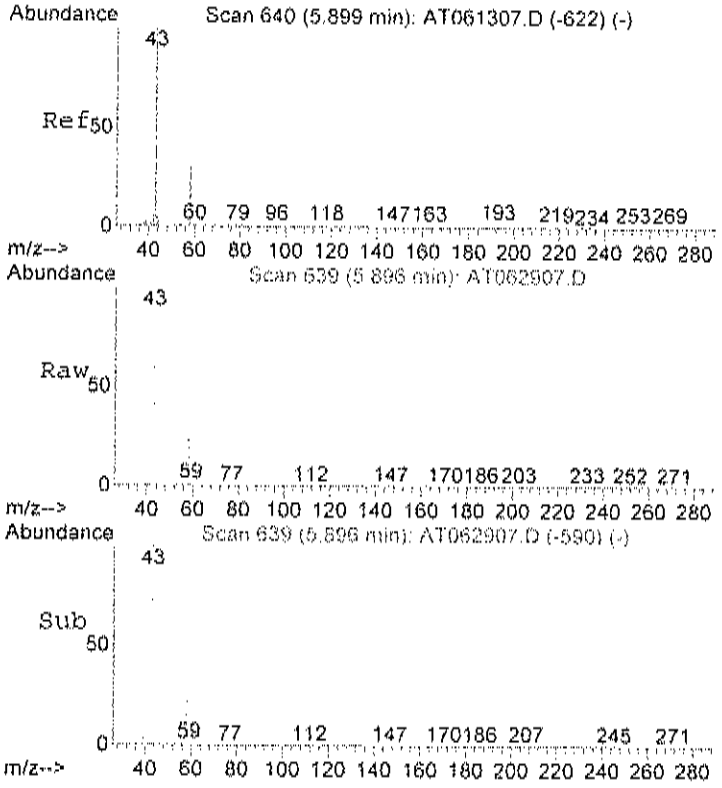
Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



AT062907.D A613_1UG.M Thu Jul 07 07:40:40 2022 MSD1

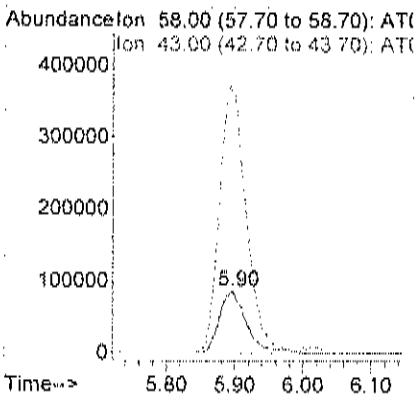
Centek/SanAir Laboratories

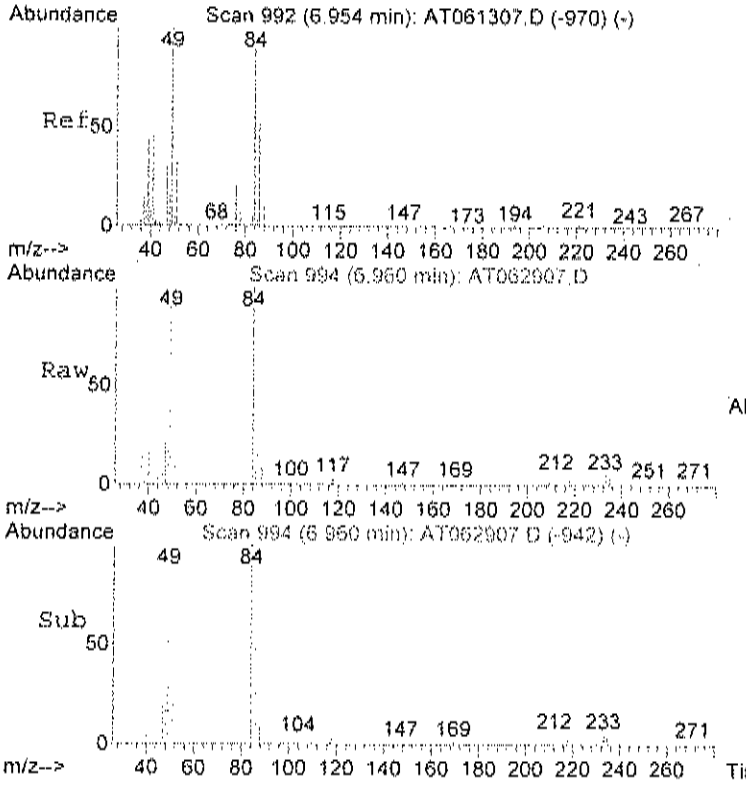


#15
Acetone
Concen: 18.23 ppb
RT: 5.90 min Scan# 639
Delta R.T. -0.00 min
Lab File: AT062907.D
Acq: 29 Jun 2022 2:17 pm

Tgt Ion: 58 Resp: 237186

Ion	Ratio	Lower	Upper
58	100		
43	433.2	268.9	328.9#

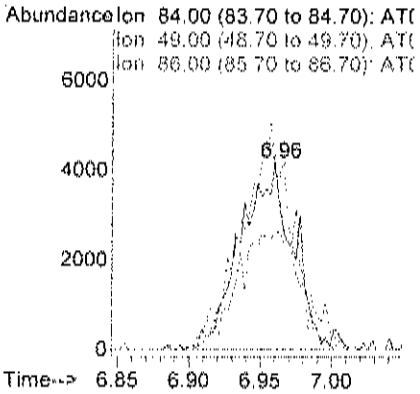


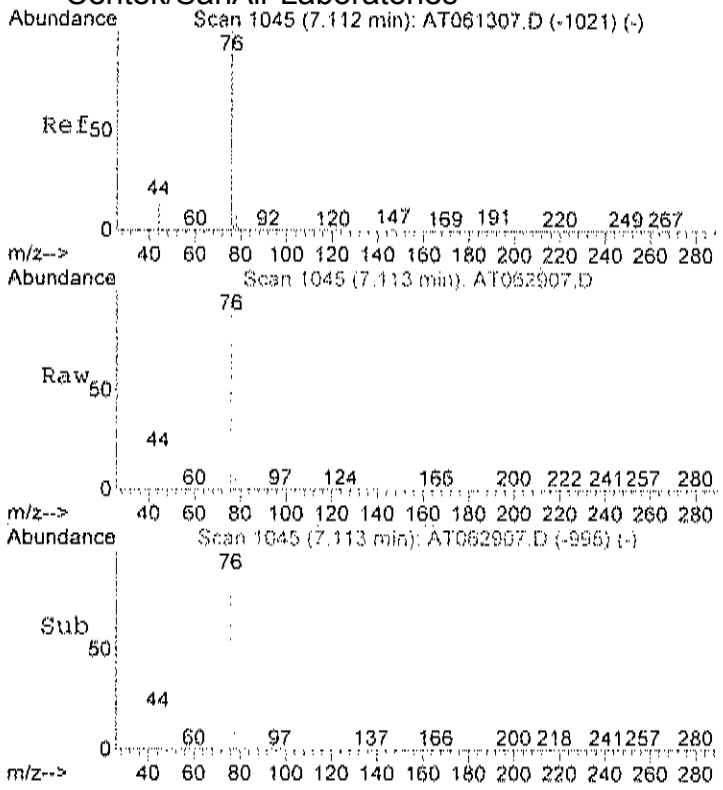


#21
Methylene chloride
Concen: 0.37 ppb
RT: 6.96 min Scan# 994
Delta R.T. 0.01 min
Lab File: AT062907.D
Acq: 29 Jun 2022 2:17 pm

Tgt Ion: 84 Resp: 10637

Ion	Ratio	Lower	Upper
84	100		
49	120.0	93.2	133.2
86	72.9	46.4	86.4

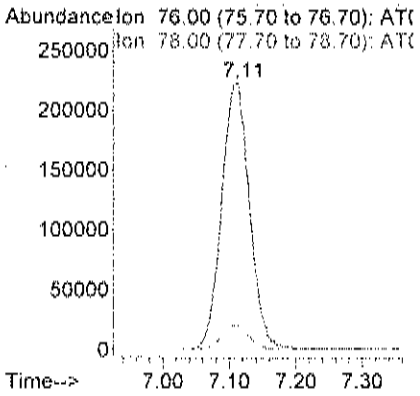


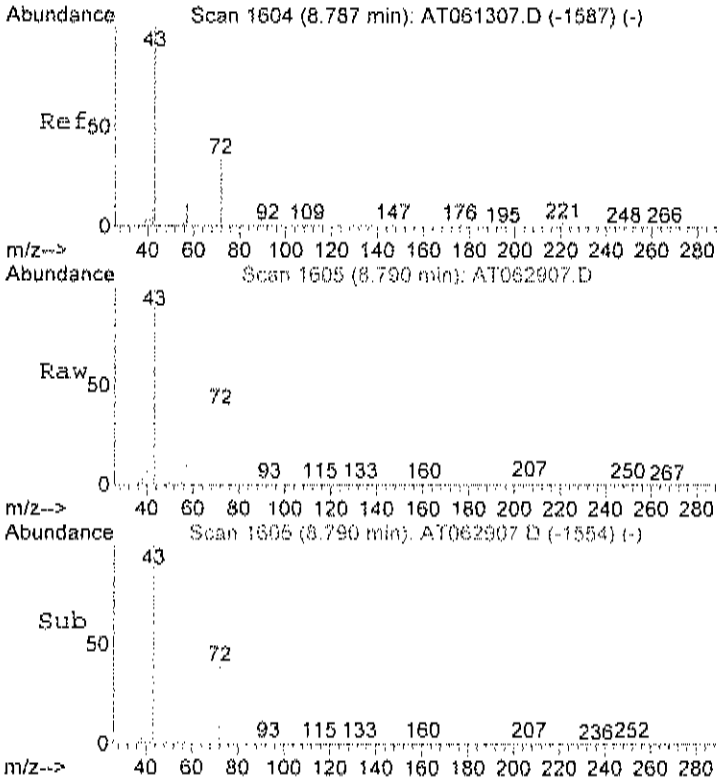


#23
Carbon disulfide
Concen: 7.72 ppb
RT: 7.11 min Scan# 1045
Delta R.T. 0.00 min
Lab File: AT062907.D
Acq: 29 Jun 2022 2:17 pm

Tgt Ion: 76 Resp: 652865

Ion	Ratio	Lower	Upper
76	100		
78	9.3	0.0	29.7

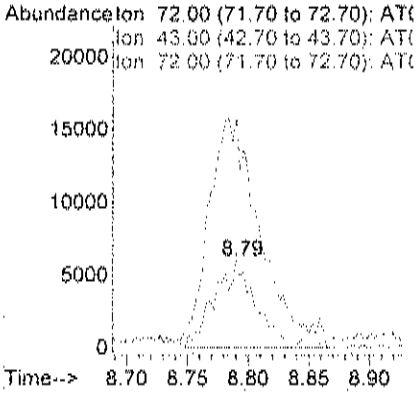


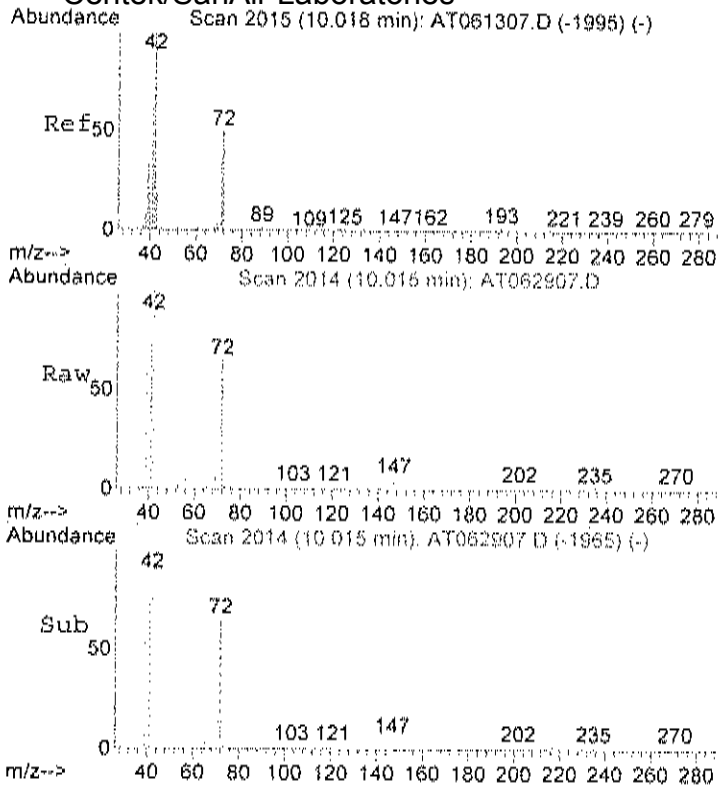


#28
Methyl Ethyl Ketone
Concen: 1.31 ppb
RT: 8.79 min Scan# 1605
Delta R.T. 0.00 min
Lab File: AT062907.D
Acq: 29 Jun 2022 2:17 pm

Tgt Ion: 72 Resp: 14538

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

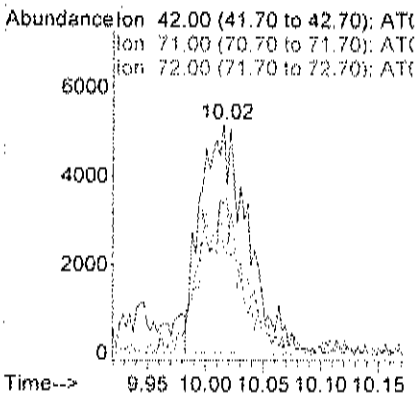


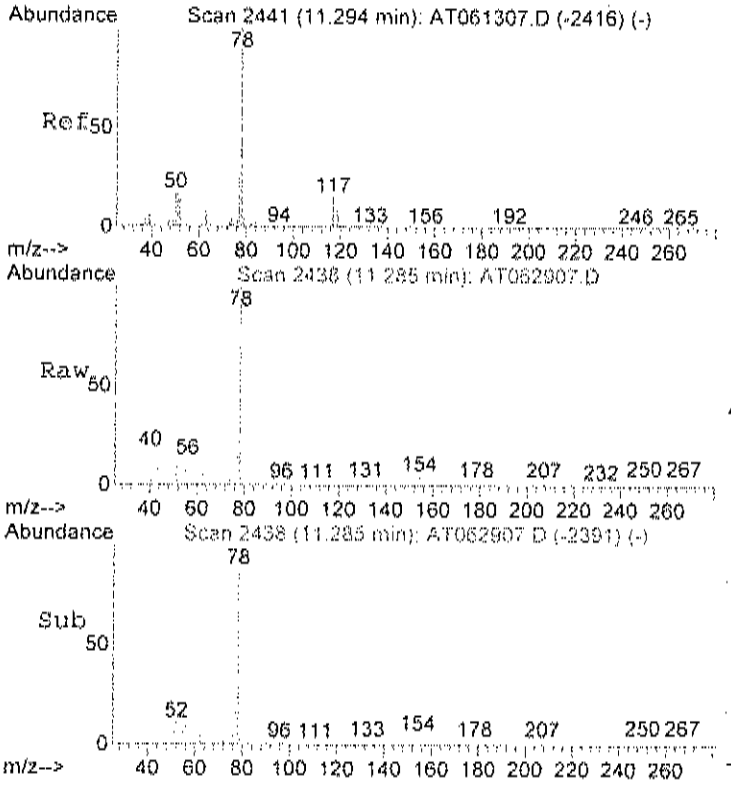


#33
Tetrahydrofuran
Concen: 0.75 ppb
RT: 10.02 min Scan# 2014
Delta R.T. -0.00 min
Lab File: AT062907.D
Acq: 29 Jun 2022 2:17 pm

Tgt Ion: 42 Resp: 14642

Ion	Ratio	Lower	Upper
42	100		
71	58.7	38.0	78.0
72	57.9	35.0	75.0

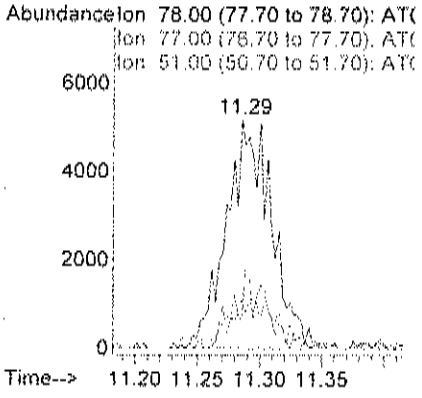


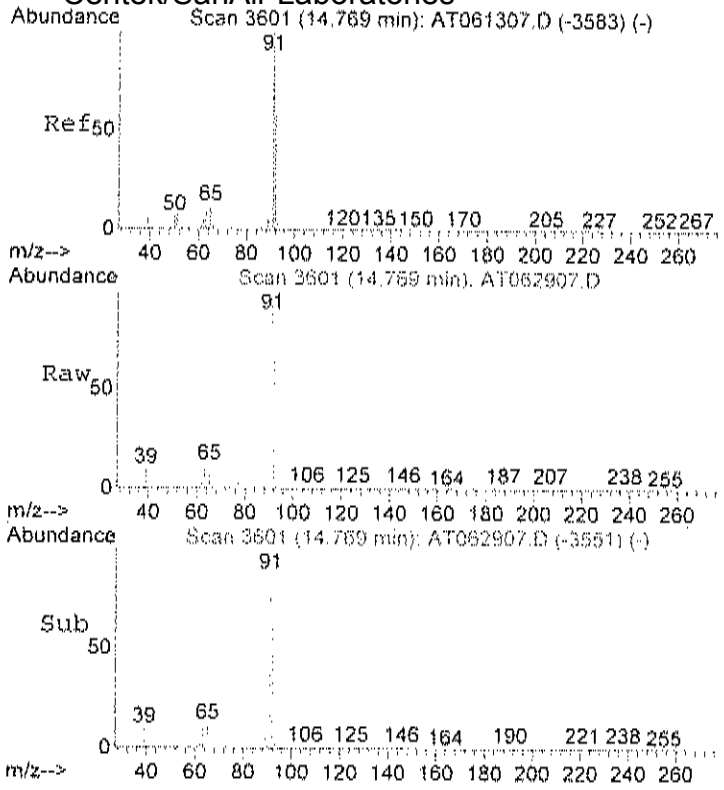


#39
Benzene
Concen: 0.20 ppb
RT: 11.29 min Scan# 2438
Delta R.T. -0.01 min
Lab File: AT062907.D
Acq: 29 Jun 2022 2:17 pm

Tgt Ion: 78 Resp: 12965

Ion	Ratio	Lower	Upper
78	100		
77	21.4	3.1	43.1
51	16.4	0.0	37.8

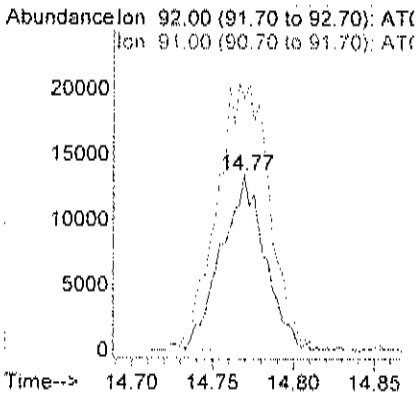


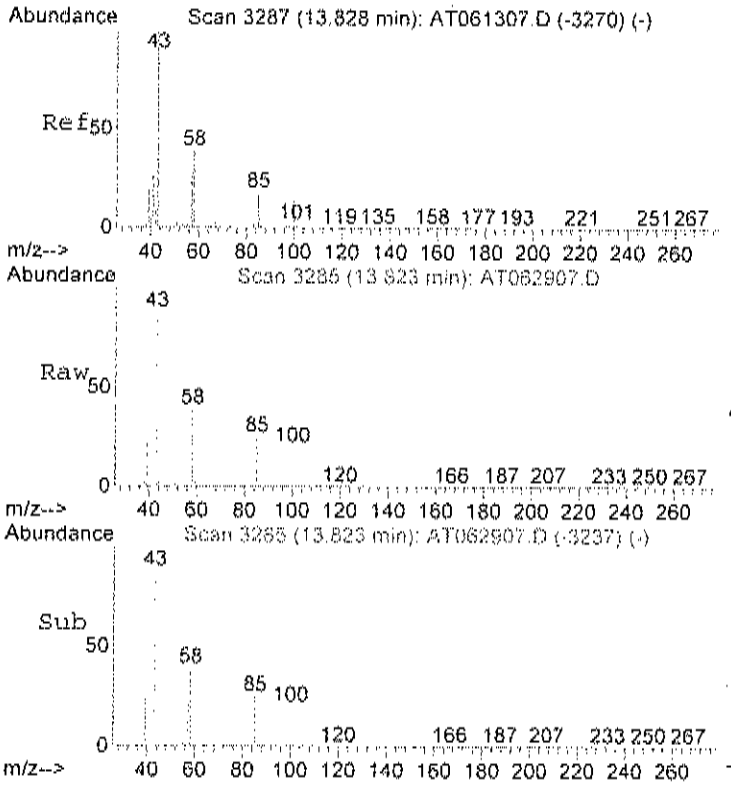


#51
Toluene
Concen: 0.48 ppb
RT: 14.77 min Scan# 3601
Delta R.T. 0.00 min
Lab File: AT062907.D
Acq: 29 Jun 2022 2:17 pm

Tgt Ion: 92 Resp: 25430

Ion	Ratio	Lower	Upper
92	100		
91	182.4	154.4	194.4

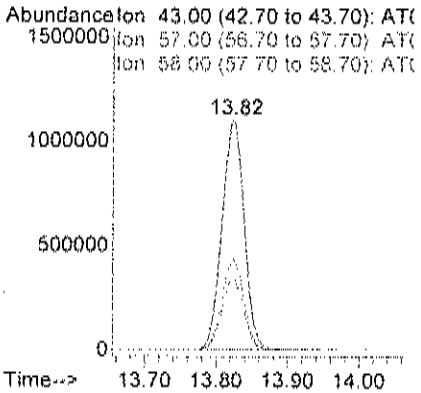


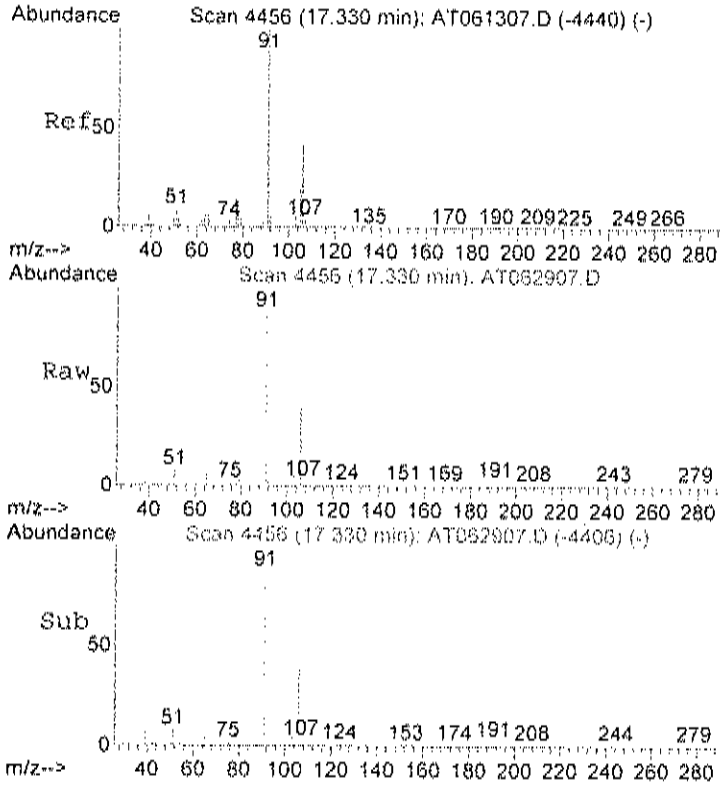


#52
Methyl Isobutyl Ketone
Concen: 50.73 ppb
RT: 13.82 min Scan# 3285
Delta R.T. -0.01 min
Lab File: AT062907.D
Acq: 29 Jun 2022 2:17 pm

Tgt Ion: 43 Resp: 2378340

Ion	Ratio	Lower	Upper
43	100		
57	30.7	9.3	49.3
58	38.9	22.0	62.0

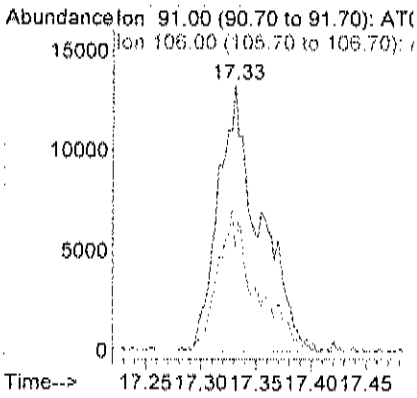


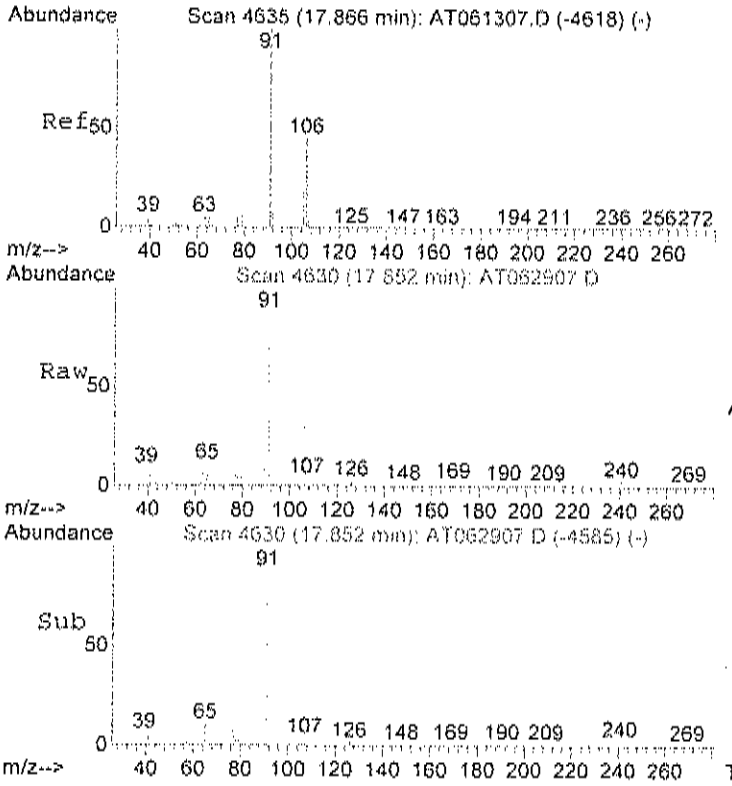


#59
m&p-xylene
Concen: 0.35 ppb
RT: 17.33 min Scan# 4456
Delta R.T. 0.00 min
Lab File: AT062907.D
Acq: 29 Jun 2022 2:17 pm

Tgt Ion: 91 Resp: 34785

Ion	Ratio	Lower	Upper
91	100		
106	49.0	27.9	67.9

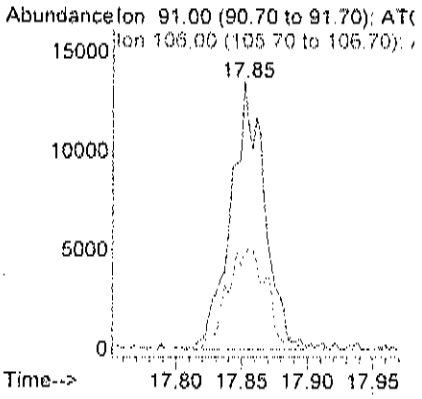


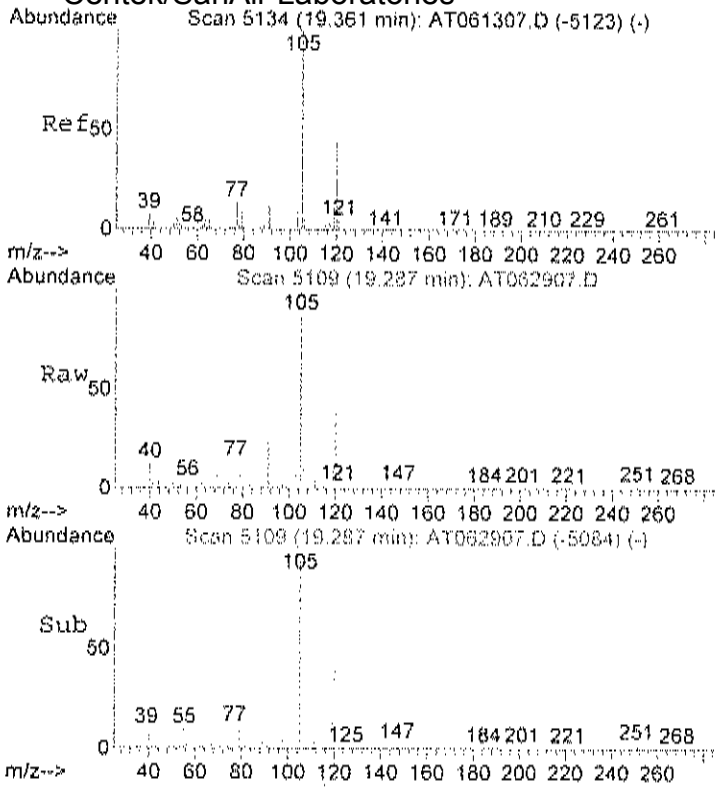


#63
o-xylene
Concen: 0.23 ppb
RT: 17.85 min Scan# 4630
Delta R.T. -0.01 min
Lab File: AT062907.D
Acq: 29 Jun 2022 2:17 pm

Tgt Ion: 91 Resp: 24535

Ion	Ratio	Lower	Upper
91	100		
106	43.6	25.1	65.1

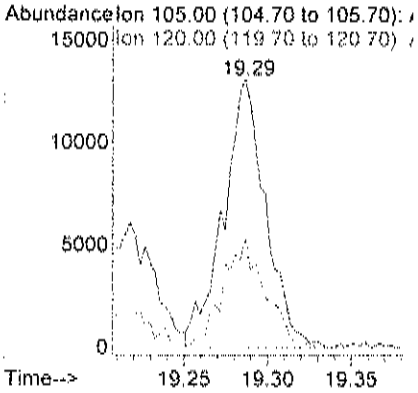


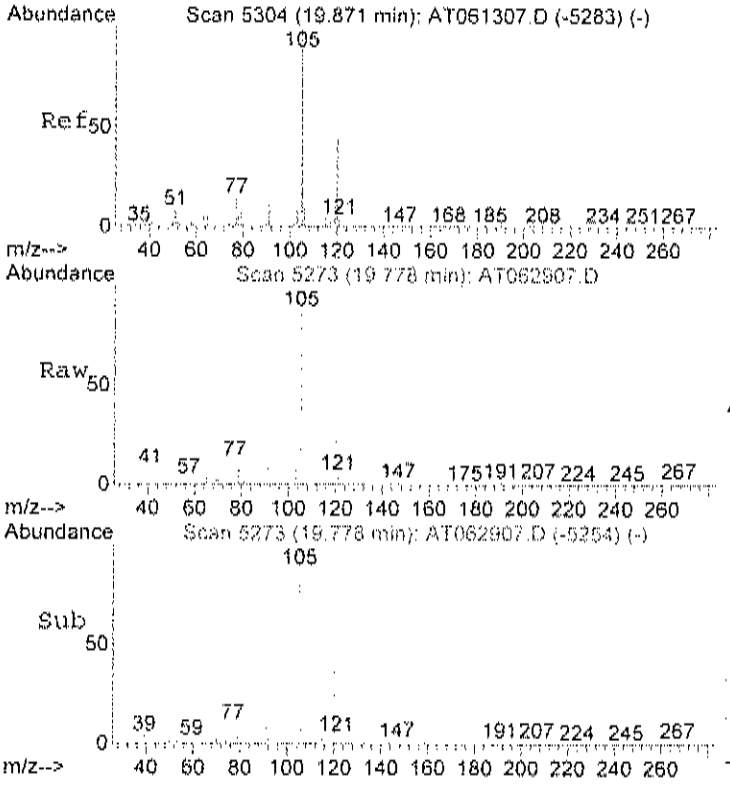


#70
1,3,5-trimethylbenzene
Concen: 0.19 ppb
RT: 19.29 min Scan# 5109
Delta R.T. -0.07 min
Lab File: AT062907.D
Acq: 29 Jun 2022 2:17 pm

Tgt Ion:105 Resp: 22991

Ion	Ratio	Lower	Upper
105	100		
120	39.7	26.2	66.2

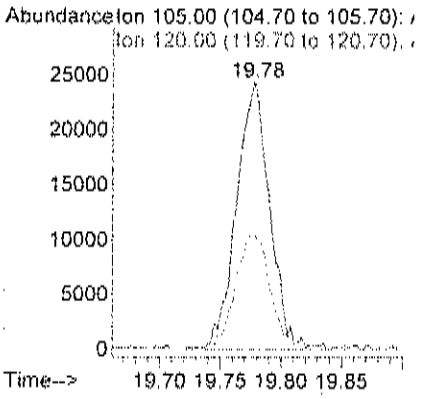




#71
1,2,4-trimethylbenzene
Concen: 0.39 ppb
RT: 19.78 min Scan# 5273
Delta R.T. -0.09 min
Lab File: AT062907.D
Acq: 29 Jun 2022 2:17 pm

Tgt Ion:105 Resp: 46445

Ion	Ratio	Lower	Upper
105	100		
120	45.1	23.8	63.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062728.D
Acq On : 28 Jun 2022 5:47 am
Sample : C2206048-010A 40X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 28 07:18:47 2022

Vial: 28
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.70	128	25942	1.00	ppb	0.02
35) 1,4-difluorobenzene	12.00	114	112173	1.00	ppb	0.00
50) Chlorobenzene-d5	16.82	117	101575	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.62	95	62381	0.85	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 85.00%			
Target Compounds						Qvalue
15) Acetone	5.91	58	100715	6.68	ppb	# 75
23) Carbon disulfide	7.12	76	190322	1.94	ppb	100
52) Methyl Isobutyl Ketone	13.83	43	454870	8.49	ppb	96

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

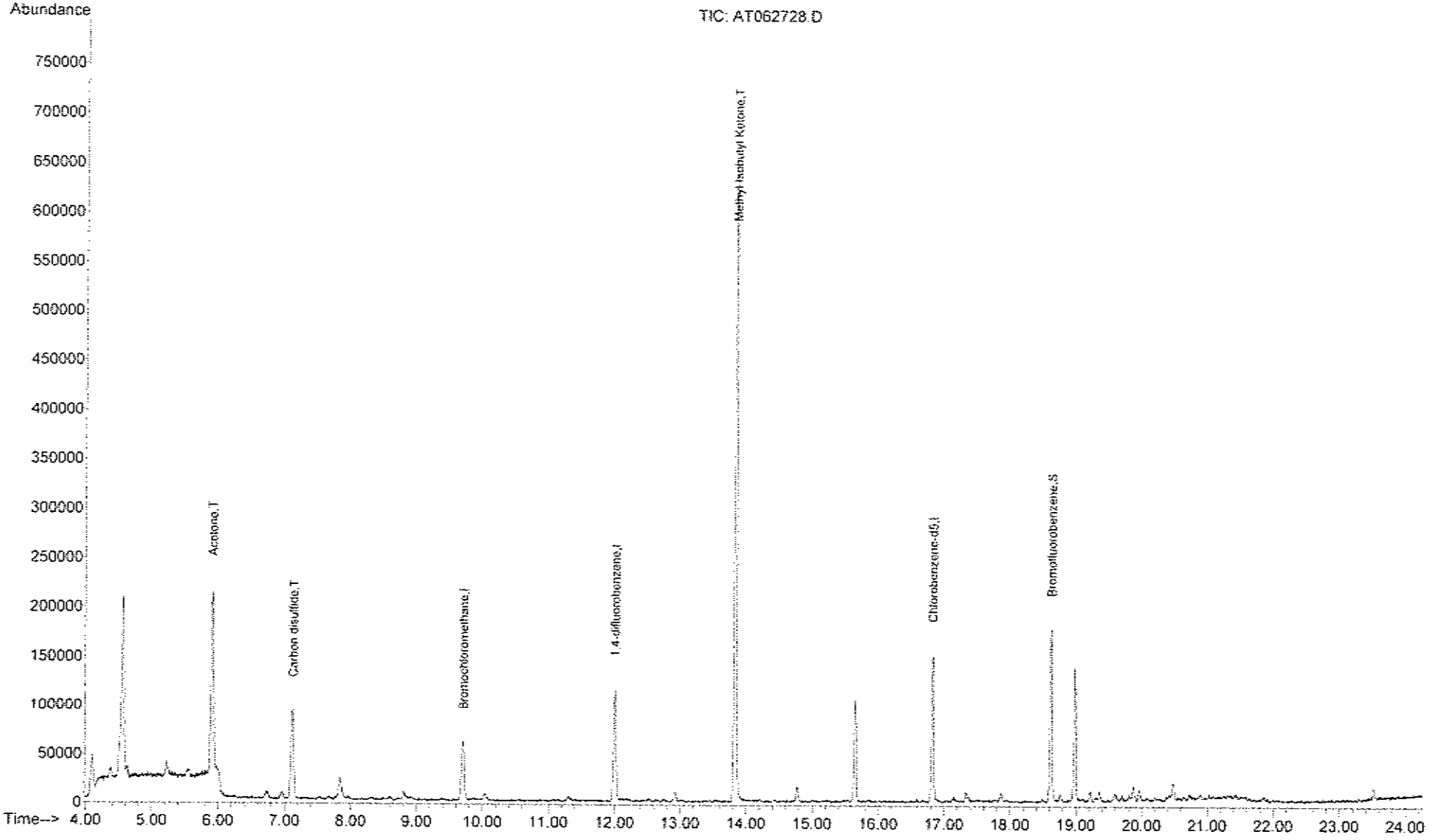
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062728.D
Acq On : 28 Jun 2022 5:47 am
Sample : C2206048-010A 40X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 29 14:54 2022

Vial: 28
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

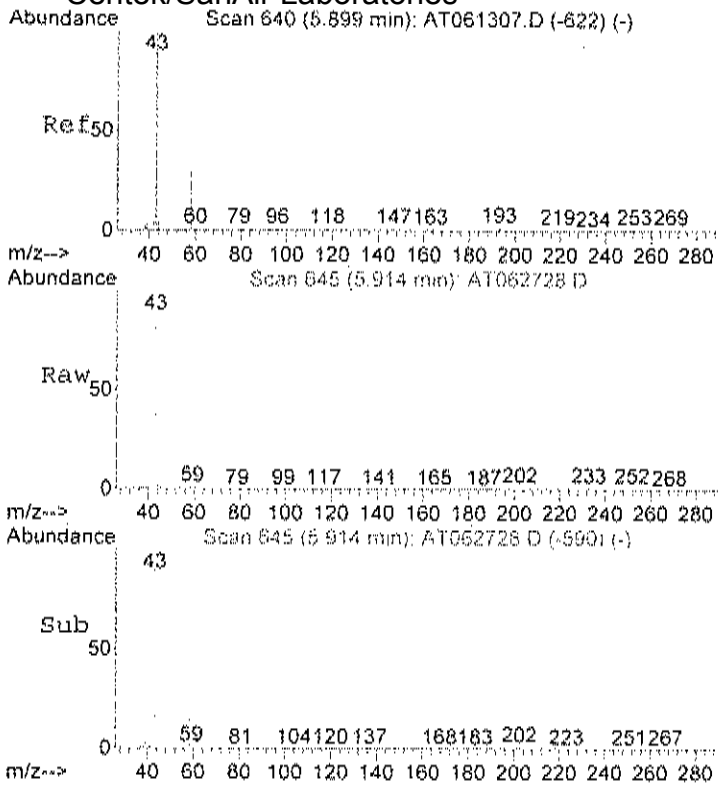
Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



AT062728.D A613_1UG.M Thu Jul 07 07:39:51 2022 MSD1

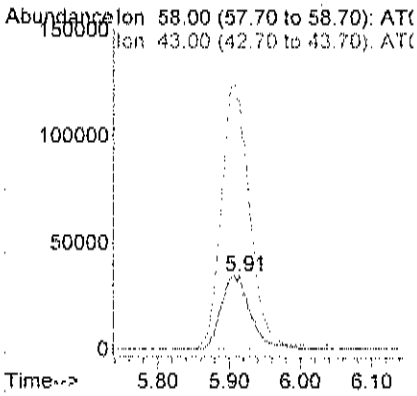
Centek/SanAir Laboratories

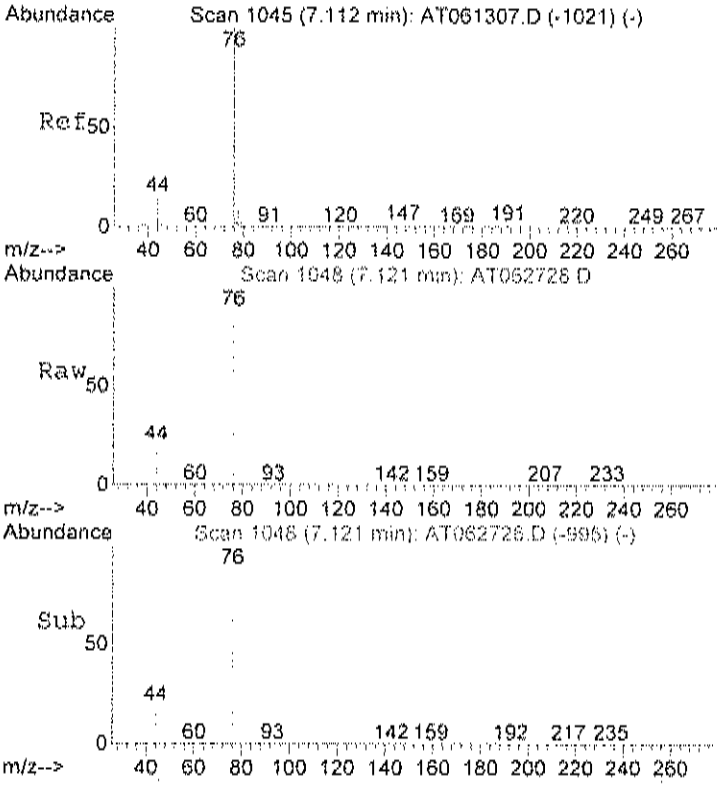


#15
Acetone
Concen: 6.68 ppb
RT: 5.91 min Scan# 645
Delta R.T. 0.01 min
Lab File: AT062728.D
Acq: 28 Jun 2022 5:47 am

Tgt Ion: 58 Resp: 100715

Ion	Ratio	Lower	Upper
58	100		
43	347.5	268.9	328.9#

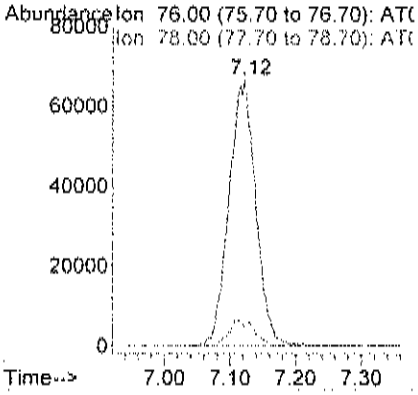


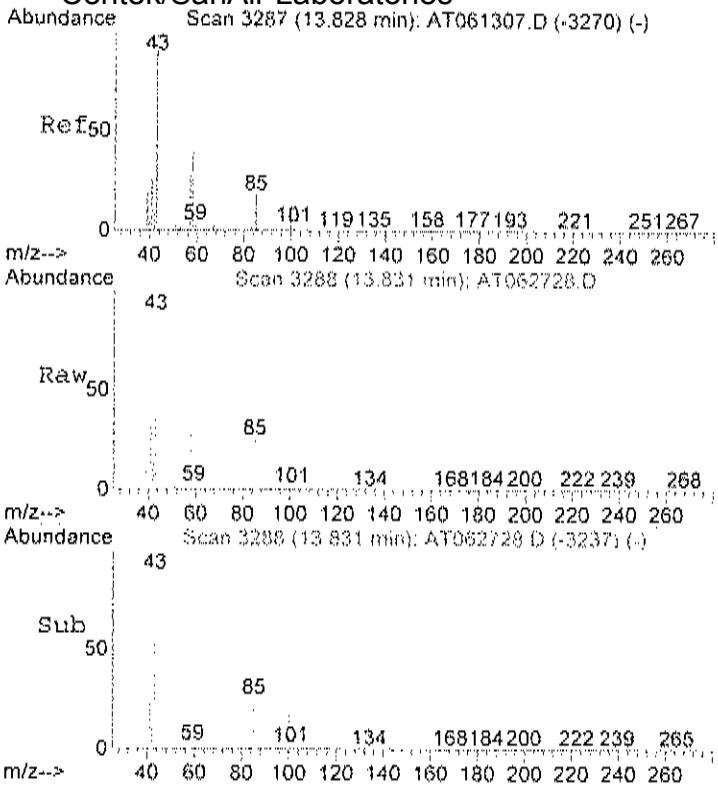


#23
Carbon disulfide
Concen: 1.94 ppb
RT: 7.12 min Scan# 1048
Delta R.T. 0.01 min
Lab File: AT062728.D
Acq: 28 Jun 2022 5:47 am

Tgt Ion: 76 Resp: 190322

Ion	Ratio	Lower	Upper
76	100		
78	9.6	0.0	29.7

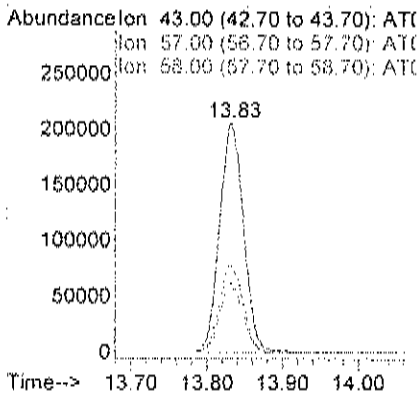




#52
Methyl Isobutyl Ketone
Concen: 8.49 ppb
RT: 13.83 min Scan# 3288
Delta R.T. 0.00 min
Lab File: AT062728.D
Acq: 28 Jun 2022 5:47 am

Tgt Ion: 43 Resp: 454870

Ion	Ratio	Lower	Upper
43	100		
57	29.0	9.3	49.3
58	37.8	22.0	62.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062908.D
Acq On : 29 Jun 2022 3:04 pm
Sample : C2206048-010A 810X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 30 07:33:14 2022

Vial: 8
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

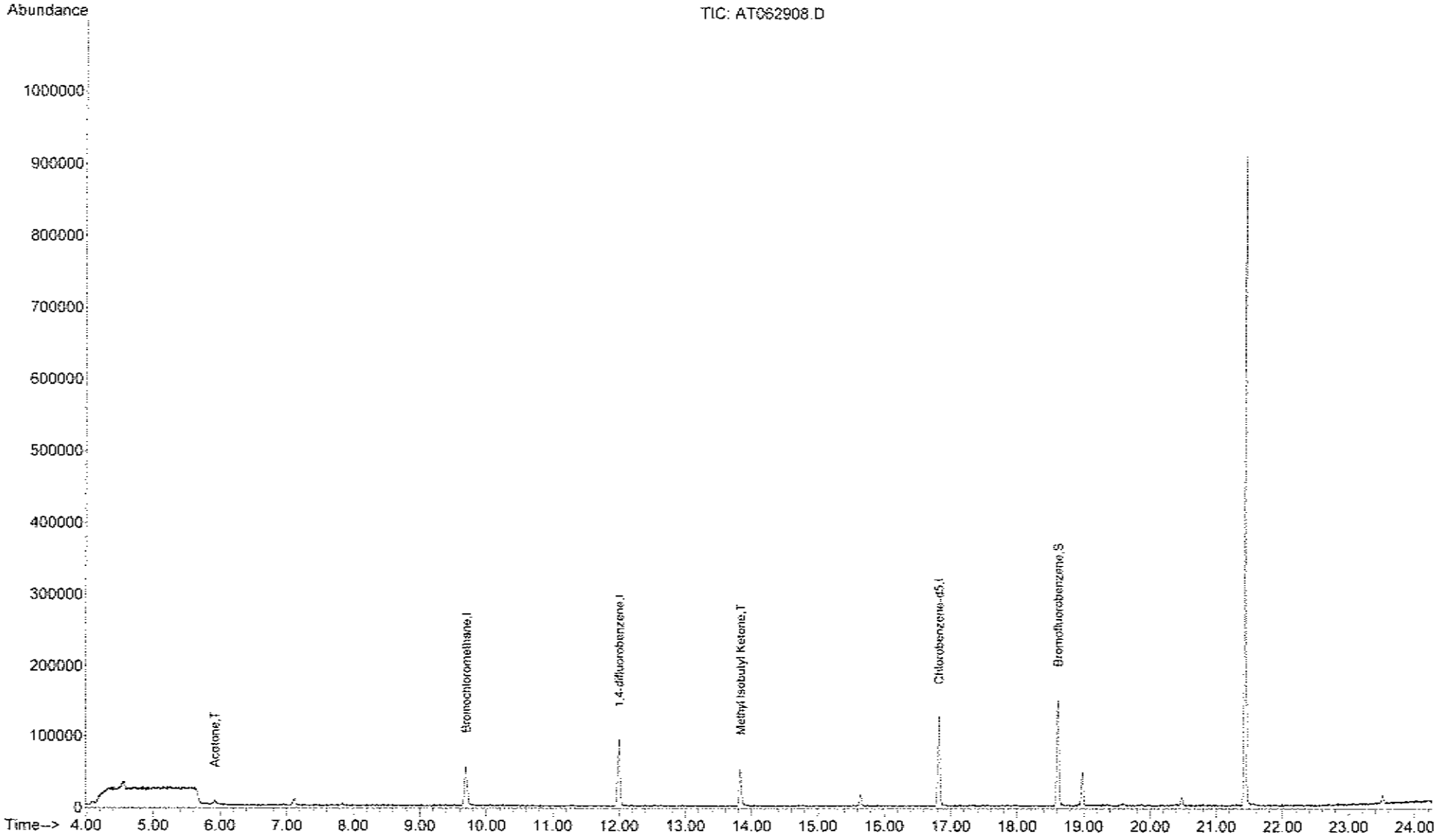
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.69	128	23160	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.00	114	96387	1.00	ppb	0.00
50) Chlorobenzene-d5	16.82	117	88259	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.61	95	52838	0.83	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 83.00%			
Target Compounds						Qvalue
15) Acetone	5.91	58	3585m	0.27	ppb	
52) Methyl Isobutyl Ketone	13.83	43	35549	0.76	ppb	95

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

Quantitation Report (QT Reviewed)

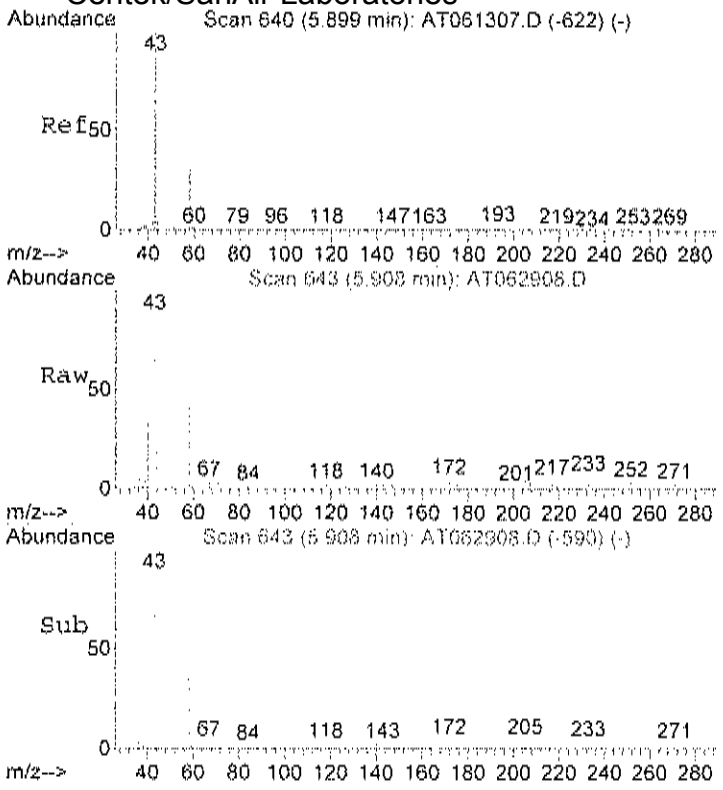
Data File : C:\HPCHEM\1\DATA\AT062908.D Vial: 8
Acq On : 29 Jun 2022 3:04 pm Operator: RJP
Sample : C2205048-010A 810X Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 8:06 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



AT062908.D A613_1UG.M Thu Jul 07 07:40:50 2022 MSD1 Page 2

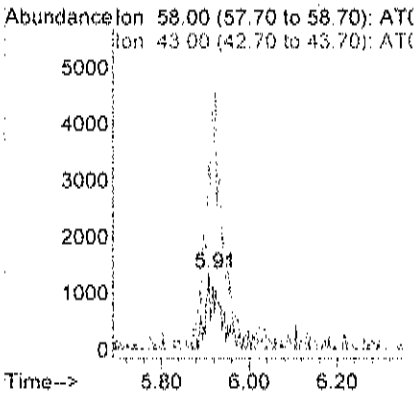
Centek/SanAir Laboratories

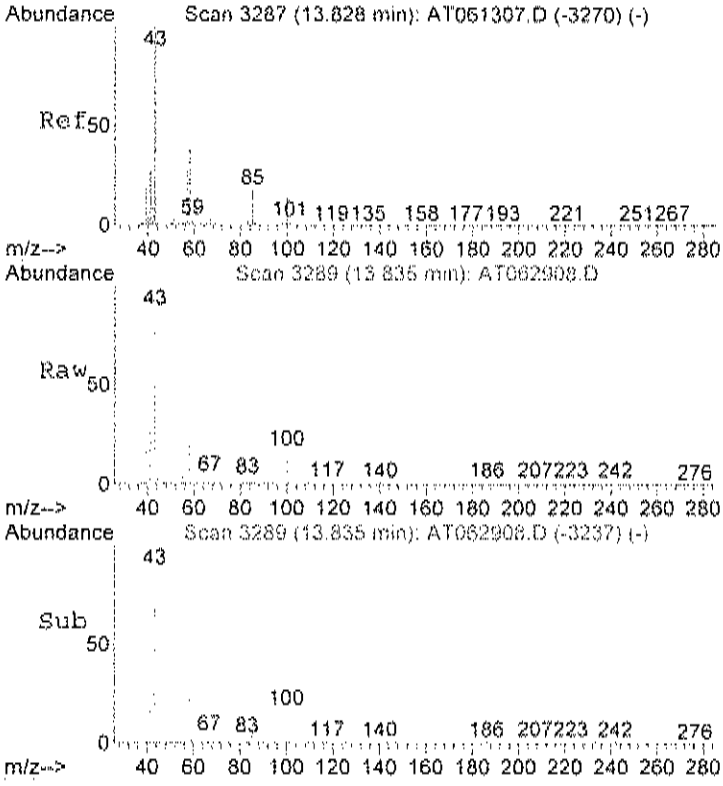


#15
Acetone
Concen: 0.27 ppb m
RT: 5.91 min Scan# 643
Delta R.T. 0.01 min
Lab File: AT062908.D
Acq: 29 Jun 2022 3:04 pm

Tgt Ion: 58 Resp: 3585

Ion	Ratio	Lower	Upper
58	100		
43	0.0	268.9	328.9#

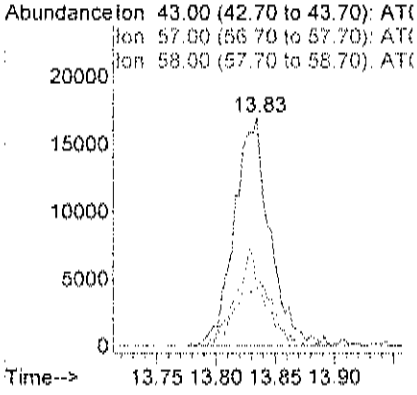




#52
Methyl Isobutyl Ketone
Concen: 0.76 ppb
RT: 13.83 min Scan# 3289
Delta R.T. 0.01 min
Lab File: AT062908.D
Acq: 29 Jun 2022 3:04 pm

Tgt Ion: 43 Resp: 35549

Ion	Ratio	Lower	Upper
43	100		
57	27.9	9.3	49.3
58	37.6	22.0	62.0



Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-011A

Client Sample ID: SVW-10
Tag Number: 162,80
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	0			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: NP
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.48	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,2,4-Trimethylbenzene	0.21	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,3-Dichlorobenzene	0.16	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/25/2022 12:31:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Acetone	21	6.0		ppbV	20	6/28/2022 7:11:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Benzene	0.33	0.15		ppbV	1	6/25/2022 12:31:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Bromodichloromethane	0.13	0.15	J	ppbV	1	6/25/2022 12:31:00 AM
Bromoform	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Carbon disulfide	7.0	3.0		ppbV	20	6/28/2022 7:11:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Chloroform	32	3.0		ppbV	20	6/28/2022 7:11:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM

Qualifiers:

- `*` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-011A

Client Sample ID: SVW-10
Tag Number: 162,80
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Ethyl acetate	0.44	0.15		ppbV	1	6/25/2022 12:31:00 AM
Ethylbenzene	0.12	0.15	J	ppbV	1	6/25/2022 12:31:00 AM
Freon 11	0.34	0.15		ppbV	1	6/25/2022 12:31:00 AM
Freon 113	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Freon 114	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Freon 12	0.51	0.15		ppbV	1	6/25/2022 12:31:00 AM
Heptane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Hexane	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
m&p-Xylene	0.42	0.30		ppbV	1	6/25/2022 12:31:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/25/2022 12:31:00 AM
Methyl Ethyl Ketone	1.2	0.30		ppbV	1	6/25/2022 12:31:00 AM
Methyl Isobutyl Ketone	0.76	0.30		ppbV	1	6/25/2022 12:31:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Methylene chloride	0.32	0.15		ppbV	1	6/25/2022 12:31:00 AM
o-Xylene	0.18	0.15		ppbV	1	6/25/2022 12:31:00 AM
Propylene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Styrene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Tetrachloroethylene	0.30	0.15		ppbV	1	6/25/2022 12:31:00 AM
Tetrahydrofuran	2.4	3.0	J	ppbV	20	6/28/2022 7:11:00 AM
Toluene	1.2	0.15		ppbV	1	6/25/2022 12:31:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 12:31:00 AM
Surr: Bromofluorobenzene	95.0	46.7-129		%REC	1	6/25/2022 12:31:00 AM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte, Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-011A

Client Sample ID: SVW-10
Tag Number: 162,80
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	2.6	0.82		ug/m3	1	6/25/2022 12:31:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/25/2022 12:31:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 12:31:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 12:31:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 12:31:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/25/2022 12:31:00 AM
1,2,4-Trimethylbenzene	1.0	0.74		ug/m3	1	6/25/2022 12:31:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/25/2022 12:31:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 12:31:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 12:31:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/25/2022 12:31:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/25/2022 12:31:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/25/2022 12:31:00 AM
1,3-Dichlorobenzene	0.96	0.90		ug/m3	1	6/25/2022 12:31:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 12:31:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/25/2022 12:31:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	6/25/2022 12:31:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/25/2022 12:31:00 AM
Acetone	49	14		ug/m3	20	6/28/2022 7:11:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/25/2022 12:31:00 AM
Benzene	1.1	0.48		ug/m3	1	6/25/2022 12:31:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/25/2022 12:31:00 AM
Bromodichloromethane	0.87	1.0	J	ug/m3	1	6/25/2022 12:31:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/25/2022 12:31:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/25/2022 12:31:00 AM
Carbon disulfide	22	9.3		ug/m3	20	6/28/2022 7:11:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/25/2022 12:31:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/25/2022 12:31:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	6/25/2022 12:31:00 AM
Chloroform	160	15		ug/m3	20	6/28/2022 7:11:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	6/25/2022 12:31:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 12:31:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 12:31:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/25/2022 12:31:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/25/2022 12:31:00 AM
Ethyl acetate	1.6	0.54		ug/m3	1	6/25/2022 12:31:00 AM
Ethylbenzene	0.52	0.65	J	ug/m3	1	6/25/2022 12:31:00 AM
Freon 11	1.9	0.84		ug/m3	1	6/25/2022 12:31:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/25/2022 12:31:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/25/2022 12:31:00 AM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-011A

Client Sample ID: SVW-10
Tag Number: 162,80
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.5	0.74		ug/m3	1	6/25/2022 12:31:00 AM
Heptane	< 0.61	0.61		ug/m3	1	6/25/2022 12:31:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/25/2022 12:31:00 AM
Hexane	< 0.53	0.53		ug/m3	1	6/25/2022 12:31:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/25/2022 12:31:00 AM
m&p-Xylene	1.8	1.3		ug/m3	1	6/25/2022 12:31:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/25/2022 12:31:00 AM
Methyl Ethyl Ketone	3.5	0.88		ug/m3	1	6/25/2022 12:31:00 AM
Methyl Isobutyl Ketone	3.1	1.2		ug/m3	1	6/25/2022 12:31:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/25/2022 12:31:00 AM
Methylene chloride	1.1	0.52		ug/m3	1	6/25/2022 12:31:00 AM
o-Xylene	0.78	0.65		ug/m3	1	6/25/2022 12:31:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/25/2022 12:31:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/25/2022 12:31:00 AM
Tetrachloroethylene	2.0	1.0		ug/m3	1	6/25/2022 12:31:00 AM
Tetrahydrofuran	7.1	8.8	J	ug/m3	20	6/28/2022 7:11:00 AM
Toluene	4.7	0.57		ug/m3	1	6/25/2022 12:31:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 12:31:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 12:31:00 AM
Trichloroethene	< 0.81	0.81		ug/m3	1	6/25/2022 12:31:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/25/2022 12:31:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/25/2022 12:31:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/25/2022 12:31:00 AM

Qualifiers:

- `*` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062420.D
Acq On : 25 Jun 2022 12:31 am
Sample : C2206048-011A
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 27 11:11:48 2022

Vial: 20
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.70	128	35988	1.00	ppb		0.00
35) 1,4-difluorobenzene	12.00	114	164150	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	142271	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	98017	0.95	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%				
Target Compounds							Qvalue
3) Freon 12	4.13	85	85374	0.51	ppb		99
14) Freon 11	5.75	101	69426	0.34	ppb		99
15) Acetone	5.90	58	587084	28.05	ppb	#	80
21) Methylene chloride	6.95	84	14435	0.32	ppb		90
23) Carbon disulfide	7.11	76	824598	6.06	ppb		99
28) Methyl Ethyl Ketone	8.79	72	20946m	1.18	ppb		
31) Ethyl acetate	9.39	43	36822	0.44	ppb		96
32) Chloroform	9.86	83	3541314	31.39	ppb		99
33) Tetrahydrofuran	10.02	42	72411	2.32	ppb		98
36) 1,1,1-trichloroethane	10.68	97	49195	0.48	ppb		100
38) Carbon tetrachloride	11.34	117	10839	0.10	ppb		89
39) Benzene	11.30	78	39248	0.33	ppb		97
46) Bromodichloromethane	13.09	83	14390	0.13	ppb		99
51) Toluene	14.77	92	104413	1.24	ppb		95
52) Methyl Isobutyl Ketone	13.83	43	56766	0.76	ppb		99
56) Tetrachloroethylene	15.85	164	19776	0.30	ppb		99
58) Ethylbenzene	17.15	91	23940	0.12	ppb		97
59) m&p-xylene	17.33	91	66755	0.42	ppb		98
63) o-xylene	17.87	91	30197	0.18	ppb		100
71) 1,2,4-trimethylbenzene	19.87	105	40711	0.21	ppb		96
72) 1,3-dichlorobenzene	20.20	146	19386	0.16	ppb	#	62
75) 1,2,3-trimethylbenzene	20.41	105	34058	0.17	ppb		91

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

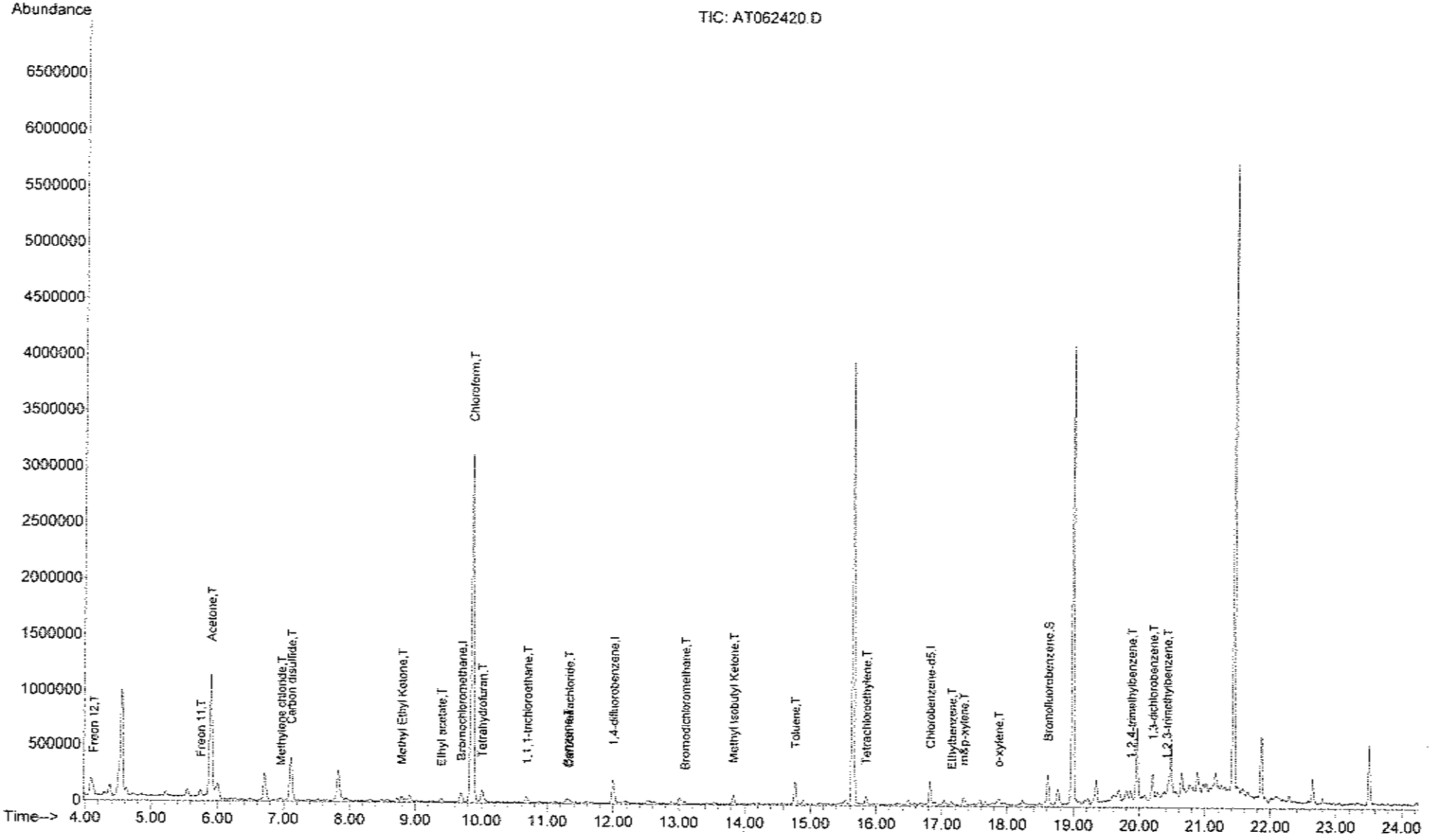
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062420.D
Acq On : 25 Jun 2022 12:31 am
Sample : C2206048-011A
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 28 14:18 2022

Vial: 20
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

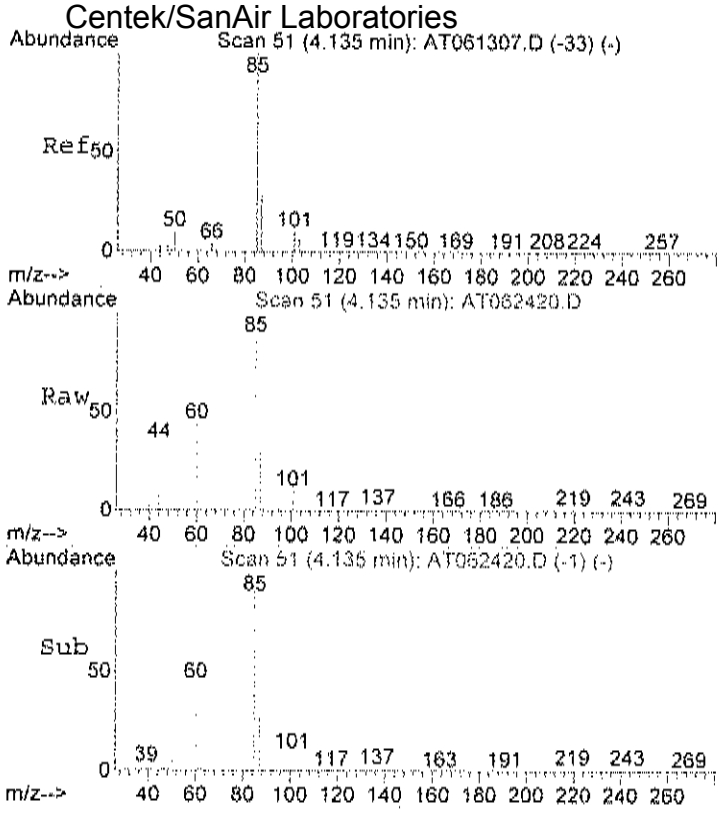
Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



AT062420.D A613_1UG.M Thu Jul 07 07:36:35 2022 MSD1

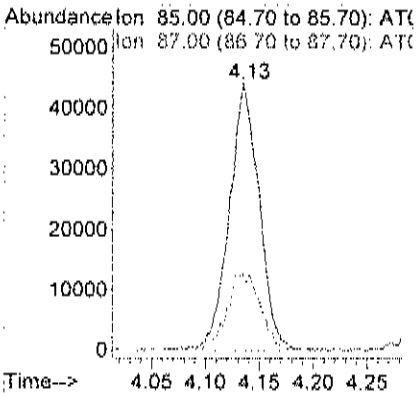
Centek/SanAir Laboratories

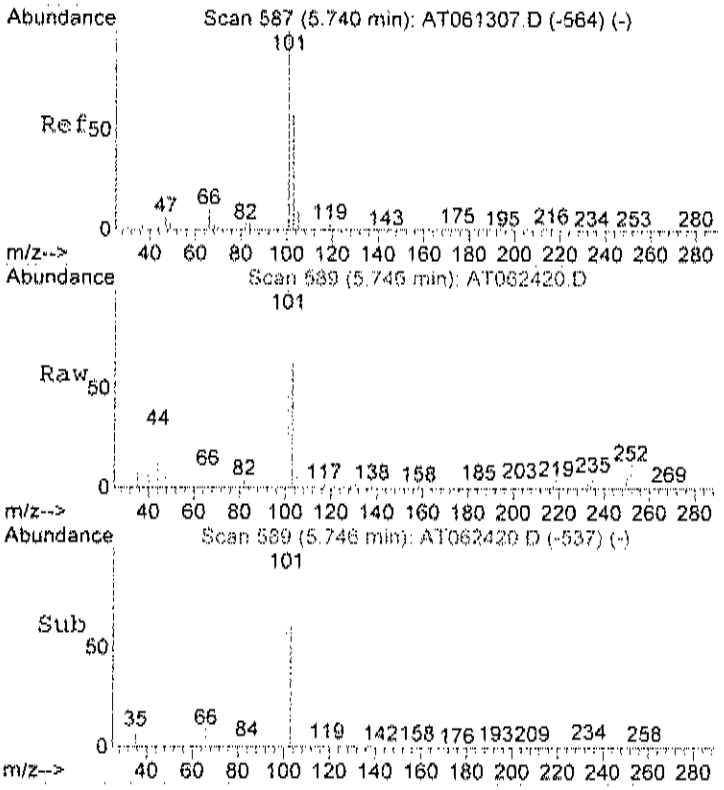


#3
Freon 12
Concen: 0.51 ppb
RT: 4.13 min Scan# 51
Delta R.T. -0.00 min
Lab File: AT062420.D
Acq: 25 Jun 2022 12:31 am

Tgt Ion: 85 Resp: 85374

Ion	Ratio	Lower	Upper
85	100		
87	32.5	12.8	52.8

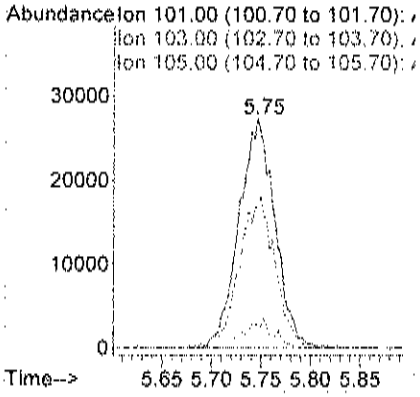


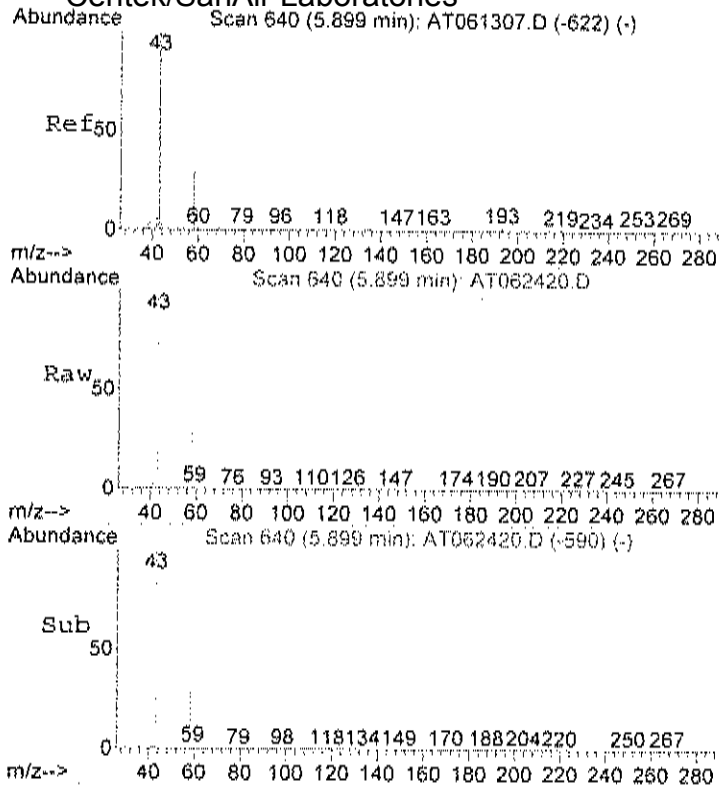


#14
Freon 11
Concen: 0.34 ppb
RT: 5.75 min Scan# 589
Delta R.T. 0.01 min
Lab File: AT062420.D
Acq: 25 Jun 2022 12:31 am

Tgt Ion:101 Resp: 69426

Ion	Ratio	Lower	Upper
101	100		
103	65.7	46.3	86.3
105	10.8	0.0	31.2

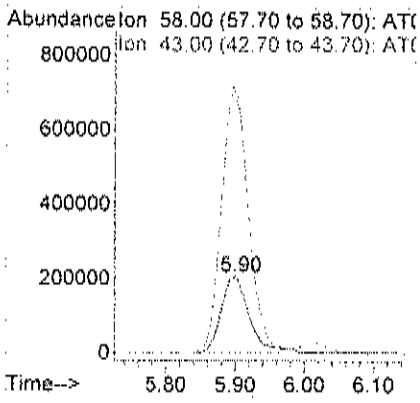


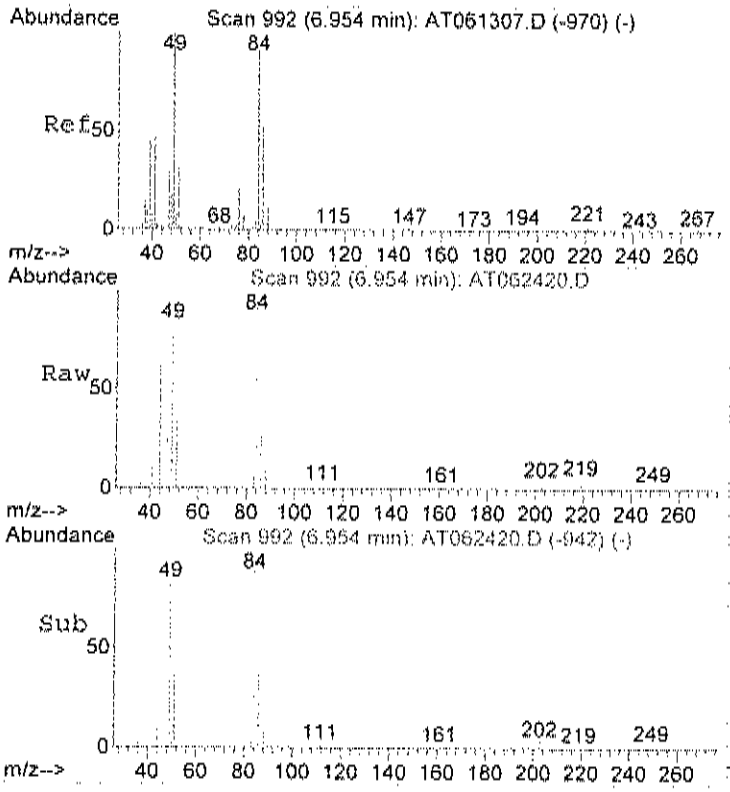


#15
Acetone
Concen: 28.05 ppb
RT: 5.90 min Scan# 640
Delta R.T. -0.00 min
Lab File: AT062420.D
Acq: 25 Jun 2022 12:31 am

Tgt Ion: 58 Resp: 587084

Ion	Ratio	Lower	Upper
58	100		
43	338.6	268.9	328.9#

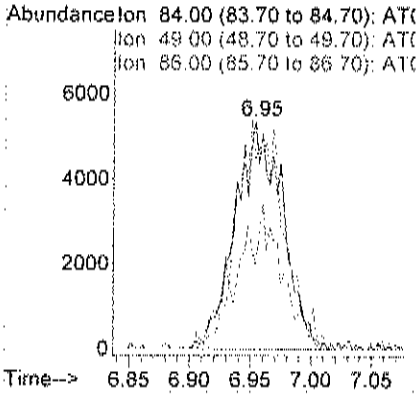


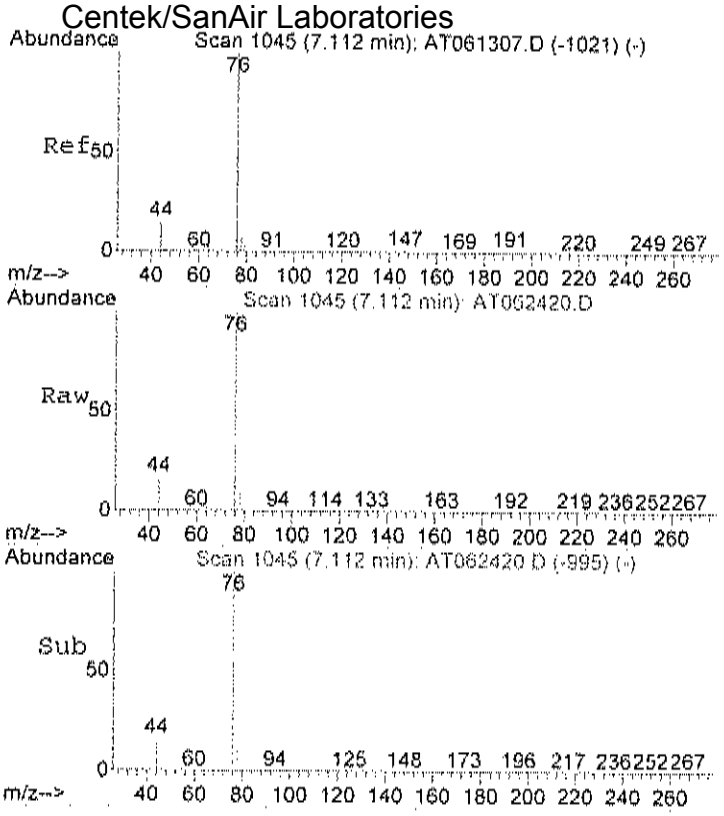


#21
Methylene chloride
Concen: 0.32 ppb
RT: 6.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: AT062420.D
Acq: 25 Jun 2022 12:31 am

Tgt Ion: 84 Resp: 14435

Ion	Ratio	Lower	Upper
84	100		
49	103.3	93.2	133.2
86	57.5	46.4	86.4

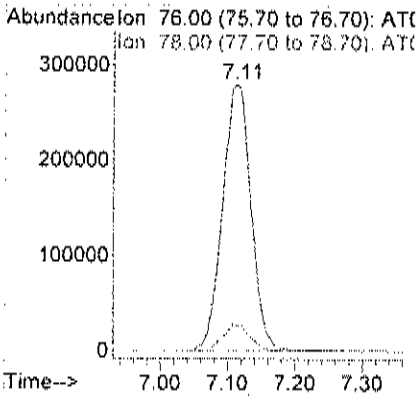


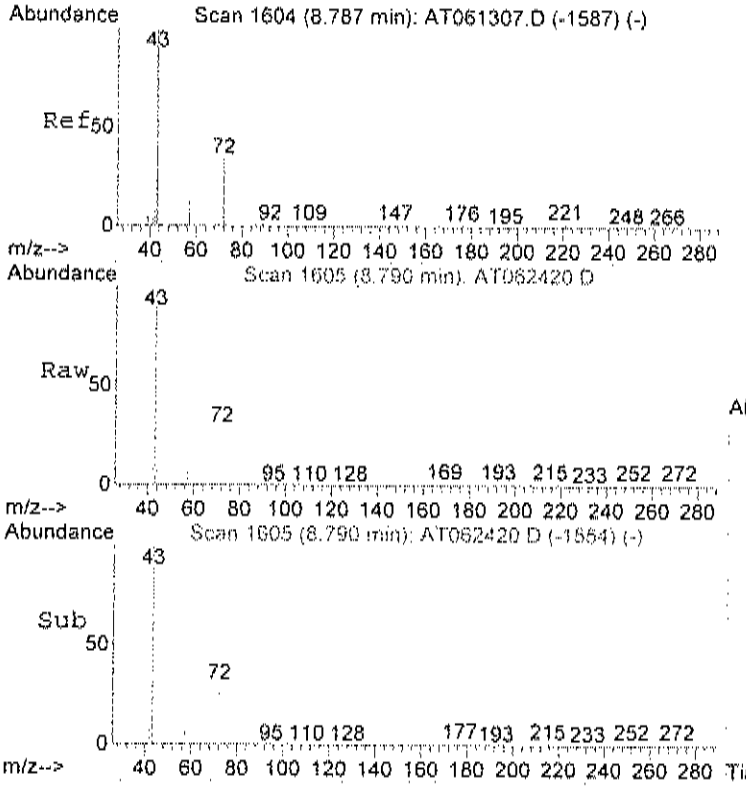


#23
Carbon disulfide
Concen: 6.06 ppb
RT: 7.11 min Scan# 1045
Delta R.T. -0.00 min
Lab File: AT062420.D
Acq: 25 Jun 2022 12:31 am

Tgt Ion: 76 Resp: 824598

Ion	Ratio	Lower	Upper
76	100		
78	9.5	0.0	29.7

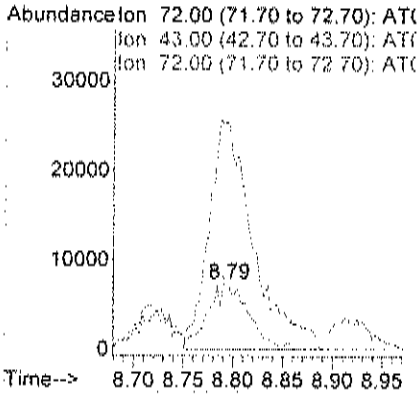


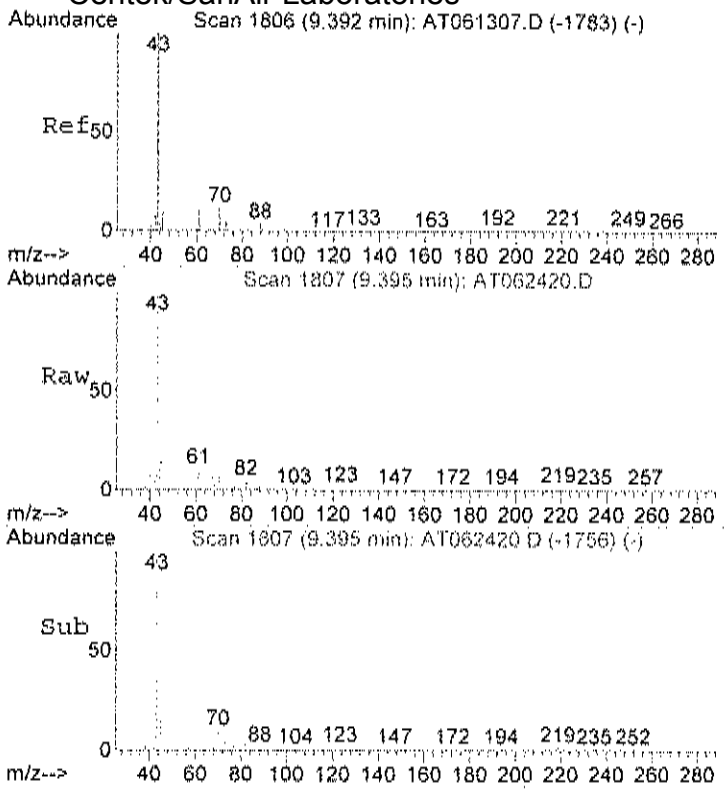


#28
Methyl Ethyl Ketone
Concen: 1.18 ppb m
RT: 8.79 min Scan# 1605
Delta R.T. 0.00 min
Lab File: AT062420.D
Acq: 25 Jun 2022 12:31 am

Tgt Ion: 72 Resp: 20946

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	145.2	80.0	120.0#

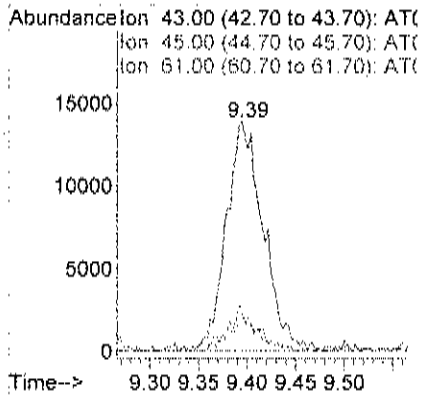


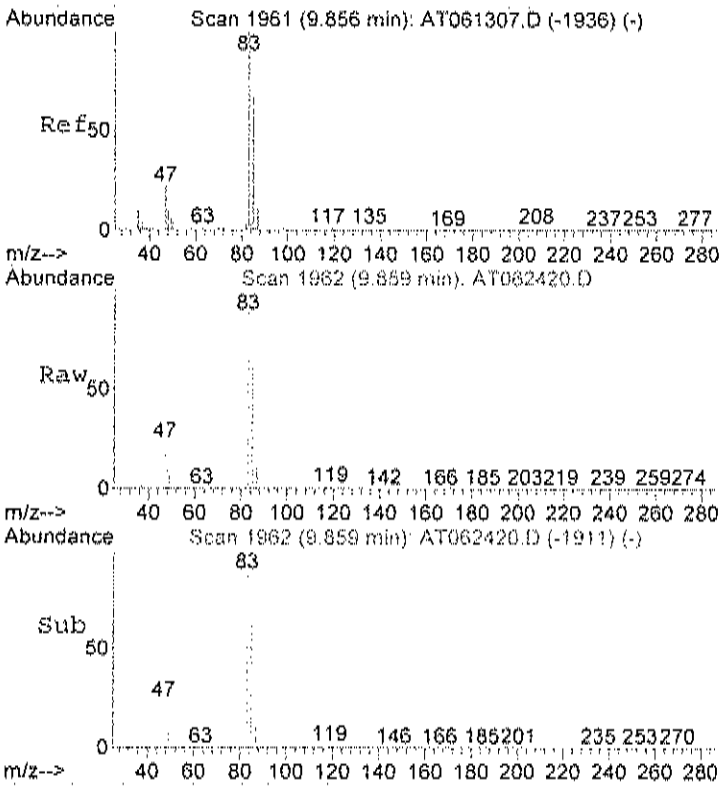


#31
Ethyl acetate
Concen: 0.44 ppb
RT: 9.39 min Scan# 1807
Delta R.T. 0.00 min
Lab File: AT062420.D
Acq: 25 Jun 2022 12:31 am

Tgt Ion: 43 Resp: 36822

Ion	Ratio	Lower	Upper
43	100		
45	11.4	0.0	33.7
61	13.3	0.0	34.7

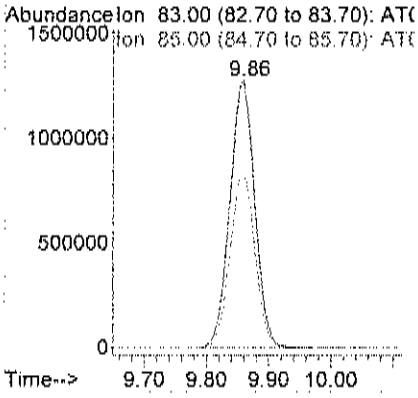


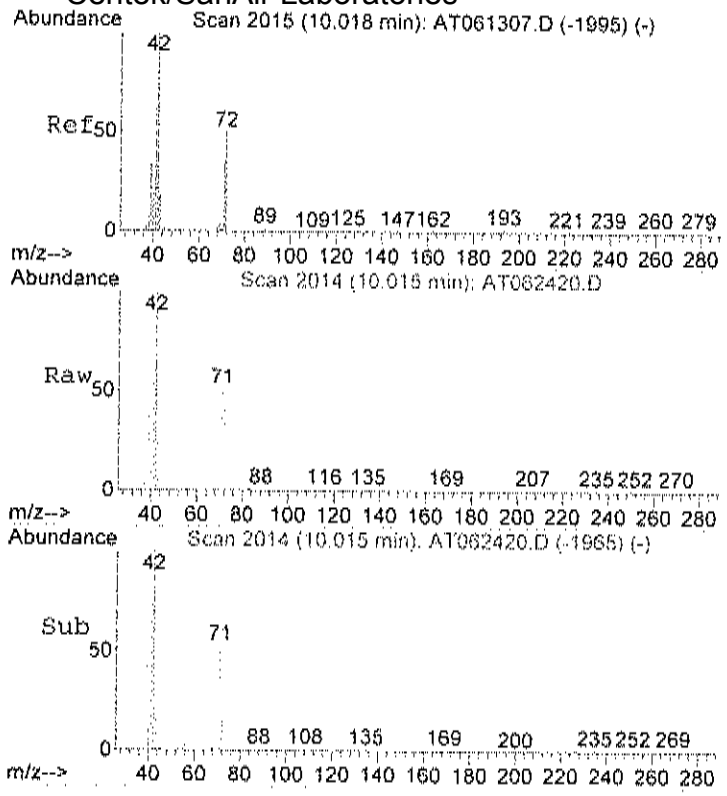


#32
Chloroform
Concen: 31.39 ppb
RT: 9.86 min Scan# 1962
Delta R.T. 0.00 min
Lab File: AT062420.D
Acq: 25 Jun 2022 12:31 am

Tgt Ion: 83 Resp: 3541314

Ion	Ratio	Lower	Upper
83	100		
85	65.6	46.5	86.5

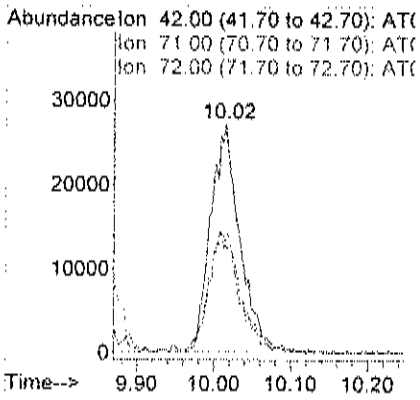


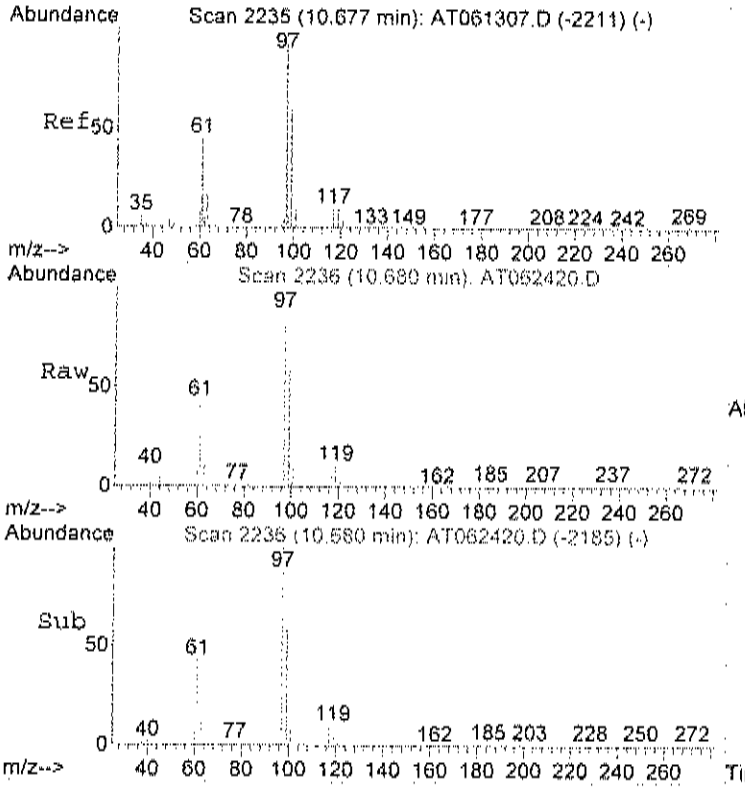


#33
Tetrahydrofuran
Concen: 2.32 ppb
RT: 10.02 min Scan# 2014
Delta R.T. -0.00 min
Lab File: AT062420.D
Acq: 25 Jun 2022 12:31 am

Tgt Ion: 42 Resp: 72411

Ion	Ratio	Lower	Upper
42	100		
71	56.5	38.0	78.0
72	56.8	35.0	75.0

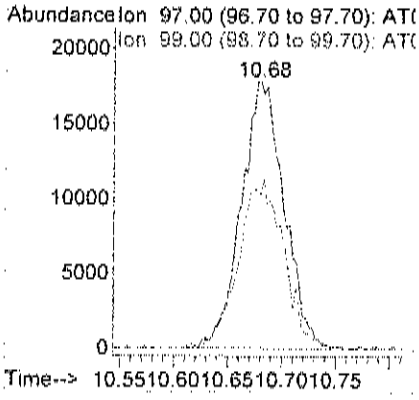


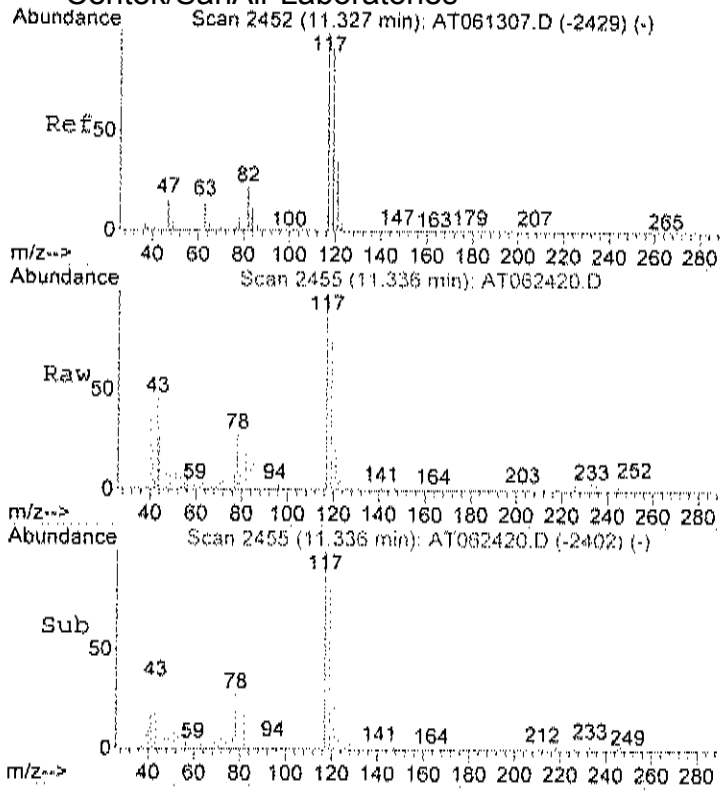


#36
1,1,1-trichloroethane
Concen: 0.48 ppb
RT: 10.68 min Scan# 2236
Delta R.T. 0.00 min
Lab File: AT062420.D
Acq: 25 Jun 2022 12:31 am

Tgt Ion: 97 Resp: 49195

Ion	Ratio	Lower	Upper
97	100		
99	66.1	46.0	86.0

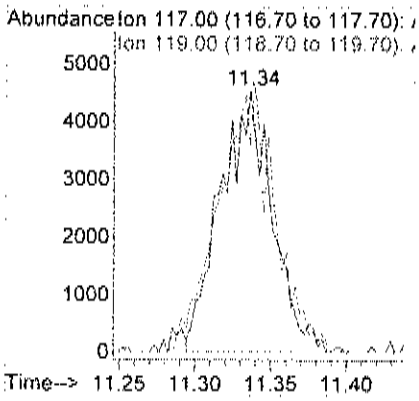


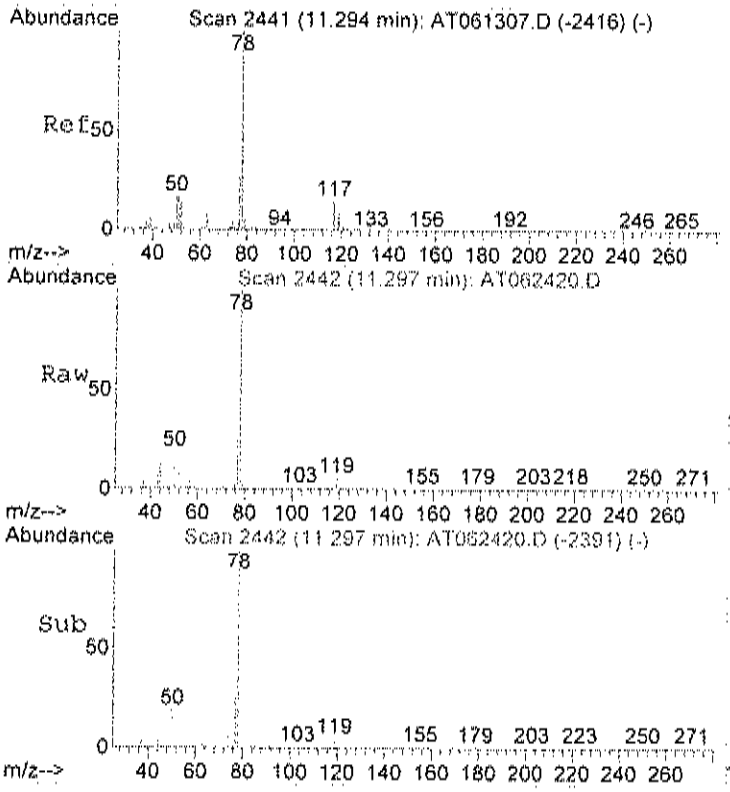


#38
Carbon tetrachloride
Concen: 0.10 ppb
RT: 11.34 min Scan# 2455
Delta R.T. 0.01 min
Lab File: AT062420.D
Acq: 25 Jun 2022 12:31 am

Tgt Ion:117 Resp: 10839

Ion	Ratio	Lower	Upper
117	100		
119	107.9	77.2	117.2

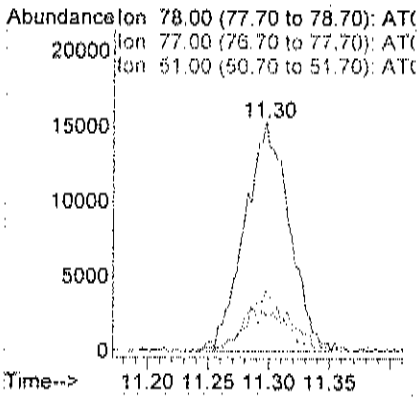


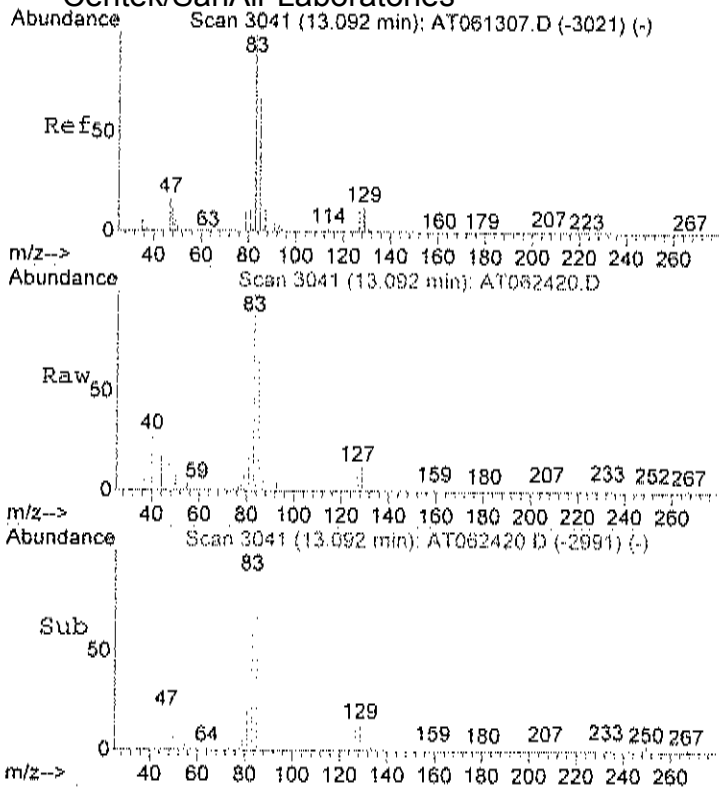


#39
Benzene
Concen: 0.33 ppb
RT: 11.30 min Scan# 2442
Delta R.T. 0.00 min
Lab File: AT062420.D
Acq: 25 Jun 2022 12:31 am

Tgt Ion: 78 Resp: 39248

Ion	Ratio	Lower	Upper
78	100		
77	24.6	3.1	43.1
51	18.6	0.0	37.8

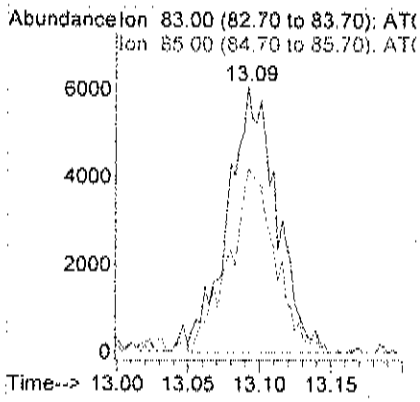


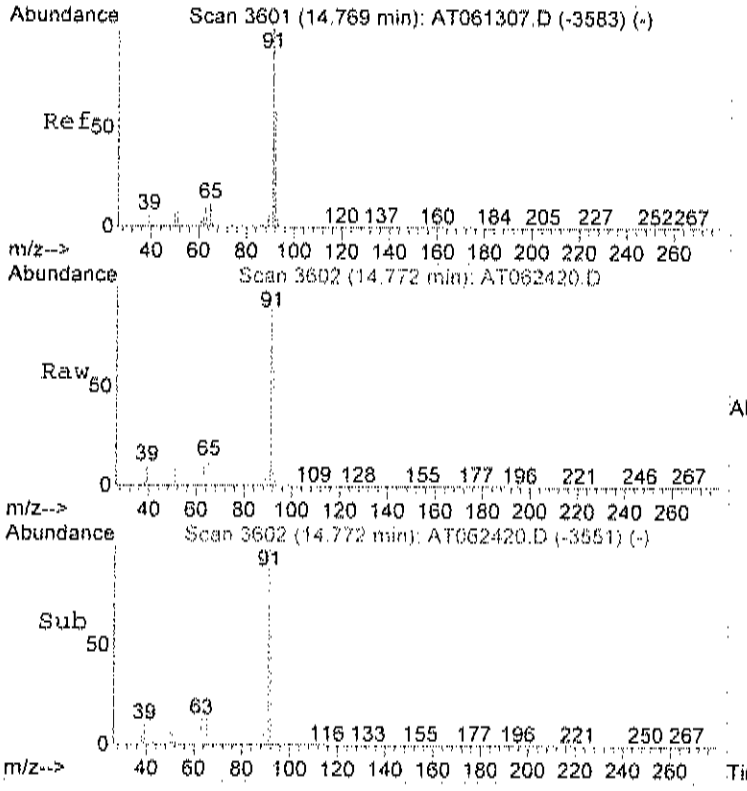


#46
Bromodichloromethane
Concen: 0.13 ppb
RT: 13.09 min Scan# 3041
Delta R.T. -0.00 min
Lab File: AT062420.D
Acq: 25 Jun 2022 12:31 am

Tgt Ion: 83 Resp: 14390

Ion	Ratio	Lower	Upper
83	100		
85	65.1	44.0	84.0

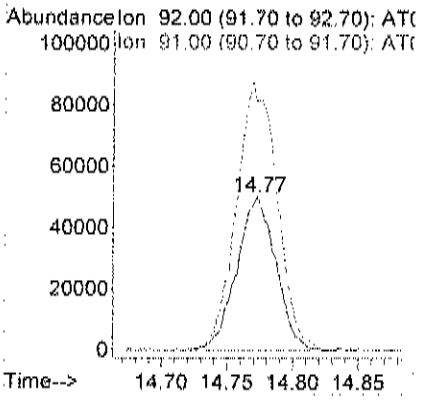


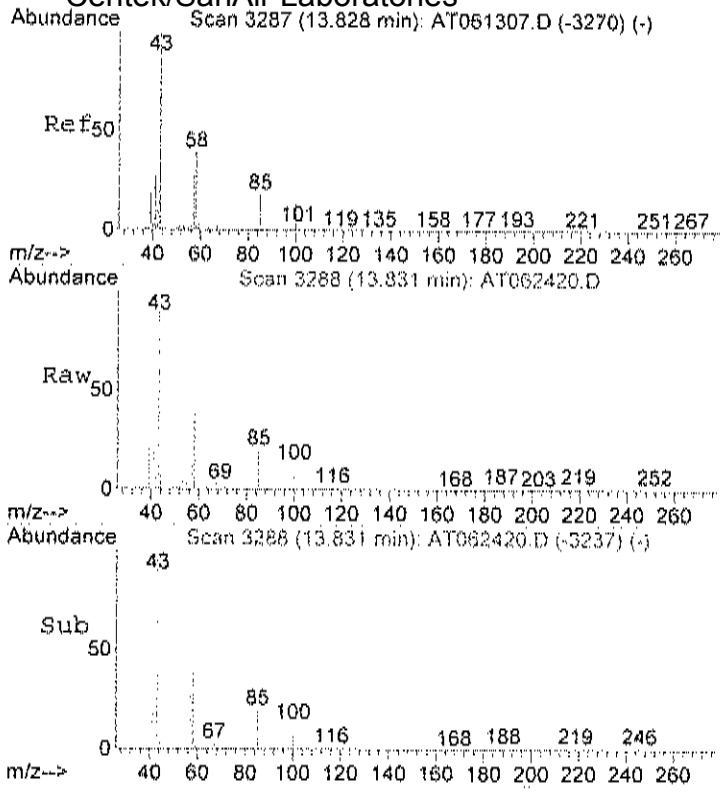


#51
Toluene
Concen: 1.24 ppb
RT: 14.77 min Scan# 3602
Delta R.T. 0.00 min
Lab File: AT062420.D
Acq: 25 Jun 2022 12:31 am

Tgt Ion: 92 Resp: 104413

Ion	Ratio	Lower	Upper
92	100		
91	180.8	154.4	194.4

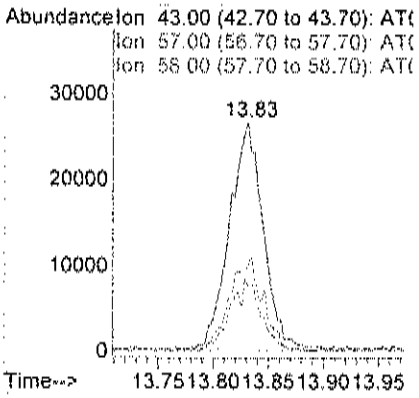


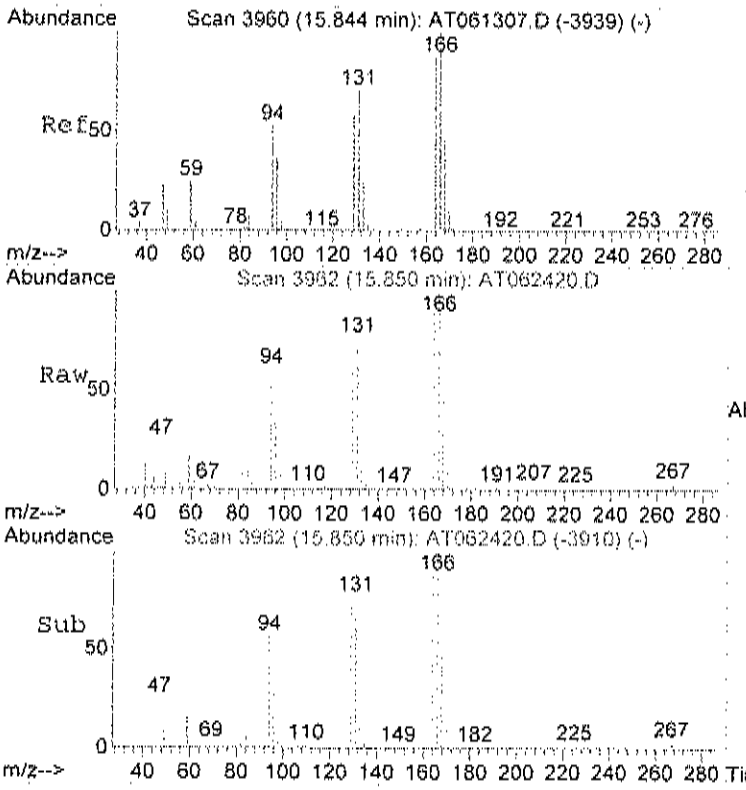


#52
Methyl Isobutyl Ketone
Concen: 0.76 ppb
RT: 13.83 min Scan# 3288
Delta R.T. 0.00 min
Lab File: AT062420.D
Acq: 25 Jun 2022 12:31 am

Tgt Ion: 43 Resp: 56766

Ion	Ratio	Lower	Upper
43	100		
57	29.3	9.3	49.3
58	40.4	22.0	62.0

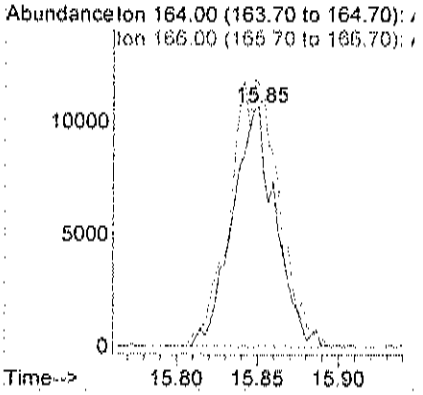


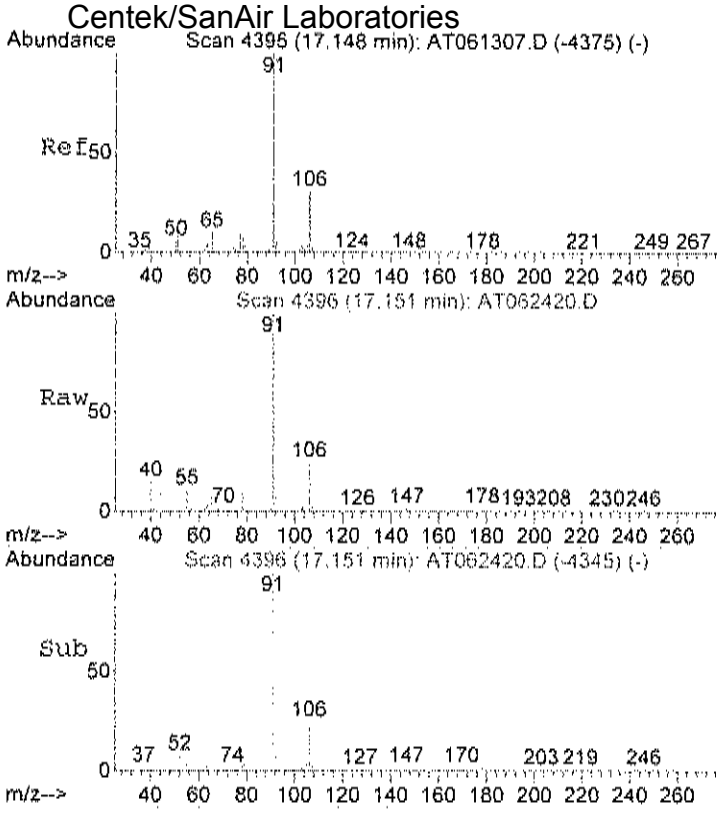


#56
Tetrachloroethylene
Concen: 0.30 ppb
RT: 15.85 min Scan# 3962
Delta R.T. 0.01 min
Lab File: AT062420.D
Acq: 25 Jun 2022 12:31 am

Tgt Ion:164 Resp: 19776

Ion	Ratio	Lower	Upper
164	100		
166	126.3	107.7	147.7

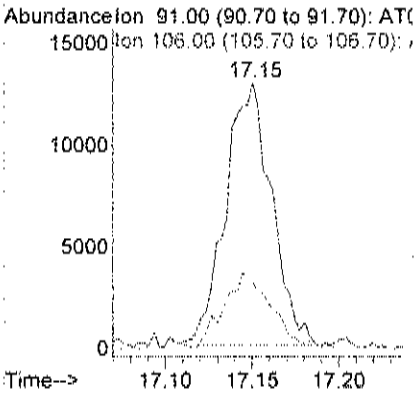


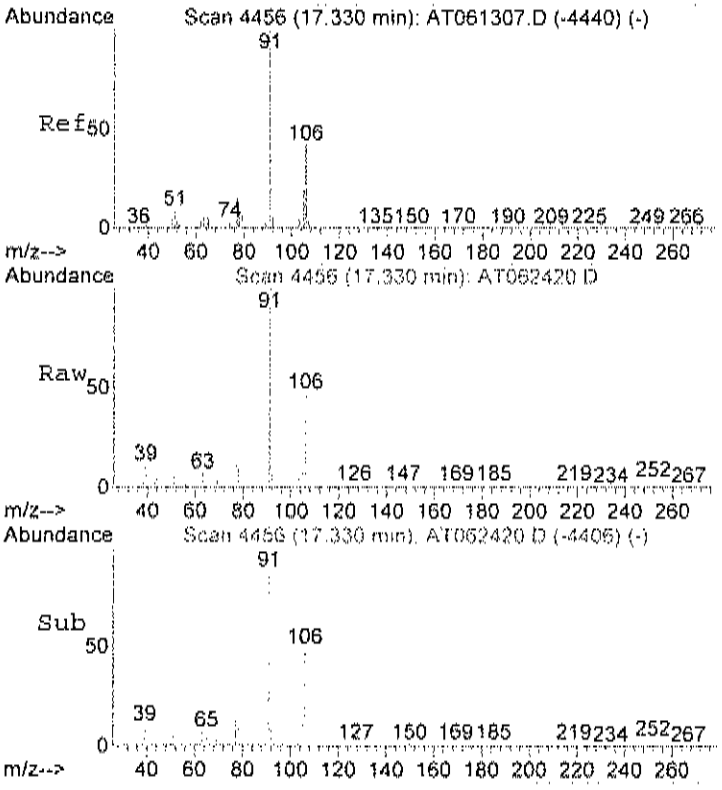


#58
Ethylbenzene
Concen: 0.12 ppb
RT: 17.15 min Scan# 4396
Delta R.T. 0.00 min
Lab File: AT062420.D
Acq: 25 Jun 2022 12:31 am

Tgt Ion: 91 Resp: 23940

Ion	Ratio	Lower	Upper
91	100		
106	29.6	11.5	51.5

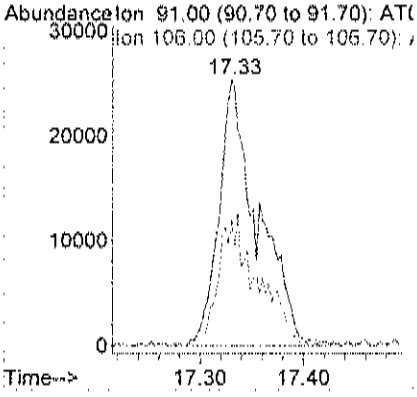


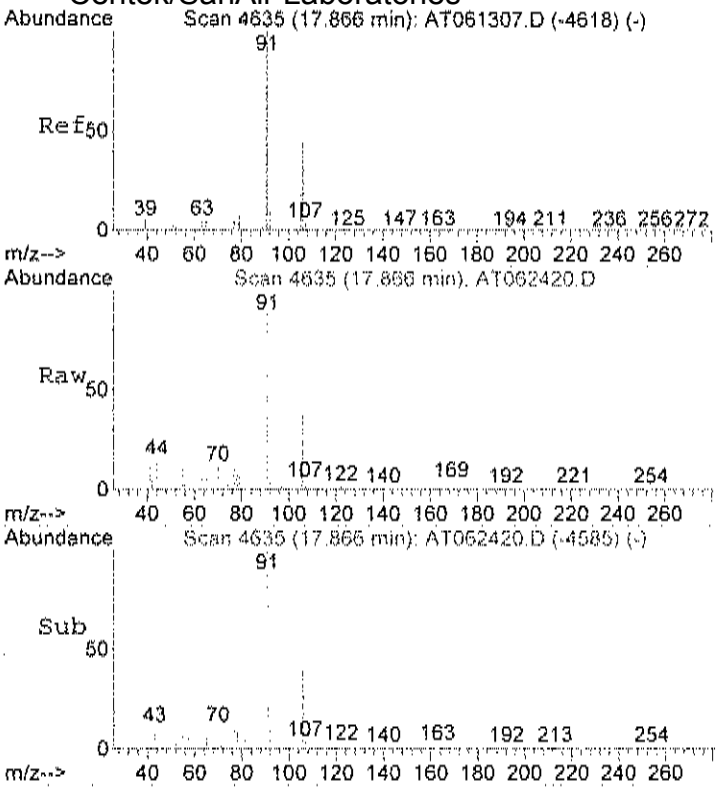


#59
m&p-xylene
Concen: 0.42 ppb
RT: 17.33 min Scan# 4456
Delta R.T. 0.00 min
Lab File: AT062420.D
Acq: 25 Jun 2022 12:31 am

Tgt Ion: 91 Resp: 66755

Ion	Ratio	Lower	Upper
91	100		
106	49.0	27.9	67.9

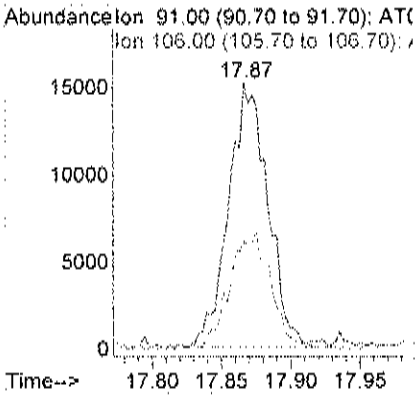


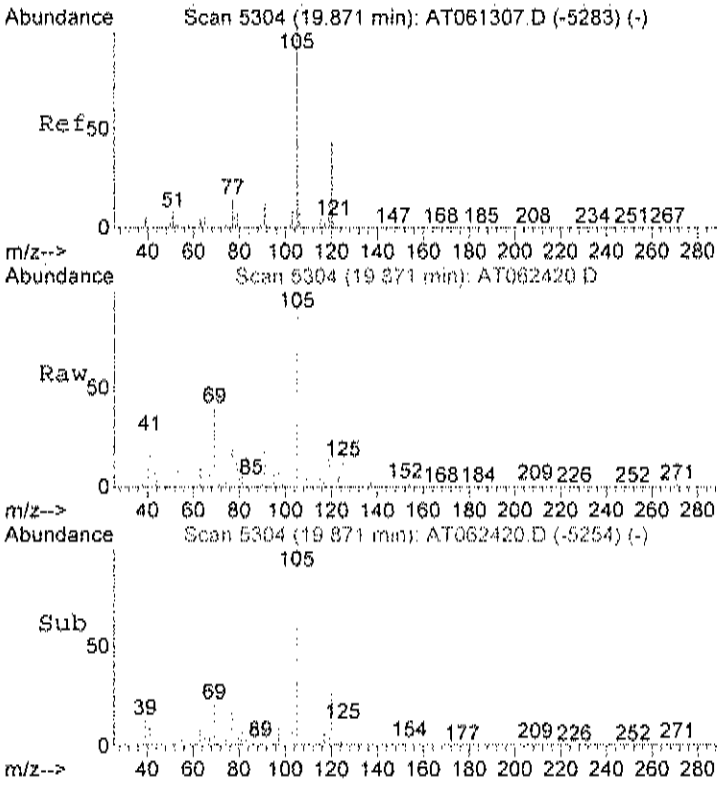


#63
o-xylene
Concen: 0.18 ppb
RT: 17.87 min Scan# 4635
Delta R.T. -0.00 min
Lab File: AT062420.D
Acq: 25 Jun 2022 12:31 am

Tgt Ion: 91 Resp: 30197

Ion	Ratio	Lower	Upper
91	100		
106	45.2	25.1	65.1

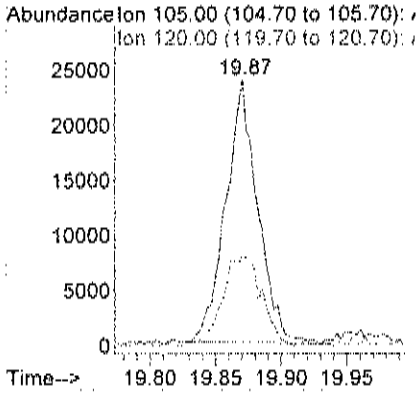


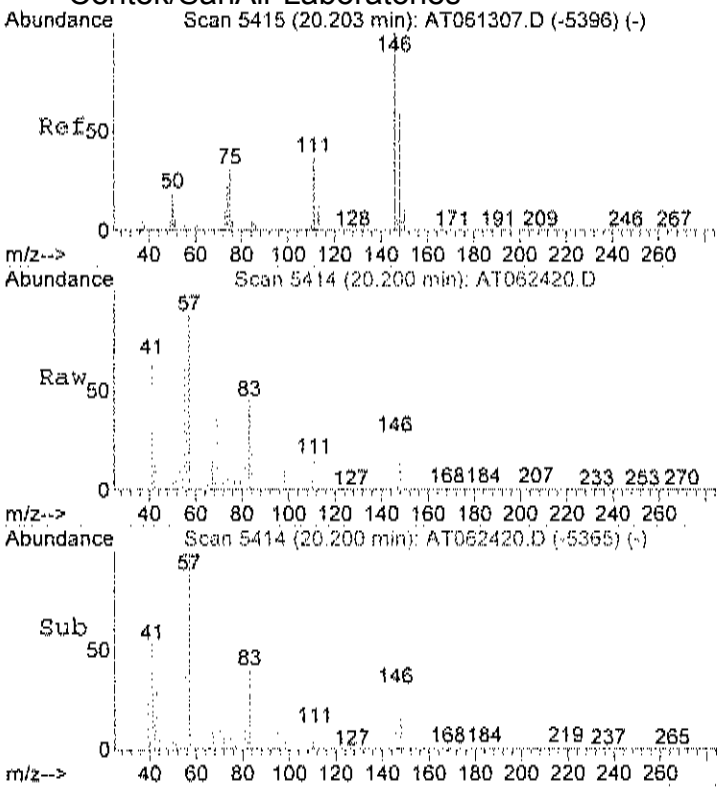


#71
1,2,4-trimethylbenzene
Concen: 0.21 ppb
RT: 19.87 min Scan# 5304
Delta R.T. -0.00 min
Lab File: AT062420.D
Acq: 25 Jun 2022 12:31 am

Tgt Ion:105 Resp: 40711

Ion	Ratio	Lower	Upper
105	100		
120	41.5	23.8	63.8

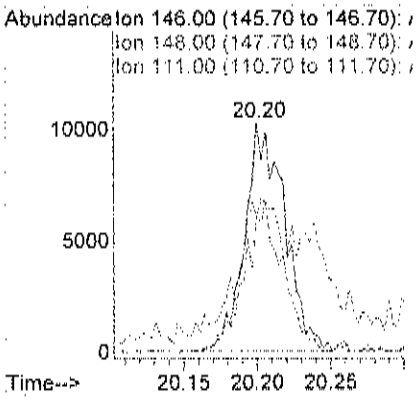


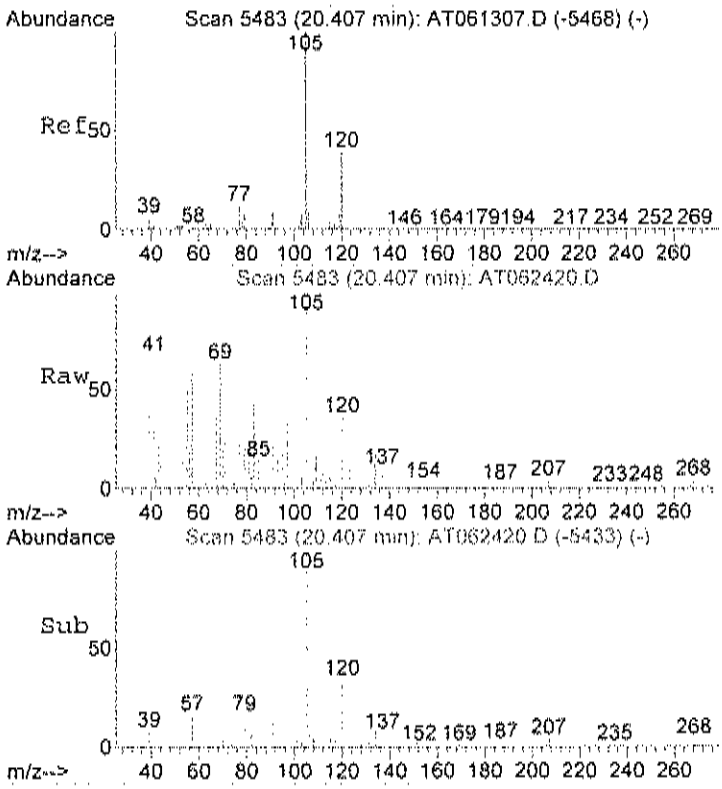


#72
1,3-dichlorobenzene
Concen: 0.16 ppb
RT: 20.20 min Scan# 5414
Delta R.T. -0.00 min
Lab File: AT062420.D
Acq: 25 Jun 2022 12:31 am

Tgt Ion:146 Resp: 19386

Ion	Ratio	Lower	Upper
146	100		
148	63.0	44.9	84.9
111	99.0	19.7	59.7#

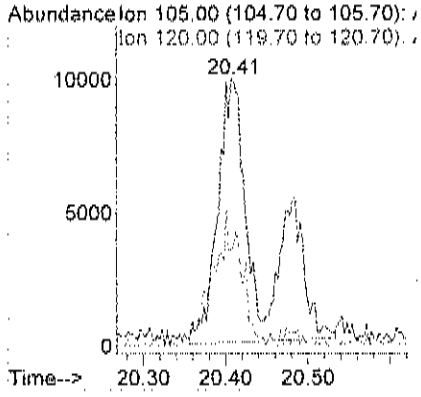




#75
1,2,3-trimethylbenzene
Concen: 0.17 ppb
RT: 20.41 min Scan# 5483
Delta R.T. -0.00 min
Lab File: AT062420.D
Acq: 25 Jun 2022 12:31 am

Tgt Ion:105 Resp: 34058

Ion	Ratio	Lower	Upper
105	100		
120	35.3	30.7	51.1



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062730.D Vial: 30
Acq On : 28 Jun 2022 7:11 am Operator: RJP
Sample : C2206048-011A 20X Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 09:05:41 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

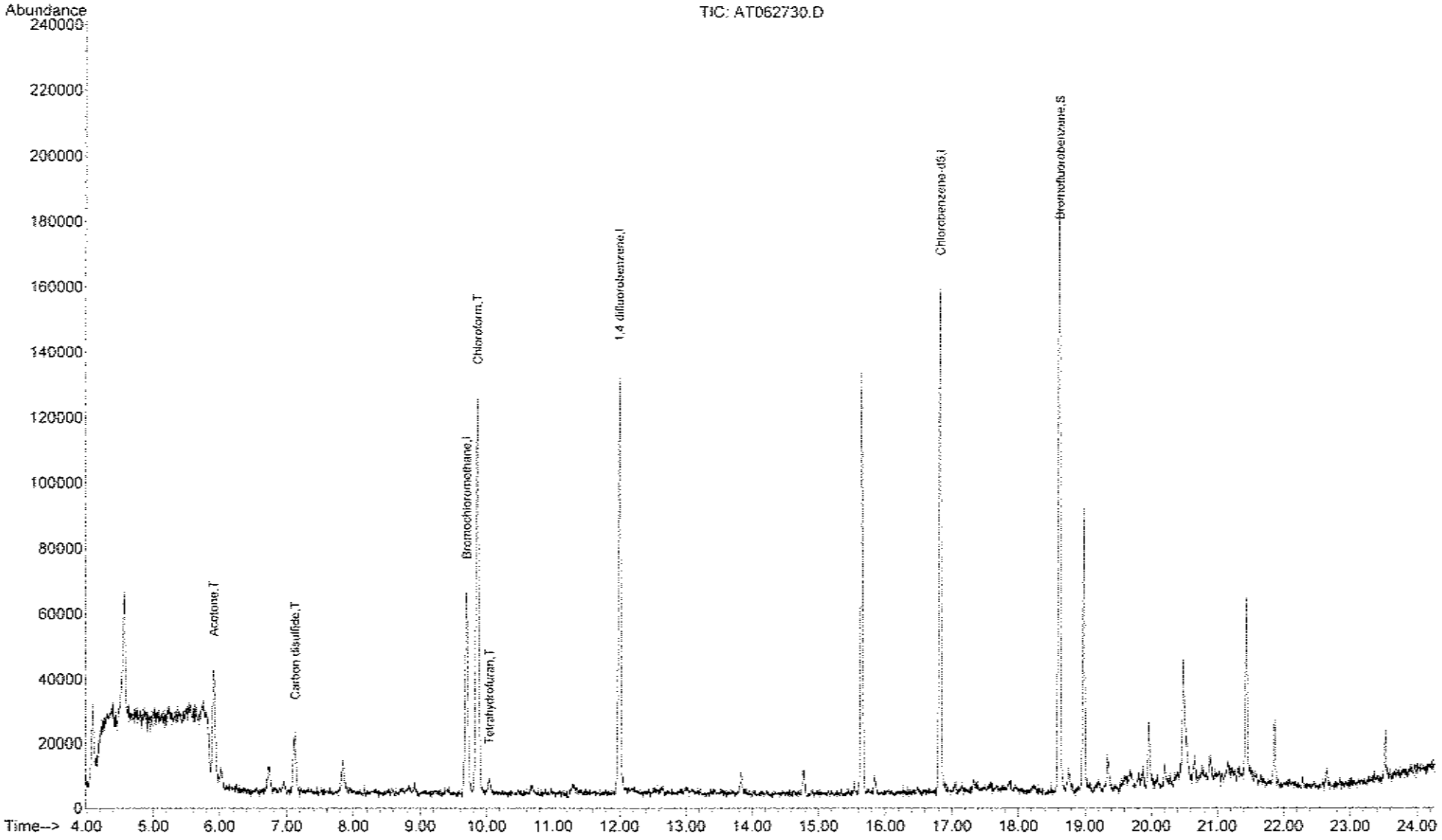
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.70	128	26331	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.00	114	125075	1.00	ppb	0.00
50) Chlorobenzene-d5	16.82	117	104021	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.61	95	67461	0.89	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 89.00%			
Target Compounds						Qvalue
15) Acetone	5.91	58	15812m	1.03	ppb	
23) Carbon disulfide	7.12	76	34554	0.35	ppb	93
32) Chloroform	9.86	83	132684	1.61	ppb	100
33) Tetrahydrofuran	10.03	42	2752m	0.12	ppb	

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

Quantitation Report (QT Reviewed)

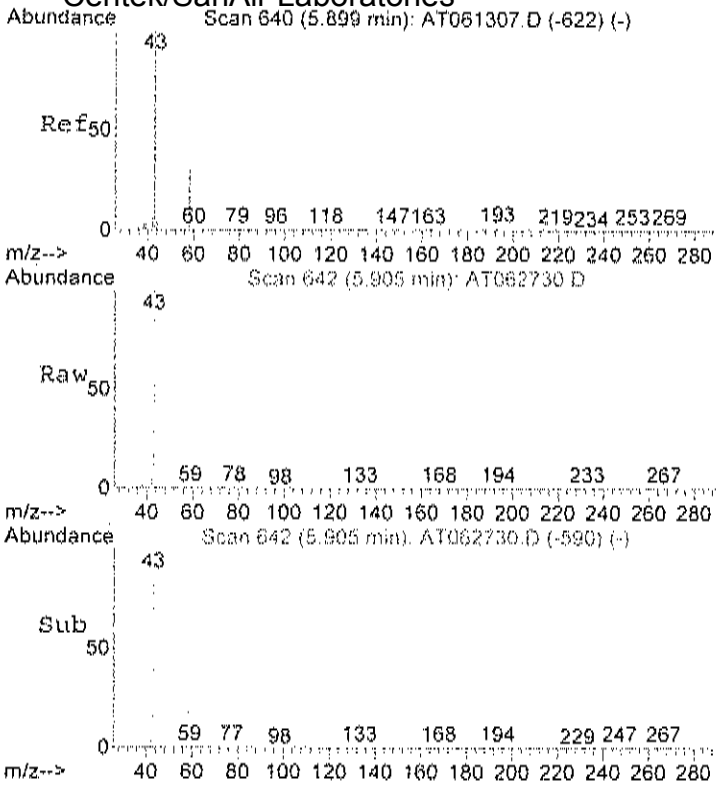
Data File : C:\HPCHEM\1\DATA\AT062730.D Vial: 30
Acq On : 28 Jun 2022 7:11 am Operator: RJP
Sample : C2206048-011A 20X Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 29 11:38 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



AT062730.D A613_1UG.M Thu Jul 07 07:39:56 2022 MSD1 Page 2

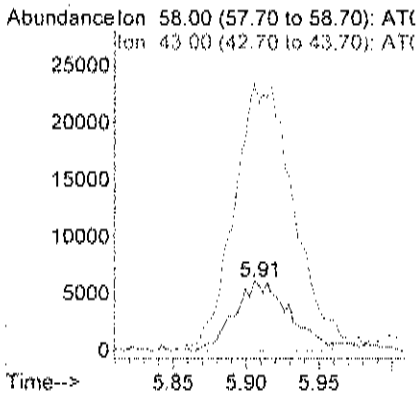
Centek/SanAir Laboratories

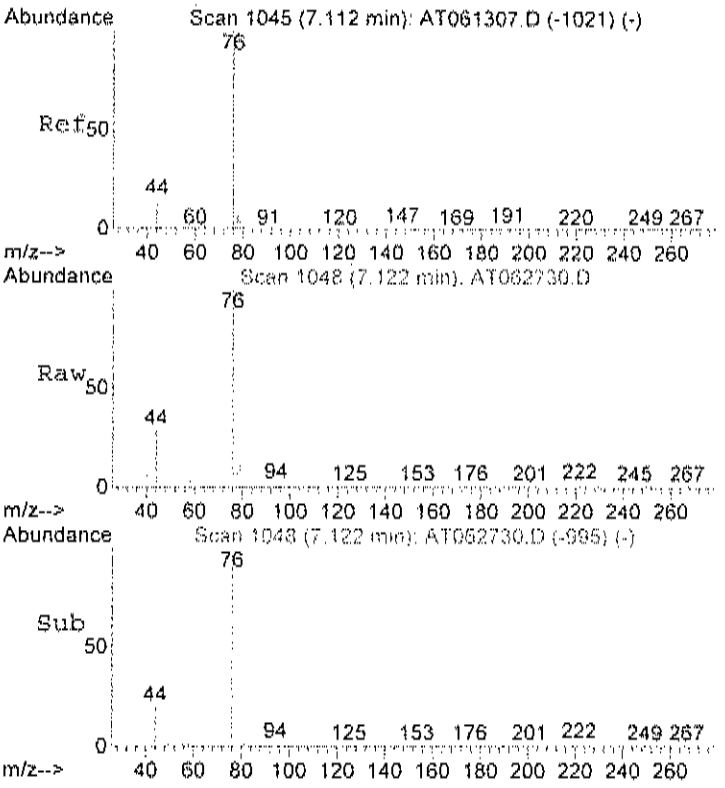


#15
Acetone
Concen: 1.03 ppb m
RT: 5.91 min Scan# 642
Delta R.T. 0.01 min
Lab File: AT062730.D
Acq: 28 Jun 2022 7:11 am

Tgt Ion: 58 Resp: 15812

Ion	Ratio	Lower	Upper
58	100		
43	451.6	268.9	328.9#

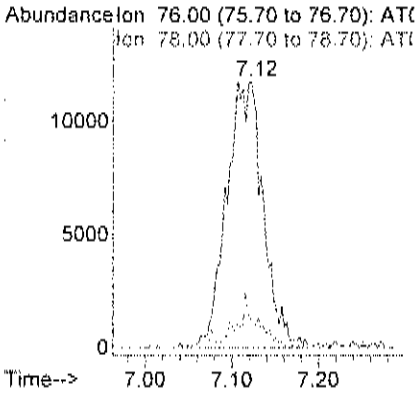


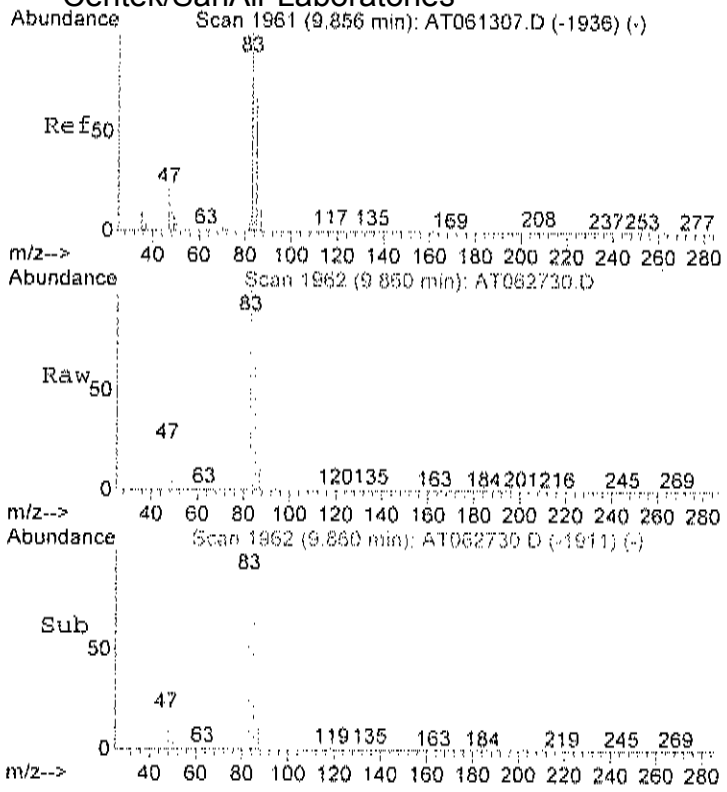


#23
Carbon disulfide
Concen: 0.35 ppb
RT: 7.12 min Scan# 1048
Delta R.T. 0.01 min
Lab File: AT062730.D
Acq: 28 Jun 2022 7:11 am

Tgt Ion: 76 Resp: 34554

Ion	Ratio	Lower	Upper
76	100		
78	7.2	0.0	29.7

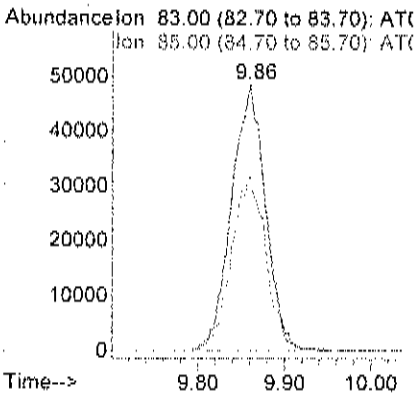


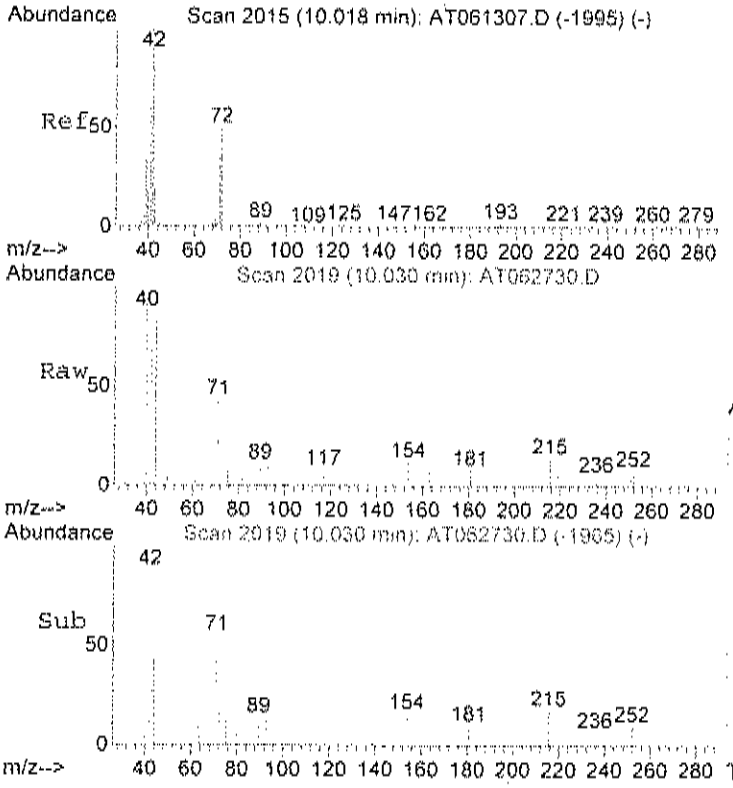


#32
Chloroform
Concen: 1.61 ppb
RT: 9.86 min Scan# 1962
Delta R.T. 0.00 min
Lab File: AT062730.D
Acq: 28 Jun 2022 7:11 am

Tgt Ion: 83 Resp: 132684

Ion	Ratio	Lower	Upper
83	100		
85	66.4	46.5	86.5

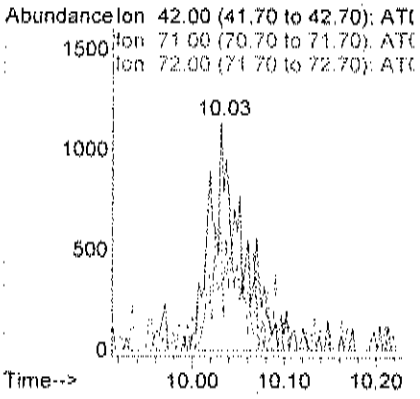




#33
Tetrahydrofuran
Concen: 0.12 ppb m
RT: 10.03 min Scan# 2019
Delta R.T. 0.01 min
Lab File: AT062730.D
Acq: 28 Jun 2022 7:11 am

Tgt Ion: 42 Resp: 2752

Ion	Ratio	Lower	Upper
42	100		
71	39.5	38.0	78.0
72	41.9	35.0	75.0



Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-012A

Client Sample ID: SVW-11
Tag Number: 320,48
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-1			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: NP
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.64	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,2,4-Trimethylbenzene	0.23	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,3,5-Trimethylbenzene	0.13	0.15	J	ppbV	1	6/25/2022 1:15:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,3-Dichlorobenzene	0.27	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,4-Dichlorobenzene	0.47	0.15		ppbV	1	6/25/2022 1:15:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/25/2022 1:15:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Acetone	42	12		ppbV	40	6/29/2022 6:15:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Benzene	0.48	0.15		ppbV	1	6/25/2022 1:15:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Bromoform	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Carbon disulfide	0.67	0.15		ppbV	1	6/25/2022 1:15:00 AM
Carbon tetrachloride	0.27	0.15		ppbV	1	6/25/2022 1:15:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Chloroethane	0.13	0.15	J	ppbV	1	6/25/2022 1:15:00 AM
Chloroform	1.5	0.15		ppbV	1	6/25/2022 1:15:00 AM
Chloromethane	0.34	0.15		ppbV	1	6/25/2022 1:15:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Cyclohexane	0.20	0.15		ppbV	1	6/25/2022 1:15:00 AM

Qualifiers:

- `*` Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-012A

Client Sample ID: SVW-11
Tag Number: 320,48
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Ethyl acetate	0.30	0.15		ppbV	1	6/25/2022 1:15:00 AM
Ethylbenzene	0.16	0.15		ppbV	1	6/25/2022 1:15:00 AM
Freon 11	3.6	1.5		ppbV	10	6/29/2022 5:33:00 AM
Freon 113	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Freon 114	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Freon 12	0.49	0.15		ppbV	1	6/25/2022 1:15:00 AM
Heptane	0.25	0.15		ppbV	1	6/25/2022 1:15:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Hexane	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
m&p-Xylene	0.50	0.30		ppbV	1	6/25/2022 1:15:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/25/2022 1:15:00 AM
Methyl Ethyl Ketone	1.3	0.30		ppbV	1	6/25/2022 1:15:00 AM
Methyl Isobutyl Ketone	1.1	0.30		ppbV	1	6/25/2022 1:15:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Methylene chloride	0.36	0.15		ppbV	1	6/25/2022 1:15:00 AM
o-Xylene	0.21	0.15		ppbV	1	6/25/2022 1:15:00 AM
Propylene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Styrene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Tetrachloroethylene	2.9	1.5		ppbV	10	6/29/2022 5:33:00 AM
Tetrahydrofuran	0.81	0.15		ppbV	1	6/25/2022 1:15:00 AM
Toluene	1.2	0.15		ppbV	1	6/25/2022 1:15:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Trichloroethene	0.51	0.15		ppbV	1	6/25/2022 1:15:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 1:15:00 AM
Surr: Bromofluorobenzene	97.0	46.7-129		%REC	1	6/25/2022 1:15:00 AM

Qualifiers:

- `*` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-012A

Client Sample ID: SVW-11
Tag Number: 320.48
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	3.5	0.82		ug/m3	1	6/25/2022 1:15:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/25/2022 1:15:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 1:15:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 1:15:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 1:15:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/25/2022 1:15:00 AM
1,2,4-Trimethylbenzene	1.1	0.74		ug/m3	1	6/25/2022 1:15:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/25/2022 1:15:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 1:15:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 1:15:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/25/2022 1:15:00 AM
1,3,5-Trimethylbenzene	0.64	0.74	J	ug/m3	1	6/25/2022 1:15:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/25/2022 1:15:00 AM
1,3-Dichlorobenzene	1.6	0.90		ug/m3	1	6/25/2022 1:15:00 AM
1,4-Dichlorobenzene	2.8	0.90		ug/m3	1	6/25/2022 1:15:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/25/2022 1:15:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	6/25/2022 1:15:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/25/2022 1:15:00 AM
Acetone	100	28		ug/m3	40	6/29/2022 6:15:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/25/2022 1:15:00 AM
Benzene	1.5	0.48		ug/m3	1	6/25/2022 1:15:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/25/2022 1:15:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/25/2022 1:15:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/25/2022 1:15:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/25/2022 1:15:00 AM
Carbon disulfide	2.1	0.47		ug/m3	1	6/25/2022 1:15:00 AM
Carbon tetrachloride	1.7	0.94		ug/m3	1	6/25/2022 1:15:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/25/2022 1:15:00 AM
Chloroethane	0.34	0.40	J	ug/m3	1	6/25/2022 1:15:00 AM
Chloroform	7.4	0.73		ug/m3	1	6/25/2022 1:15:00 AM
Chloromethane	0.70	0.31		ug/m3	1	6/25/2022 1:15:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 1:15:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 1:15:00 AM
Cyclohexane	0.69	0.52		ug/m3	1	6/25/2022 1:15:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/25/2022 1:15:00 AM
Ethyl acetate	1.1	0.54		ug/m3	1	6/25/2022 1:15:00 AM
Ethylbenzene	0.69	0.65		ug/m3	1	6/25/2022 1:15:00 AM
Freon 11	20	8.4		ug/m3	10	6/29/2022 5:33:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/25/2022 1:15:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/25/2022 1:15:00 AM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-11
Lab Order:	C2206048	**Tag Number:**	320,48
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-012A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	2.4	0.74		ug/m3	1	6/25/2022 1:15:00 AM
Heptane	1.0	0.61		ug/m3	1	6/25/2022 1:15:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/25/2022 1:15:00 AM
Hexane	< 0.53	0.53		ug/m3	1	6/25/2022 1:15:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/25/2022 1:15:00 AM
m&p-Xylene	2.2	1.3		ug/m3	1	6/25/2022 1:15:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/25/2022 1:15:00 AM
Methyl Ethyl Ketone	3.9	0.88		ug/m3	1	6/25/2022 1:15:00 AM
Methyl Isobutyl Ketone	4.5	1.2		ug/m3	1	6/25/2022 1:15:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/25/2022 1:15:00 AM
Methylene chloride	1.3	0.52		ug/m3	1	6/25/2022 1:15:00 AM
o-Xylene	0.91	0.65		ug/m3	1	6/25/2022 1:15:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/25/2022 1:15:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/25/2022 1:15:00 AM
Tetrachloroethylene	20	10		ug/m3	10	6/29/2022 5:33:00 AM
Tetrahydrofuran	2.4	0.44		ug/m3	1	6/25/2022 1:15:00 AM
Toluene	4.5	0.57		ug/m3	1	6/25/2022 1:15:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 1:15:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 1:15:00 AM
Trichloroethene	2.7	0.81		ug/m3	1	6/25/2022 1:15:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/25/2022 1:15:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/25/2022 1:15:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/25/2022 1:15:00 AM

Qualifiers:

*	Results reported are not blank corrected
DL	Detection Limit
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
E	Estimated Value above quantitation range
J	Analyte detected below quantitation limit
ND	Not Detected at the Limit of Detection
SC	Sub-Contracted

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062421.D Vial: 21
Acq On : 25 Jun 2022 1:15 am Operator: RJP
Sample : C2206048-012A Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 27 11:11:57 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

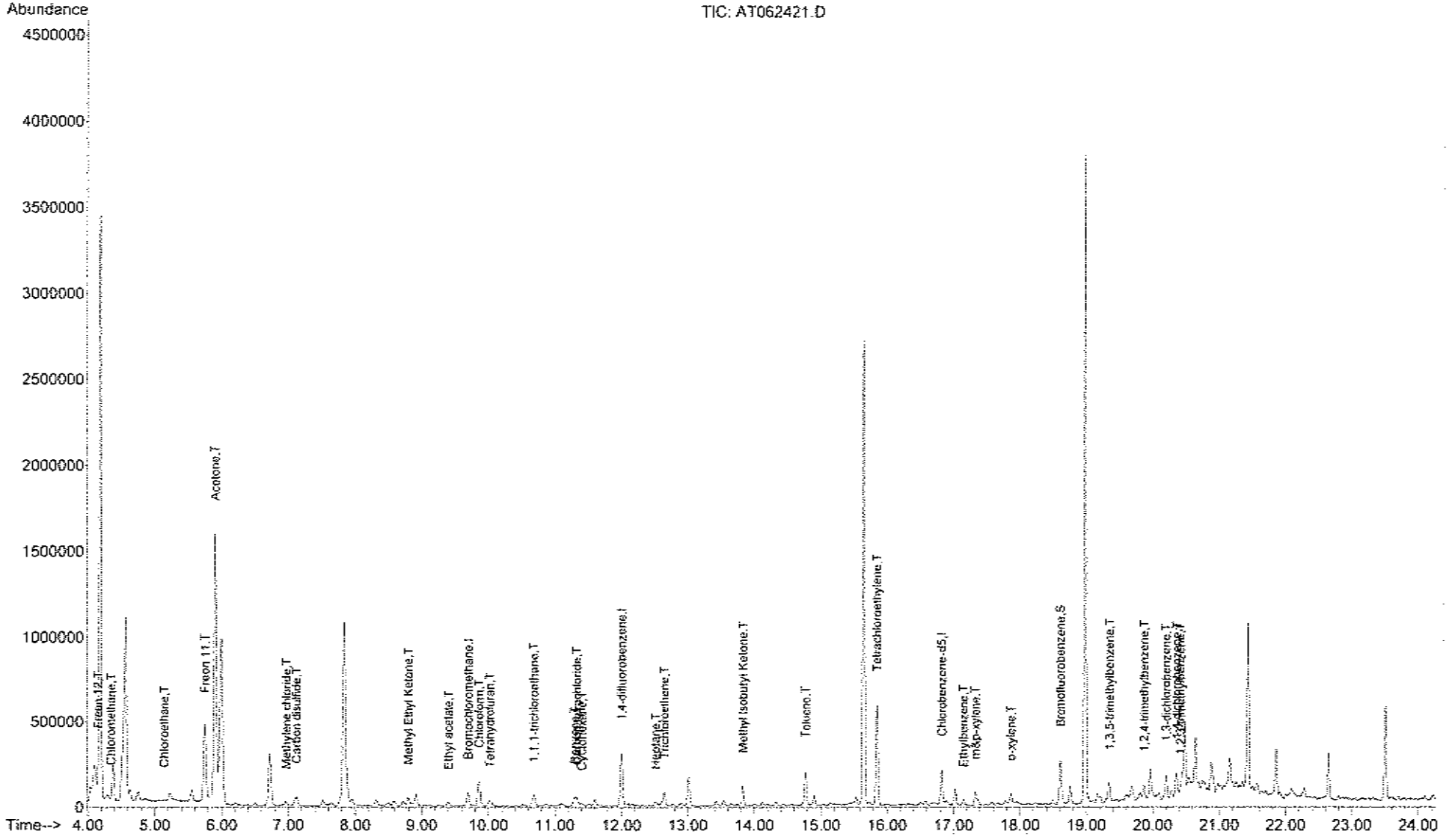
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.70	128	34769	1.00	ppb		0.00
35) 1,4-difluorobenzene	12.00	114	160702	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	137971	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	97474	0.97	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97.00%				
Target Compounds							Qvalue
3) Freon 12	4.14	85	78932	0.49	ppb		98
4) Chloromethane	4.33	50	13224	0.34	ppb		99
10) Chloroethane	5.14	64	2368	0.13	ppb		100
14) Freon 11	5.75	101	530780	2.68	ppb		100
15) Acetone	5.90	58	840226	41.55	ppb	#	82
21) Methylene chloride	6.96	84	15787	0.36	ppb		97
23) Carbon disulfide	7.12	76	88464	0.67	ppb		97
28) Methyl Ethyl Ketone	8.80	72	22534	1.31	ppb	#	100
31) Ethyl acetate	9.40	43	24227	0.30	ppb		96
32) Chloroform	9.86	83	164168	1.51	ppb		99
33) Tetrahydrofuran	10.02	42	24543	0.81	ppb		93
36) 1,1,1-trichloroethane	10.69	97	64642	0.64	ppb		95
37) Cyclohexane	11.40	56	9844m	0.20	ppb		
38) Carbon tetrachloride	11.34	117	28506	0.27	ppb		98
39) Benzene	11.30	78	55914	0.48	ppb		98
43) Heptane	12.52	43	13680	0.25	ppb	#	61
44) Trichloroethene	12.65	130	32255	0.51	ppb		99
51) Toluene	14.77	92	97762	1.20	ppb		98
52) Methyl Isobutyl Ketone	13.83	43	80964	1.11	ppb		95
56) Tetrachloroethylene	15.85	164	154557	2.45	ppb		99
58) Ethylbenzene	17.15	91	29944	0.16	ppb		98
59) m&p-xylene	17.33	91	76416	0.50	ppb		95
63) o-xylene	17.87	91	34904	0.21	ppb		98
70) 1,3,5-trimethylbenzene	19.36	105	25453m	0.13	ppb		
71) 1,2,4-trimethylbenzene	19.87	105	43256	0.23	ppb		99
72) 1,3-dichlorobenzene	20.20	146	32379	0.27	ppb	#	87
74) 1,4-dichlorobenzene	20.36	146	55348	0.47	ppb		92
75) 1,2,3-trimethylbenzene	20.41	105	23190	0.12	ppb		86

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

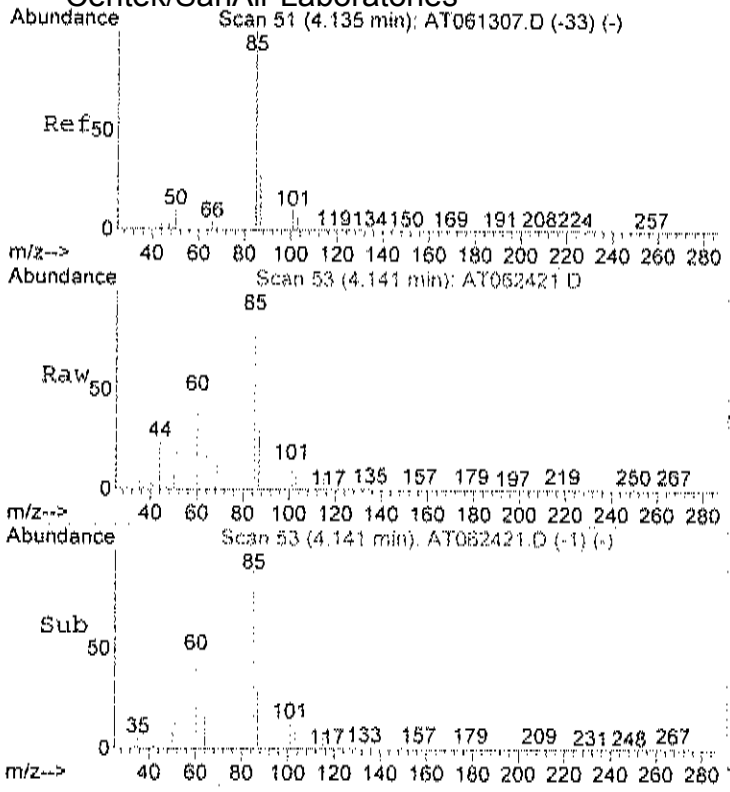
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062421.D Vial: 21
Acq On : 25 Jun 2022 1:15 am Operator: RJP
Sample : C2206048-012A Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 14:20 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



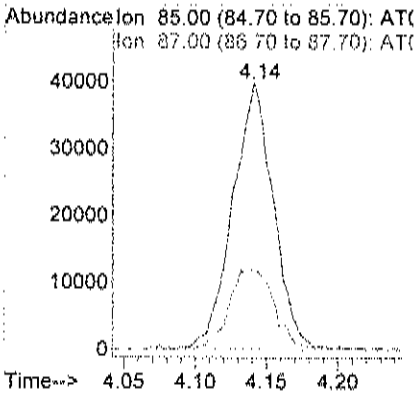
Centek/SanAir Laboratories

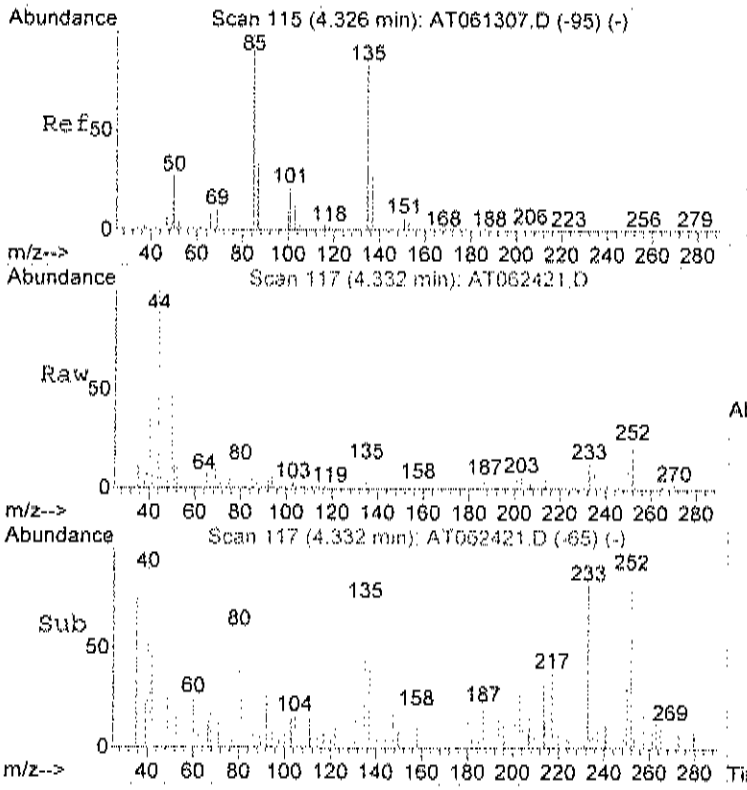


#3
Freon 12
Concen: 0.49 ppb
RT: 4.14 min Scan# 53
Delta R.T. 0.01 min
Lab File: AT062421.D
Acq: 25 Jun 2022 1:15 am

Tgt Ion: 85 Resp: 78932

Ion	Ratio	Lower	Upper
85	100		
87	33.9	12.8	52.8

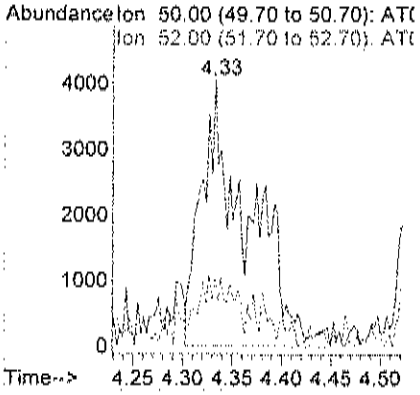


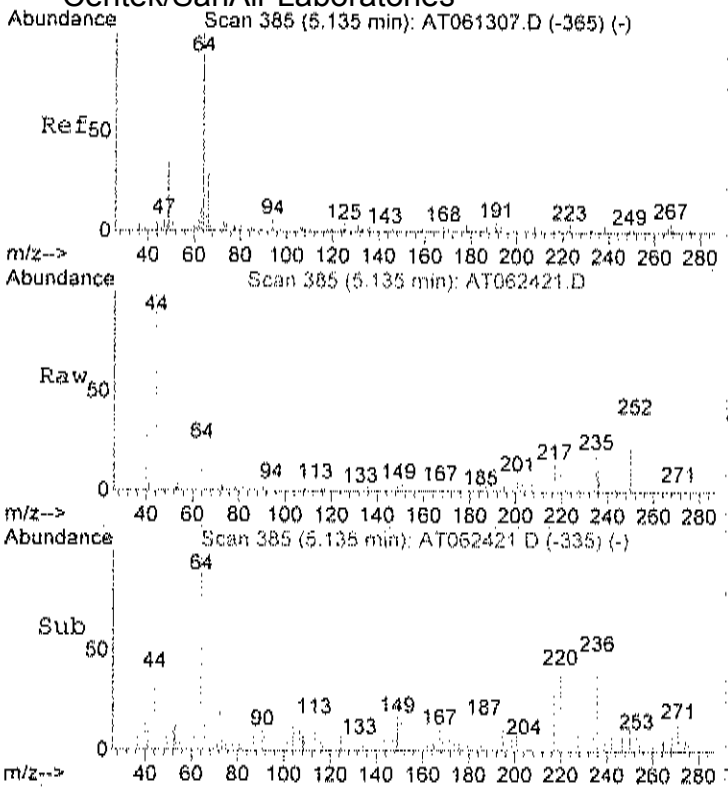


#4
Chloromethane
Concen: 0.34 ppb
RT: 4.33 min Scan# 117
Delta R.T. 0.01 min
Lab File: AT062421.D
Acq: 25 Jun 2022 1:15 am

Tgt Ion: 50 Resp: 13224

Ion	Ratio	Lower	Upper
50	100		
52	22.0	2.7	42.7

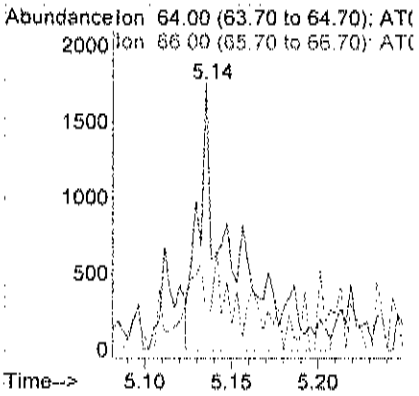


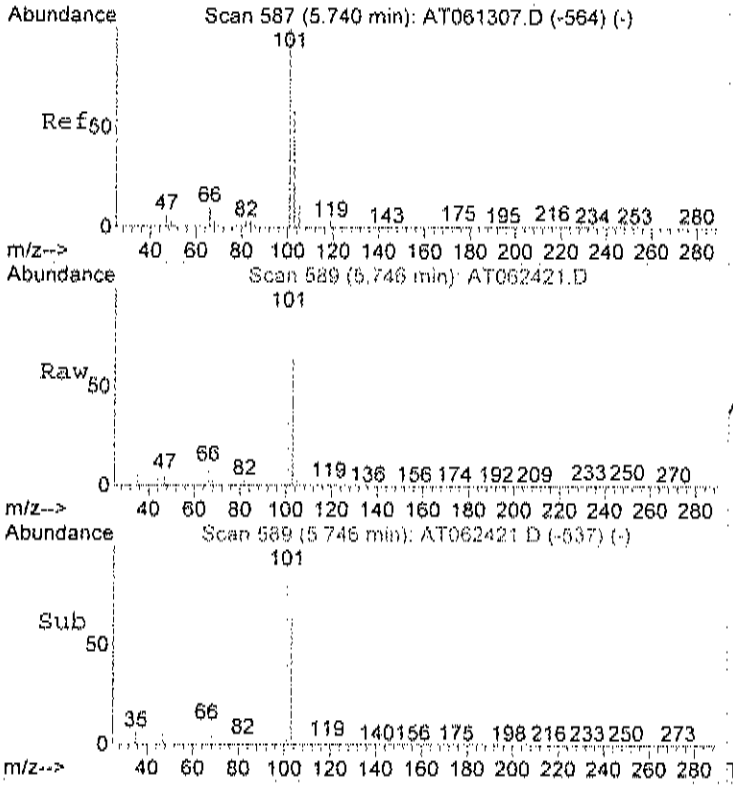


#10
Chloroethane
Concen: 0.13 ppb
RT: 5.14 min Scan# 385
Delta R.T. 0.00 min
Lab File: AT062421.D
Acq: 25 Jun 2022 1:15 am

Tgt Ion: 64 Resp: 2368

Ion	Ratio	Lower	Upper
64	100		
66	33.7	27.0	40.4

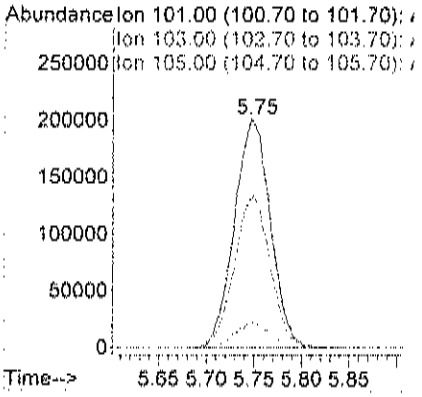


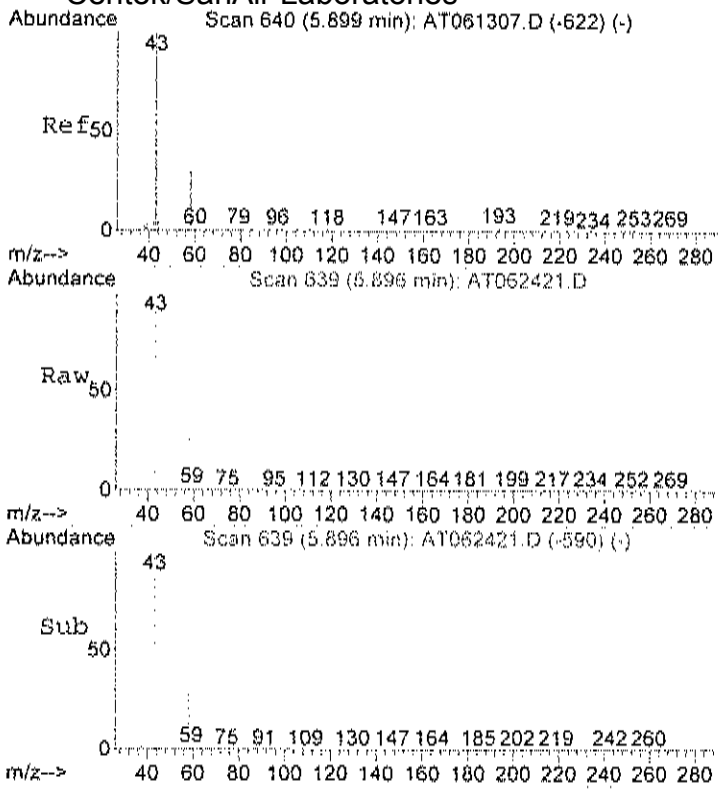


#14
Freon 11
Concen: 2.68 ppb
RT: 5.75 min Scan# 589
Delta R.T. 0.01 min
Lab File: AT062421.D
Acq: 25 Jun 2022 1:15 am

Tgt Ion:101 Resp: 530780

Ion	Ratio	Lower	Upper
101	100		
103	66.1	46.3	86.3
105	11.2	0.0	31.2

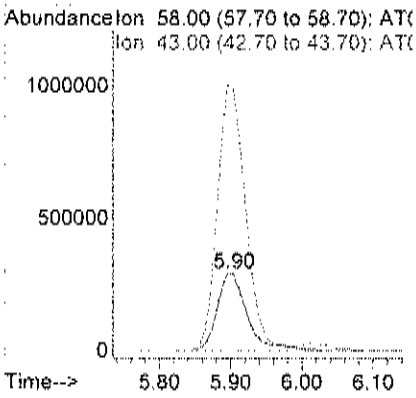


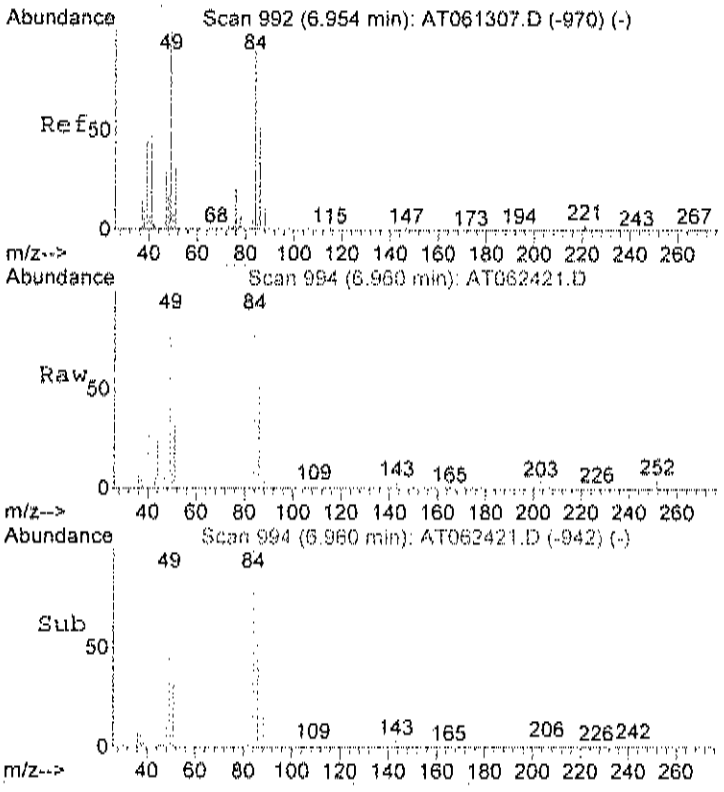


#15
Acetone
Concen: 41.55 ppb
RT: 5.90 min Scan# 639
Delta R.T. -0.00 min
Lab File: AT062421.D
Acq: 25 Jun 2022 1:15 am

Tgt Ion: 58 Resp: 840226

Ion	Ratio	Lower	Upper
58	100		
43	334.6	268.9	328.9#

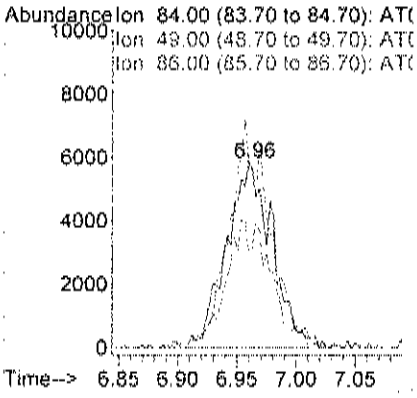


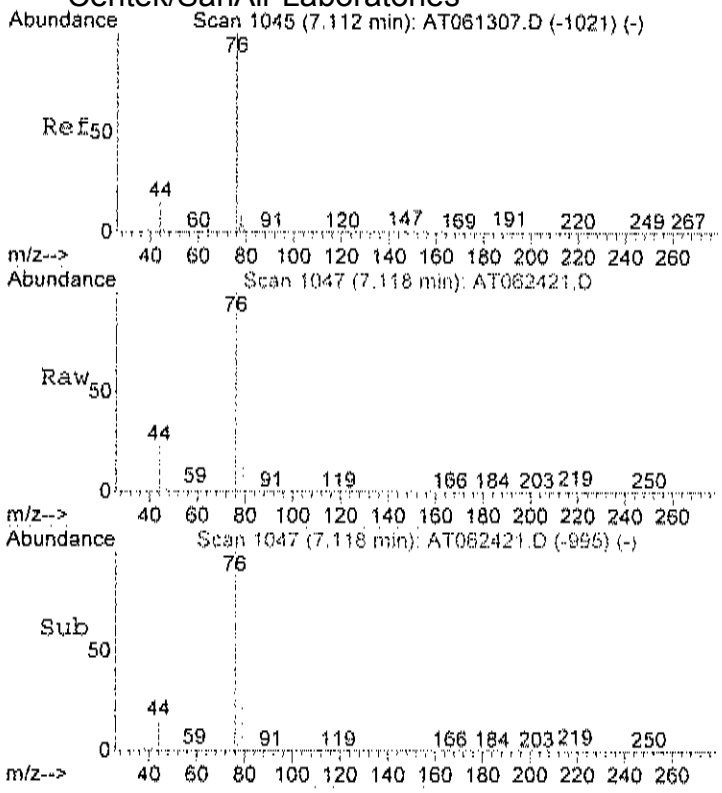


#21
Methylene chloride
Concen: 0.36 ppb
RT: 6.96 min Scan# 994
Delta R.T. 0.01 min
Lab File: AT062421.D
Acq: 25 Jun 2022 1:15 am

Tgt Ion: 84 Resp: 15787

Ion	Ratio	Lower	Upper
84	100		
49	108.0	93.2	133.2
86	66.0	46.4	86.4

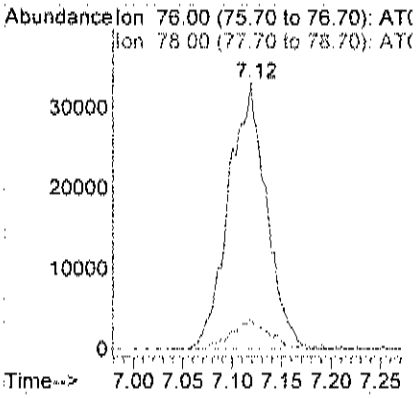


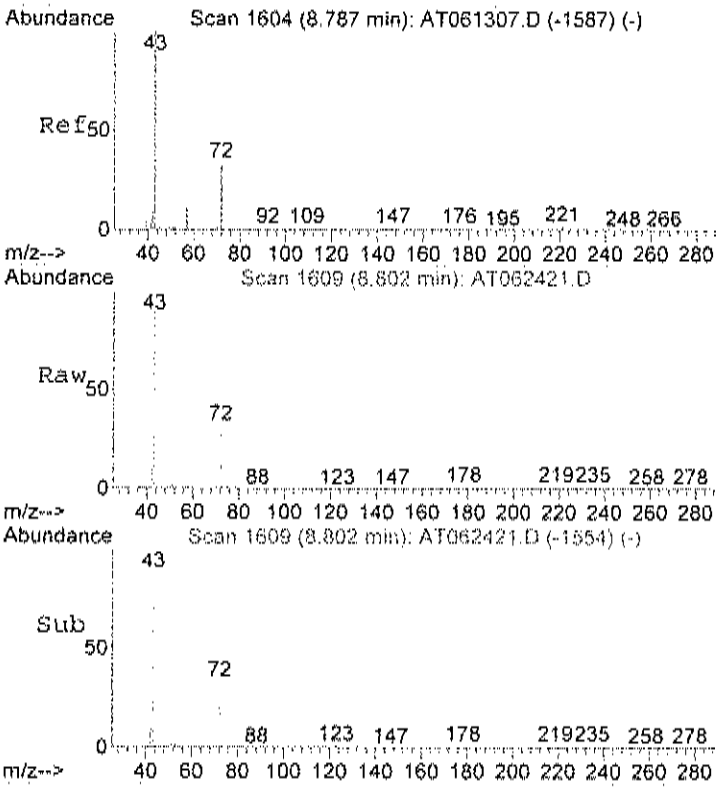


#23
Carbon disulfide
Concen: 0.67 ppb
RT: 7.12 min Scan# 1047
Delta R.T. 0.01 min
Lab File: AT062421.D
Acq: 25 Jun 2022 1:15 am

Tgt Ion: 76 Resp: 88464

Ion	Ratio	Lower	Upper
76	100		
78	10.9	0.0	29.7

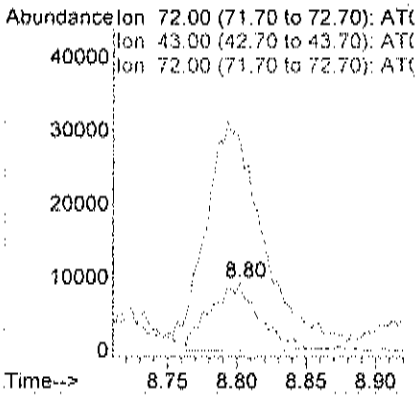


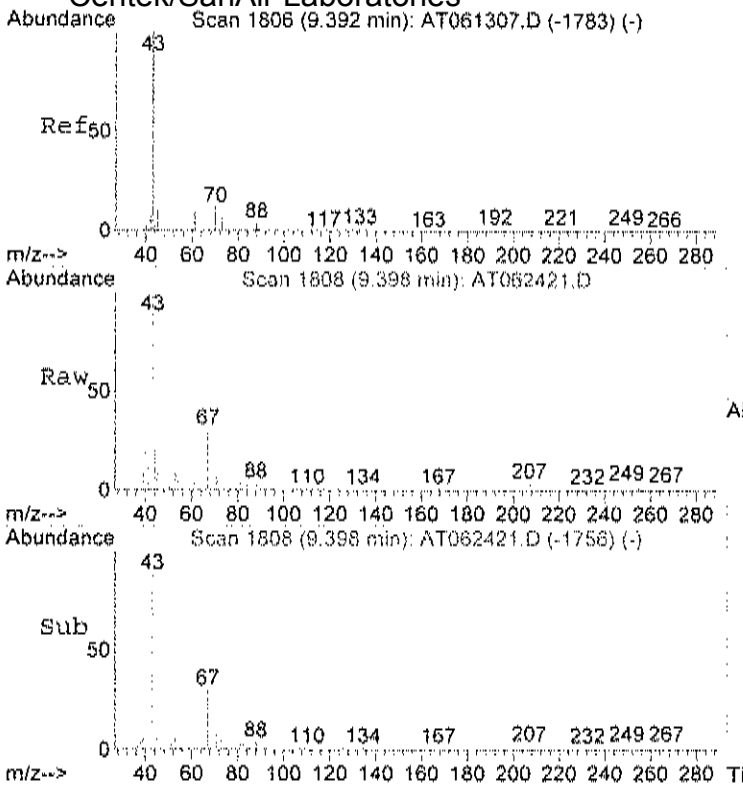


#28
Methyl Ethyl Ketone
Concen: 1.31 ppb
RT: 8.80 min Scan# 1609
Delta R.T. 0.02 min
Lab File: AT062421.D
Acq: 25 Jun 2022 1:15 am

Tgt Ion: 72 Resp: 22534

Ion	Ratio	Lower	Upper
72	100		
43	368.2	0.0	20.0#
72	100.0	80.0	120.0

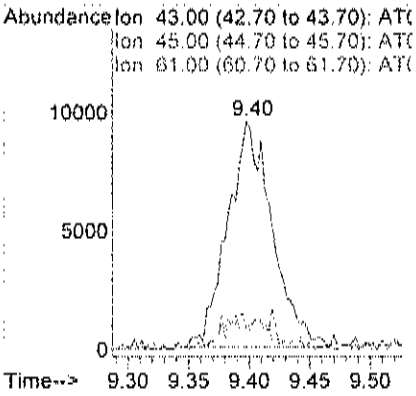


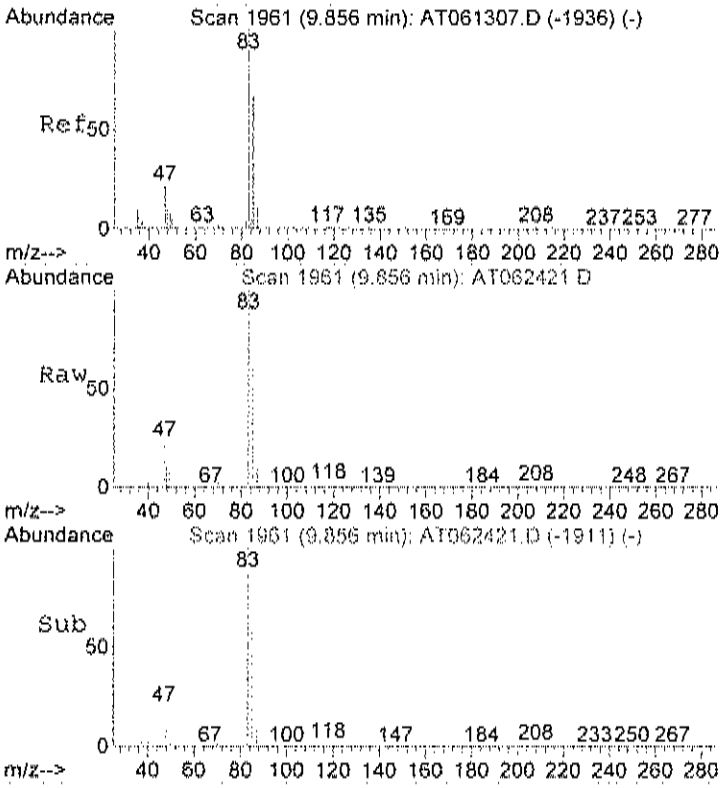


#31
Ethyl acetate
Concen: 0.30 ppb
RT: 9.40 min Scan# 1808
Delta R.T. 0.01 min
Lab File: AT062421.D
Acq: 25 Jun 2022 1:15 am

Tgt Ion: 43 Resp: 24227

Ion	Ratio	Lower	Upper
43	100		
45	16.2	0.0	33.7
61	15.5	0.0	34.7

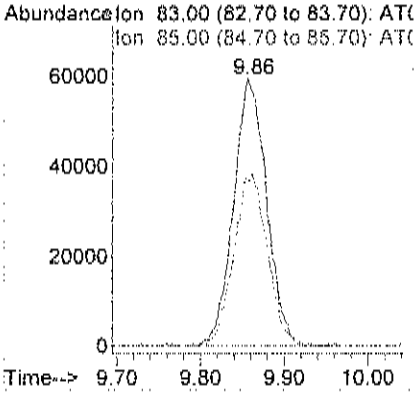


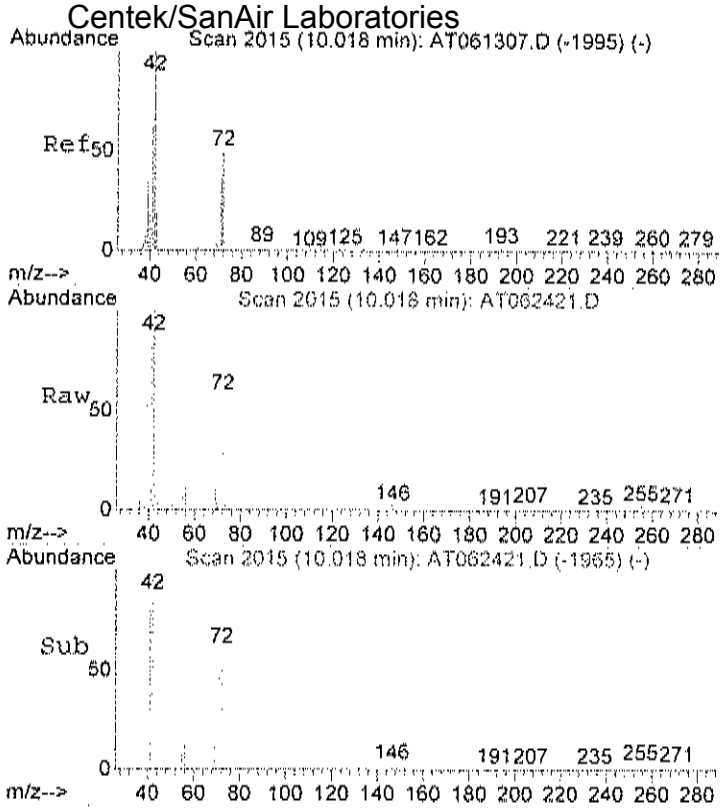


#32
Chloroform
Concen: 1.51 ppb
RT: 9.86 min Scan# 1961
Delta R.T. 0.00 min
Lab File: AT062421.D
Acq: 25 Jun 2022 1:15 am

Tgt Ion: 83 Resp: 164168

Ion	Ratio	Lower	Upper
83	100		
85	65.4	46.5	86.5

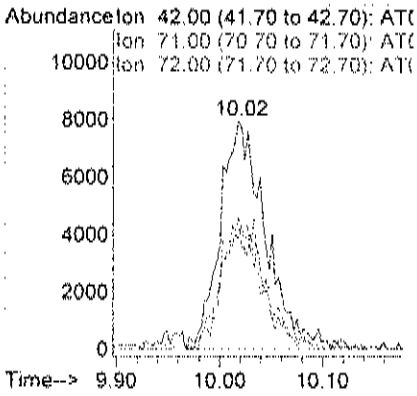


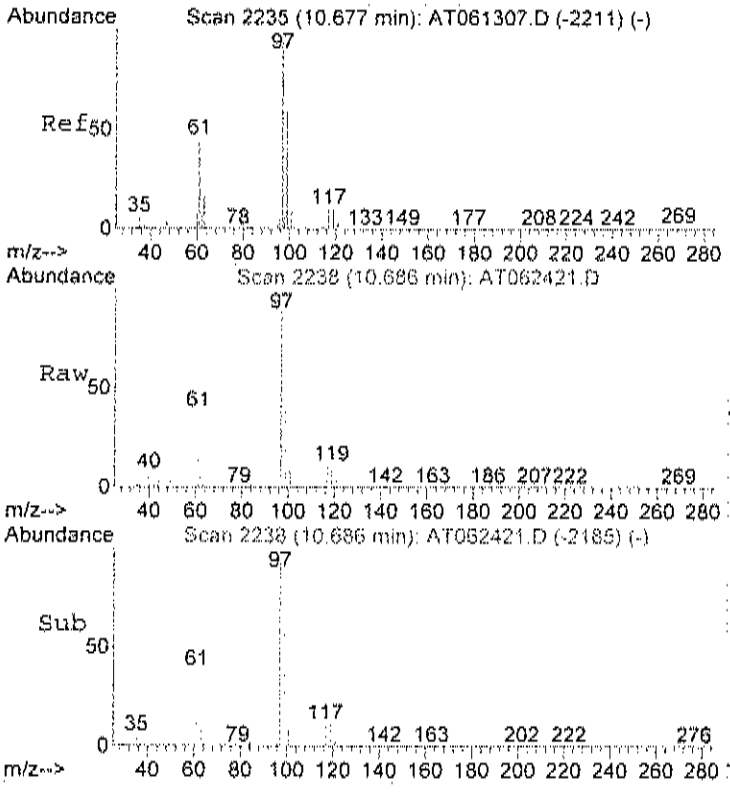


#33
Tetrahydrofuran
Concen: 0.81 ppb
RT: 10.02 min Scan# 2015
Delta R.T. 0.00 min
Lab File: AT062421.D
Acq: 25 Jun 2022 1:15 am

Tgt Ion: 42 Resp: 24543

Ion	Ratio	Lower	Upper
42	100		
71	49.2	38.0	78.0
72	53.1	35.0	75.0

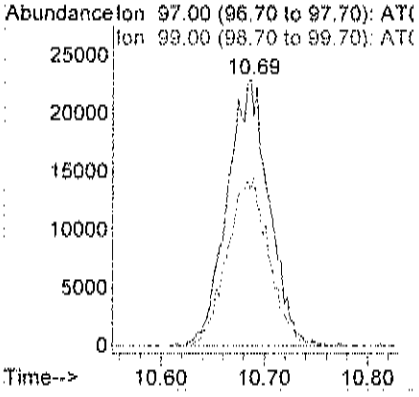


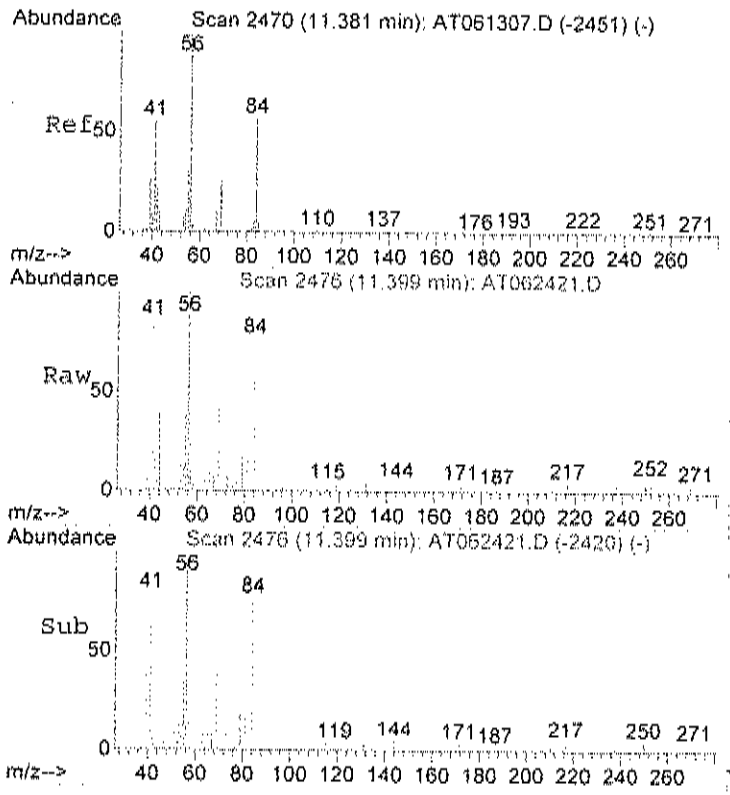


#36
1,1,1-trichloroethane
Concen: 0.64 ppb
RT: 10.69 min Scan# 2238
Delta R.T. 0.01 min
Lab File: AT062421.D
Acq: 25 Jun 2022 1:15 am

Tgt Ion: 97 Resp: 64642

Ion	Ratio	Lower	Upper
97	100		
99	62.4	46.0	86.0

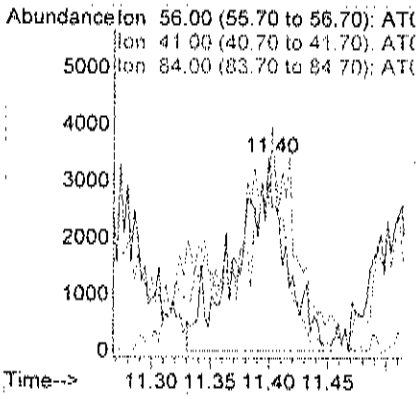


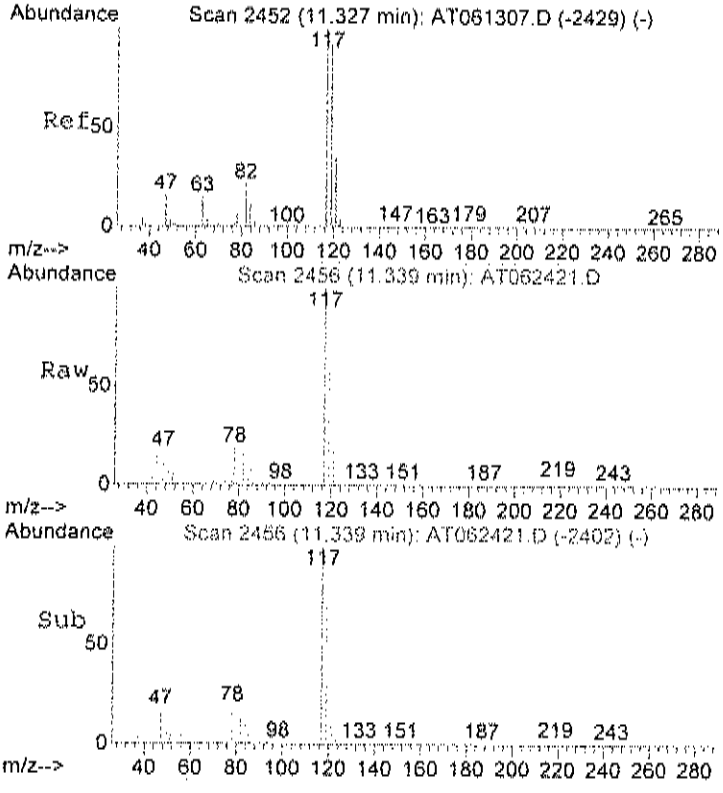


#37
Cyclohexane
Concen: 0.20 ppb m
RT: 11.40 min Scan# 2476
Delta R.T. 0.02 min
Lab File: AT062421.D
Acq: 25 Jun 2022 1:15 am

Tgt Ion: 56 Resp: 9844

Ion	Ratio	Lower	Upper
56	100		
41	67.1	40.3	80.3
84	77.6	133.0	173.0#

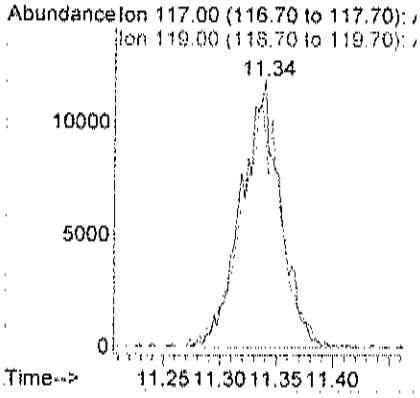


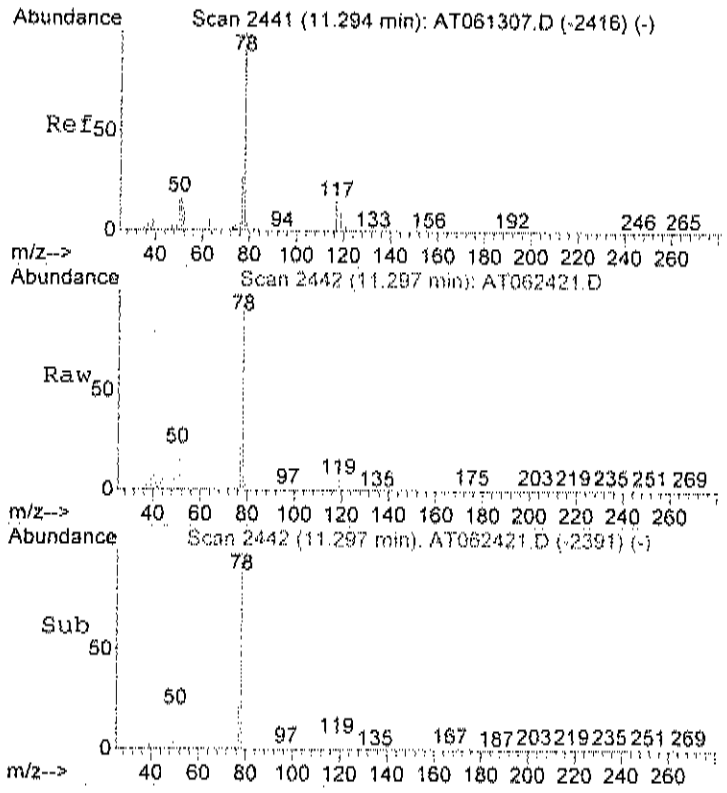


#38
Carbon tetrachloride
Concen: 0.27 ppb
RT: 11.34 min Scan# 2456
Delta R.T. 0.01 min
Lab File: AT062421.D
Acq: 25 Jun 2022 1:15 am

Tgt Ion:117 Resp: 28506

Ion	Ratio	Lower	Upper
117	100		
119	94.9	77.2	117.2

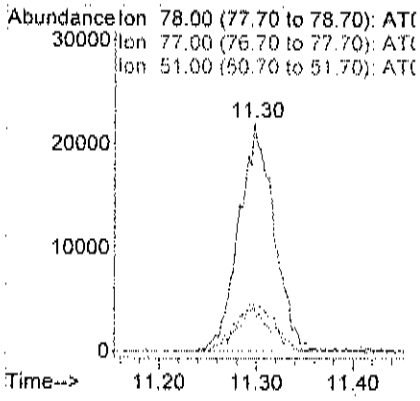


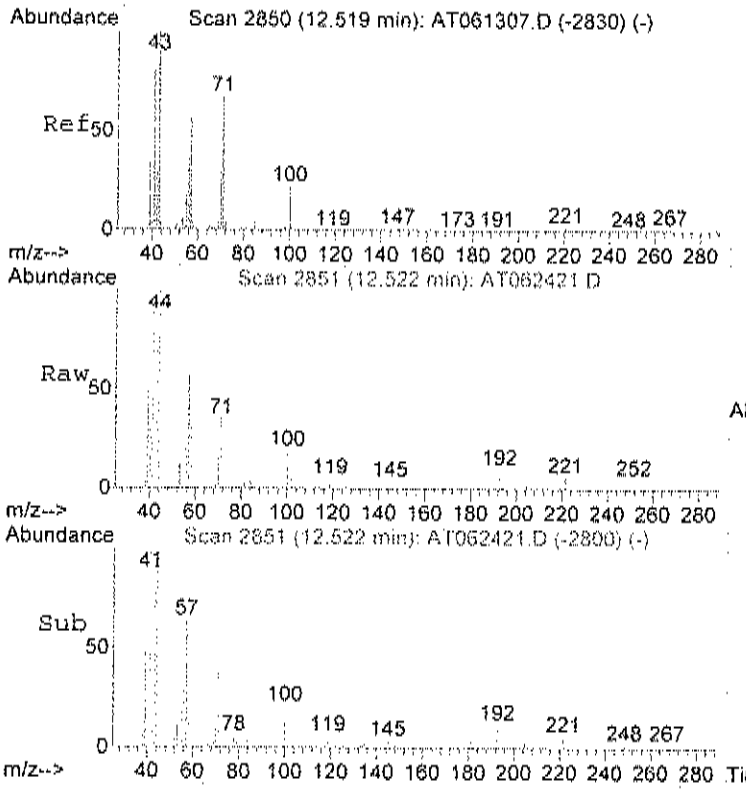


#39
Benzene
Concen: 0.48 ppb
RT: 11.30 min Scan# 2442
Delta R.T. 0.00 min
Lab File: AT062421.D
Acq: 25 Jun 2022 1:15 am

Tgt Ion: 78 Resp: 55914

Ion	Ratio	Lower	Upper
78	100		
77	23.8	3.1	43.1
51	19.0	0.0	37.8

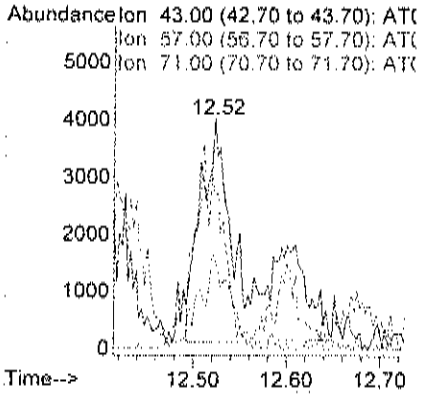


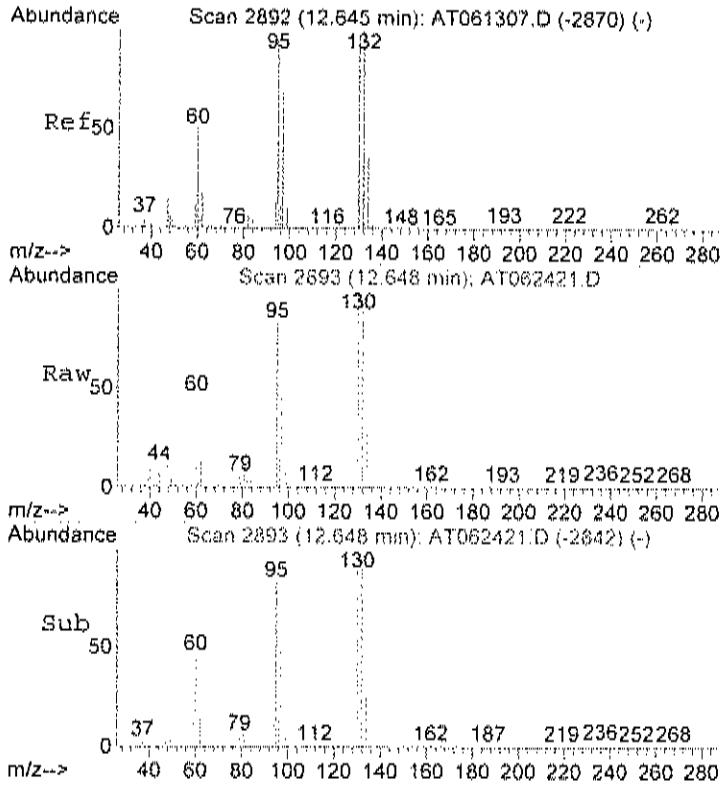


#43
Heptane
Concen: 0.25 ppb
RT: 12.52 min Scan# 2851
Delta R.T. 0.00 min
Lab File: AT062421.D
Acq: 25 Jun 2022 1:15 am

Tgt Ion: 43 Resp: 13680

Ion	Ratio	Lower	Upper
43	100		
57	49.1	41.7	81.7
71	25.2	53.4	93.4#

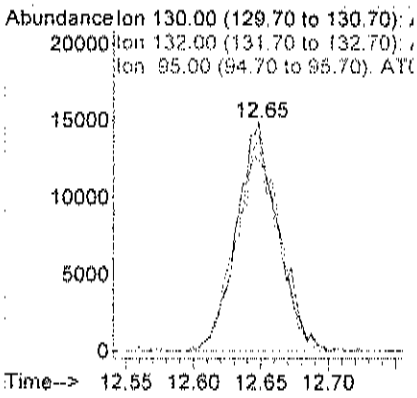


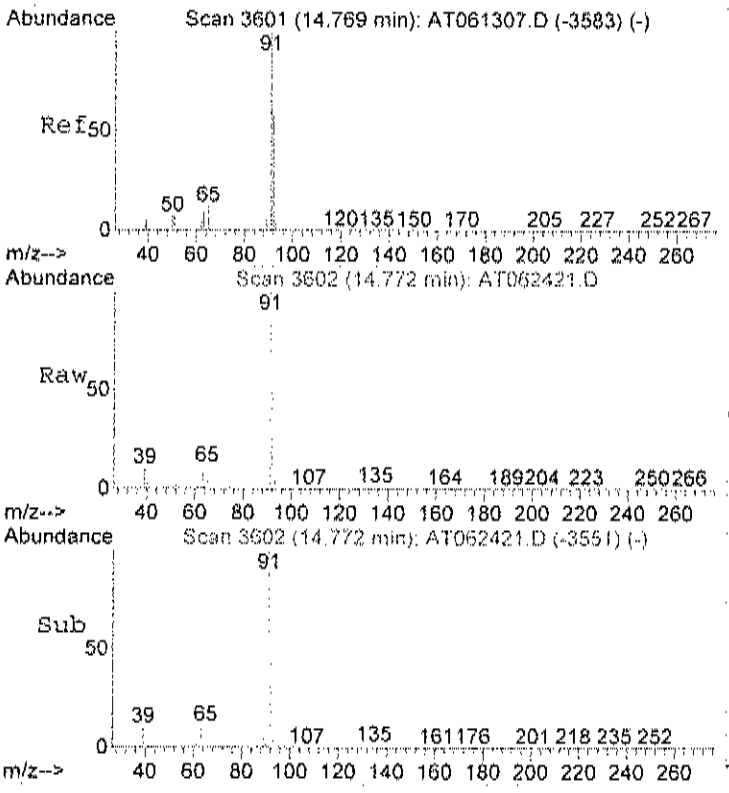


#44
Trichloroethene
Concen: 0.51 ppb
RT: 12.65 min Scan# 2893
Delta R.T. 0.00 min
Lab File: AT062421.D
Acq: 25 Jun 2022 1:15 am

Tgt Ion:130 Resp: 32255

Ion	Ratio	Lower	Upper
130	100		
132	95.0	76.7	116.7
95	94.8	74.7	114.7

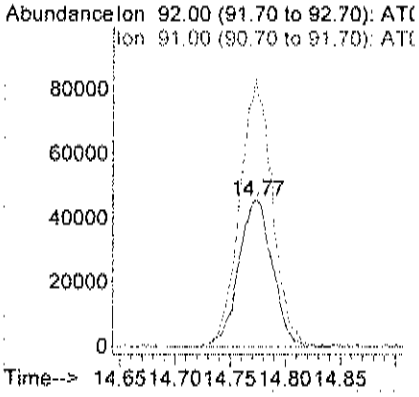


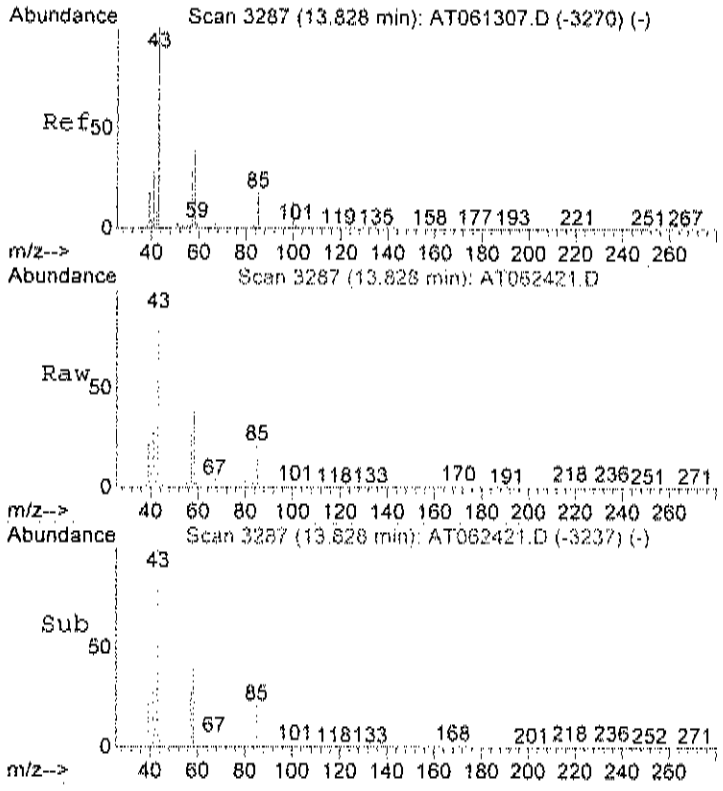


#51
Toluene
Concen: 1.20 ppb
RT: 14.77 min Scan# 3602
Delta R.T. 0.00 min
Lab File: AT062421.D
Acq: 25 Jun 2022 1:15 am

Tgt Ion: 92 Resp: 97762

Ion	Ratio	Lower	Upper
92	100		
91	176.6	154.4	194.4

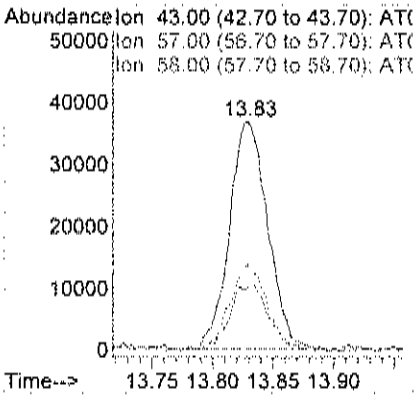


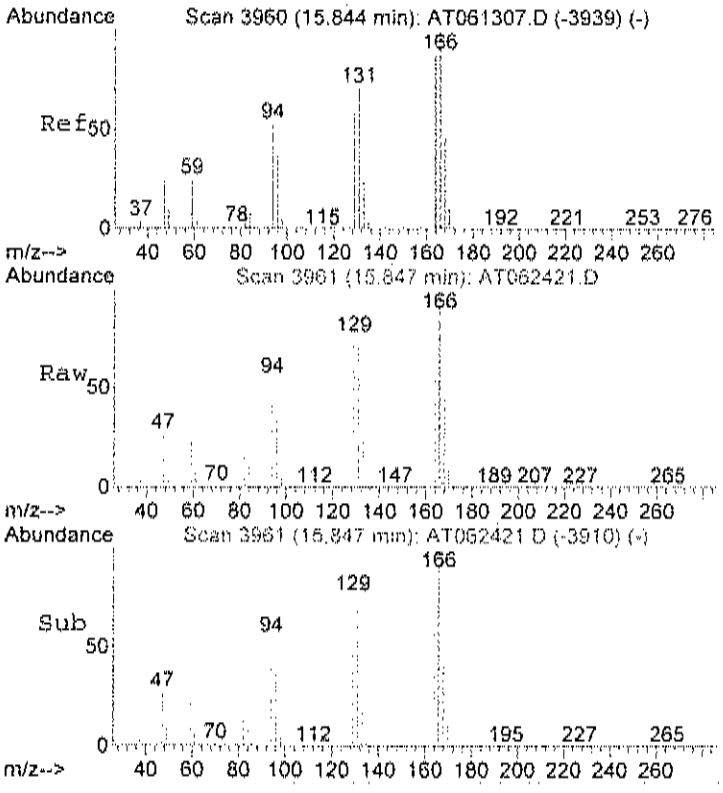


#52
Methyl Isobutyl Ketone
Concen: 1.11 ppb
RT: 13.83 min Scan# 3287
Delta R.T. 0.00 min
Lab File: AT062421.D
Acq: 25 Jun 2022 1:15 am

Tgt Ion: 43 Resp: 80964

Ion	Ratio	Lower	Upper
43	100		
57	29.2	9.3	49.3
58	36.8	22.0	62.0

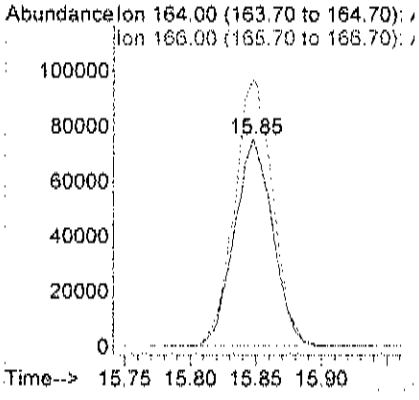


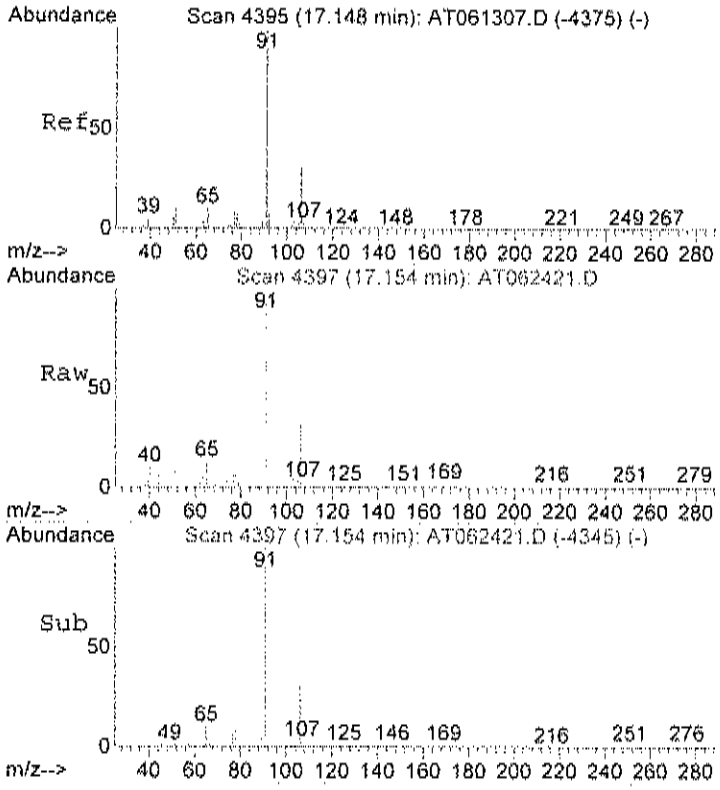


#56
Tetrachloroethylene
Concen: 2.45 ppb
RT: 15.85 min Scan# 3961
Delta R.T. 0.00 min
Lab File: AT062421.D
Acq: 25 Jun 2022 1:15 am

Tgt Ion:164 Resp: 154557

Ion	Ratio	Lower	Upper
164	100		
166	128.7	107.7	147.7

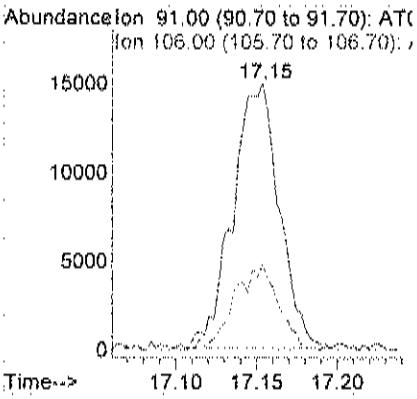


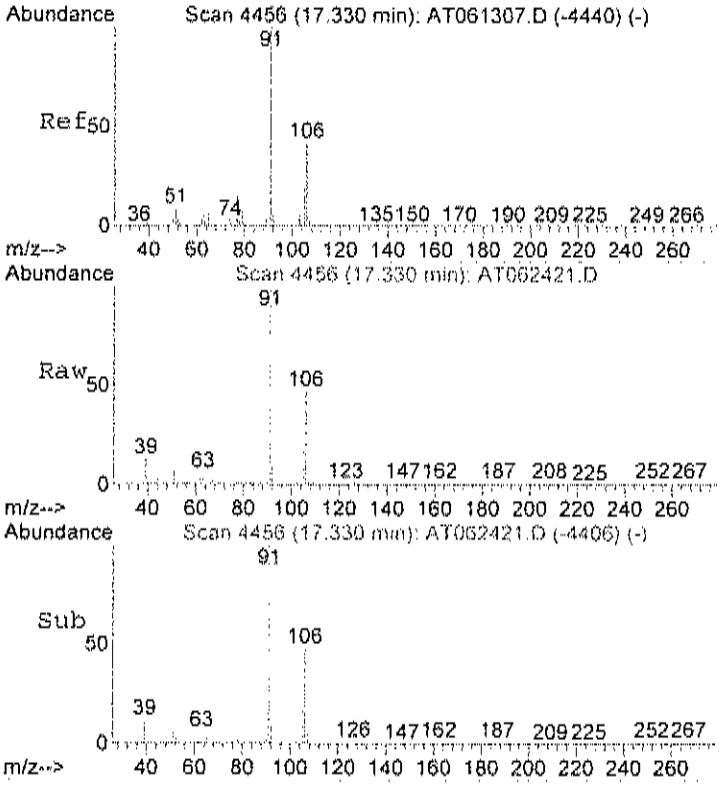


#58
Ethylbenzene
Concen: 0.16 ppb
RT: 17.15 min Scan# 4397
Delta R.T. 0.01 min
Lab File: AT062421.D
Acq: 25 Jun 2022 1:15 am

Tgt Ion: 91 Resp: 29944

Ion	Ratio	Lower	Upper
91	100		
106	30.6	11.5	51.5

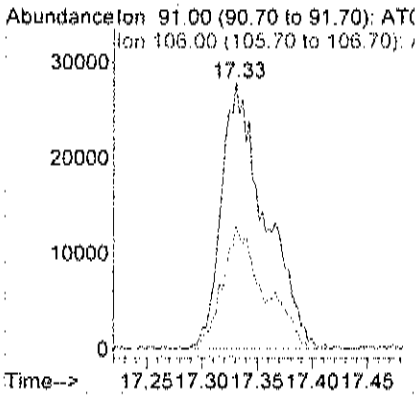


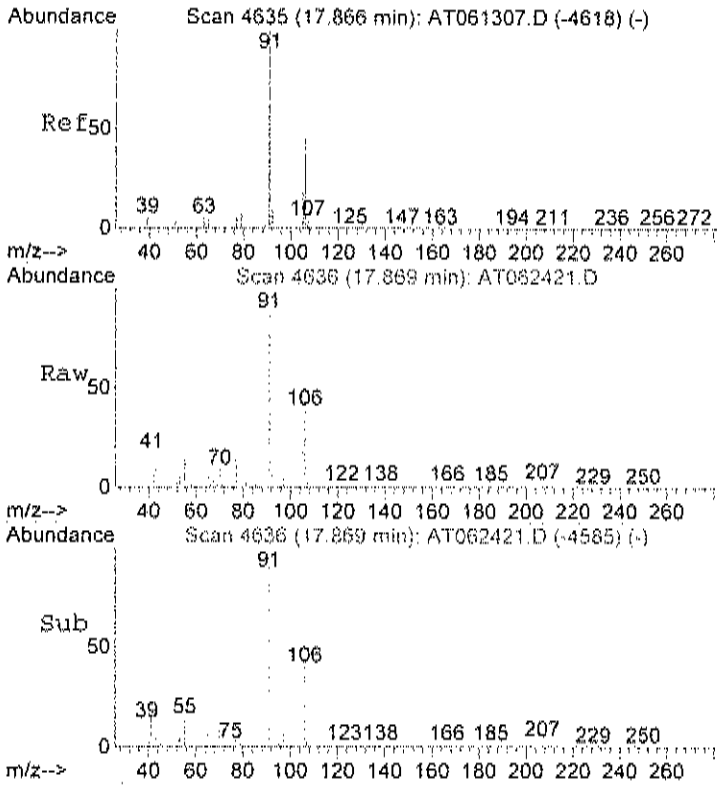


#59
m&p-xylene
Concen: 0.50 ppb
RT: 17.33 min Scan# 4456
Delta R.T. 0.00 min
Lab File: AT062421.D
Acq: 25 Jun 2022 1:15 am

Tgt Ion: 91 Resp: 76416

Ion	Ratio	Lower	Upper
91	100		
106	44.8	27.9	67.9

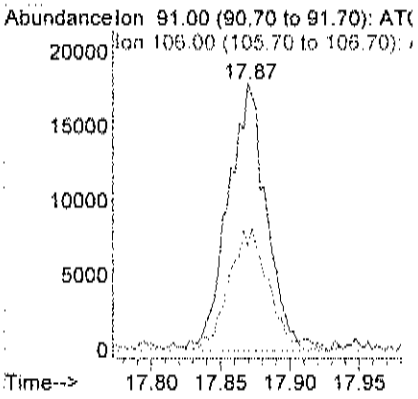


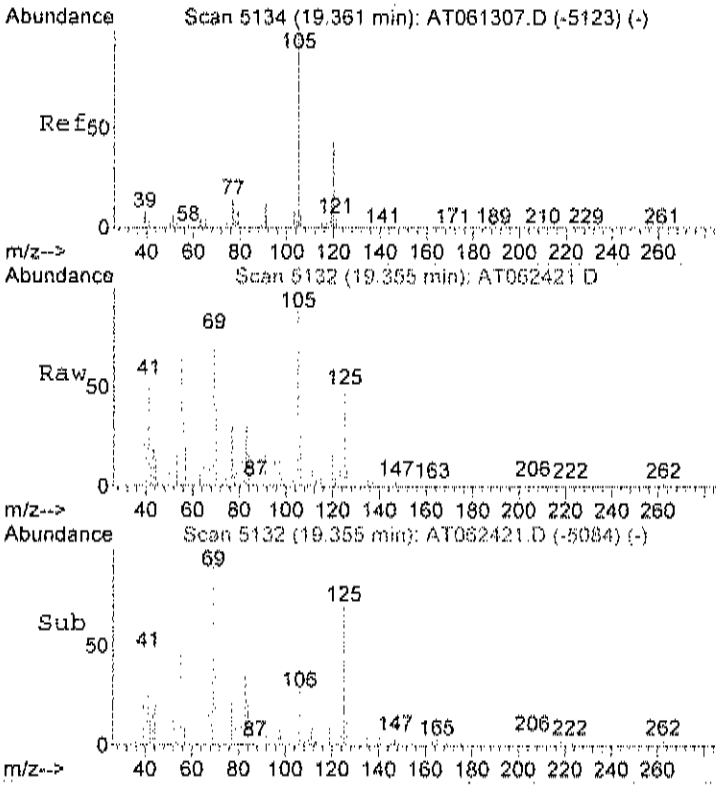


#63
o-xylene
Concen: 0.21 ppb
RT: 17.87 min Scan# 4636
Delta R.T. 0.00 min
Lab File: AT062421.D
Acq: 25 Jun 2022 1:15 am

Tgt Ion: 91 Resp: 34904

Ion	Ratio	Lower	Upper
91	100		
106	46.1	25.1	65.1

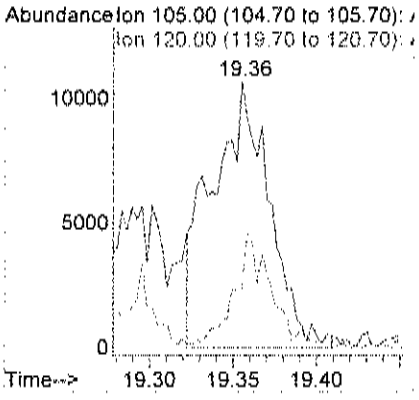


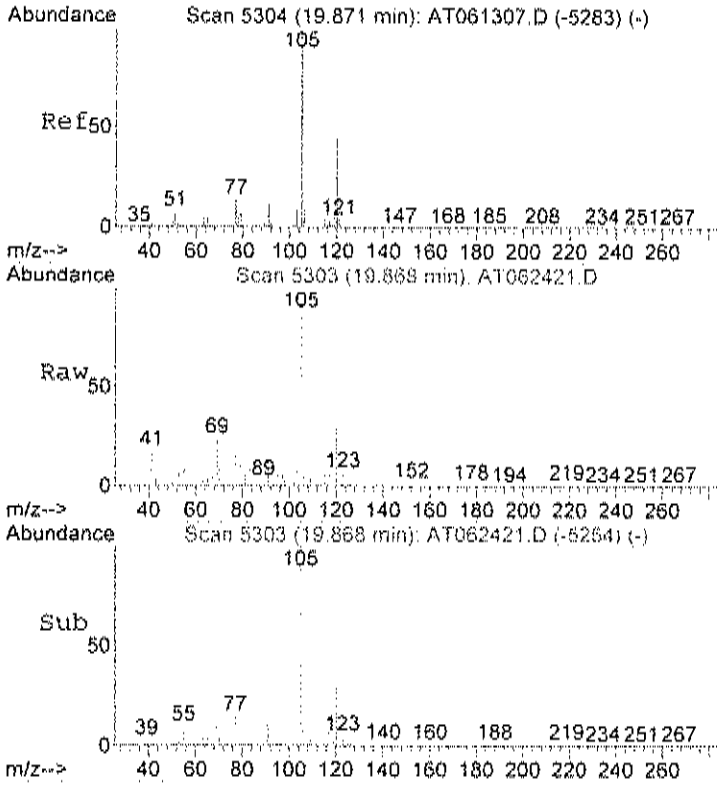


#70
1,3,5-trimethylbenzene
Concen: 0.13 ppb m
RT: 19.36 min Scan# 5132
Delta R.T. -0.01 min
Lab File: AT062421.D
Acq: 25 Jun 2022 1:15 am

Tgt Ion:105 Resp: 25453

Ion	Ratio	Lower	Upper
105	100		
120	27.7	26.2	66.2

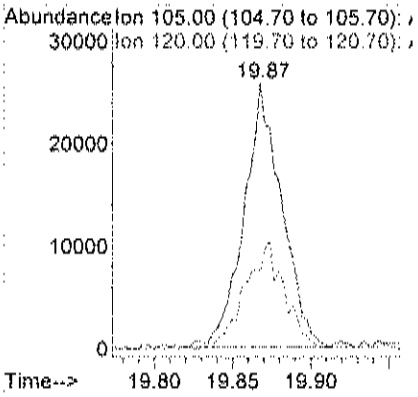


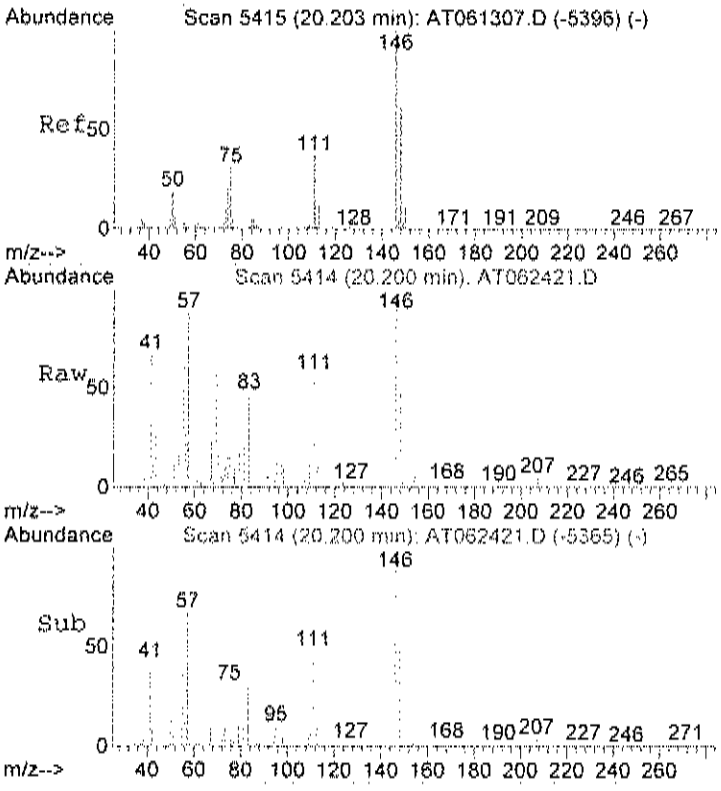


#71
1,2,4-trimethylbenzene
Concen: 0.23 ppb
RT: 19.87 min Scan# 5303
Delta R.T. -0.00 min
Lab File: AT062421.D
Acq: 25 Jun 2022 1:15 am

Tgt Ion:105 Resp: 43256

Ion	Ratio	Lower	Upper
105	100		
120	43.3	23.8	63.8

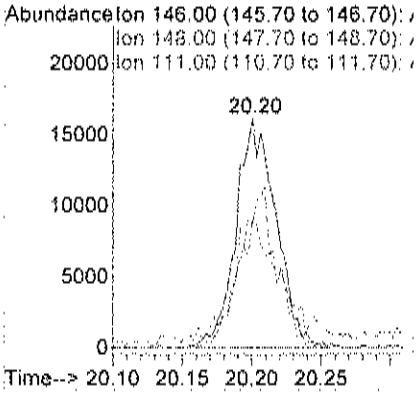


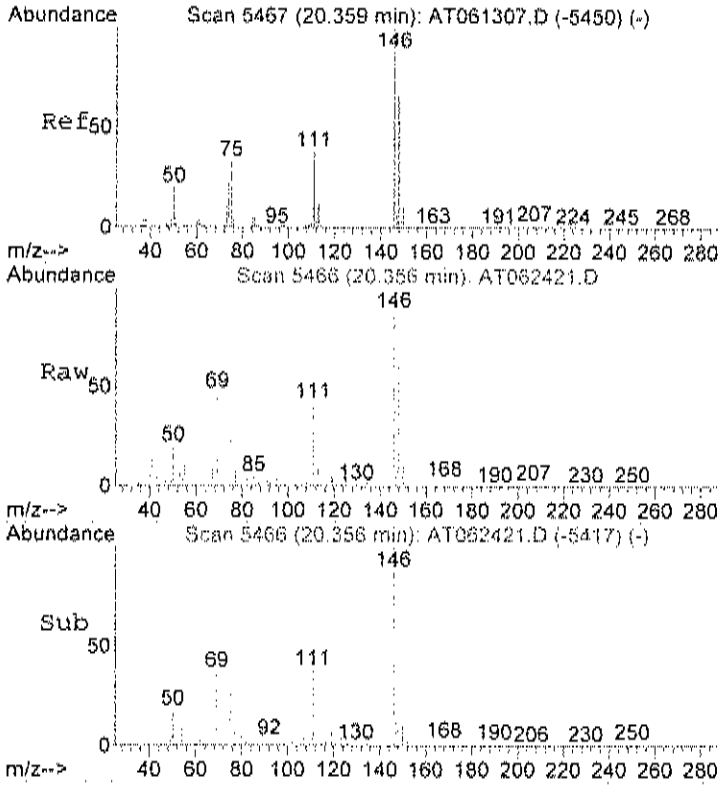


#72
1,3-dichlorobenzene
Concen: 0.27 ppb
RT: 20.20 min Scan# 5414
Delta R.T. -0.00 min
Lab File: AT062421.D
Acq: 25 Jun 2022 1:15 am

Tgt Ion:146 Resp: 32379

Ion	Ratio	Lower	Upper
146	100		
148	64.0	44.9	84.9
111	59.8	19.7	59.7#

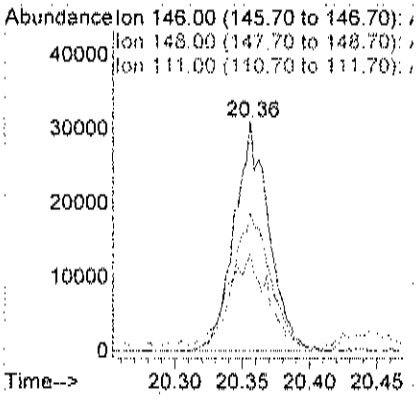


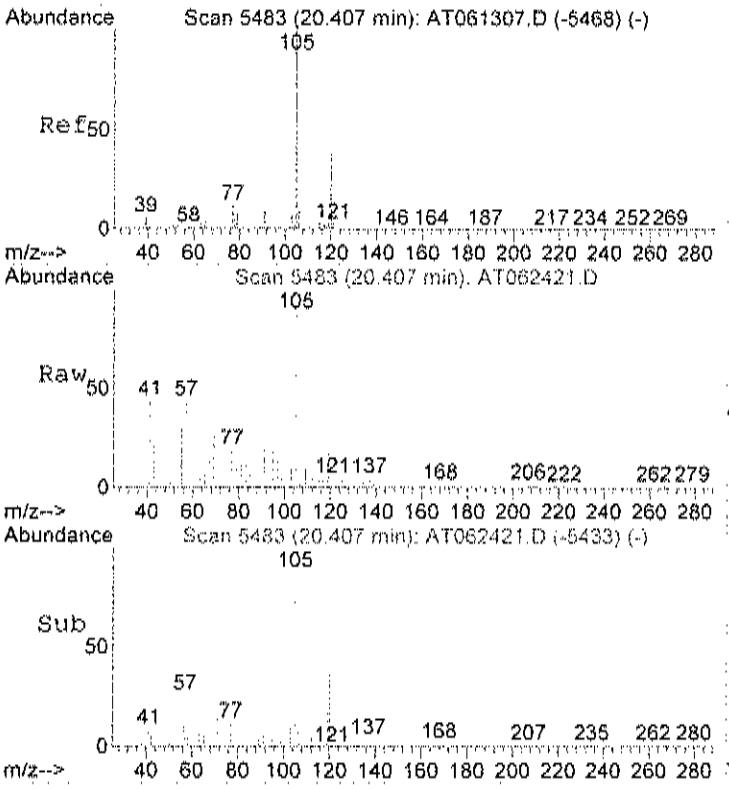


#74
1,4-dichlorobenzene
Concen: 0.47 ppb
RT: 20.36 min Scan# 5466
Delta R.T. -0.00 min
Lab File: AT062421.D
Acq: 25 Jun 2022 1:15 am

Tgt Ion:146 Resp: 55348

Ion	Ratio	Lower	Upper
146	100		
148	65.0	44.4	84.4
111	48.9	17.5	57.5

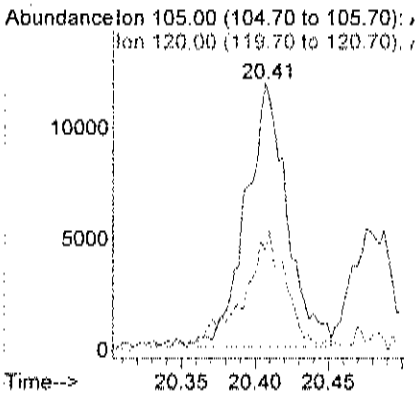




#75
1,2,3-trimethylbenzene
Concen: 0.12 ppb
RT: 20.41 min Scan# 5483
Delta R.T. 0.00 min
Lab File: AT062421.D
Acq: 25 Jun 2022 1:15 am

Tgt Ion:105 Resp: 23190

Ion	Ratio	Lower	Upper
105	100		
120	49.6	30.7	51.1



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062830.D
Acq On : 29 Jun 2022 5:33 am
Sample : C2206048-012A 10X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 29 07:10:16 2022

Vial: 22
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.69	128	22382	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.00	114	101250	1.00	ppb	0.00
50) Chlorobenzene-d5	16.82	117	87447	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.61	95	55734	0.88	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 88.00%			
Target Compounds						Qvalue
14) Freon 11	5.74	101	46265	0.36	ppb	99
15) Acetone	5.90	58	67893m	5.22	ppb	
56) Tetrachloroethylene	15.84	164	11440	0.29	ppb	93

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

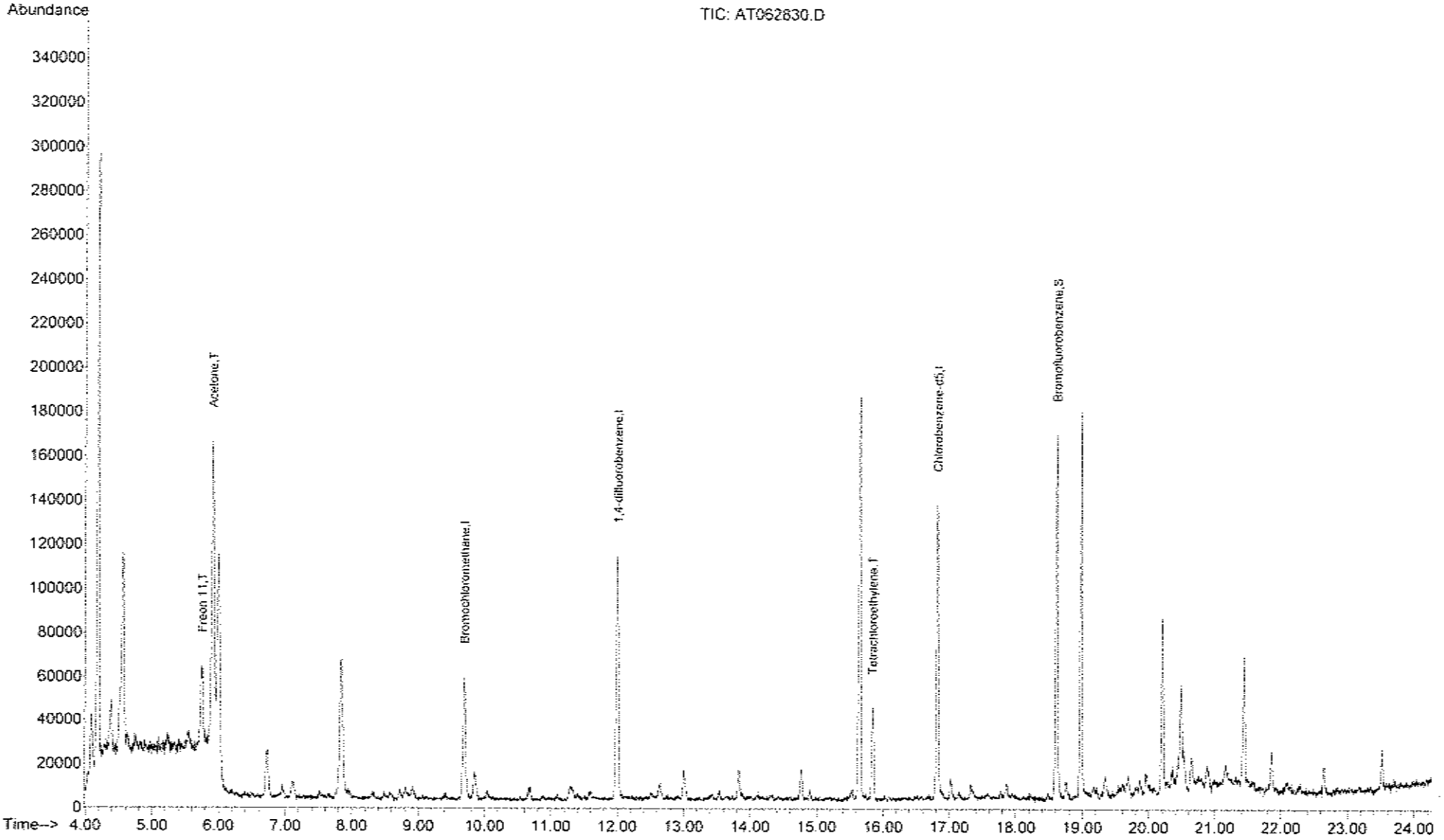
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062830.D
Acq On : 29 Jun 2022 5:33 am
Sample : C2206048-012A 10X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 29 11:41 2022

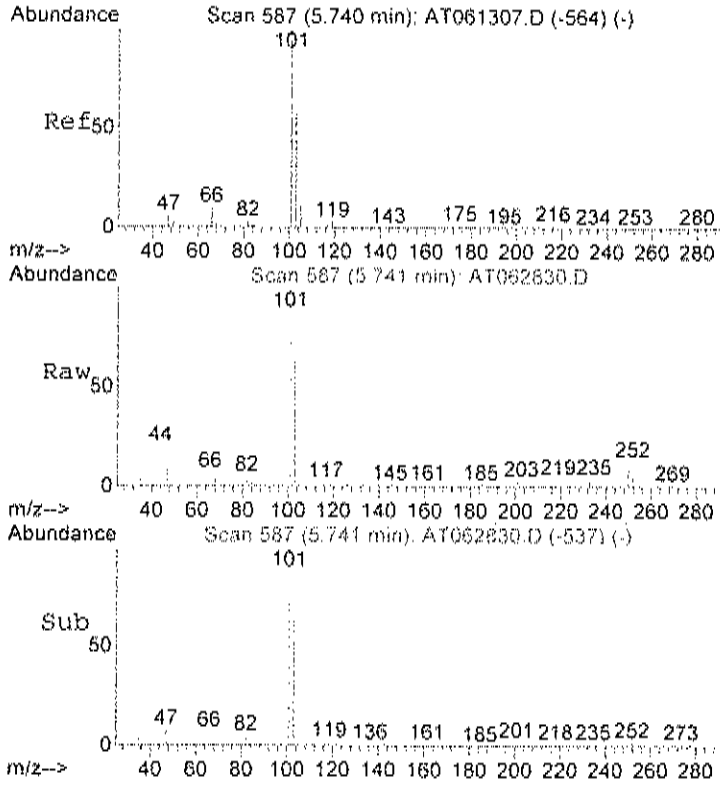
Vial: 22
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



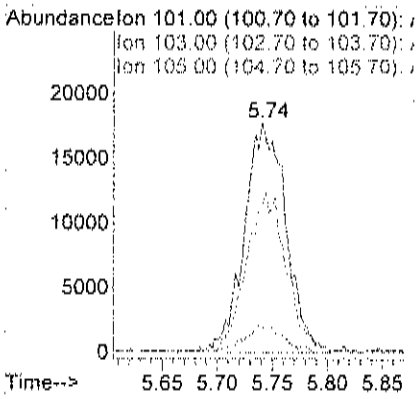
Centek/SanAir Laboratories

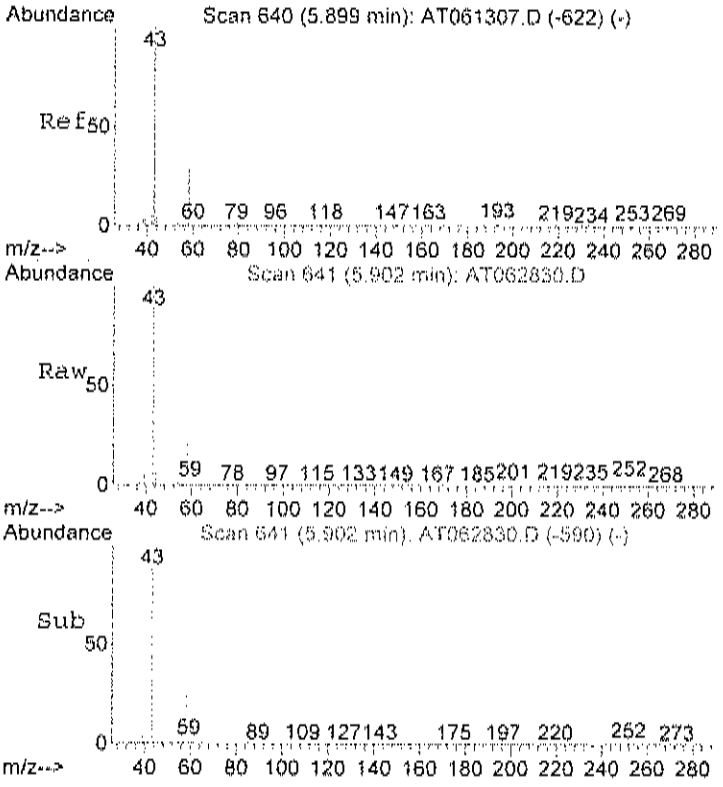


#14
Freon 11
Concen: 0.36 ppb
RT: 5.74 min Scan# 587
Delta R.T. 0.00 min
Lab File: AT062830.D
Acq: 29 Jun 2022 5:33 am

Tgt Ion:101 Resp: 46265

Ion	Ratio	Lower	Upper
101	100		
103	67.5	46.3	86.3
105	11.4	0.0	31.2

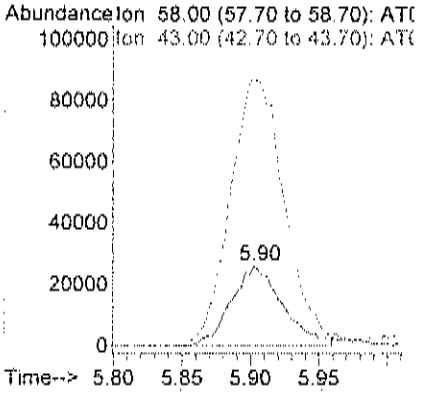


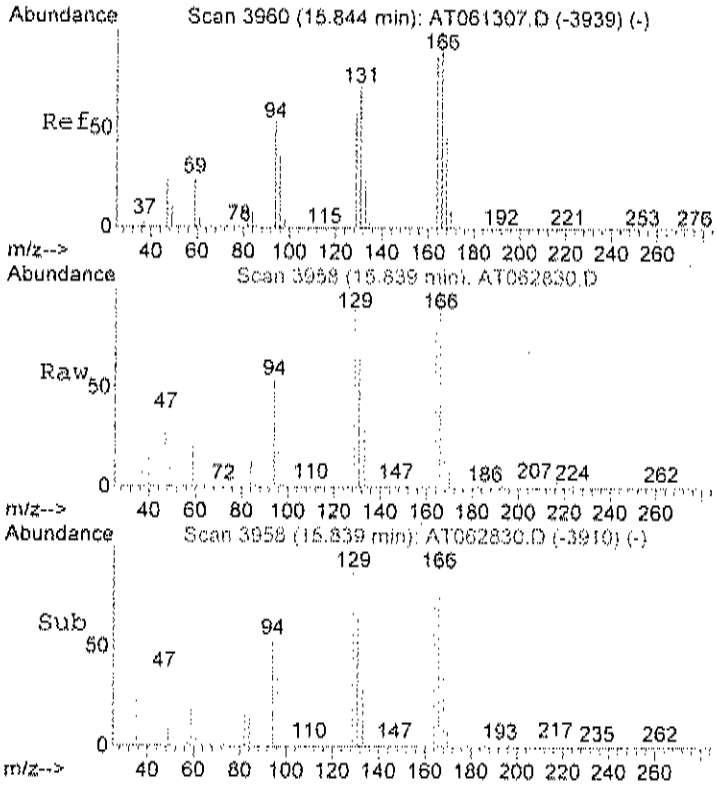


#15
Acetone
Concen: 5.22 ppb m
RT: 5.90 min Scan# 641
Delta R.T. 0.00 min
Lab File: AT062830.D
Acq: 29 Jun 2022 5:33 am

Tgt Ion: 58 Resp: 67893

Ion	Ratio	Lower	Upper
58	100		
43	370.8	268.9	328.9#

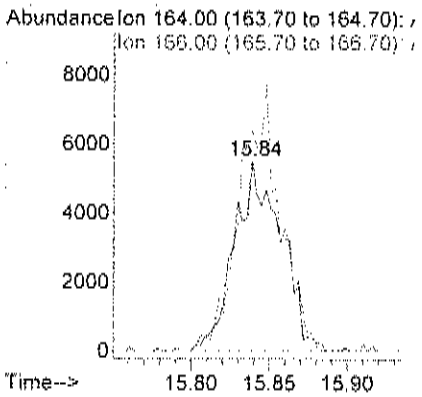




#56
Tetrachloroethylene
Concen: 0.29 ppb
RT: 15.84 min Scan# 3958
Delta R.T. -0.01 min
Lab File: AT062830.D
Acq: 29 Jun 2022 5:33 am

Tgt Ion:164 Resp: 11440

Ion	Ratio	Lower	Upper
164	100		
166	119.9	107.7	147.7



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062831.D Vial: 23
Acq On : 29 Jun 2022 6:15 am Operator: RJP
Sample : C2206048-012A 40X Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 29 07:10:17 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.68	128	22928	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.00	114	100704	1.00	ppb	0.00
50) Chlorobenzene-d5	16.82	117	83975	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.56	95	53329	0.88	ppb	-0.05
Spiked Amount 1.000	Range 70 - 130		Recovery = 88.00%			
Target Compounds						Qvalue
15) Acetone	5.91	58	14142m	1.06	ppb	

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

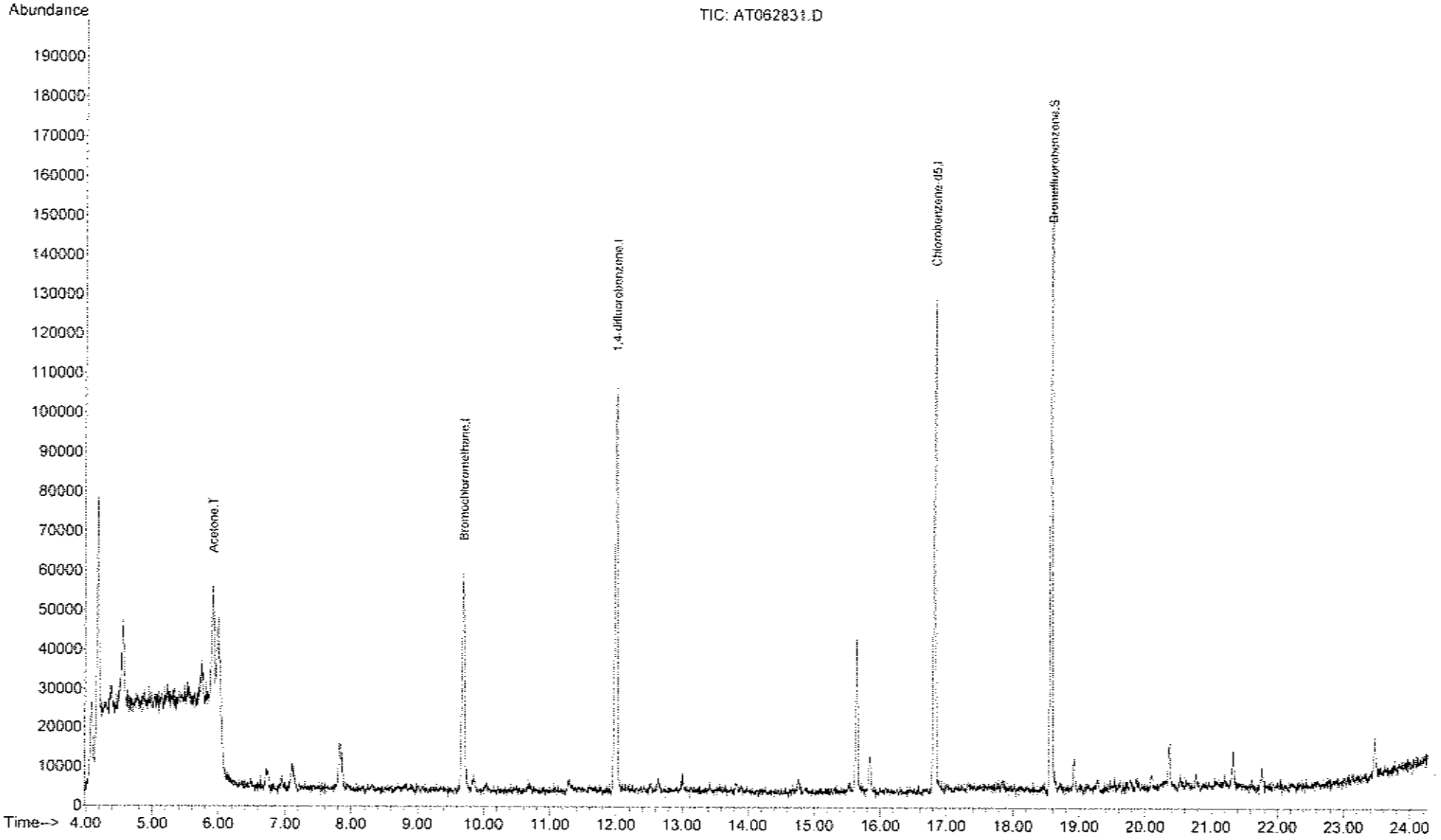
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062831.D
Acq On : 29 Jun 2022 6:15 am
Sample : C2206048-012A 40X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 29 11:42 2022

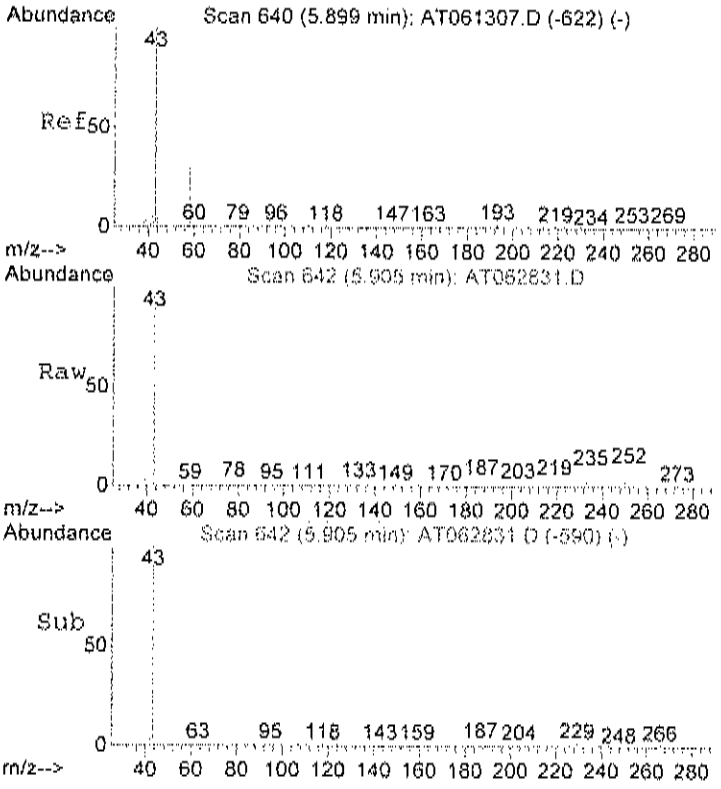
Vial: 23
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



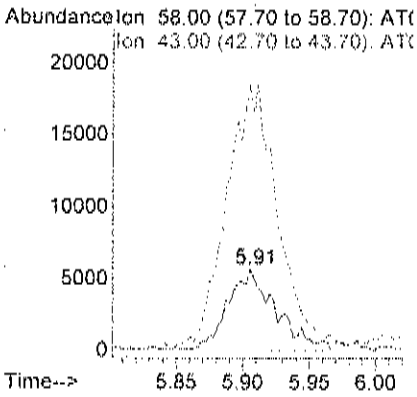
Centek/SanAir Laboratories



#15
Acetone
Concen: 1.06 ppb m
RT: 5.91 min Scan# 642
Delta R.T. 0.01 min
Lab File: AT062831.D
Acq: 29 Jun 2022 6:15 am

Tgt Ion: 58 Resp: 14142

Ion	Ratio	Lower	Upper
58	100		
43	354.4	268.9	328.9#



Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-12
Lab Order:	C2206048	**Tag Number:**	234,147
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-013A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-14			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: NP
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,2,4-Trimethylbenzene	7.6	1.4		ppbV	9	6/29/2022 3:48:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,3,5-Trimethylbenzene	2.8	1.4		ppbV	9	6/29/2022 3:48:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,3-Dichlorobenzene	0.93	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/25/2022 2:30:00 AM
2,2,4-trimethylpentane	0.25	0.15		ppbV	1	6/25/2022 2:30:00 AM
4-ethyltoluene	1.1	0.15		ppbV	1	6/25/2022 2:30:00 AM
Acetone	89	27		ppbV	90	6/29/2022 4:31:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Benzene	2.7	1.4		ppbV	9	6/29/2022 3:48:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Bromoform	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Carbon disulfide	45	14		ppbV	90	6/29/2022 4:31:00 PM
Carbon tetrachloride	0.17	0.15		ppbV	1	6/25/2022 2:30:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Chloroethane	0.21	0.15		ppbV	1	6/25/2022 2:30:00 AM
Chloroform	0.51	0.15		ppbV	1	6/25/2022 2:30:00 AM
Chloromethane	0.66	0.15		ppbV	1	6/25/2022 2:30:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Cyclohexane	0.91	0.15		ppbV	1	6/25/2022 2:30:00 AM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-013A

Client Sample ID: SVW-12
Tag Number: 234,147
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Ethyl acetate	0.61	0.15		ppbV	1	6/25/2022 2:30:00 AM
Ethylbenzene	1.0	0.15		ppbV	1	6/25/2022 2:30:00 AM
Freon 11	0.36	0.15		ppbV	1	6/25/2022 2:30:00 AM
Freon 113	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Freon 114	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Freon 12	0.42	0.15		ppbV	1	6/25/2022 2:30:00 AM
Heptane	1.3	0.15		ppbV	1	6/25/2022 2:30:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Hexane	1.9	0.15		ppbV	1	6/25/2022 2:30:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
m&p-Xylene	3.8	0.30		ppbV	1	6/25/2022 2:30:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/25/2022 2:30:00 AM
Methyl Ethyl Ketone	4.5	2.7		ppbV	9	6/29/2022 3:48:00 PM
Methyl Isobutyl Ketone	110	27		ppbV	90	6/29/2022 4:31:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Methylene chloride	8.0	1.4		ppbV	9	6/29/2022 3:48:00 PM
o-Xylene	3.0	1.4		ppbV	9	6/29/2022 3:48:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Styrene	0.57	0.15		ppbV	1	6/25/2022 2:30:00 AM
Tetrachloroethylene	1.7	0.15		ppbV	1	6/25/2022 2:30:00 AM
Tetrahydrofuran	3.9	1.4		ppbV	9	6/29/2022 3:48:00 PM
Toluene	5.4	1.4		ppbV	9	6/29/2022 3:48:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Trichloroethene	0.20	0.15		ppbV	1	6/25/2022 2:30:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 2:30:00 AM
Surr: Bromofluorobenzene	97.0	46.7-129		%REC	1	6/25/2022 2:30:00 AM

Qualifiers:

- `*` Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-013A

Client Sample ID: SVW-12
Tag Number: 234,147
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 2:30:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/25/2022 2:30:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 2:30:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 2:30:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 2:30:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/25/2022 2:30:00 AM
1,2,4-Trimethylbenzene	37	6.9		ug/m3	9	6/29/2022 3:48:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/25/2022 2:30:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 2:30:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 2:30:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/25/2022 2:30:00 AM
1,3,5-Trimethylbenzene	14	6.9		ug/m3	9	6/29/2022 3:48:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/25/2022 2:30:00 AM
1,3-Dichlorobenzene	5.6	0.90		ug/m3	1	6/25/2022 2:30:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 2:30:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/25/2022 2:30:00 AM
2,2,4-trimethylpentane	1.2	0.70		ug/m3	1	6/25/2022 2:30:00 AM
4-ethyltoluene	5.3	0.74		ug/m3	1	6/25/2022 2:30:00 AM
Acetone	210	64		ug/m3	90	6/29/2022 4:31:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/25/2022 2:30:00 AM
Benzene	8.6	4.5		ug/m3	9	6/29/2022 3:48:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/25/2022 2:30:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/25/2022 2:30:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/25/2022 2:30:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/25/2022 2:30:00 AM
Carbon disulfide	140	44		ug/m3	90	6/29/2022 4:31:00 PM
Carbon tetrachloride	1.1	0.94		ug/m3	1	6/25/2022 2:30:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/25/2022 2:30:00 AM
Chloroethane	0.55	0.40		ug/m3	1	6/25/2022 2:30:00 AM
Chloroform	2.5	0.73		ug/m3	1	6/25/2022 2:30:00 AM
Chloromethane	1.4	0.31		ug/m3	1	6/25/2022 2:30:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 2:30:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 2:30:00 AM
Cyclohexane	3.1	0.52		ug/m3	1	6/25/2022 2:30:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/25/2022 2:30:00 AM
Ethyl acetate	2.2	0.54		ug/m3	1	6/25/2022 2:30:00 AM
Ethylbenzene	4.3	0.65		ug/m3	1	6/25/2022 2:30:00 AM
Freon 11	2.0	0.84		ug/m3	1	6/25/2022 2:30:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/25/2022 2:30:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/25/2022 2:30:00 AM

Qualifiers:

- `.` Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-013A

Client Sample ID: SVW-12
Tag Number: 234,147
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.1	0.74		ug/m3	1	6/25/2022 2:30:00 AM
Heptane	5.3	0.61		ug/m3	1	6/25/2022 2:30:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/25/2022 2:30:00 AM
Hexane	6.8	0.53		ug/m3	1	6/25/2022 2:30:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/25/2022 2:30:00 AM
m&p-Xylene	16	1.3		ug/m3	1	6/25/2022 2:30:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/25/2022 2:30:00 AM
Methyl Ethyl Ketone	13	8.0		ug/m3	9	6/29/2022 3:48:00 PM
Methyl Isobutyl Ketone	450	110		ug/m3	90	6/29/2022 4:31:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/25/2022 2:30:00 AM
Methylene chloride	28	4.9		ug/m3	9	6/29/2022 3:48:00 PM
o-Xylene	13	6.1		ug/m3	9	6/29/2022 3:48:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/25/2022 2:30:00 AM
Styrene	2.4	0.64		ug/m3	1	6/25/2022 2:30:00 AM
Tetrachloroethylene	11	1.0		ug/m3	1	6/25/2022 2:30:00 AM
Tetrahydrofuran	11	4.1		ug/m3	9	6/29/2022 3:48:00 PM
Toluene	20	5.3		ug/m3	9	6/29/2022 3:48:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 2:30:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 2:30:00 AM
Trichloroethene	1.1	0.81		ug/m3	1	6/25/2022 2:30:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/25/2022 2:30:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/25/2022 2:30:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/25/2022 2:30:00 AM

Qualifiers:

- . Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062422.D
Acq On : 25 Jun 2022 2:30 am
Sample : C2206048-013A
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 27 11:12:06 2022

Vial: 22
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

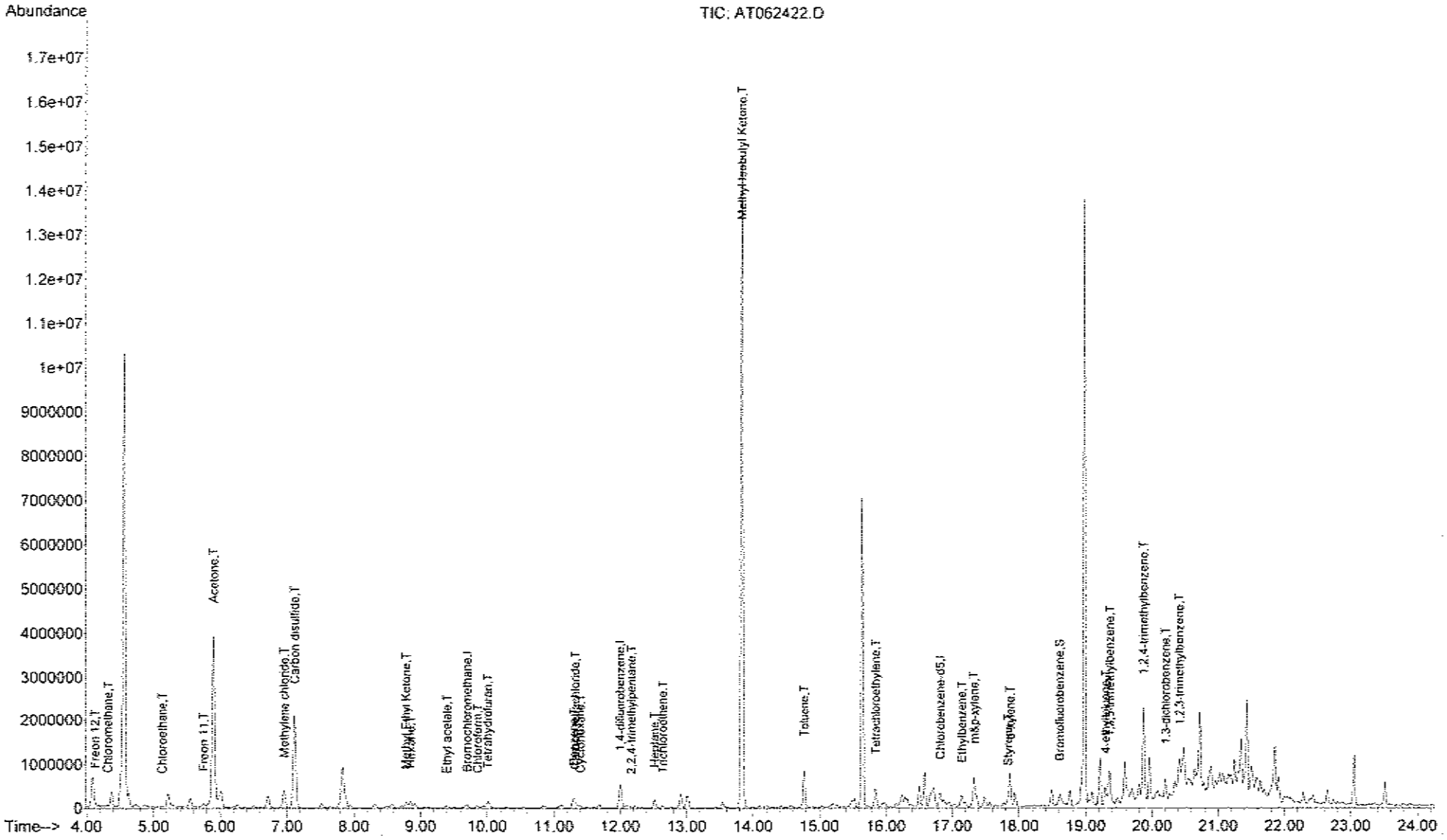
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.69	128	34932	1.00	ppb		0.00
35) 1,4-difluorobenzene	12.00	114	161216	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	151385	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	106439	0.97	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97.00%				
Target Compounds							Qvalue
3) Freon 12	4.13	85	68382	0.42	ppb		98
4) Chloromethane	4.32	50	25820	0.66	ppb		92
10) Chloroethane	5.13	64	3912	0.21	ppb	#	79
14) Freon 11	5.75	101	72364	0.36	ppb		99
15) Acetone	5.90	58	2010921	98.98	ppb	#	76
21) Methylene chloride	6.96	84	283814	6.40	ppb		97
23) Carbon disulfide	7.11	76	4487676	33.98	ppb		99
28) Methyl Ethyl Ketone	8.79	72	64596	3.74	ppb	#	100
30) Hexane	8.85	57	100121m	1.93	ppb		
31) Ethyl acetate	9.39	43	49794	0.61	ppb		96
32) Chloroform	9.85	83	55875	0.51	ppb		98
33) Tetrahydrofuran	10.01	42	110489m	3.64	ppb		
37) Cyclohexane	11.39	56	44429m	0.91	ppb		
38) Carbon tetrachloride	11.33	117	18220	0.17	ppb		96
39) Benzene	11.29	78	259080	2.23	ppb		98
42) 2,2,4-trimethylpentane	12.17	57	38703	0.25	ppb	#	42
43) Heptane	12.52	43	70497	1.29	ppb		92
44) Trichloroethene	12.65	130	12884	0.20	ppb		92
51) Toluene	14.77	92	416782	4.66	ppb		98
52) Methyl Isobutyl Ketone	13.83	43	10253389	128.37	ppb		98
56) Tetrachloroethylene	15.85	164	117150	1.69	ppb		99
58) Ethylbenzene	17.14	91	207831	1.00	ppb		99
59) m&p-xylene	17.33	91	637046	3.76	ppb		98
61) Styrene	17.83	104	71733	0.57	ppb	#	45
63) o-xylene	17.87	91	491230	2.72	ppb		98
69) 4-ethyltoluene	19.29	105	251739m	1.07	ppb		
70) 1,3,5-trimethylbenzene	19.36	105	518993m	2.48	ppb		
71) 1,2,4-trimethylbenzene	19.87	105	1349272	6.63	ppb		100
72) 1,3-dichlorobenzene	20.20	146	123397	0.93	ppb		92
75) 1,2,3-trimethylbenzene	20.40	105	638287	3.06	ppb		99

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

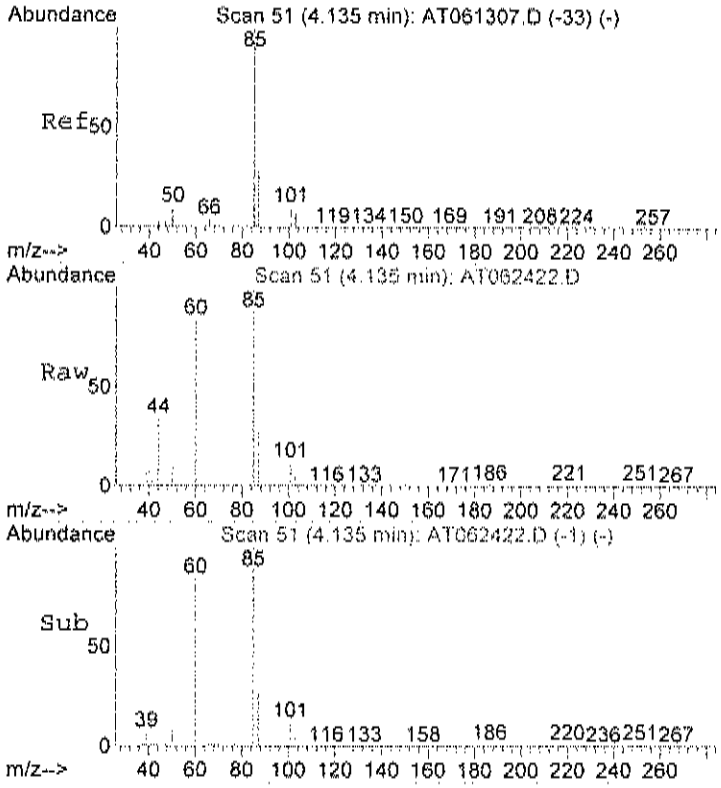
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062422.D Vial: 22
Acq On : 25 Jun 2022 2:30 am Operator: RJP
Sample : C2206048-013A Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 14:22 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



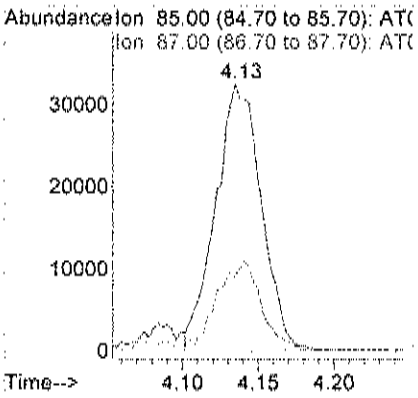
Centek/SanAir Laboratories

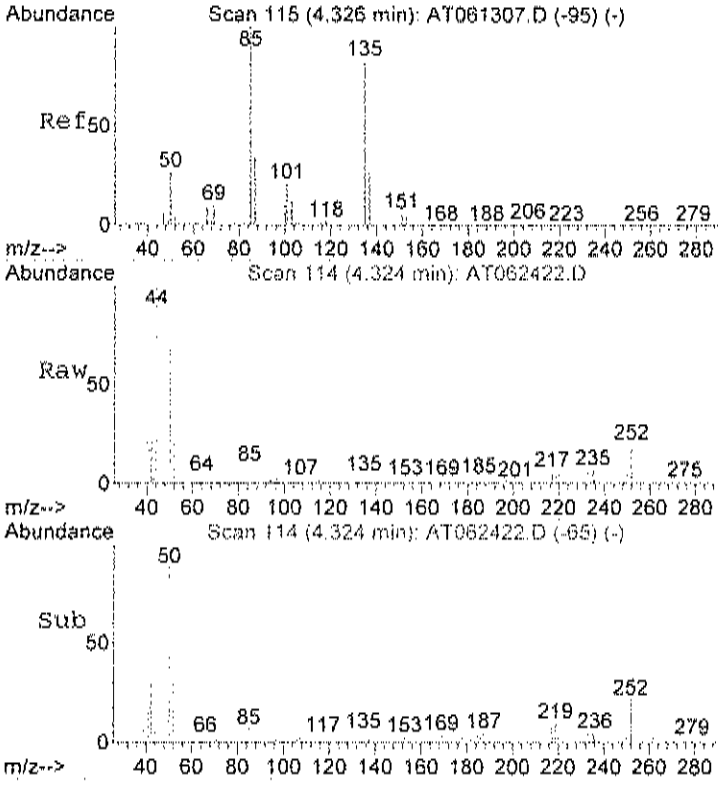


#3
Freon 12
Concen: 0.42 ppb
RT: 4.13 min Scan# 51
Delta R.T. 0.00 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion: 85 Resp: 68382

Ion	Ratio	Lower	Upper
85	100		
87	31.6	12.8	52.8

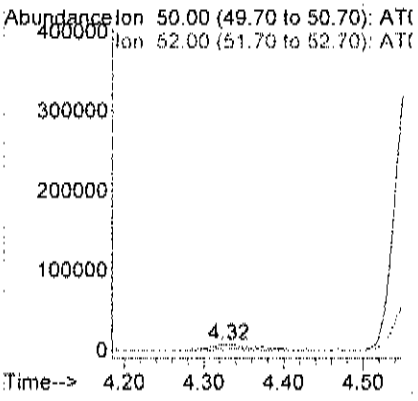


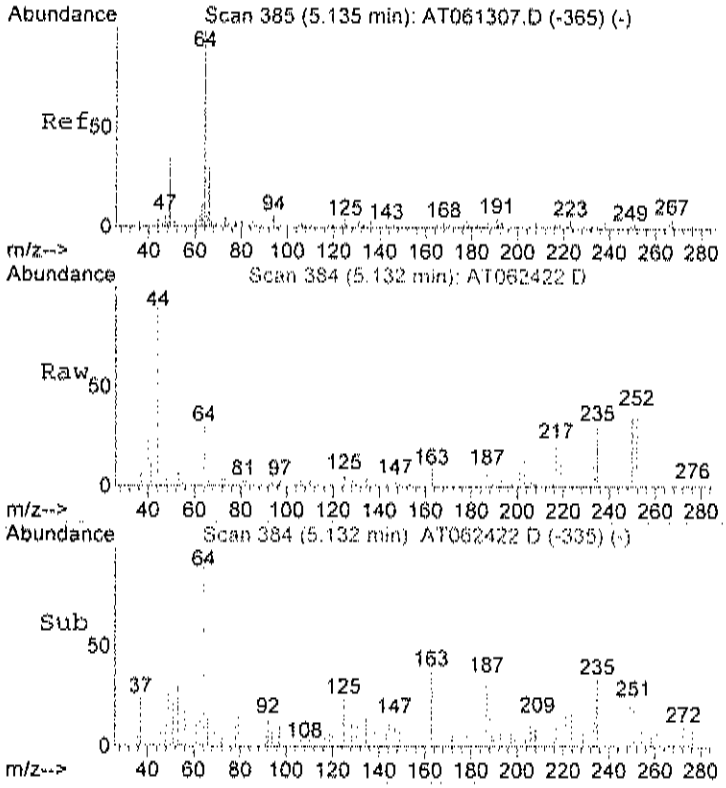


#4
Chloromethane
Concen: 0.66 ppb
RT: 4.32 min Scan# 114
Delta R.T. -0.00 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion: 50 Resp: 25820

Ion	Ratio	Lower	Upper
50	100		
52	26.4	2.7	42.7

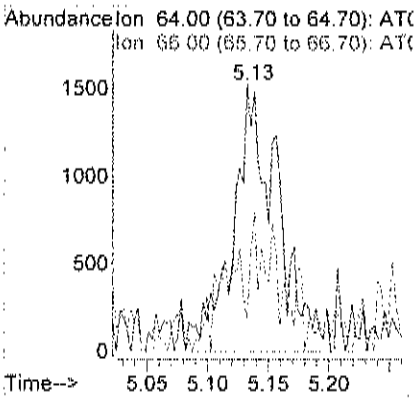


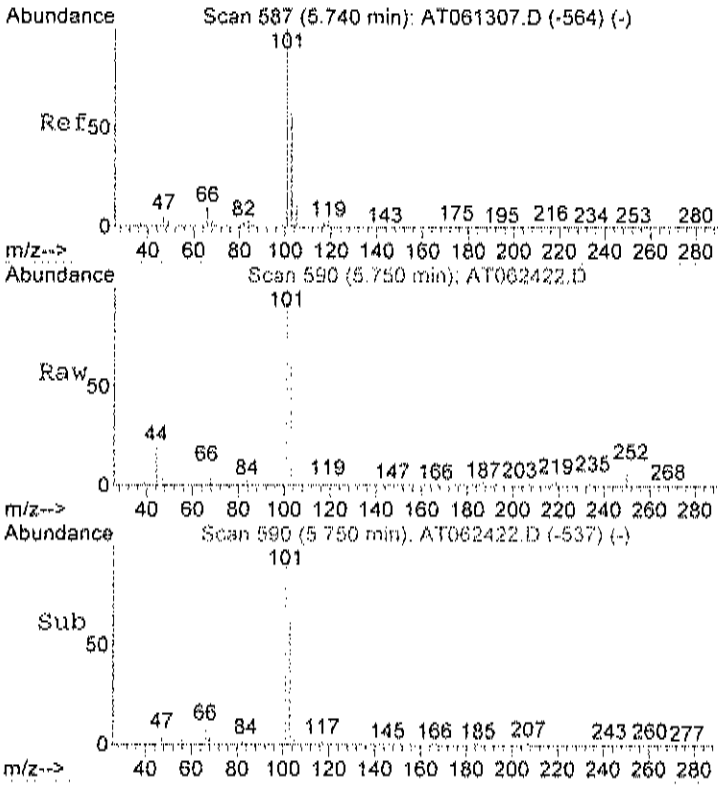


#10
Chloroethane
Concen: 0.21 ppb
RT: 5.13 min Scan# 384
Delta R.T. -0.00 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion: 64 Resp: 3912

Ion	Ratio	Lower	Upper
64	100		
66	21.5	27.0	40.4#

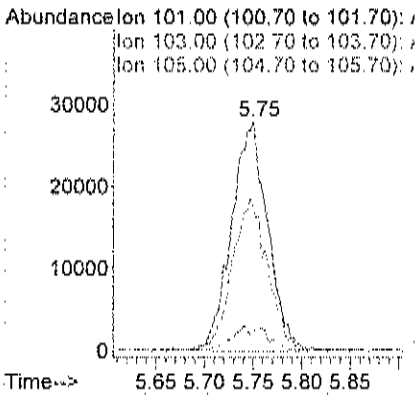


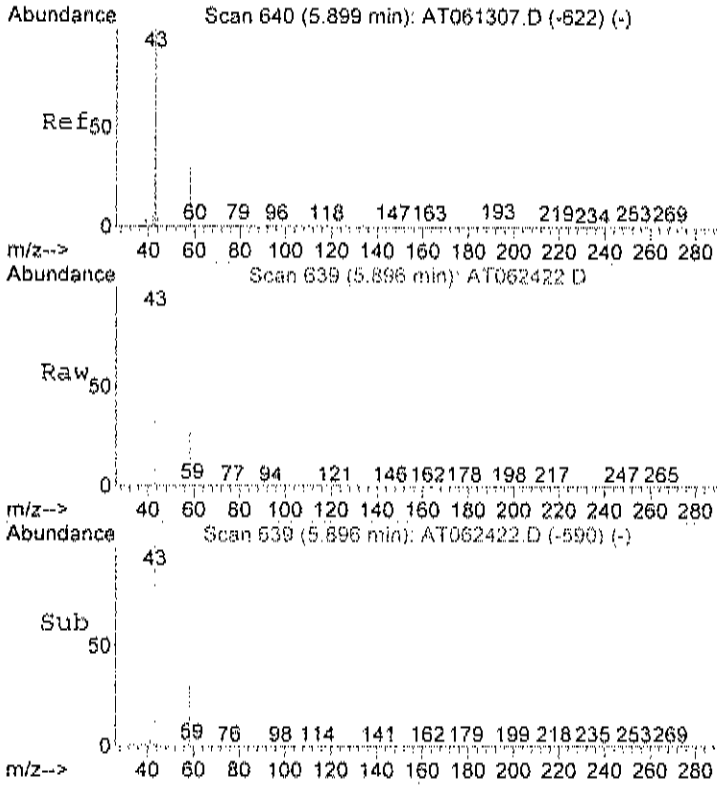


#14
Freon 11
Concen: 0.36 ppb
RT: 5.75 min Scan# 590
Delta R.T. 0.01 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion:101 Resp: 72364

Ion	Ratio	Lower	Upper
101	100		
103	65.5	46.3	86.3
105	10.7	0.0	31.2

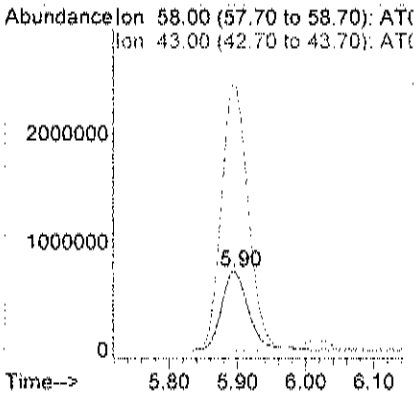


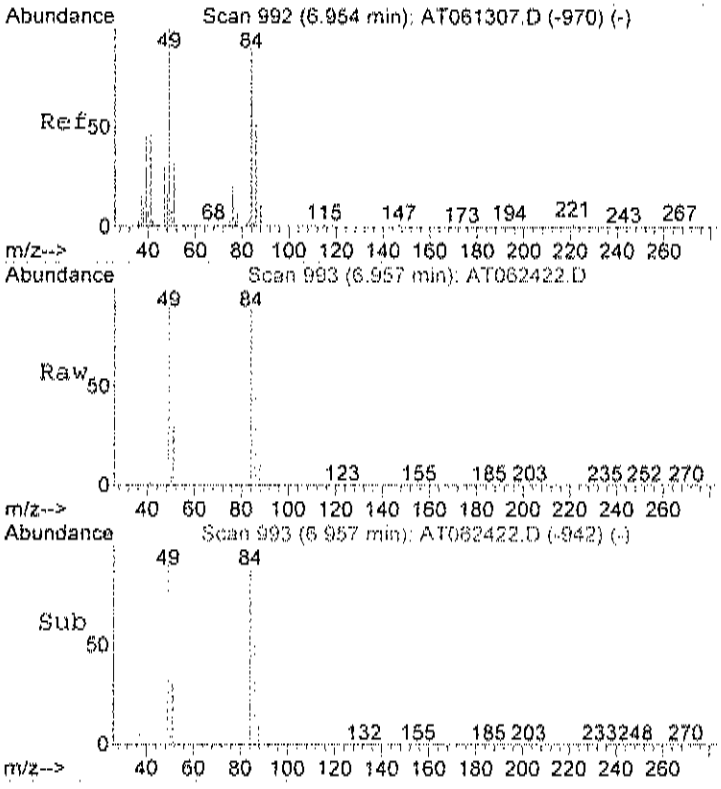


#15
Acetone
Concen: 98.98 ppb
RT: 5.90 min Scan# 639
Delta R.T. -0.00 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion: 58 Resp: 2010921

Ion	Ratio	Lower	Upper
58	100		
43	346.2	268.9	328.9#

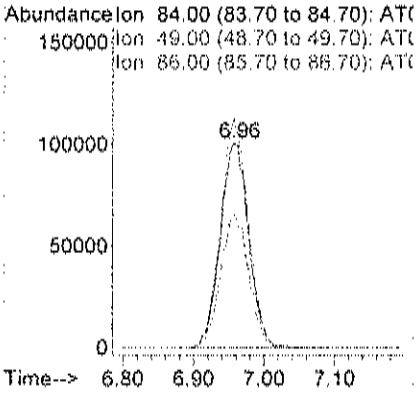


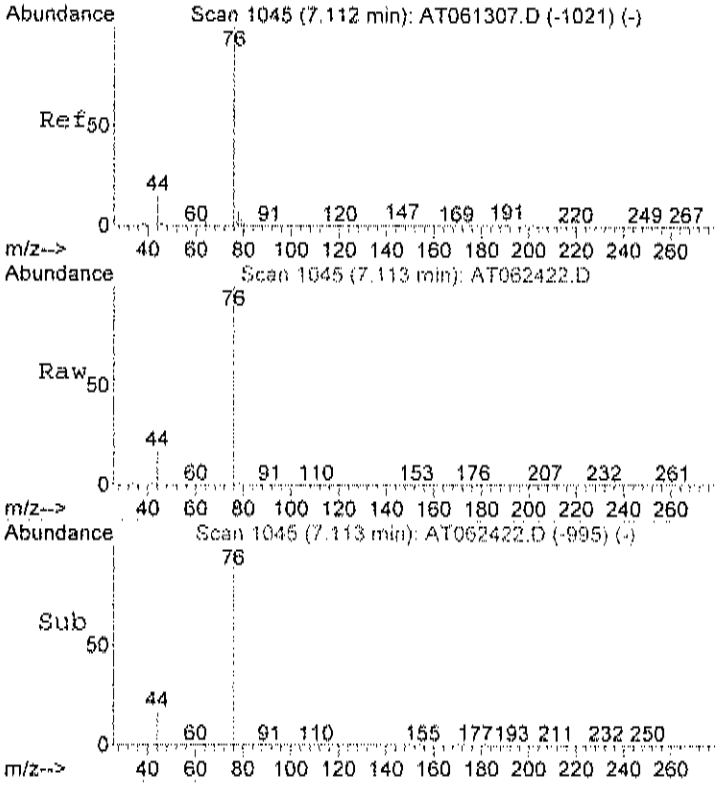


#21
Methylene chloride
Concen: 6.40 ppb
RT: 6.96 min Scan# 993
Delta R.T. 0.00 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion: 84 Resp: 283814

Ion	Ratio	Lower	Upper
84	100		
49	108.8	93.2	133.2
86	64.9	46.4	86.4

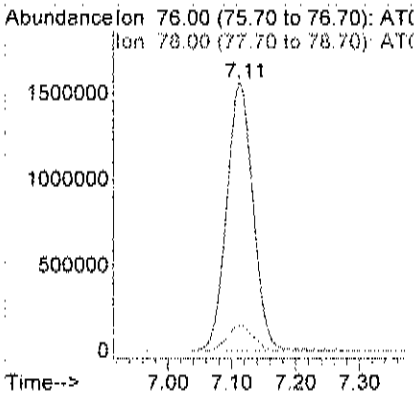


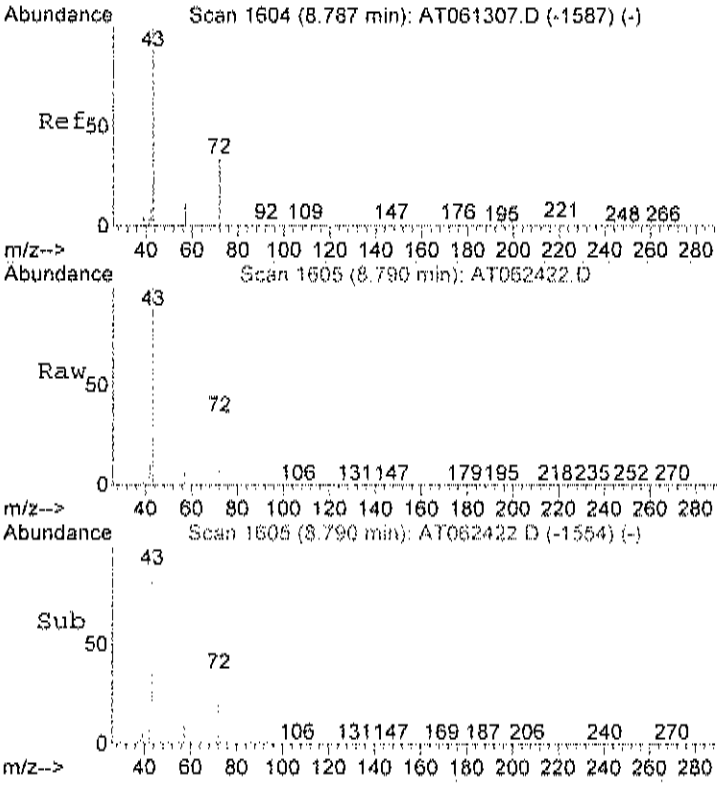


#23
Carbon disulfide
Concen: 33.98 ppb
RT: 7.11 min Scan# 1045
Delta R.T. 0.00 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion: 76 Resp: 4487676

Ion	Ratio	Lower	Upper
76	100		
78	9.4	0.0	29.7

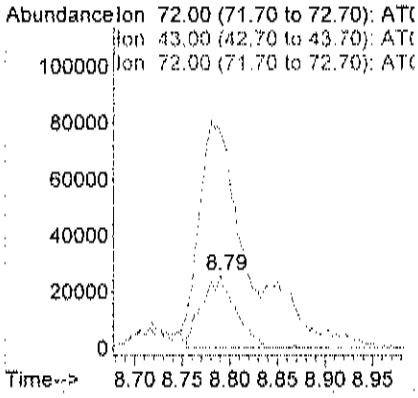


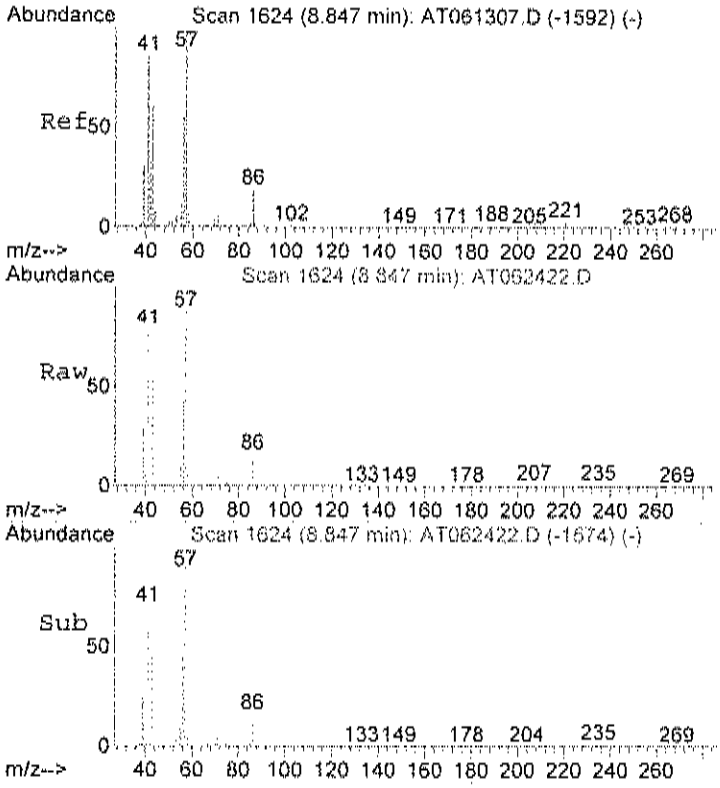


#28
Methyl Ethyl Ketone
Concen: 3.74 ppb
RT: 8.79 min Scan# 1605
Delta R.T. 0.00 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion: 72 Resp: 64596

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

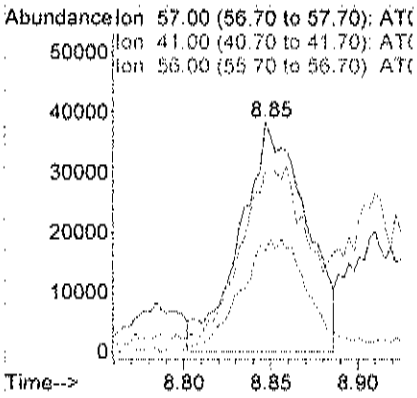


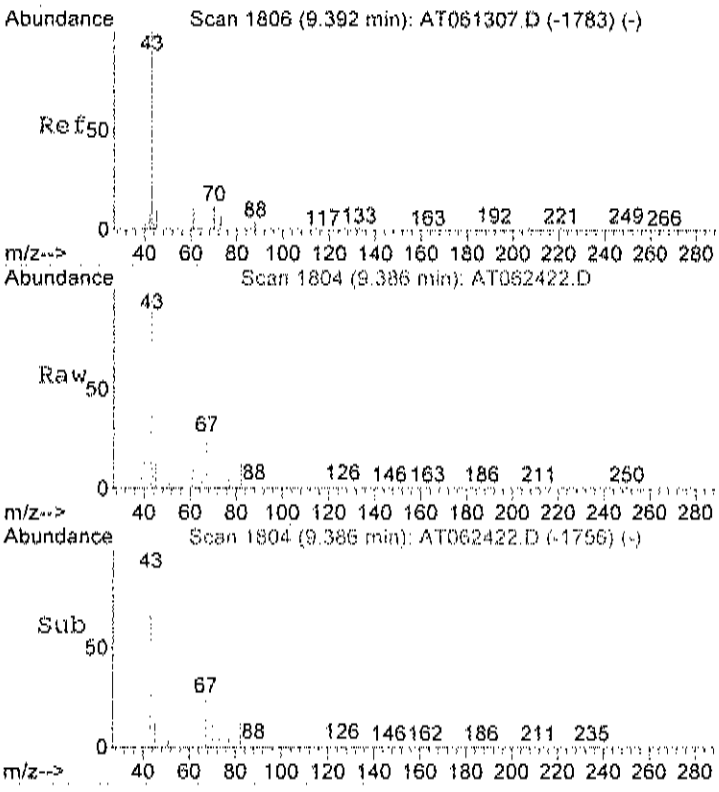


#30
Hexane
Concen: 1.93 ppb m
RT: 8.85 min Scan# 1624
Delta R.T. 0.00 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion: 57 Resp: 100121

Ion	Ratio	Lower	Upper
57	100		
41	147.8	58.1	98.1#
56	55.6	28.7	68.7

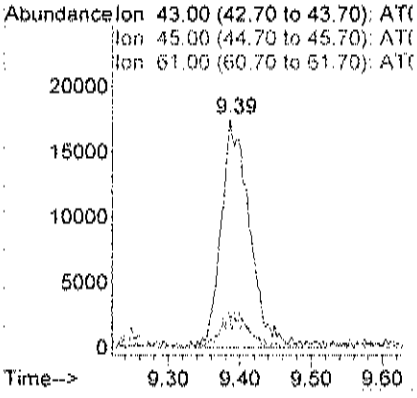


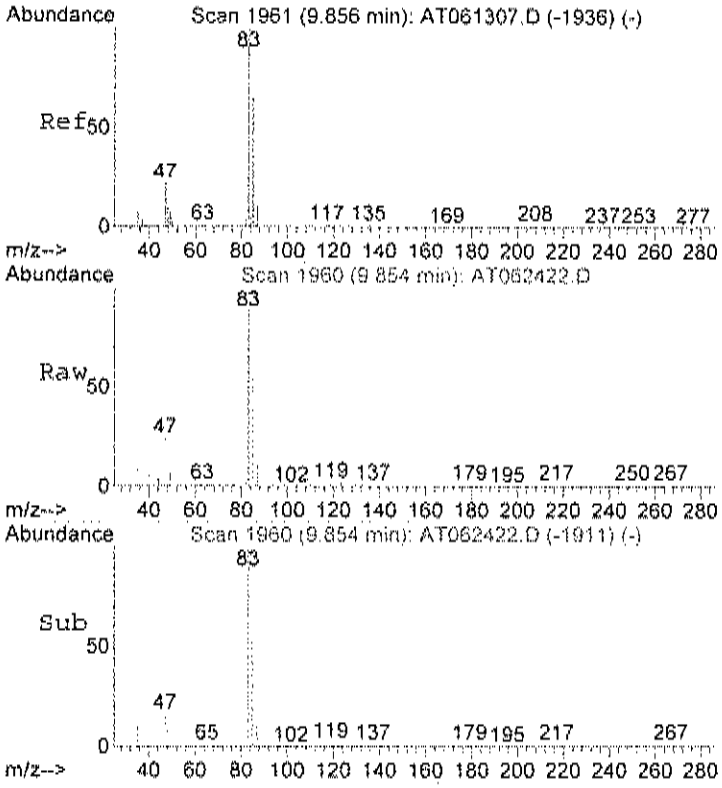


#31
Ethyl acetate
Concen: 0.61 ppb
RT: 9.39 min Scan# 1804
Delta R.T. -0.01 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion: 43 Resp: 49794

Ion	Ratio	Lower	Upper
43	100		
45	13.4	0.0	33.7
61	11.7	0.0	34.7

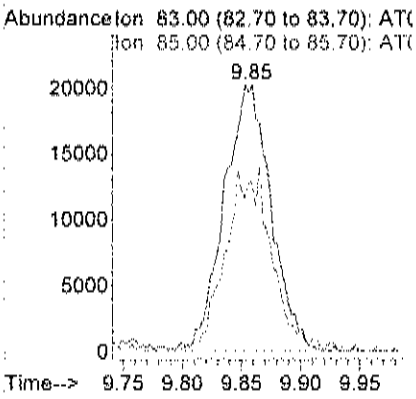


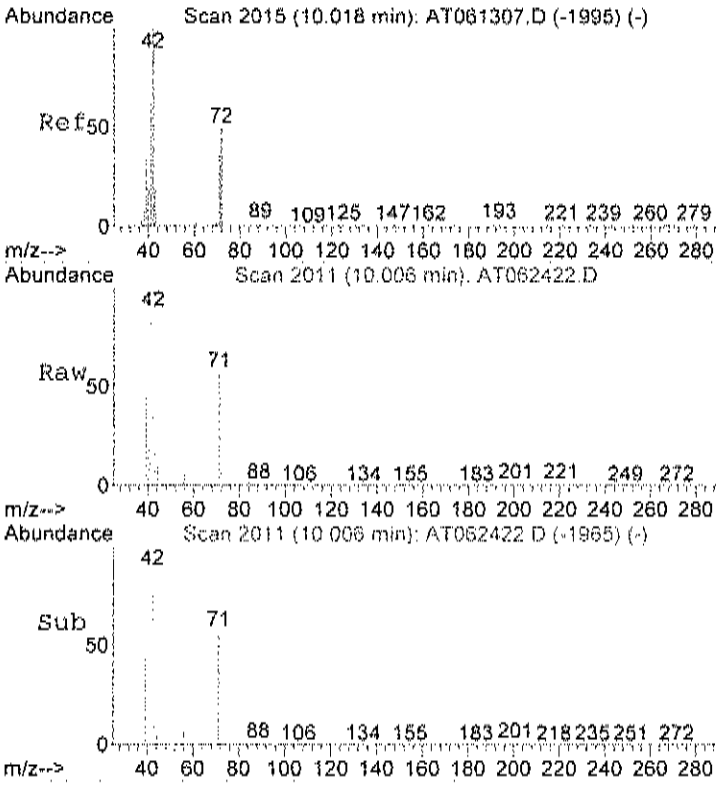


#32
Chloroform
Concen: 0.51 ppb
RT: 9.85 min Scan# 1960
Delta R.T. -0.00 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion: 83 Resp: 55875

Ion	Ratio	Lower	Upper
83	100		
85	68.1	46.5	86.5

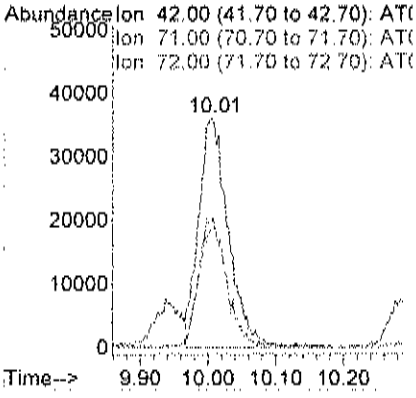


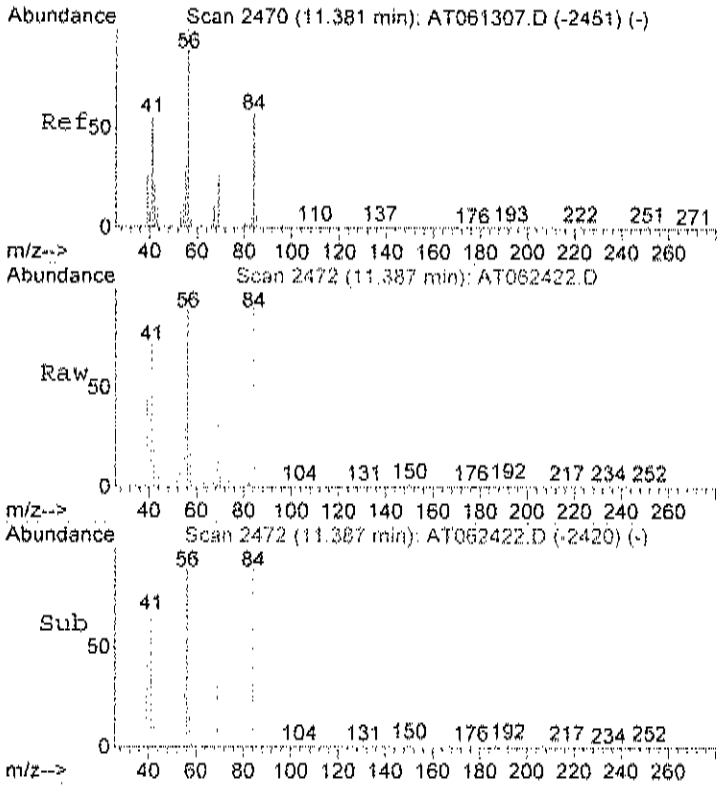


#33
Tetrahydrofuran
Concen: 3.64 ppb m
RT: 10.01 min Scan# 2011
Delta R.T. -0.01 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion: 42 Resp: 110489

Ion	Ratio	Lower	Upper
42	100		
71	51.9	38.0	78.0
72	51.5	35.0	75.0

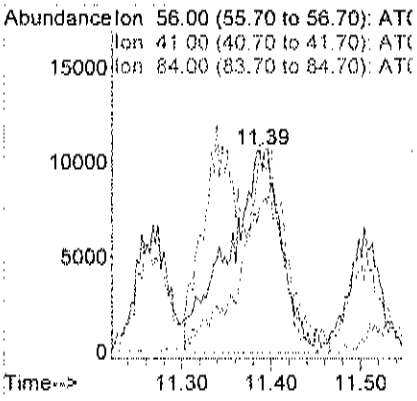


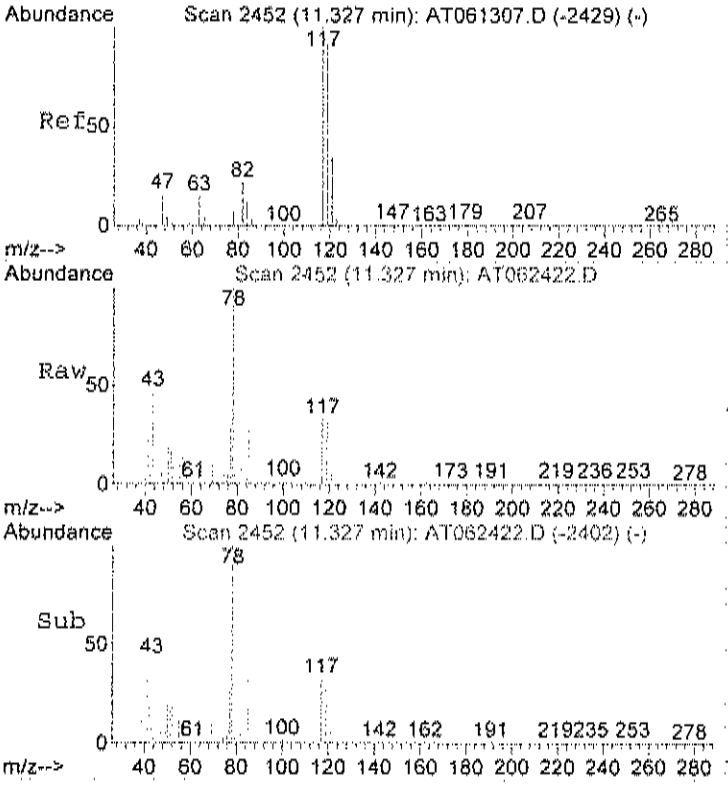


#37
Cyclohexane
Concen: 0.91 ppb m
RT: 11.39 min Scan# 2472
Delta R.T. 0.01 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion: 56 Resp: 44429

Ion	Ratio	Lower	Upper
56	100		
41	0.0	40.3	80.3#
84	78.3	133.0	173.0#

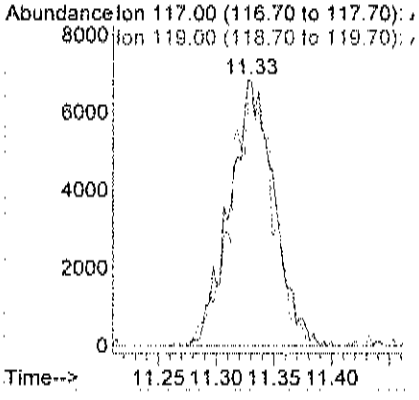


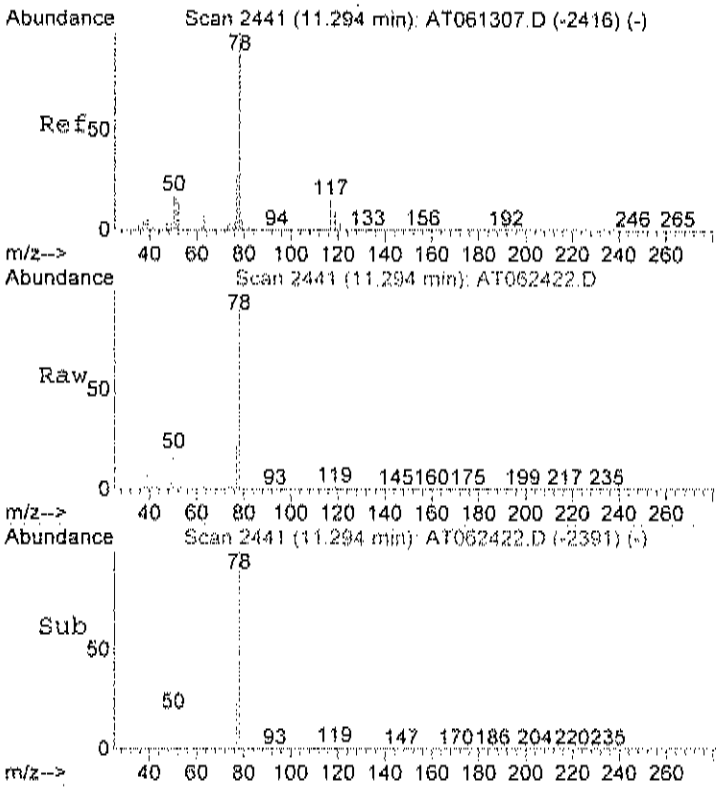


#38
Carbon tetrachloride
Concen: 0.17 ppb
RT: 11.33 min Scan# 2452
Delta R.T. 0.00 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion:117 Resp: 18220

Ion	Ratio	Lower	Upper
117	100		
119	93.6	77.2	117.2

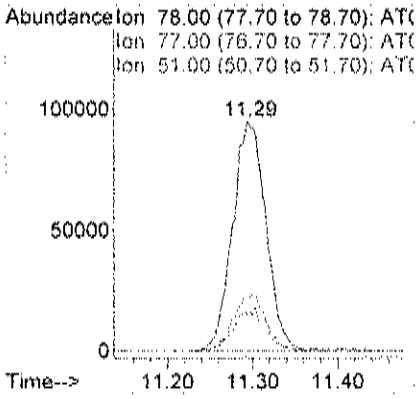


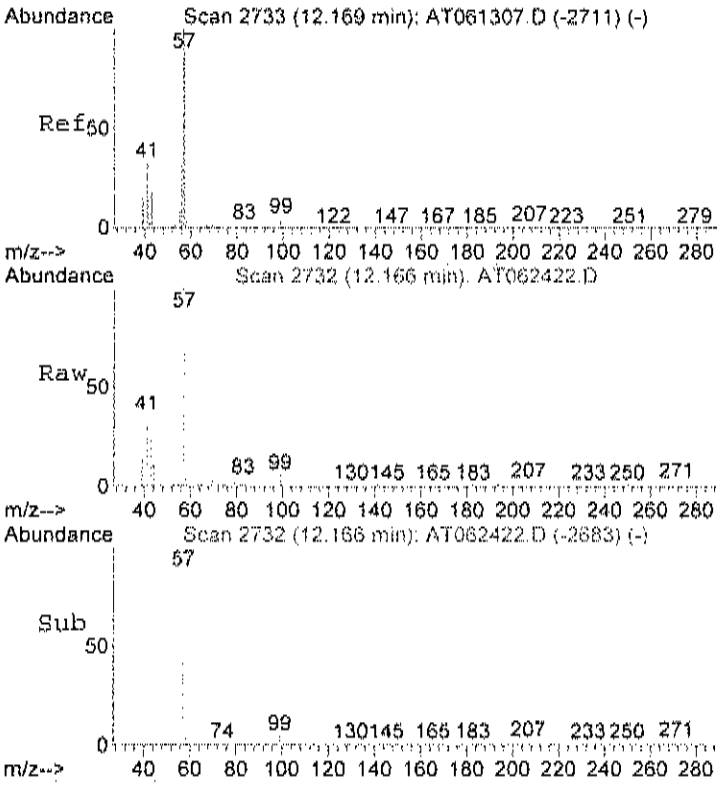


#39
Benzene
Concen: 2.23 ppb
RT: 11.29 min Scan# 2441
Delta R.T. 0.00 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion: 78 Resp: 259080

Ion	Ratio	Lower	Upper
78	100		
77	24.5	3.1	43.1
51	18.1	0.0	37.8

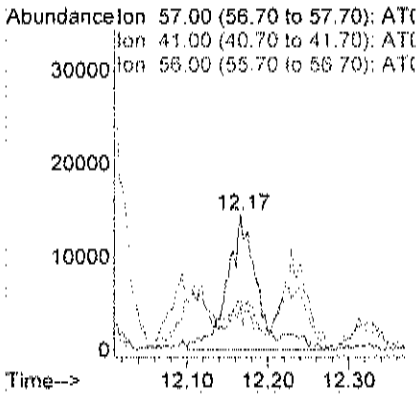


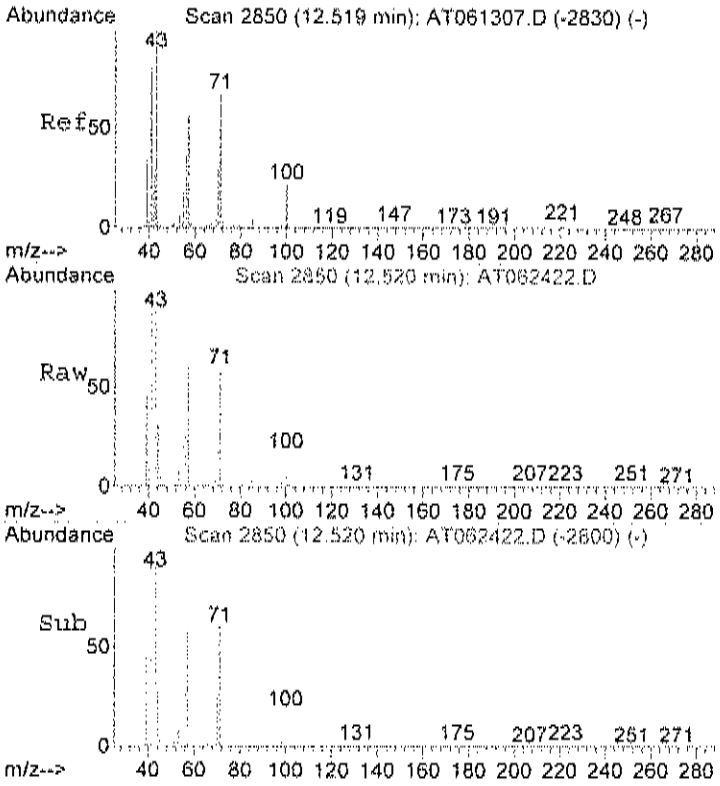


#42
2,2,4-trimethylpentane
Concen: 0.25 ppb
RT: 12.17 min Scan# 2732
Delta R.T. -0.00 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion: 57 Resp: 38703

Ion	Ratio	Lower	Upper
57	100		
41	0.0	15.3	55.3#
56	0.0	10.1	50.1#

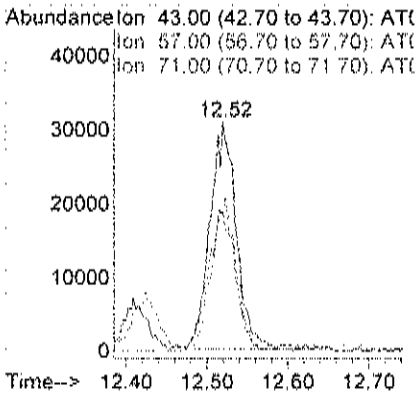


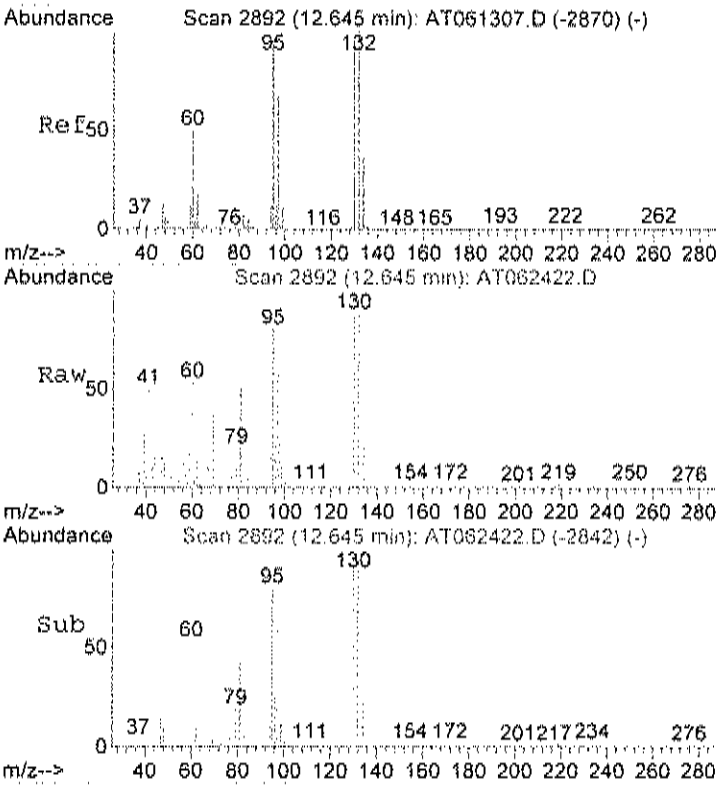


#43
Heptane
Concen: 1.29 ppb
RT: 12.52 min Scan# 2850
Delta R.T. 0.00 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion: 43 Resp: 70497

Ion	Ratio	Lower	Upper
43	100		
57	64.2	41.7	81.7
71	63.2	53.4	93.4

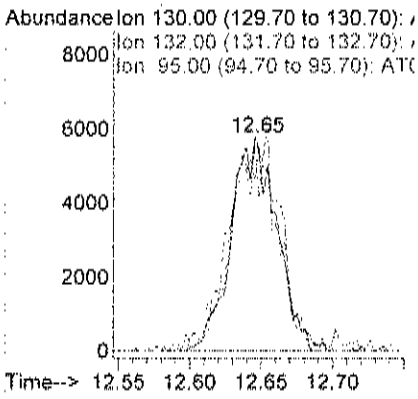


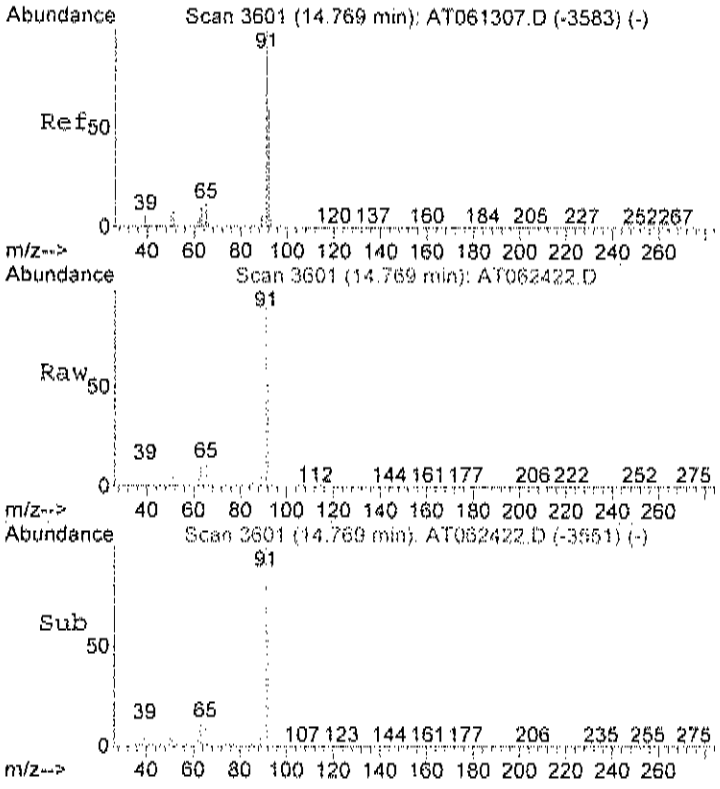


#44
Trichloroethene
Concen: 0.20 ppb
RT: 12.65 min Scan# 2892
Delta R.T. 0.00 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion:130 Resp: 12884

Ion	Ratio	Lower	Upper
130	100		
132	99.9	76.7	116.7
95	108.0	74.7	114.7

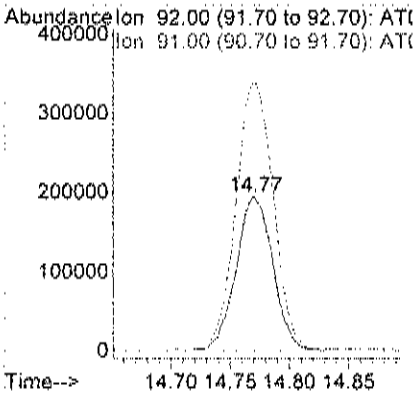


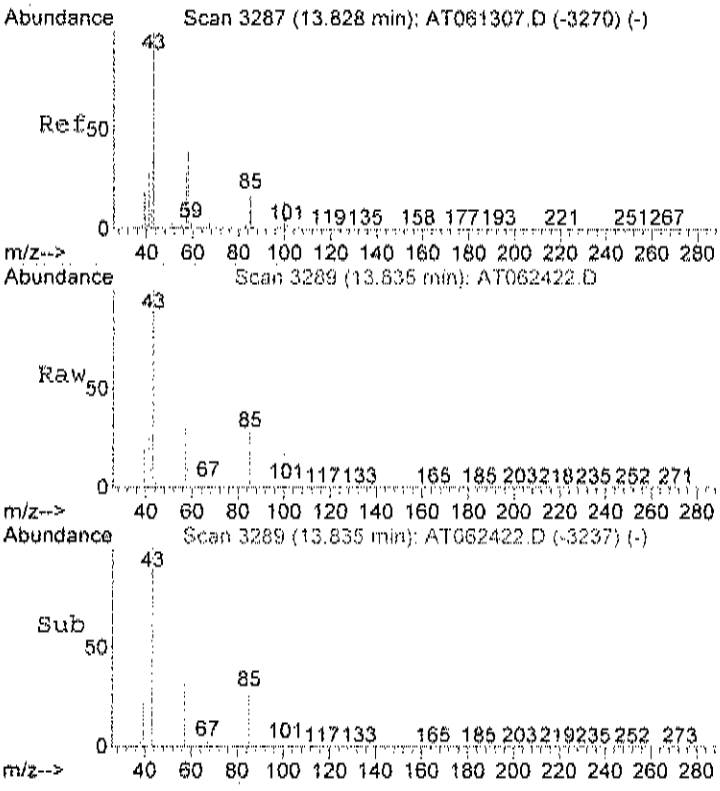


#51
Toluene
Concen: 4.66 ppb
RT: 14.77 min Scan# 3601
Delta R.T. 0.00 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion: 92 Resp: 416782

Ion	Ratio	Lower	Upper
92	100		
91	177.7	154.4	194.4

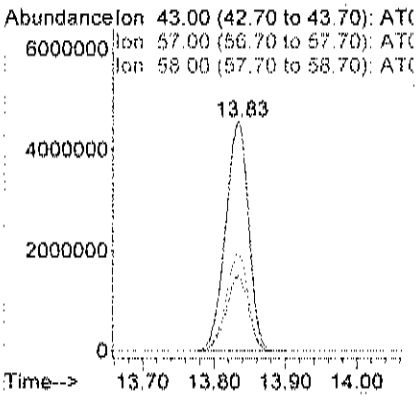


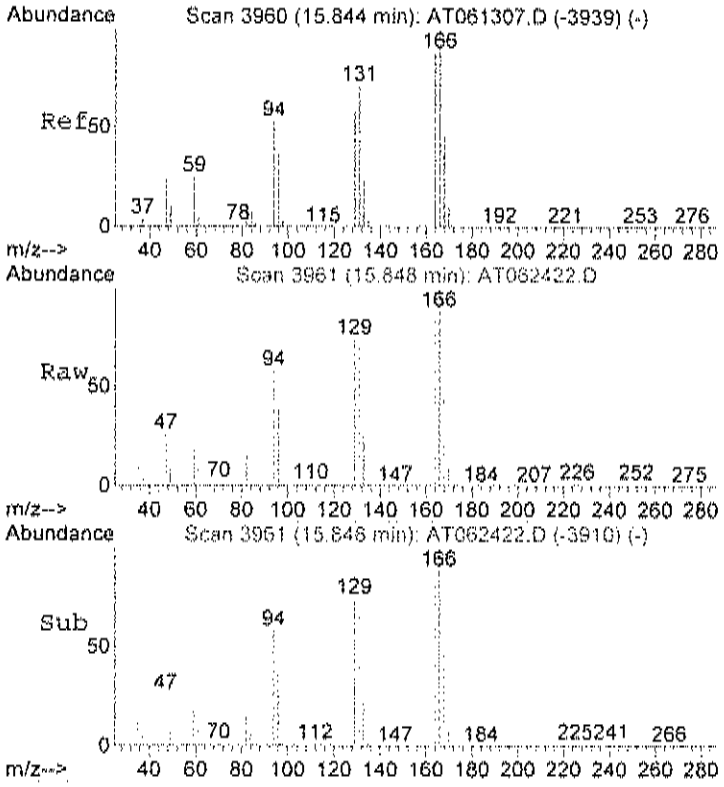


#52
Methyl Isobutyl Ketone
Concen: 128.37 ppb
RT: 13.83 min Scan# 3289
Delta R.T. 0.01 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion: 43 Resp: 10253389

Ion	Ratio	Lower	Upper
43	100		
57	31.8	9.3	49.3
58	41.4	22.0	62.0

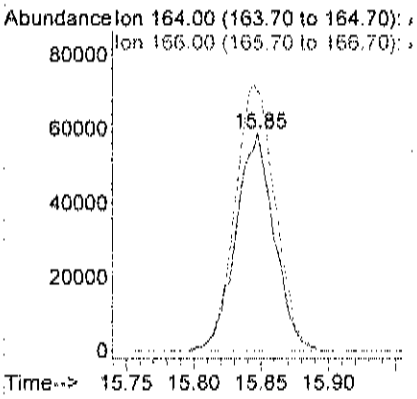


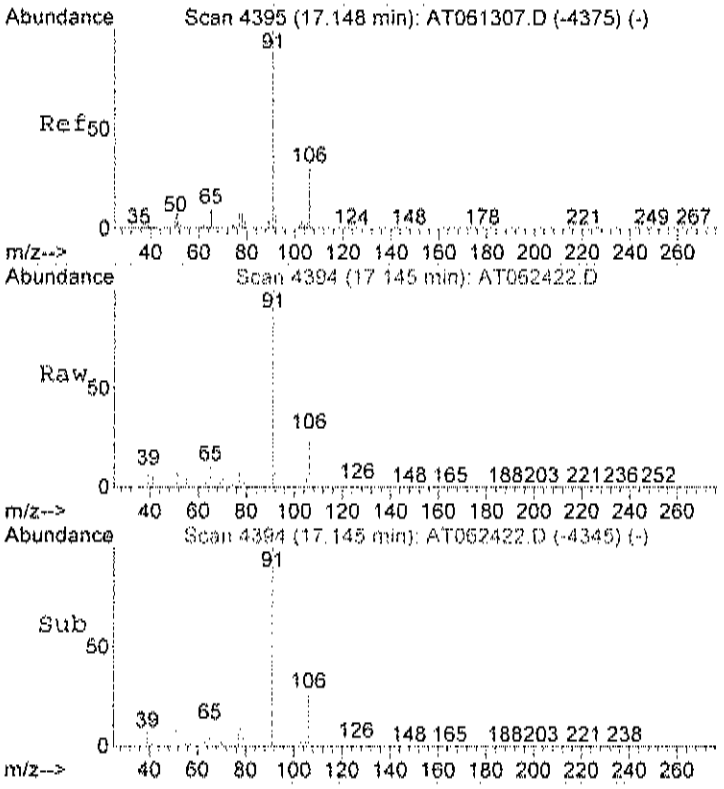


#56
Tetrachloroethylene
Concen: 1.69 ppb
RT: 15.85 min Scan# 3961
Delta R.T. 0.00 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion:164 Resp: 117150

Ion	Ratio	Lower	Upper
164	100		
166	128.3	107.7	147.7

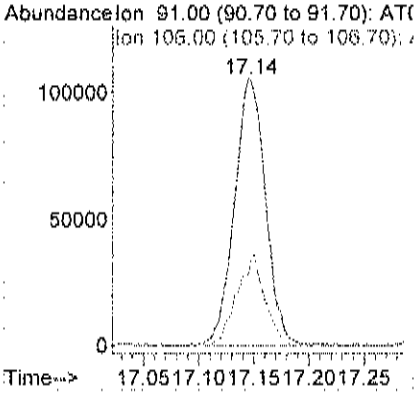


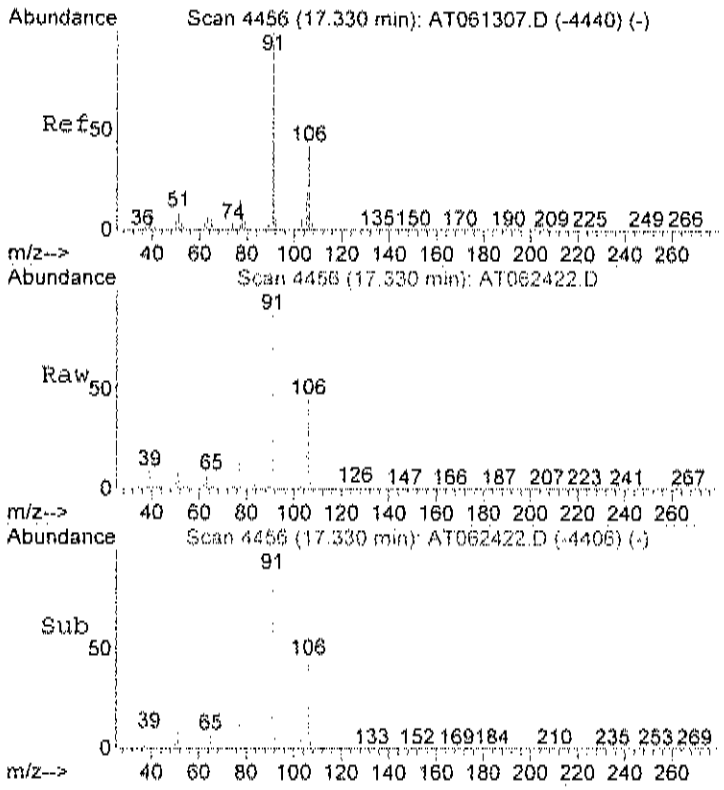


#58
Ethylbenzene
Concen: 1.00 ppb
RT: 17.14 min Scan# 4394
Delta R.T. -0.00 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion: 91 Resp: 207831

Ion	Ratio	Lower	Upper
91	100		
106	31.1	11.5	51.5

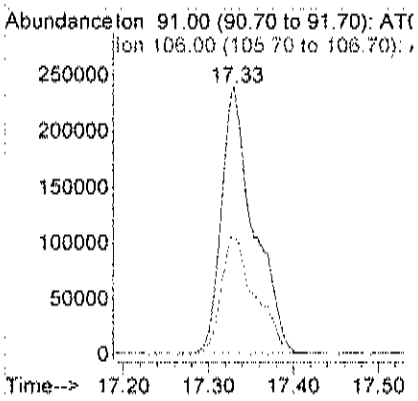


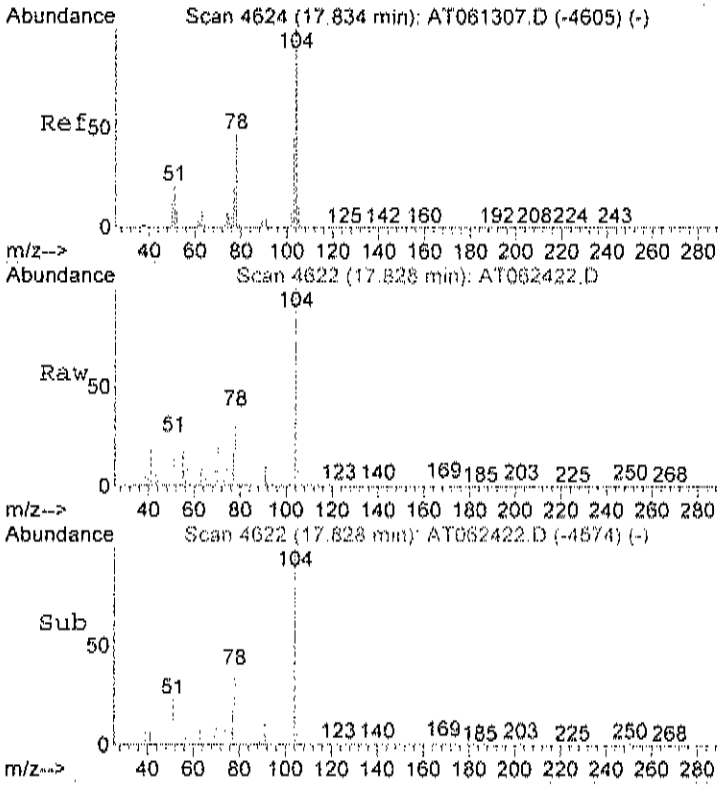


#59
m&p-xylene
Concen: 3.76 ppb
RT: 17.33 min Scan# 4456
Delta R.T. 0.00 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion: 91 Resp: 637046

Ion	Ratio	Lower	Upper
91	100		
106	46.5	27.9	67.9

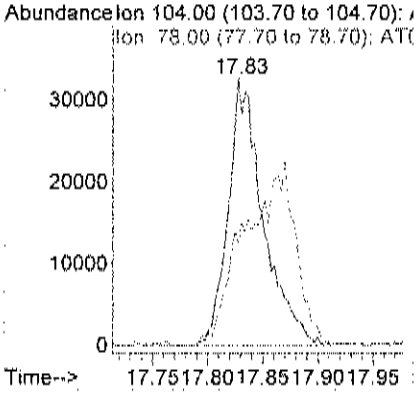


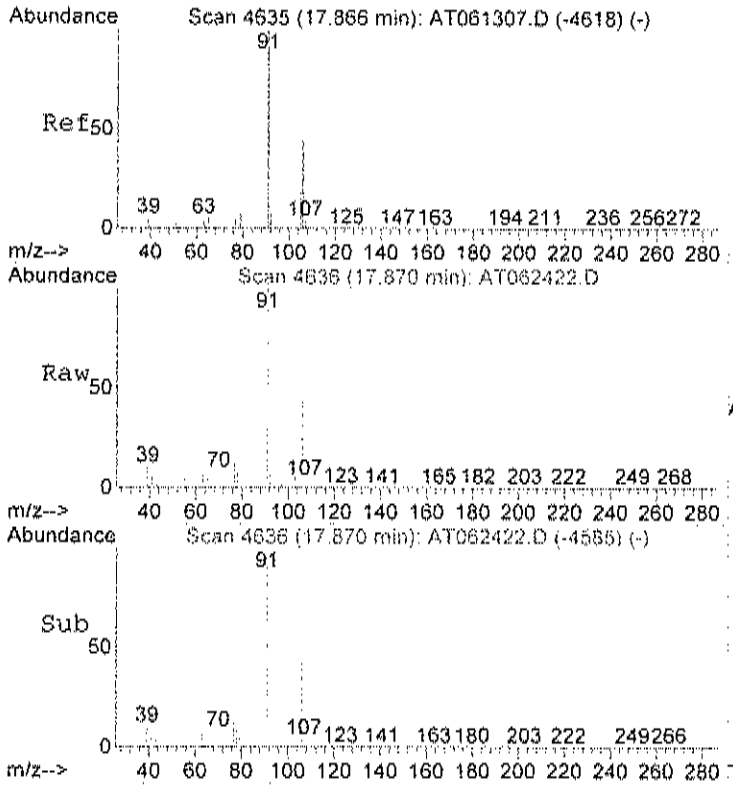


#61
Styrene
Concen: 0.57 ppb
RT: 17.83 min Scan# 4622
Delta R.T. -0.01 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion:104 Resp: 71733

Ion	Ratio	Lower	Upper
104	100		
78	99.1	37.9	77.9#

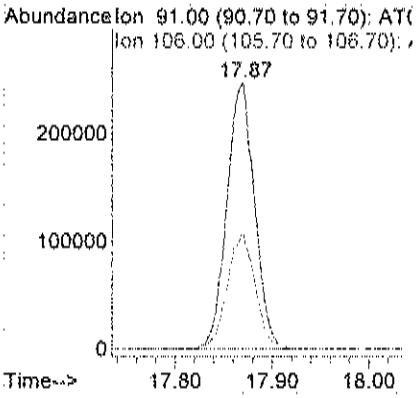


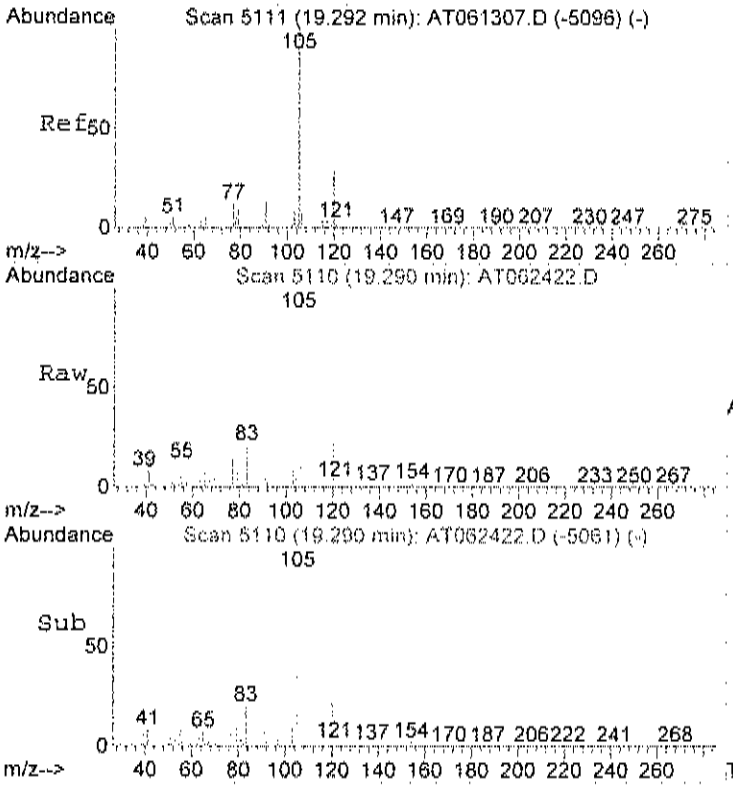


#63
o-xylene
Concen: 2.72 ppb
RT: 17.87 min Scan# 4636
Delta R.T. 0.00 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion: 91 Resp: 491230

Ion	Ratio	Lower	Upper
91	100		
106	43.7	25.1	65.1

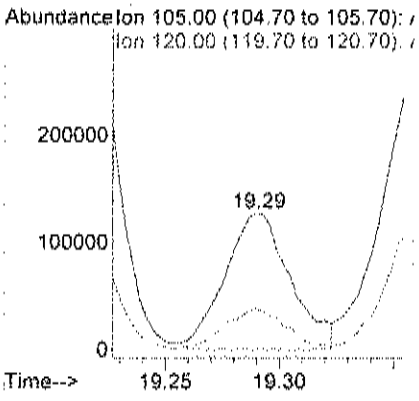


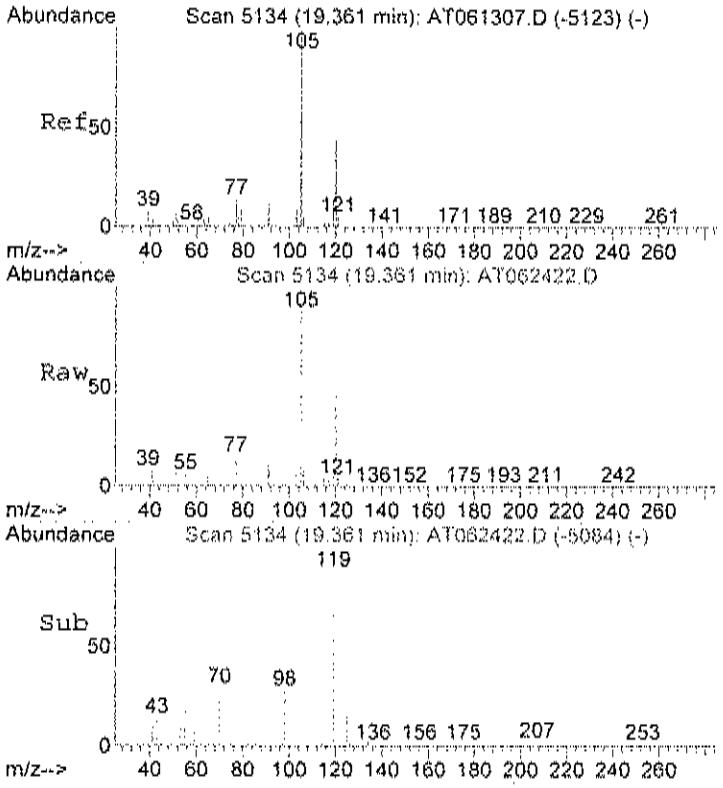


#69
4-ethyltoluene
Concen: 1.07 ppb m
RT: 19.29 min Scan# 5110
Delta R.T. -0.00 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion:105 Resp: 251739

Ion	Ratio	Lower	Upper
105	100		
120	87.3	10.6	50.6#

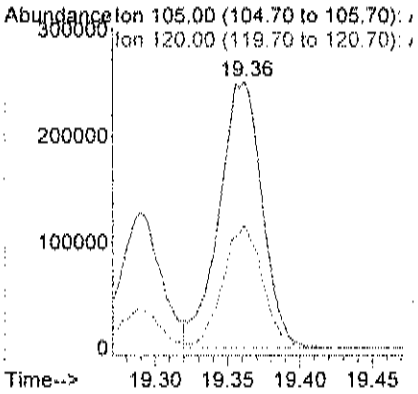


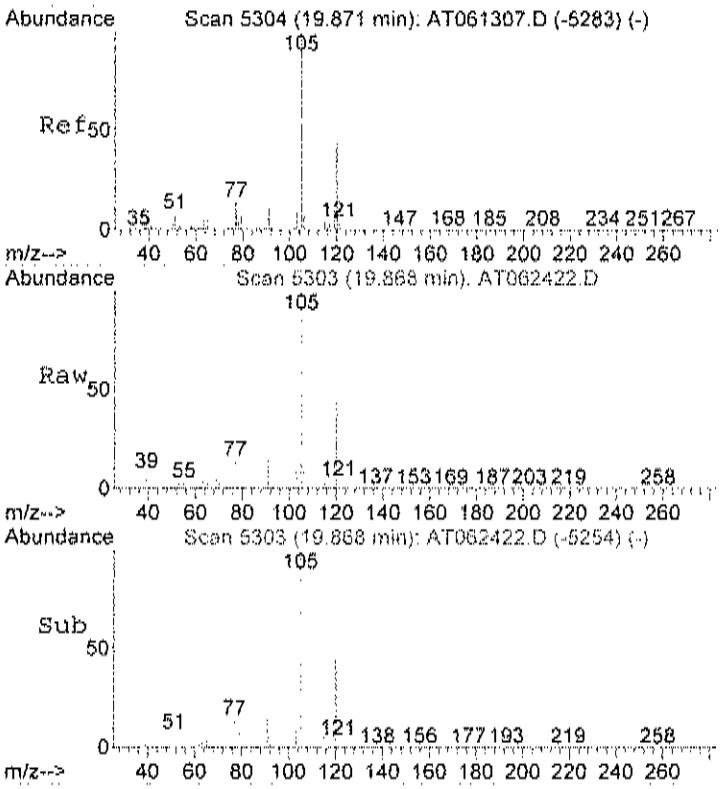


#70
1,3,5-trimethylbenzene
Concen: 2.48 ppb m
RT: 19.36 min Scan# 5134
Delta R.T. 0.00 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion:105 Resp: 518993

Ion	Ratio	Lower	Upper
105	100		
120	42.3	26.2	66.2

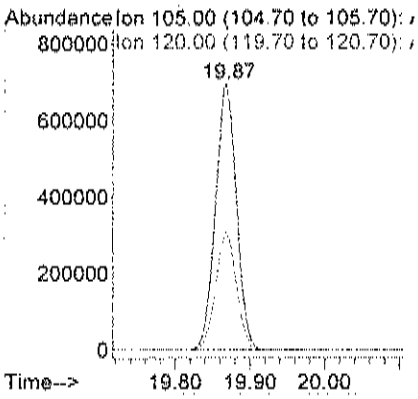


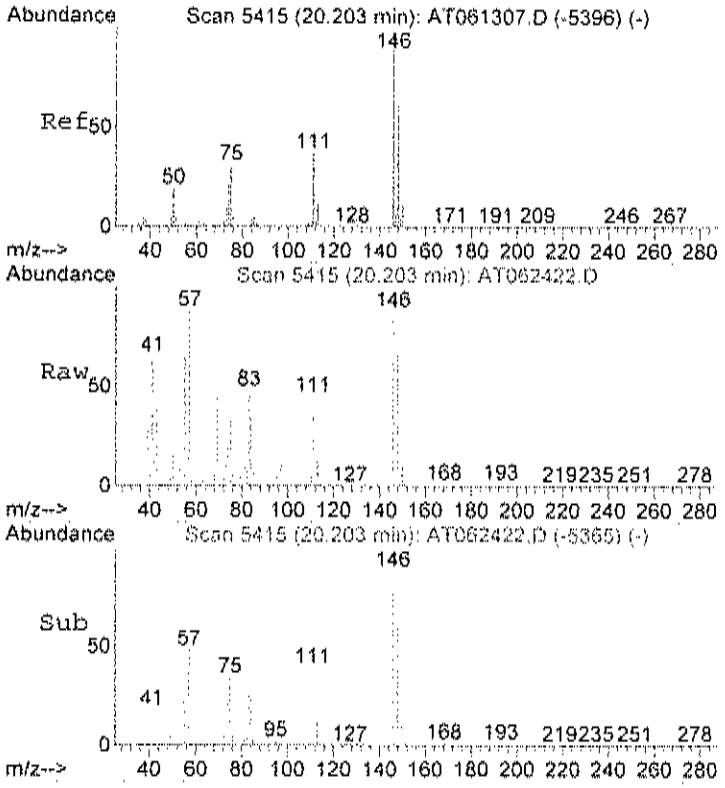


#71
1,2,4-trimethylbenzene
Concen: 6.63 ppb
RT: 19.87 min Scan# 5303
Delta R.T. -0.00 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion:105 Resp: 1349272

Ion	Ratio	Lower	Upper
105	100		
120	43.9	23.8	63.8

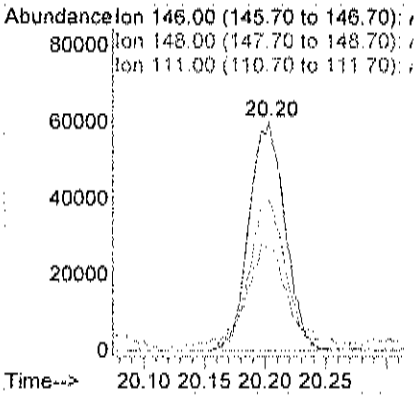


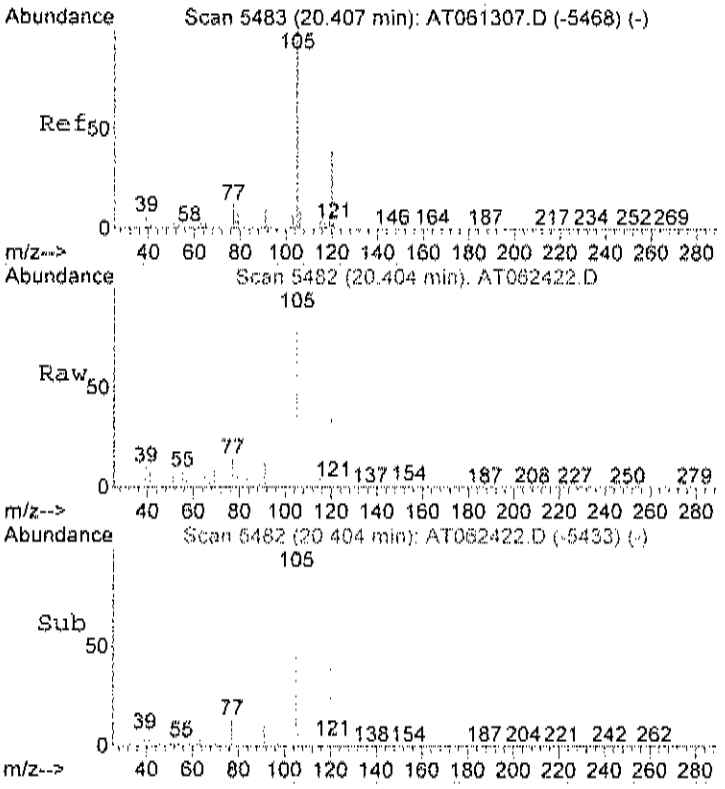


#72
1,3-dichlorobenzene
Concen: 0.93 ppb
RT: 20.20 min Scan# 5415
Delta R.T. 0.00 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion:146 Resp: 123397

Ion	Ratio	Lower	Upper
146	100		
148	66.4	44.9	84.9
111	50.0	19.7	59.7

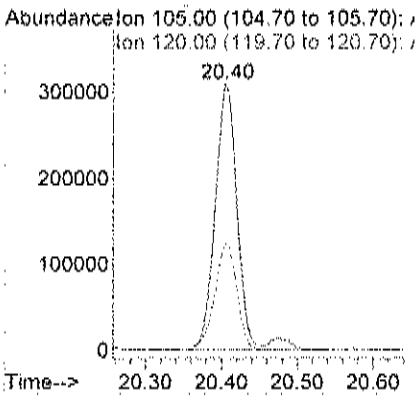




#75
1,2,3-trimethylbenzene
Concen: 3.06 ppb
RT: 20.40 min Scan# 5482
Delta R.T. -0.00 min
Lab File: AT062422.D
Acq: 25 Jun 2022 2:30 am

Tgt Ion:105 Resp: 638287

Ion	Ratio	Lower	Upper
105	100		
120	40.3	30.7	51.1



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062909.D Vial: 9
Acq On : 29 Jun 2022 3:48 pm Operator: RJP
Sample : C2206048-013A 9X Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 07:33:15 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.69	128	22907	1.00	ppb		0.00
35) 1,4-difluorobenzene	12.00	114	103490	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	95590	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	63498	0.92	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 92.00%				
Target Compounds							Qvalue
15) Acetone	5.90	58	203848	15.30	ppb	#	68
21) Methylene chloride	6.96	84	25974	0.89	ppb		95
23) Carbon disulfide	7.11	76	379379	4.38	ppb		99
28) Methyl Ethyl Ketone	8.80	72	5635	0.50	ppb	#	100
33) Tetrahydrofuran	10.02	42	8584	0.43	ppb		95
39) Benzene	11.31	78	21992	0.30	ppb		97
51) Toluene	14.77	92	33811	0.60	ppb		98
52) Methyl Isobutyl Ketone	13.83	43	858618	17.02	ppb		96
63) o-xylene	17.87	91	37194	0.33	ppb		97
70) 1,3,5-trimethylbenzene	19.36	105	40494	0.31	ppb		95
71) 1,2,4-trimethylbenzene	19.87	105	108365	0.84	ppb		99
75) 1,2,3-trimethylbenzene	20.41	105	50108	0.38	ppb		94

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

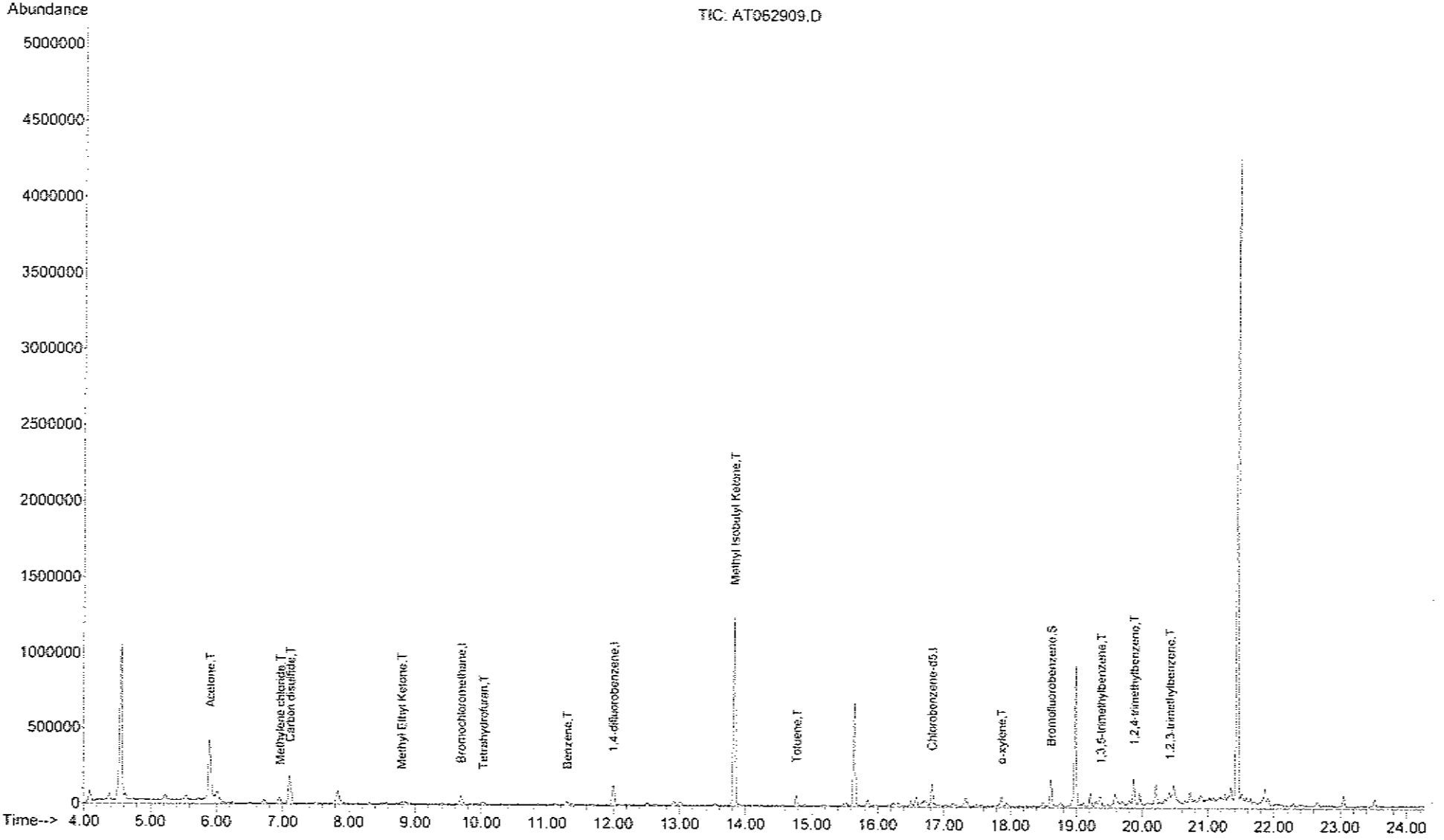
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062909.D
Acq On : 29 Jun 2022 3:48 pm
Sample : C2206048-013A 9X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 30 8:09 2022

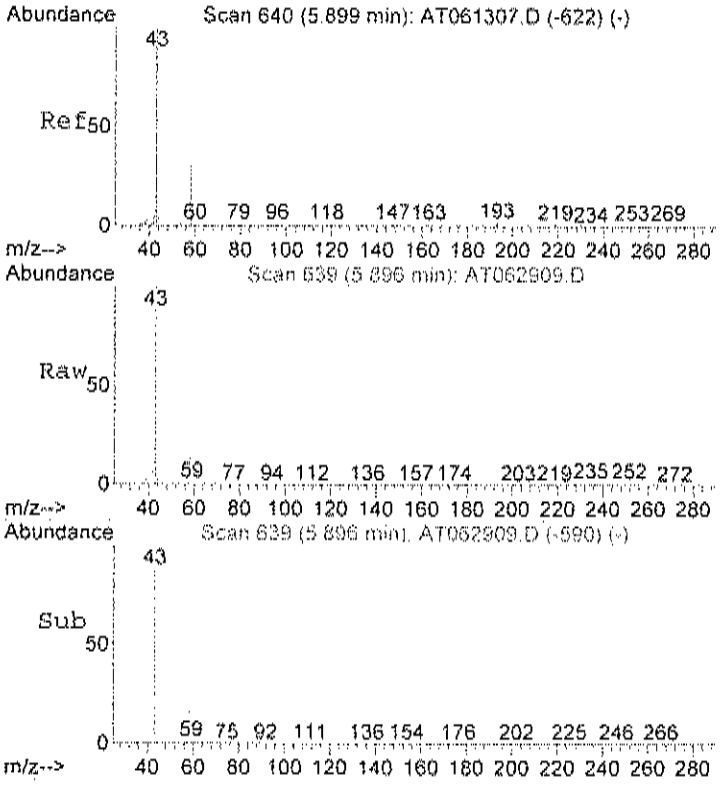
Vial: 9
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



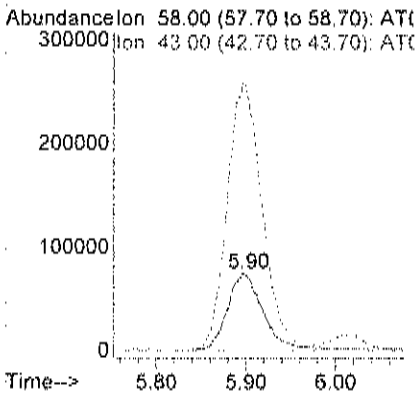
Centek/SanAir Laboratories

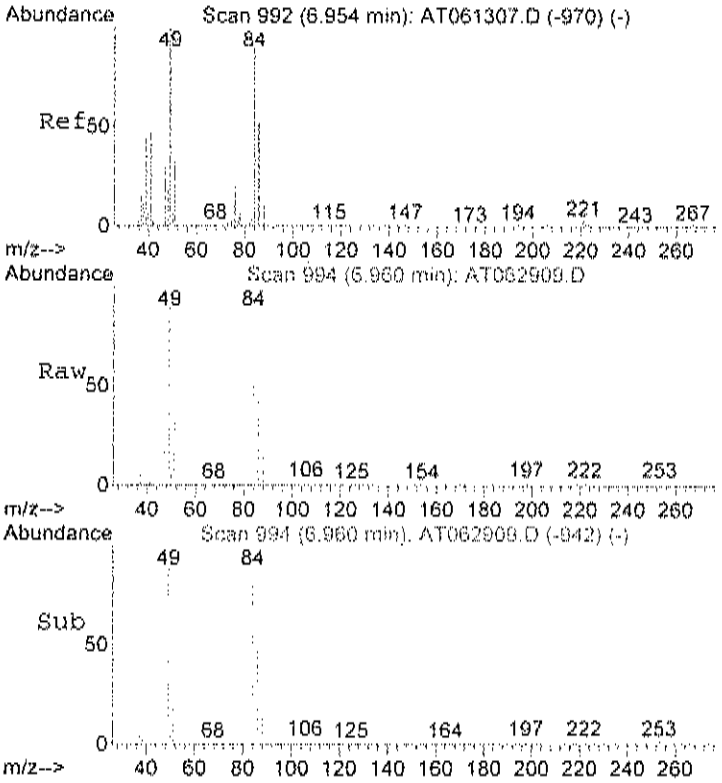


#15
Acetone
Concen: 15.30 ppb
RT: 5.90 min Scan# 639
Delta R.T. -0.00 min
Lab File: AT062909.D
Acq: 29 Jun 2022 3:48 pm

Tgt Ion: 58 Resp: 203848

Ion	Ratio	Lower	Upper
58	100		
43	362.1	268.9	328.9#

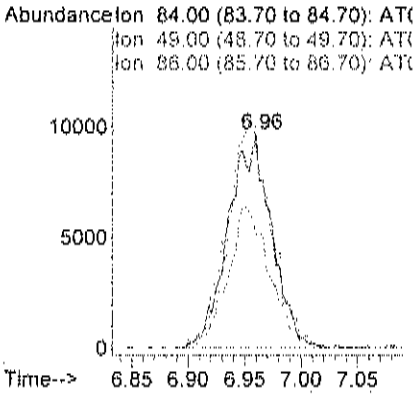


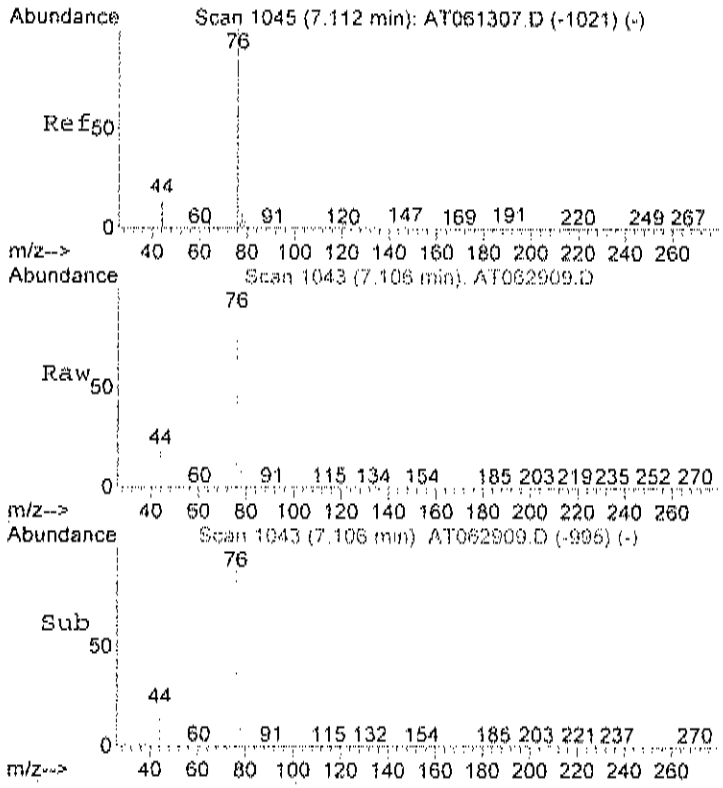


#21
Methylene chloride
Concen: 0.89 ppb
RT: 6.96 min Scan# 994
Delta R.T. 0.01 min
Lab File: AT062909.D
Acq: 29 Jun 2022 3:48 pm

Tgt Ion: 84 Resp: 25974

Ion	Ratio	Lower	Upper
84	100		
49	106.6	93.2	133.2
86	63.9	46.4	86.4

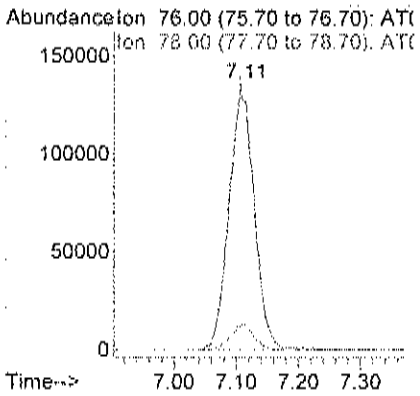


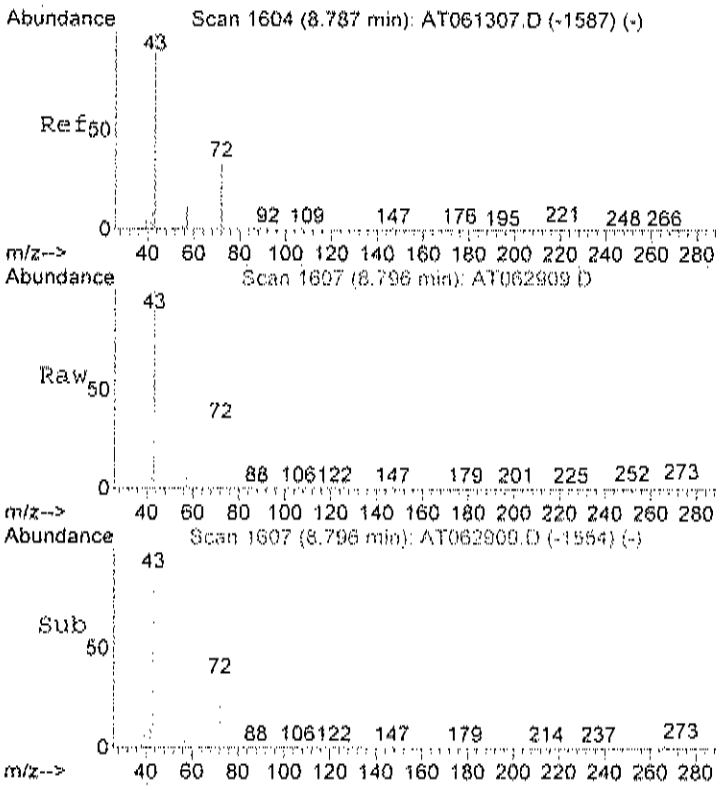


#23
Carbon disulfide
Concen: 4.38 ppb
RT: 7.11 min Scan# 1043
Delta R.T. -0.01 min
Lab File: AT062909.D
Acq: 29 Jun 2022 3:48 pm

Tgt Ion: 76 Resp: 379379

Ion	Ratio	Lower	Upper
76	100		
78	9.2	0.0	29.7

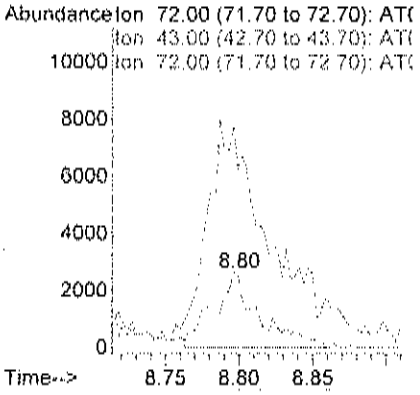


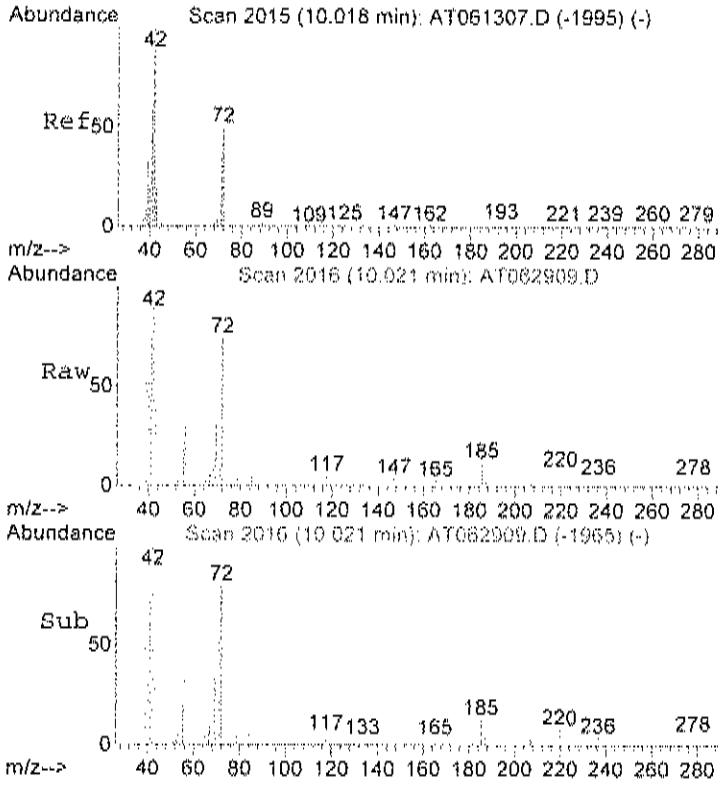


#28
Methyl Ethyl Ketone
Concen: 0.50 ppb
RT: 8.80 min Scan# 1607
Delta R.T. 0.01 min
Lab File: AT062909.D
Acq: 29 Jun 2022 3:48 pm

Tgt Ion: 72 Resp: 5635

Ion	Ratio	Lower	Upper
72	100		
43	420.0	0.0	20.0#
72	100.0	80.0	120.0

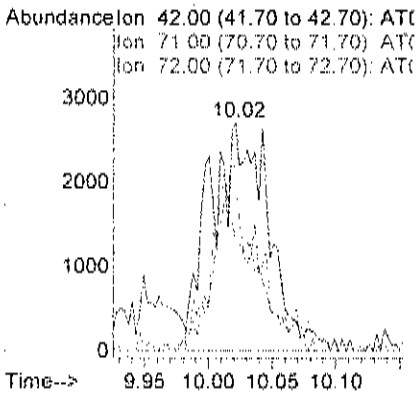


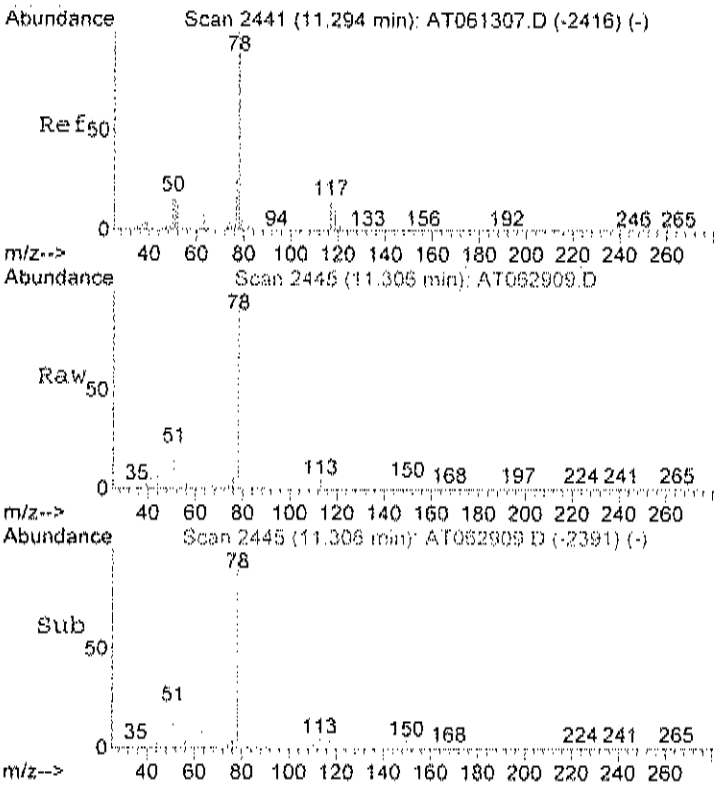


#33
Tetrahydrofuran
Concen: 0.43 ppb
RT: 10.02 min Scan# 2016
Delta R.T. 0.00 min
Lab File: AT062909.D
Acq: 29 Jun 2022 3:48 pm

Tgt Ion: 42 Resp: 8584

Ion	Ratio	Lower	Upper
42	100		
71	53.8	38.0	78.0
72	58.8	35.0	75.0

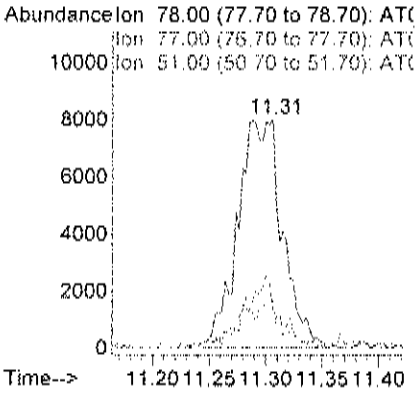


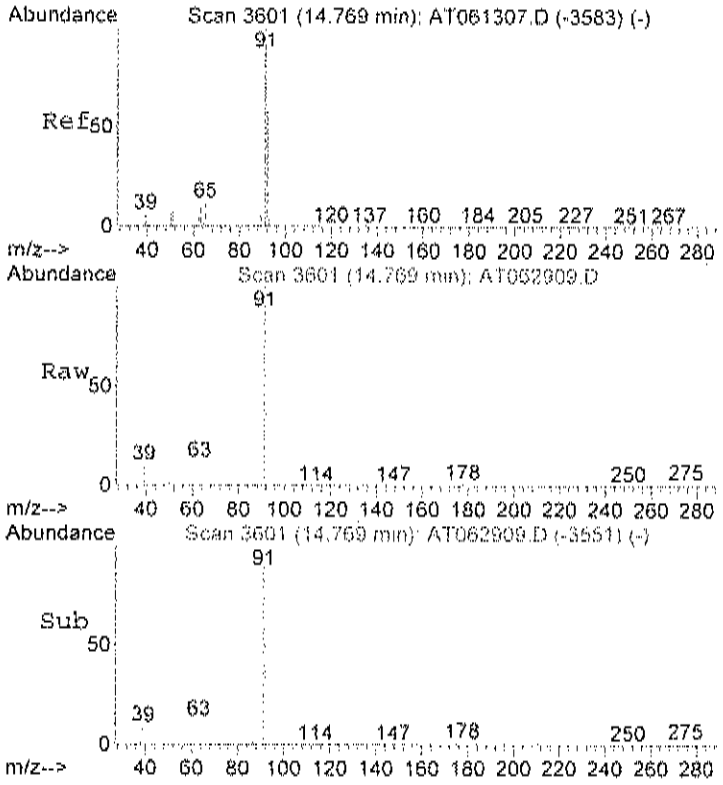


#39
Benzene
Concen: 0.30 ppb
RT: 11.31 min Scan# 2445
Delta R.T. 0.01 min
Lab File: AT062909.D
Acq: 29 Jun 2022 3:48 pm

Tgt Ion: 78 Resp: 21992

Ion	Ratio	Lower	Upper
78	100		
77	24.4	3.1	43.1
51	16.6	0.0	37.8

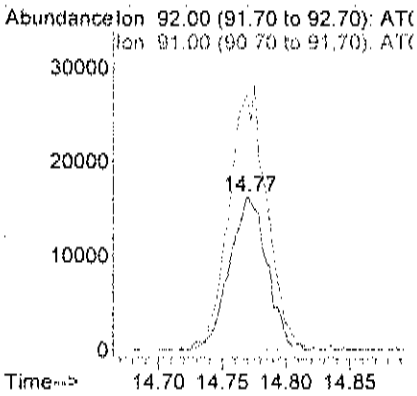


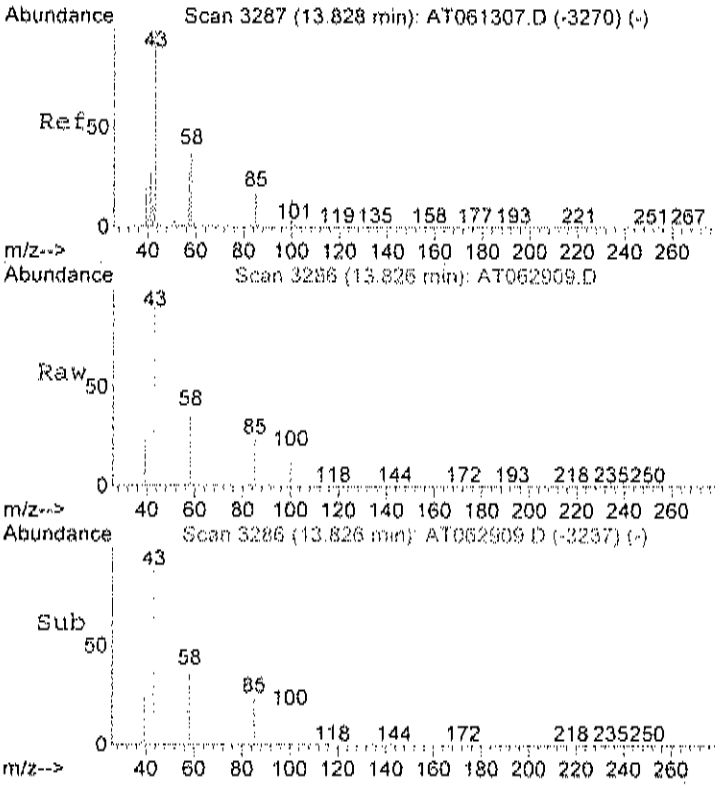


#51
Toluene
Concen: 0.60 ppb
RT: 14.77 min Scan# 3601
Delta R.T. 0.00 min
Lab File: AT062909.D
Acq: 29 Jun 2022 3:48 pm

Tgt Ion: 92 Resp: 33811

Ion	Ratio	Lower	Upper
92	100		
91	171.9	154.4	194.4

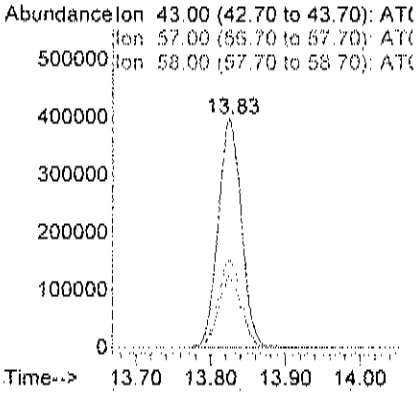


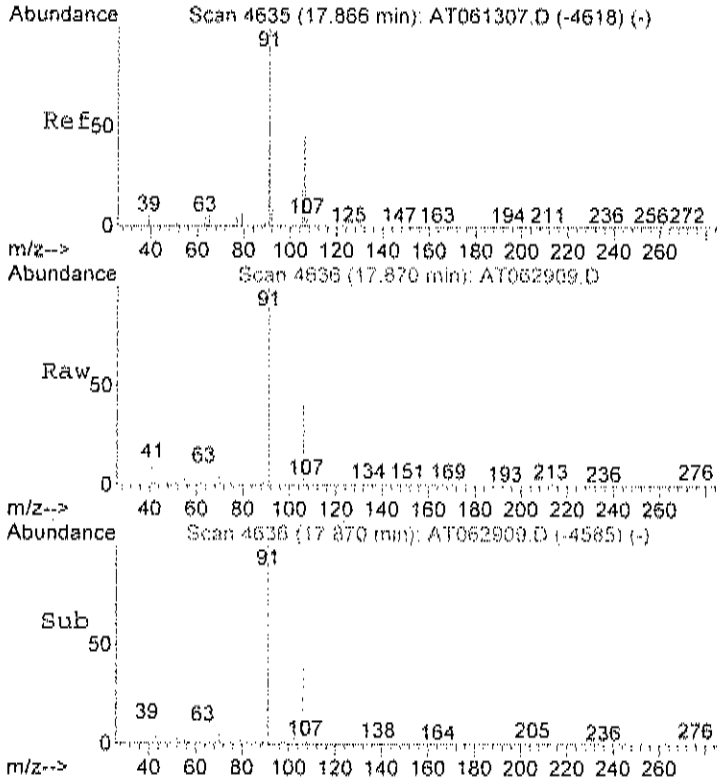


#52
Methyl Isobutyl Ketone
Concen: 17.02 ppb
RT: 13.83 min Scan# 3286
Delta R.T. -0.00 min
Lab File: AT062909.D
Acq: 29 Jun 2022 3:48 pm

Tgt Ion: 43 Resp: 858618

Ion	Ratio	Lower	Upper
43	100		
57	30.3	9.3	49.3
58	38.5	22.0	62.0

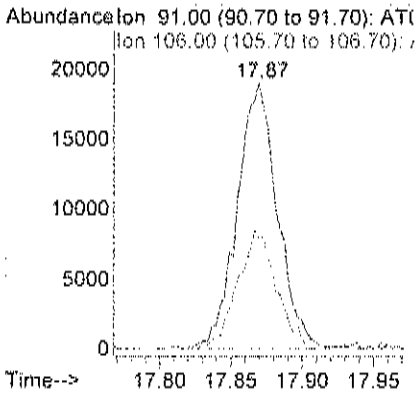


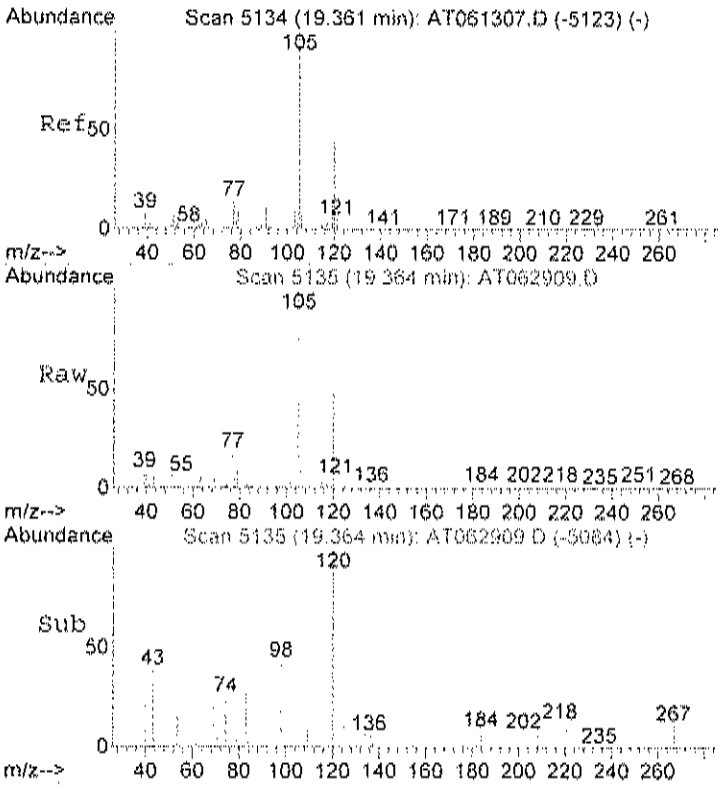


#63
o-xylene
Concen: 0.33 ppb
RT: 17.87 min Scan# 4636
Delta R.T. 0.00 min
Lab File: AT062909.D
Acq: 29 Jun 2022 3:48 pm

Tgt Ion: 91 Resp: 37194

Ion	Ratio	Lower	Upper
91	100		
106	43.4	25.1	65.1

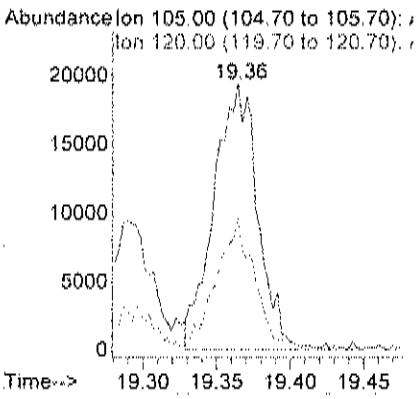


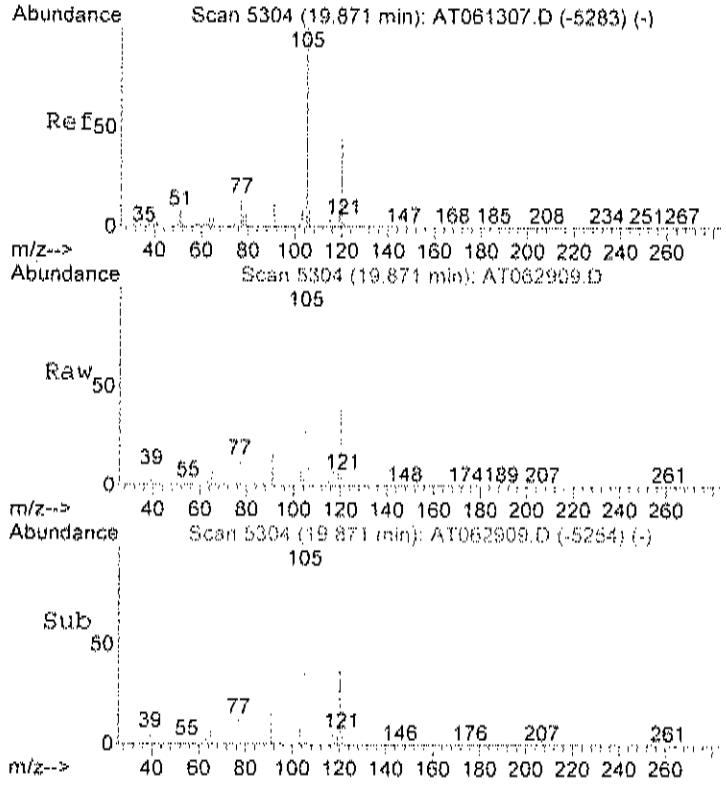


#70
1,3,5-trimethylbenzene
Concen: 0.31 ppb
RT: 19.36 min Scan# 5135
Delta R.T. 0.00 min
Lab File: AT062909.D
Acq: 29 Jun 2022 3:48 pm

Tgt Ion:105 Resp: 40494

Ion	Ratio	Lower	Upper
105	100		
120	42.8	26.2	66.2

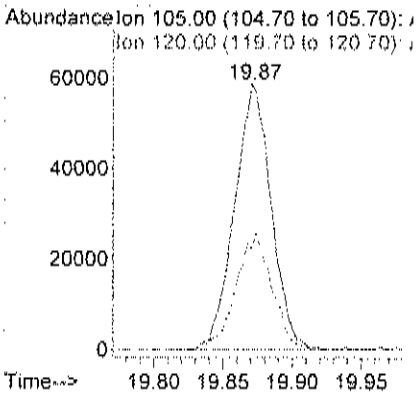


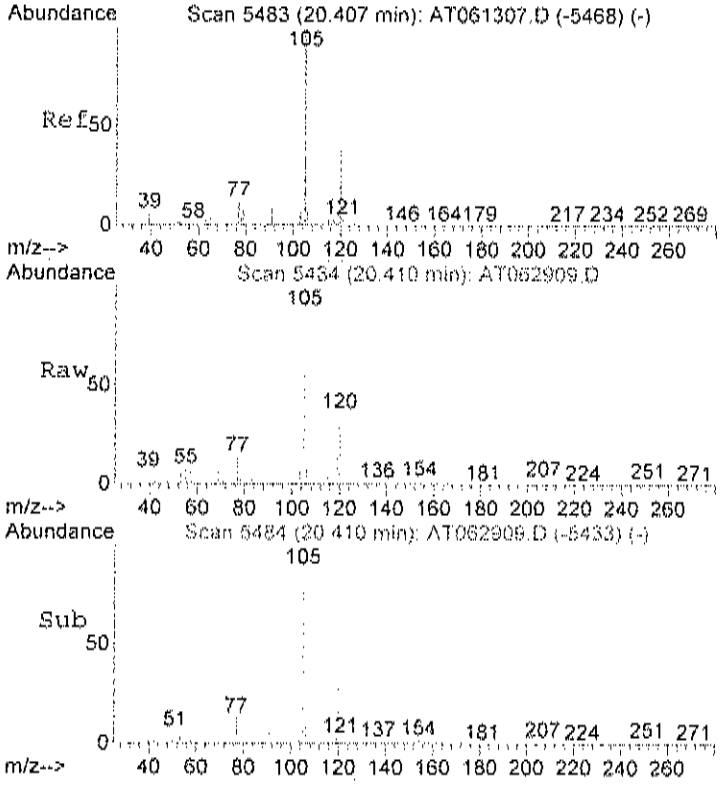


#71
1,2,4-trimethylbenzene
Concen: 0.84 ppb
RT: 19.87 min Scan# 5304
Delta R.T. 0.00 min
Lab File: AT062909.D
Acq: 29 Jun 2022 3:48 pm

Tgt Ion:105 Resp: 108365

Ion	Ratio	Lower	Upper
105	100		
120	43.4	23.8	63.8

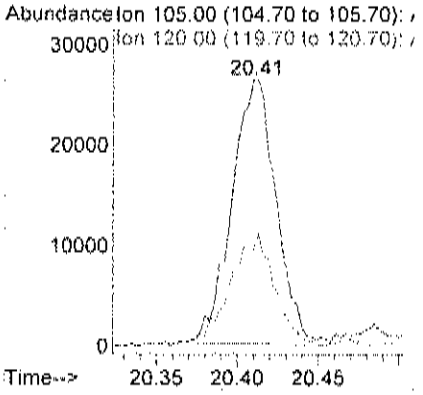




#75
1,2,3-trimethylbenzene
Concen: 0.38 ppb
RT: 20.41 min Scan# 5484
Delta R.T. 0.00 min
Lab File: AT062909.D
Acq: 29 Jun 2022 3:48 pm

Tgt Ion:105 Resp: 50108

Ion	Ratio	Lower	Upper
105	100		
120	44.9	30.7	51.1



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062910.D Vial: 10
Acq On : 29 Jun 2022 4:31 pm Operator: RJP
Sample : C2206048-013A 90X Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 07:33:16 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

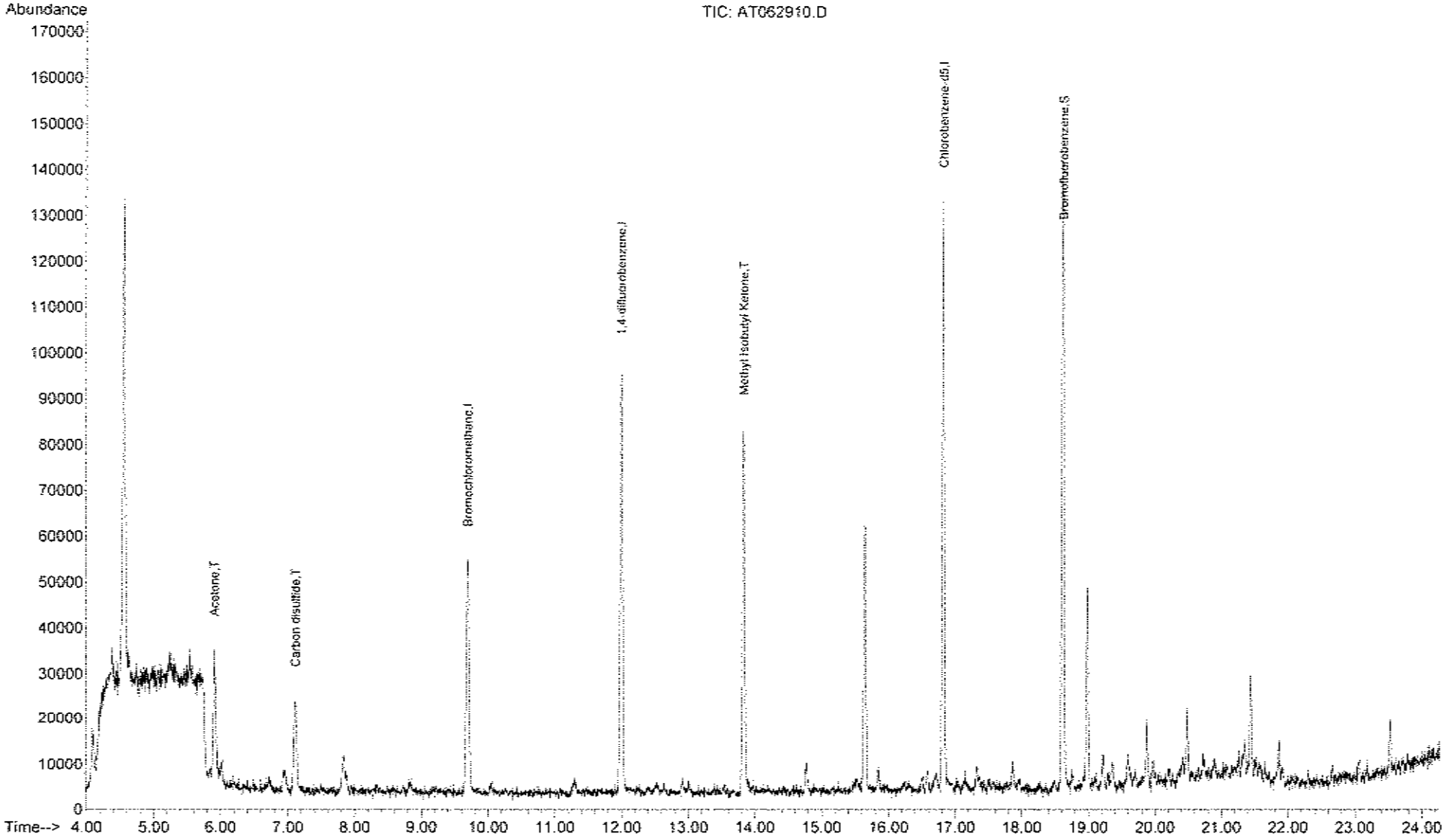
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.69	128	22163	1.00	ppb	0.00
35) 1,4-difluorobenzene	11.99	114	91784	1.00	ppb	0.00
50) Chlorobenzene-d5	16.82	117	82716	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.62	95	48825	0.81	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 81.00%			
Target Compounds						Qvalue
15) Acetone	5.90	58	12767	0.99	ppb	# 46
23) Carbon disulfide	7.11	76	42051	0.50	ppb	100
52) Methyl Isobutyl Ketone	13.82	43	52740	1.21	ppb	96

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

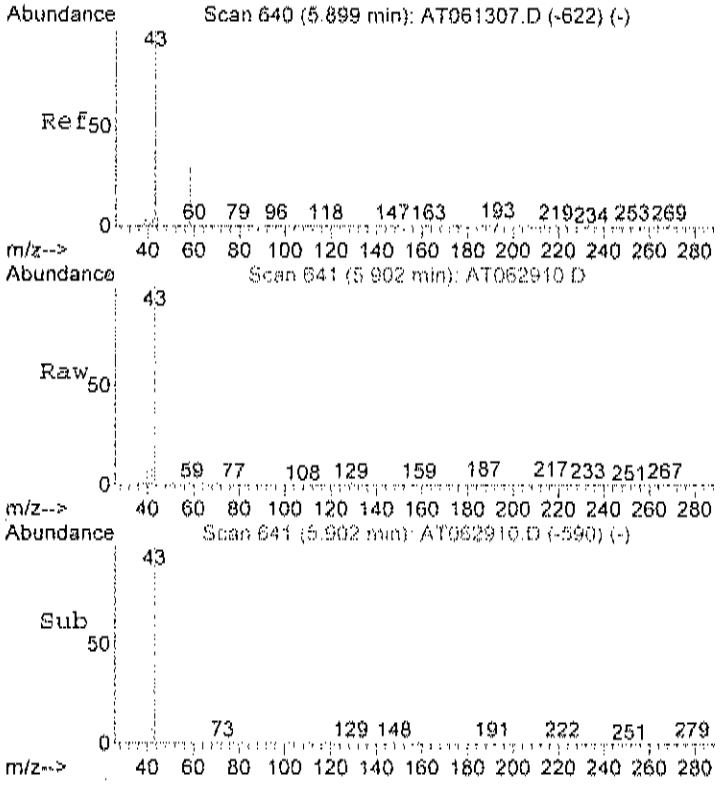
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062910.D Vial: 10
Acq On : 29 Jun 2022 4:31 pm Operator: RJP
Sample : C2206048-013A 90X Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 8:09 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



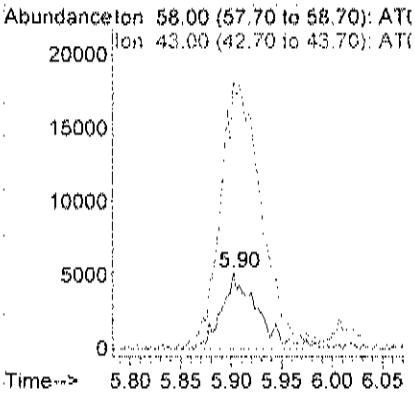
Centek/SanAir Laboratories

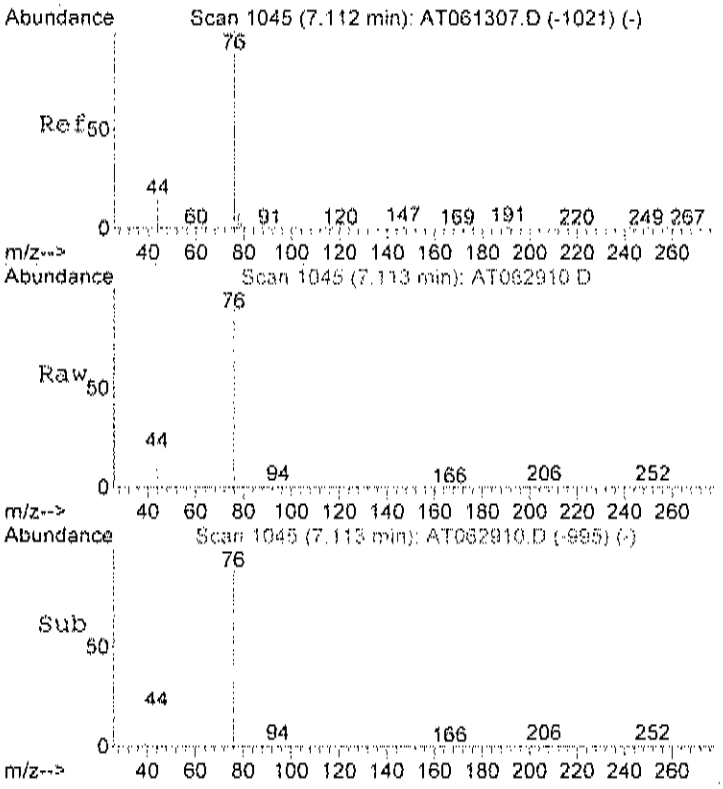


#15
Acetone
Concen: 0.99 ppb
RT: 5.90 min Scan# 641
Delta R.T. 0.00 min
Lab File: AT062910.D
Acq: 29 Jun 2022 4:31 pm

Tgt Ion: 58 Resp: 12767

Ion	Ratio	Lower	Upper
58	100		
43	405.2	268.9	328.9#

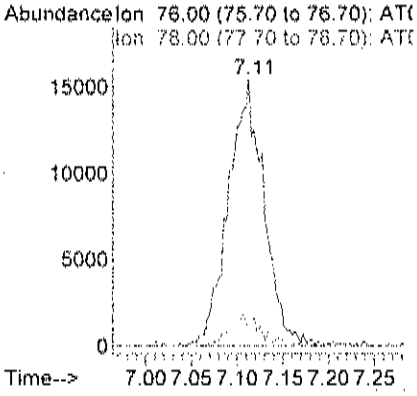


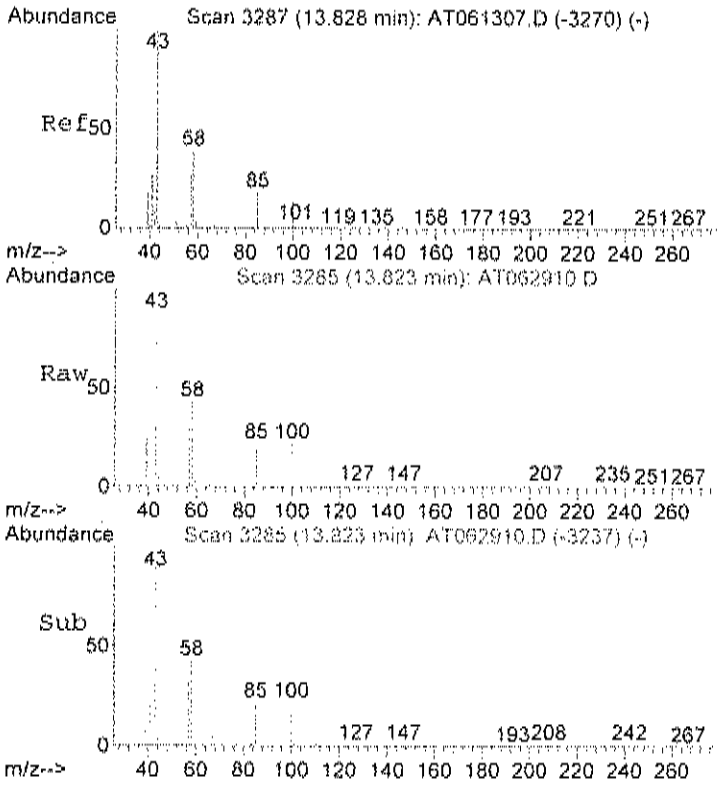


#23
Carbon disulfide
Concen: 0.50 ppb
RT: 7.11 min Scan# 1045
Delta R.T. 0.00 min
Lab File: AT062910.D
Acq: 29 Jun 2022 4:31 pm

Tgt Ion: 76 Resp: 42051

Ion	Ratio	Lower	Upper
76	100		
78	9.7	0.0	29.7

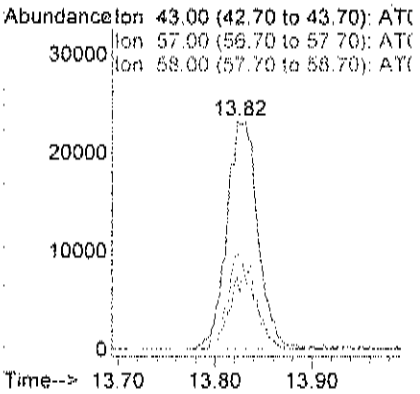




#52
Methyl Isobutyl Ketone
Concen: 1.21 ppb
RT: 13.82 min Scan# 3285
Delta R.T. -0.01 min
Lab File: AT062910.D
Acq: 29 Jun 2022 4:31 pm

Tgt Ion: 43 Resp: 52740

Ion	Ratio	Lower	Upper
43	100		
57	29.9	9.3	49.3
58	38.5	22.0	62.0



Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-014A

Client Sample ID: SVW-13
Tag Number: 1192,175
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-3			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: NP
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,2,4-Trimethylbenzene	2.1	1.5		ppbV	10	6/29/2022 5:14:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,3,5-Trimethylbenzene	1.0	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/25/2022 3:58:00 AM
2,2,4-trimethylpentane	3.6	1.5		ppbV	10	6/29/2022 5:14:00 PM
4-ethyltoluene	0.56	0.15		ppbV	1	6/25/2022 3:58:00 AM
Acetone	62	12		ppbV	40	6/29/2022 5:56:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Benzene	6.4	1.5		ppbV	10	6/29/2022 5:14:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Bromoform	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Carbon disulfide	2.0	0.15		ppbV	1	6/25/2022 3:58:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Chloroethane	0.27	0.15		ppbV	1	6/25/2022 3:58:00 AM
Chloroform	0.11	0.15	J	ppbV	1	6/25/2022 3:58:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
cis-1,2-Dichloroethene	0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Cyclohexane	16	1.5		ppbV	10	6/29/2022 5:14:00 PM

Qualifiers:

- `*` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-014A

Client Sample ID: SVW-13
Tag Number: 1192,175
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Ethyl acetate	0.86	0.15		ppbV	1	6/25/2022 3:58:00 AM
Ethylbenzene	1.2	0.15		ppbV	1	6/25/2022 3:58:00 AM
Freon 11	0.25	0.15		ppbV	1	6/25/2022 3:58:00 AM
Freon 113	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Freon 114	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Freon 12	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Heptane	3.6	1.5		ppbV	10	6/29/2022 5:14:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Hexane	8.6	1.5		ppbV	10	6/29/2022 5:14:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
m&p-Xylene	4.1	0.30		ppbV	1	6/25/2022 3:58:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/25/2022 3:58:00 AM
Methyl Ethyl Ketone	5.0	3.0		ppbV	10	6/29/2022 5:14:00 PM
Methyl Isobutyl Ketone	2.7	3.0	J	ppbV	10	6/29/2022 5:14:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Methylene chloride	0.78	0.15		ppbV	1	6/25/2022 3:58:00 AM
o-Xylene	2.7	1.5		ppbV	10	6/29/2022 5:14:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Styrene	0.36	0.15		ppbV	1	6/25/2022 3:58:00 AM
Tetrachloroethylene	2.5	1.5		ppbV	10	6/29/2022 5:14:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Toluene	3.1	1.5		ppbV	10	6/29/2022 5:14:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Trichloroethene	0.83	0.15		ppbV	1	6/25/2022 3:58:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 3:58:00 AM
Surr: Bromofluorobenzene	112	46.7-129		%REC	1	6/25/2022 3:58:00 AM

Qualifiers:

*	Results reported are not blank corrected
DL	Detection Limit
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
E	Estimated Value above quantitation range
J	Analyte detected below quantitation limit
ND	Not Detected at the Limit of Detection
SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-014A

Client Sample ID: SVW-13
Tag Number: 1192,175
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 3:58:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/25/2022 3:58:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 3:58:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 3:58:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 3:58:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/25/2022 3:58:00 AM
1,2,4-Trimethylbenzene	10	7.4		ug/m3	10	6/29/2022 5:14:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/25/2022 3:58:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 3:58:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 3:58:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/25/2022 3:58:00 AM
1,3,5-Trimethylbenzene	4.9	0.74		ug/m3	1	6/25/2022 3:58:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/25/2022 3:58:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 3:58:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 3:58:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/25/2022 3:58:00 AM
2,2,4-trimethylpentane	17	7.0		ug/m3	10	6/29/2022 5:14:00 PM
4-ethyltoluene	2.8	0.74		ug/m3	1	6/25/2022 3:58:00 AM
Acetone	150	28		ug/m3	40	6/29/2022 5:56:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/25/2022 3:58:00 AM
Benzene	20	4.8		ug/m3	10	6/29/2022 5:14:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/25/2022 3:58:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/25/2022 3:58:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/25/2022 3:58:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/25/2022 3:58:00 AM
Carbon disulfide	6.1	0.47		ug/m3	1	6/25/2022 3:58:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/25/2022 3:58:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/25/2022 3:58:00 AM
Chloroethane	0.71	0.40		ug/m3	1	6/25/2022 3:58:00 AM
Chloroform	0.54	0.73	J	ug/m3	1	6/25/2022 3:58:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	6/25/2022 3:58:00 AM
cis-1,2-Dichloroethene	0.59	0.59		ug/m3	1	6/25/2022 3:58:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 3:58:00 AM
Cyclohexane	55	5.2		ug/m3	10	6/29/2022 5:14:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/25/2022 3:58:00 AM
Ethyl acetate	3.1	0.54		ug/m3	1	6/25/2022 3:58:00 AM
Ethylbenzene	5.2	0.65		ug/m3	1	6/25/2022 3:58:00 AM
Freon 11	1.4	0.84		ug/m3	1	6/25/2022 3:58:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/25/2022 3:58:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/25/2022 3:58:00 AM

Qualifiers:

- `.` Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-014A

Client Sample ID: SVW-13
Tag Number: 1192,175
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	< 0.74	0.74		ug/m3	1	6/25/2022 3:58:00 AM
Heptane	15	6.1		ug/m3	10	6/29/2022 5:14:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/25/2022 3:58:00 AM
Hexane	30	5.3		ug/m3	10	6/29/2022 5:14:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/25/2022 3:58:00 AM
m&p-Xylene	18	1.3		ug/m3	1	6/25/2022 3:58:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/25/2022 3:58:00 AM
Methyl Ethyl Ketone	15	8.8		ug/m3	10	6/29/2022 5:14:00 PM
Methyl Isobutyl Ketone	11	12	J	ug/m3	10	6/29/2022 5:14:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/25/2022 3:58:00 AM
Methylene chloride	2.7	0.52		ug/m3	1	6/25/2022 3:58:00 AM
o-Xylene	12	6.5		ug/m3	10	6/29/2022 5:14:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/25/2022 3:58:00 AM
Styrene	1.5	0.64		ug/m3	1	6/25/2022 3:58:00 AM
Tetrachloroethylene	17	10		ug/m3	10	6/29/2022 5:14:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/25/2022 3:58:00 AM
Toluene	12	5.7		ug/m3	10	6/29/2022 5:14:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 3:58:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 3:58:00 AM
Trichloroethene	4.5	0.81		ug/m3	1	6/25/2022 3:58:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/25/2022 3:58:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/25/2022 3:58:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/25/2022 3:58:00 AM

Qualifiers:

- `*` Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062424.D Vial: 23
Acq On : 25 Jun 2022 3:58 am Operator: RJP
Sample : C2206048-014A Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 27 11:12:24 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

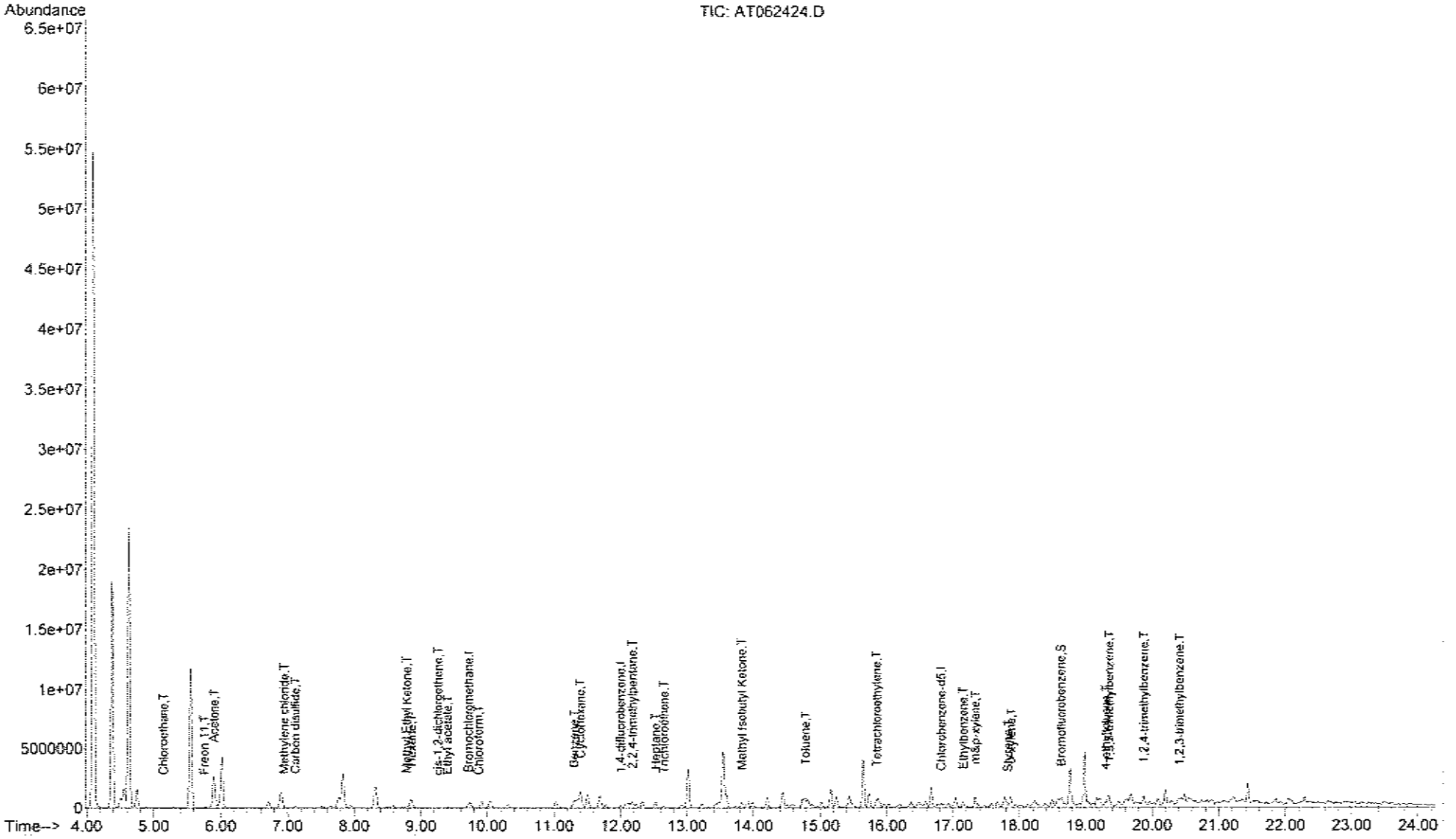
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.70	128	36013	1.00	ppb		0.02
35) 1,4-difluorobenzene	12.00	114	168716	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	156199	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	126432m	1.12	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 112.00%				
Target Compounds							Qvalue
10) Chloroethane	5.14	64	5160	0.27	ppb		92
14) Freon 11	5.75	101	50669	0.25	ppb		99
15) Acetone	5.90	58	1422725	67.93	ppb		96
21) Methylene chloride	6.96	84	35759	0.78	ppb		95
23) Carbon disulfide	7.12	76	266877	1.96	ppb		99
28) Methyl Ethyl Ketone	8.79	72	94031	5.28	ppb	#	100
29) cis-1,2-dichloroethene	9.25	61	8806	0.15	ppb		91
30) Hexane	8.85	57	531284	9.94	ppb		92
31) Ethyl acetate	9.40	43	71603	0.85	ppb		97
32) Chloroform	9.86	83	12796	0.11	ppb	#	17
37) Cyclohexane	11.40	56	872346	17.09	ppb	#	59
39) Benzene	11.30	78	732675	6.04	ppb		88
42) 2,2,4-trimethylpentane	12.17	57	588379	3.69	ppb	#	24
43) Heptane	12.52	43	211973	3.72	ppb		94
44) Trichloroethene	12.65	130	55081	0.83	ppb		96
51) Toluene	14.78	92	274492	2.97	ppb		98
52) Methyl Isobutyl Ketone	13.83	43	235913	2.86	ppb	#	77
56) Tetrachloroethylene	15.85	164	162359	2.27	ppb		98
58) Ethylbenzene	17.15	91	256974	1.20	ppb		99
59) m&p-xylene	17.33	91	715009	4.09	ppb		98
61) Styrene	17.83	104	46935	0.36	ppb	#	5
63) o-xylene	17.87	91	494044	2.66	ppb		98
69) 4-ethyltoluene	19.29	105	135706m	0.56	ppb		
70) 1,3,5-trimethylbenzene	19.36	105	216702m	1.00	ppb		
71) 1,2,4-trimethylbenzene	19.87	105	453448	2.16	ppb		99
75) 1,2,3-trimethylbenzene	20.40	105	164053	0.76	ppb		95

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

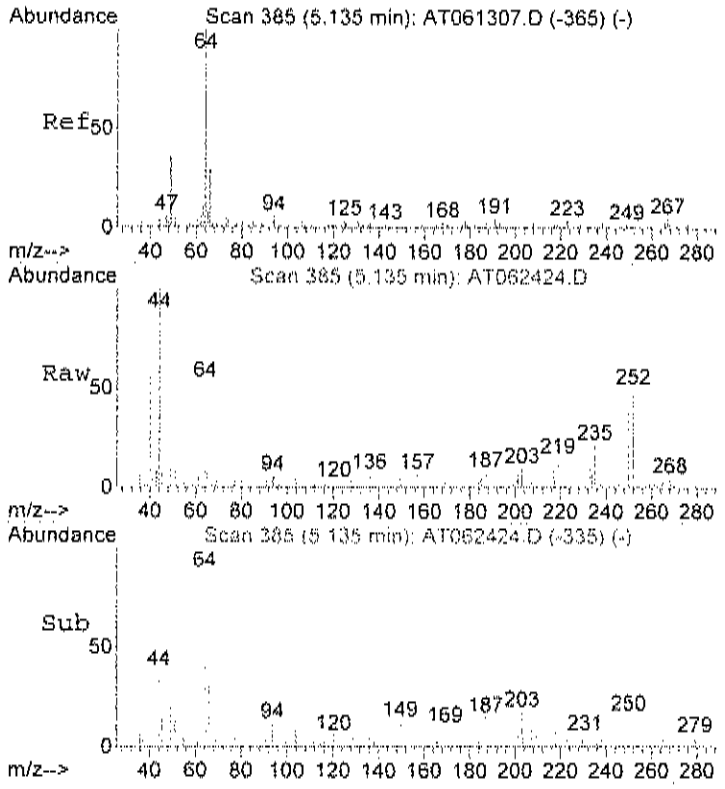
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062424.D Vial: 23
Acq On : 25 Jun 2022 3:58 am Operator: RJP
Sample : C2206048-014A Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 14:24 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



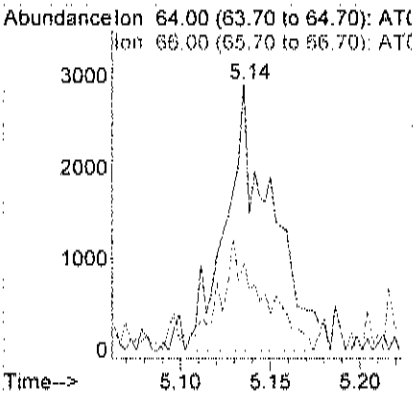
Centek/SanAir Laboratories

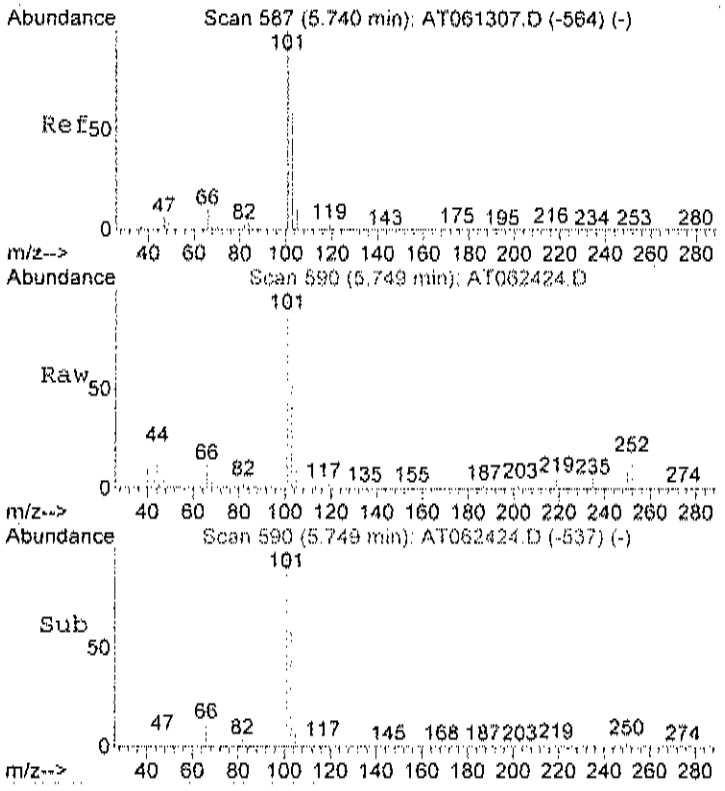


#10
Chloroethane
Concen: 0.27 ppb
RT: 5.14 min Scan# 385
Delta R.T. 0.00 min
Lab File: AT062424.D
Acq: 25 Jun 2022 3:58 am

Tgt Ion: 64 Resp: 5160

Ion	Ratio	Lower	Upper
64	100		
66	38.1	27.0	40.4

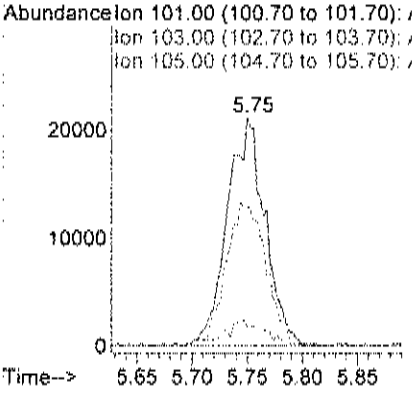


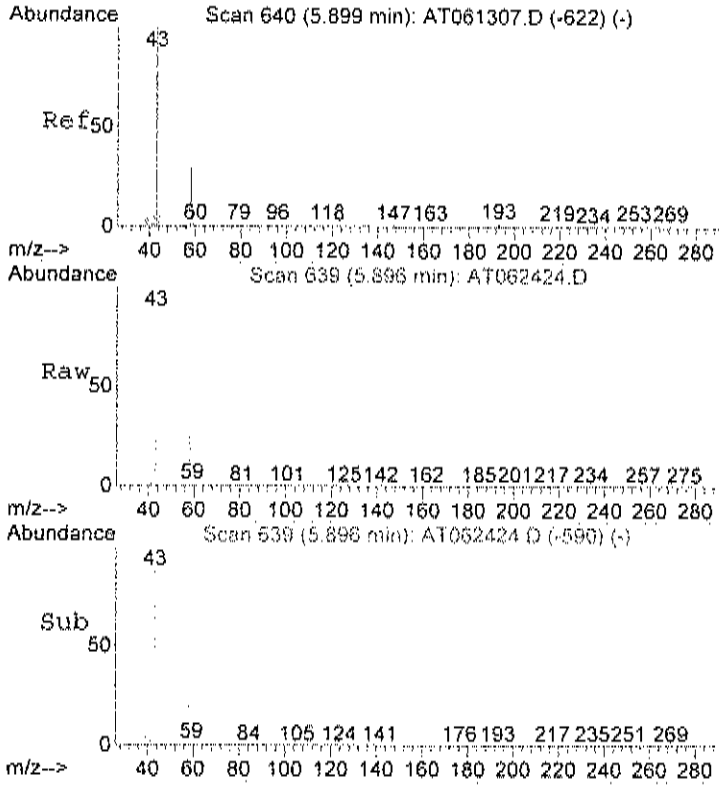


#14
Freon 11
Concen: 0.25 ppb
RT: 5.75 min Scan# 590
Delta R.T. 0.01 min
Lab File: AT062424.D
Acq: 25 Jun 2022 3:58 am

Tgt Ion:101 Resp: 50669

Ion	Ratio	Lower	Upper
101	100		
103	67.0	46.3	86.3
105	12.0	0.0	31.2

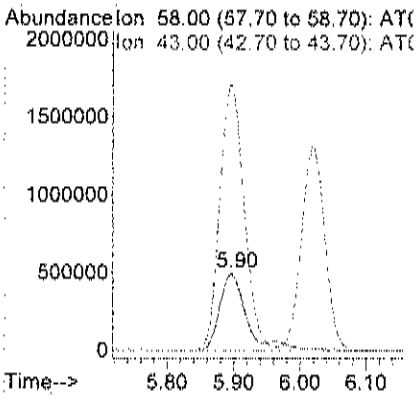


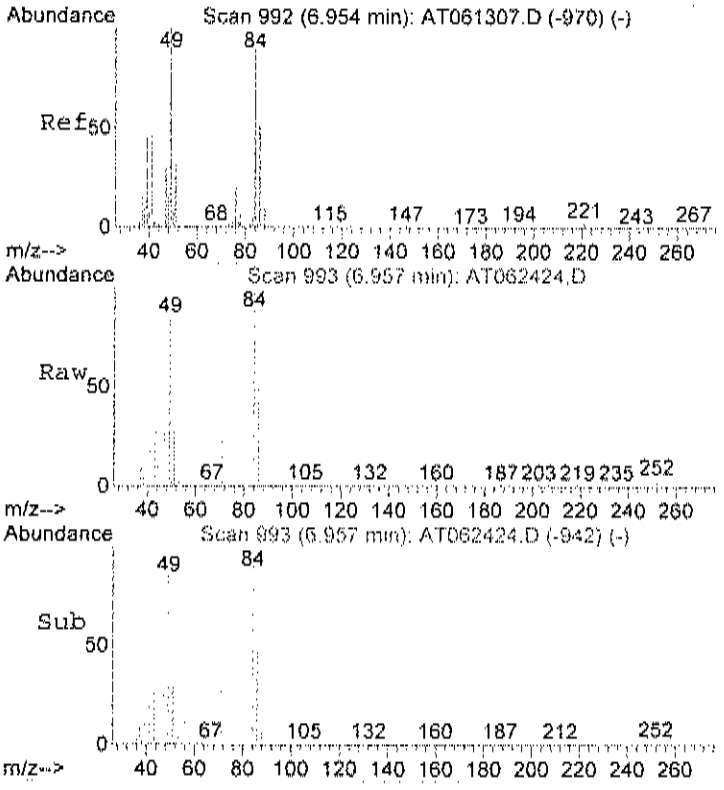


#15
Acetone
Concen: 67.93 ppb
RT: 5.90 min Scan# 639
Delta R.T. -0.00 min
Lab File: AT062424.D
Acq: 25 Jun 2022 3:58 am

Tgt Ion: 58 Resp: 1422725

Ion	Ratio	Lower	Upper
58	100		
43	306.3	268.9	328.9

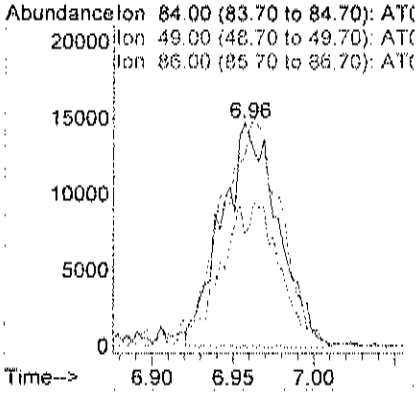


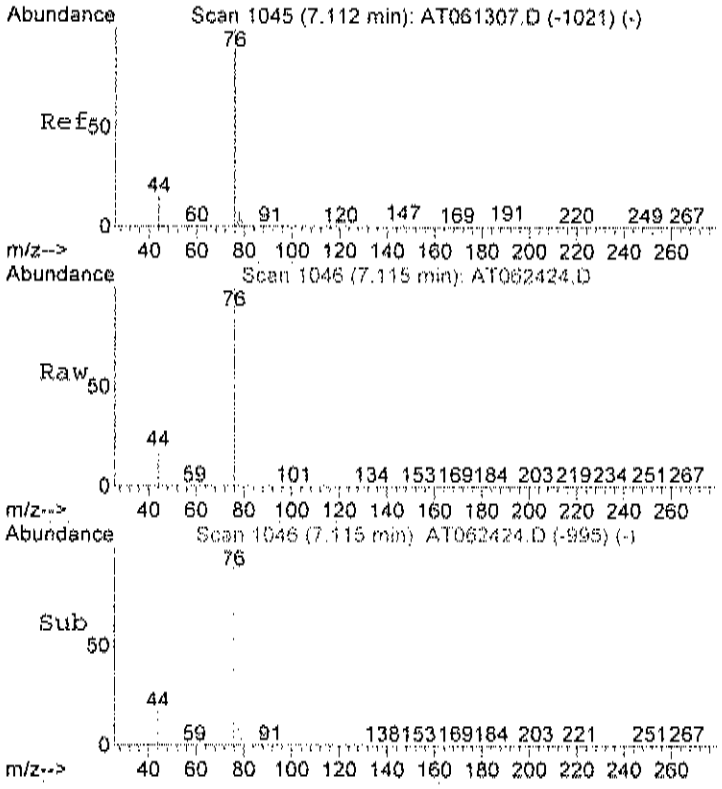


#21
Methylene chloride
Concen: 0.78 ppb
RT: 6.96 min Scan# 993
Delta R.T. 0.00 min
Lab File: AT062424.D
Acq: 25 Jun 2022 3:58 am

Tgt Ion: 84 Resp: 35759

Ion	Ratio	Lower	Upper
84	100		
49	104.9	93.2	133.2
86	67.3	46.4	86.4

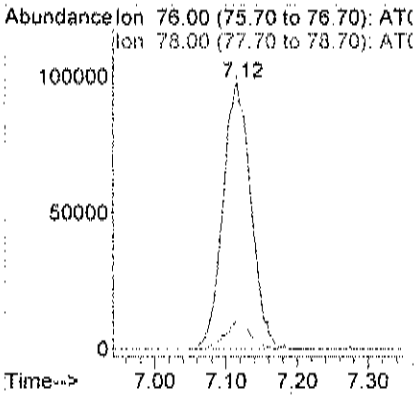


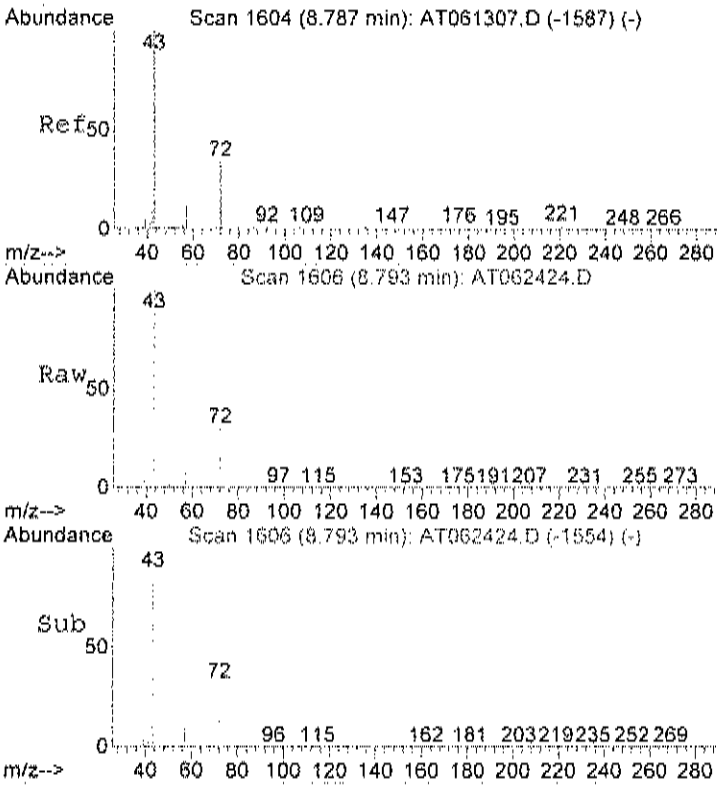


#23
Carbon disulfide
Concen: 1.96 ppb
RT: 7.12 min Scan# 1046
Delta R.T. 0.00 min
Lab File: AT062424.D
Acq: 25 Jun 2022 3:58 am

Tgt Ion: 76 Resp: 266877

Ion	Ratio	Lower	Upper
76	100		
78	9.3	0.0	29.7

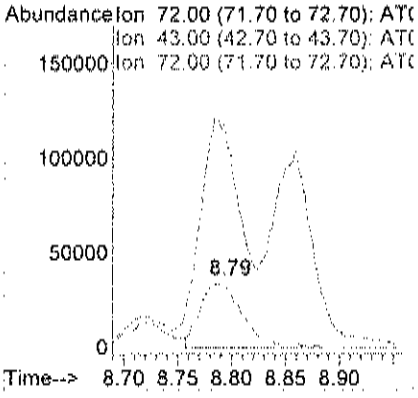


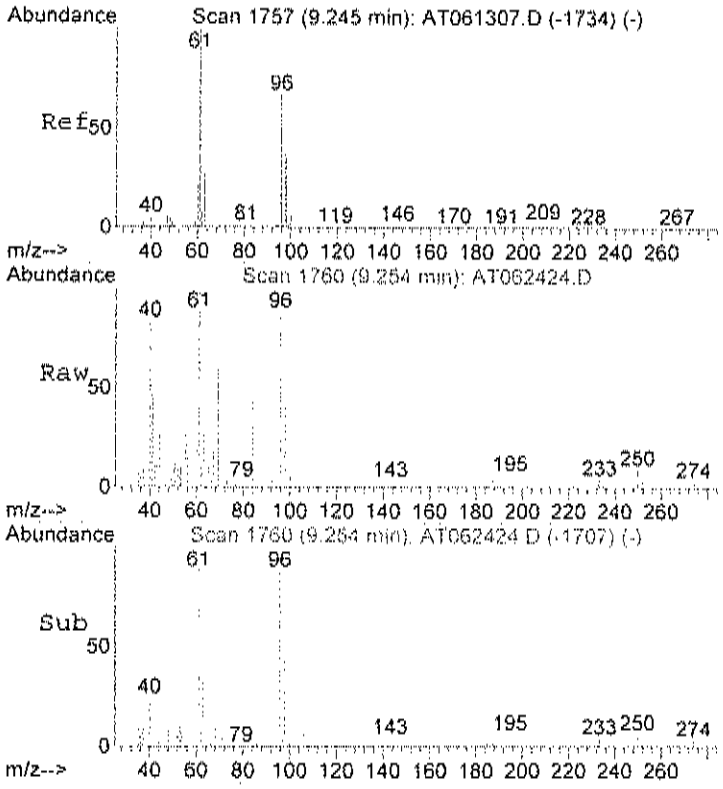


#28
Methyl Ethyl Ketone
Concen: 5.28 ppb
RT: 8.79 min Scan# 1606
Delta R.T. 0.01 min
Lab File: AT062424.D
Acq: 25 Jun 2022 3:58 am

Tgt Ion: 72 Resp: 94031

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

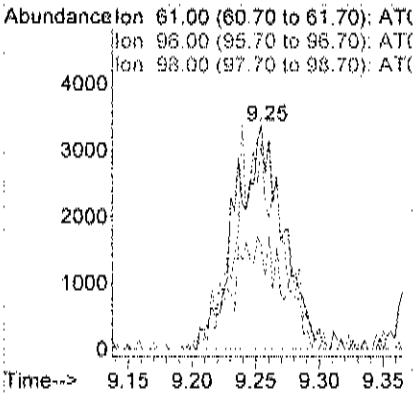


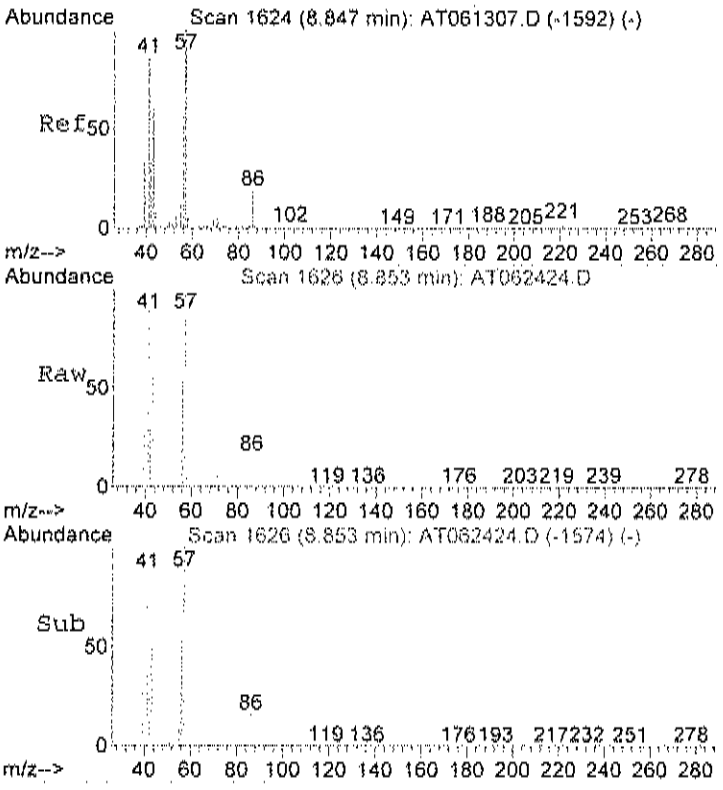


#29
cis-1,2-dichloroethene
Concen: 0.15 ppb
RT: 9.25 min Scan# 1760
Delta R.T. 0.01 min
Lab File: AT062424.D
Acq: 25 Jun 2022 3:58 am

Tgt Ion: 61 Resp: 8806

Ion	Ratio	Lower	Upper
61	100		
96	91.3	60.1	100.1
98	55.5	33.1	73.1

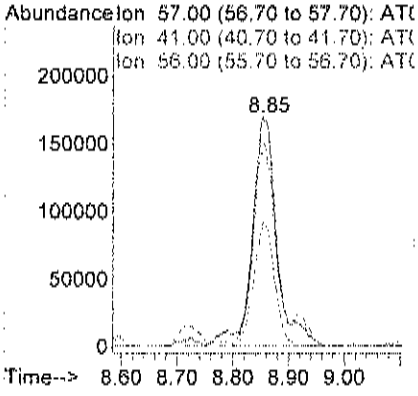


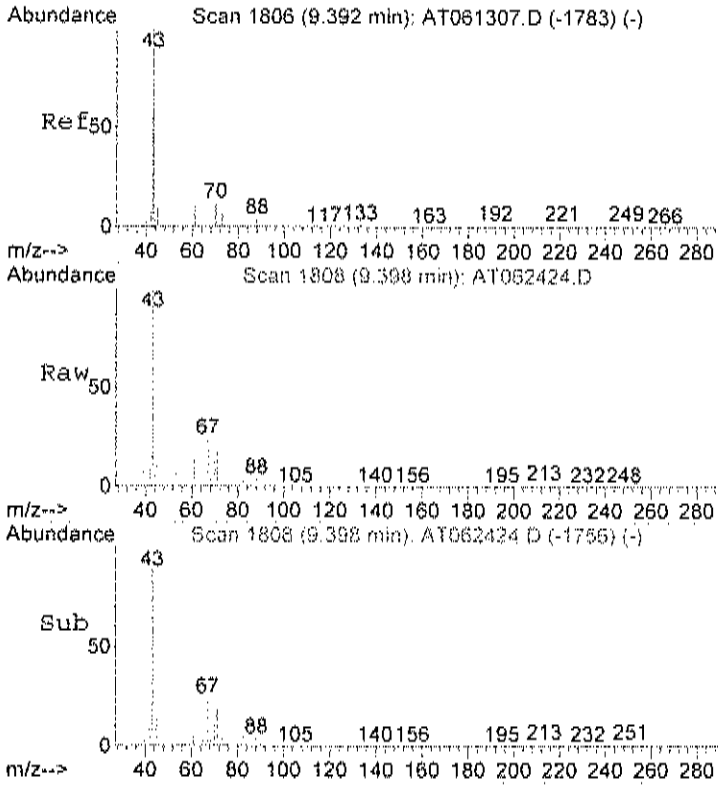


#30
Hexane
Concen: 9.94 ppb
RT: 8.85 min Scan# 1626
Delta R.T. 0.01 min
Lab File: AT062424.D
Acq: 25 Jun 2022 3:58 am

Tgt Ion: 57 Resp: 531284

Ion	Ratio	Lower	Upper
57	100		
41	86.1	58.1	98.1
56	45.3	28.7	68.7

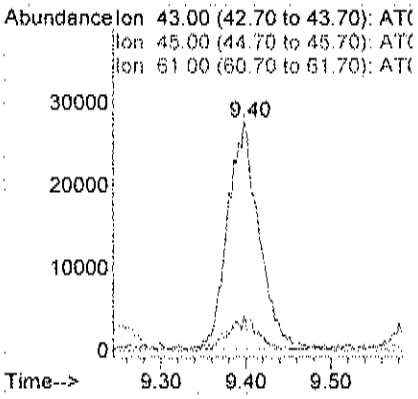


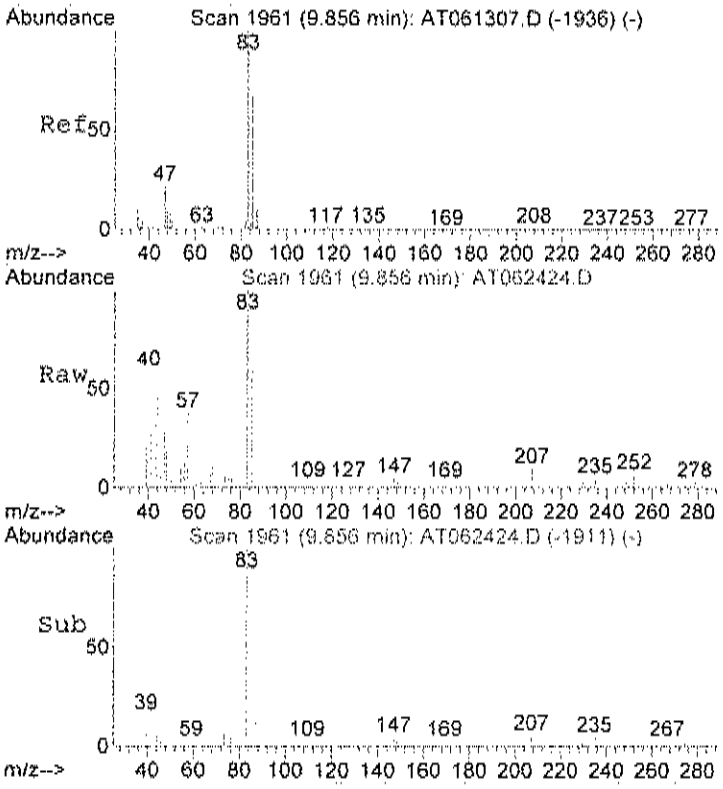


#31
Ethyl acetate
Concen: 0.85 ppb
RT: 9.40 min Scan# 1808
Delta R.T. 0.01 min
Lab File: AT062424.D
Acq: 25 Jun 2022 3:58 am

Tgt Ion: 43 Resp: 71603

Ion	Ratio	Lower	Upper
43	100		
45	14.8	0.0	33.7
61	13.2	0.0	34.7

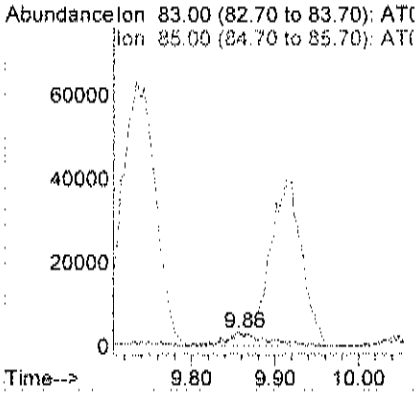


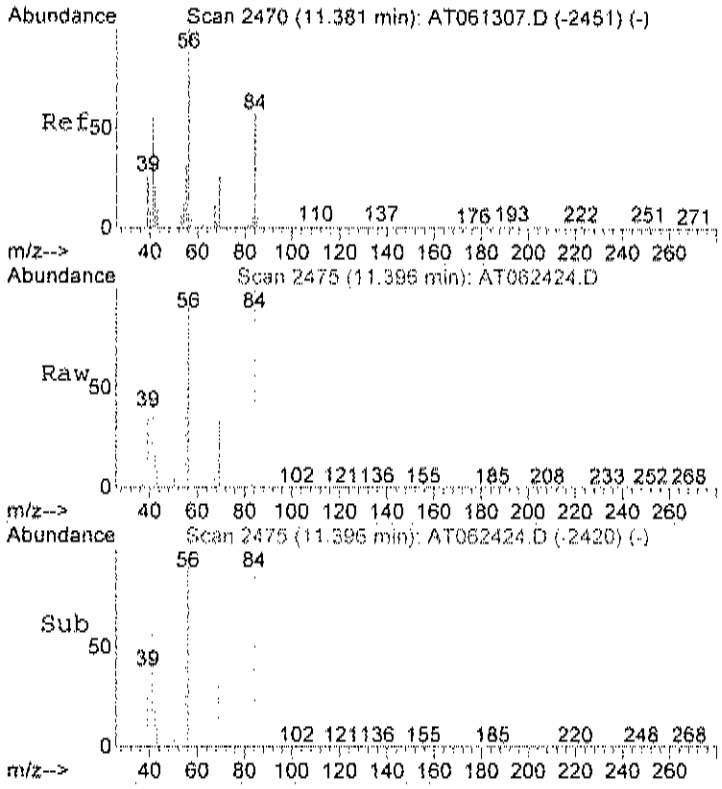


#32
Chloroform
Concen: 0.11 ppb
RT: 9.86 min Scan# 1961
Delta R.T. 0.00 min
Lab File: AT062424.D
Acq: 25 Jun 2022 3:58 am

Tgt Ion: 83 Resp: 12796

Ion	Ratio	Lower	Upper
83	100		
85	0.0	46.5	86.5#

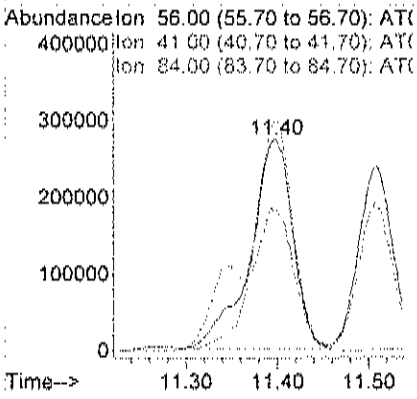


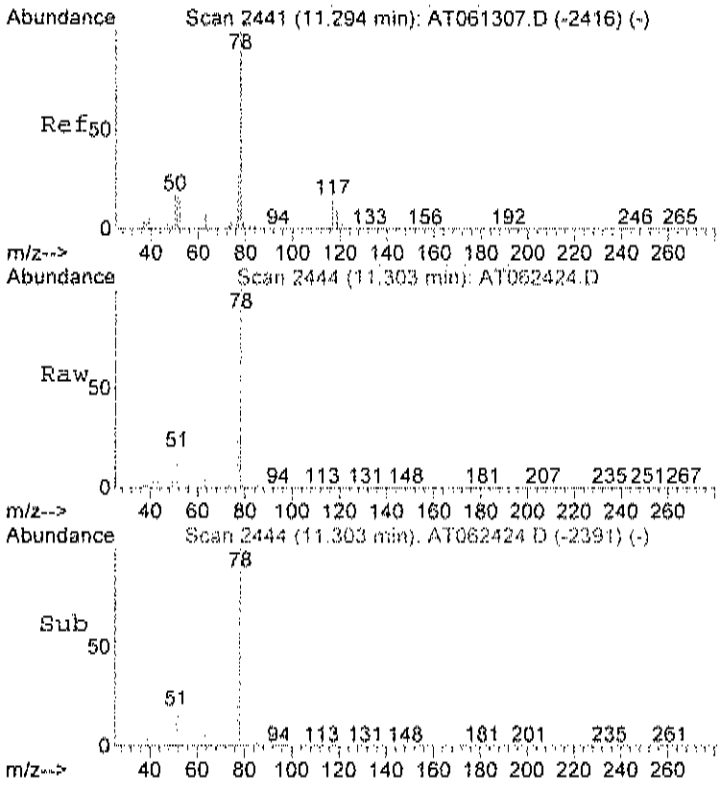


#37
Cyclohexane
Concen: 17.09 ppb
RT: 11.40 min Scan# 2475
Delta R.T. 0.02 min
Lab File: AT062424.D
Acq: 25 Jun 2022 3:58 am

Tgt Ion: 56 Resp: 872346

Ion	Ratio	Lower	Upper
56	100		
41	90.1	40.3	80.3#
84	100.2	133.0	173.0#

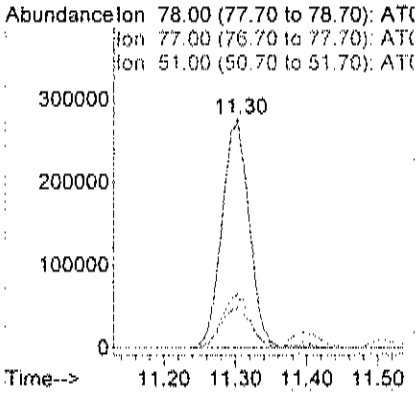


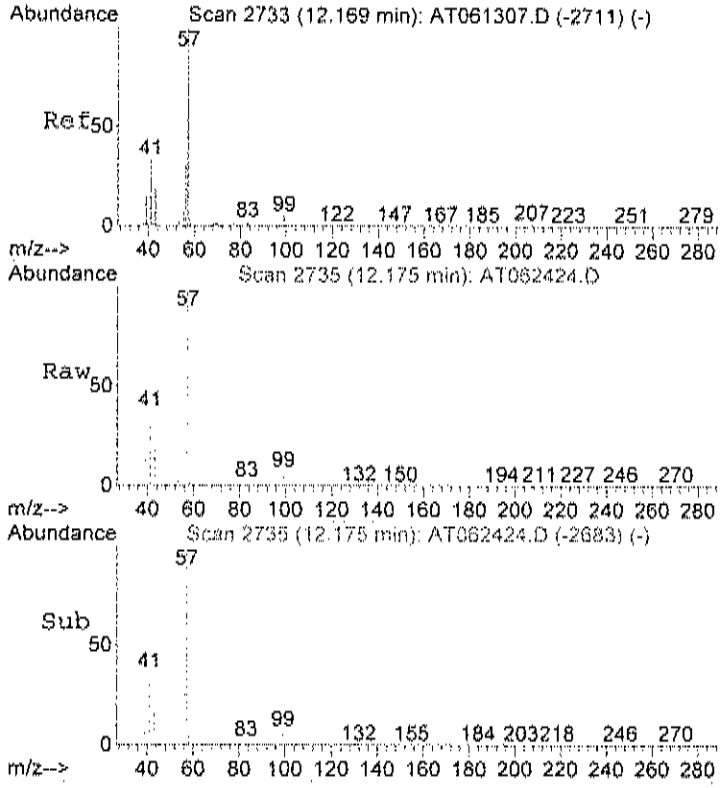


#39
Benzene
Concen: 6.04 ppb
RT: 11.30 min Scan# 2444
Delta R.T. 0.01 min
Lab File: AT062424.D
Acq: 25 Jun 2022 3:58 am

Tgt Ion: 78 Resp: 732675

Ion	Ratio	Lower	Upper
78	100		
77	25.7	3.1	43.1
51	27.0	0.0	37.8

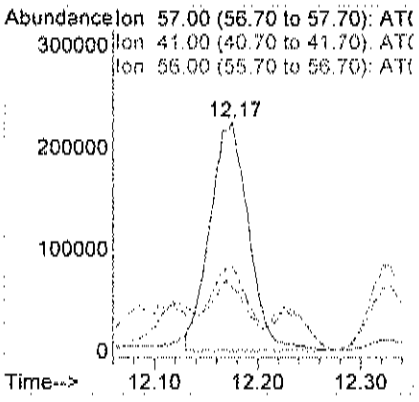


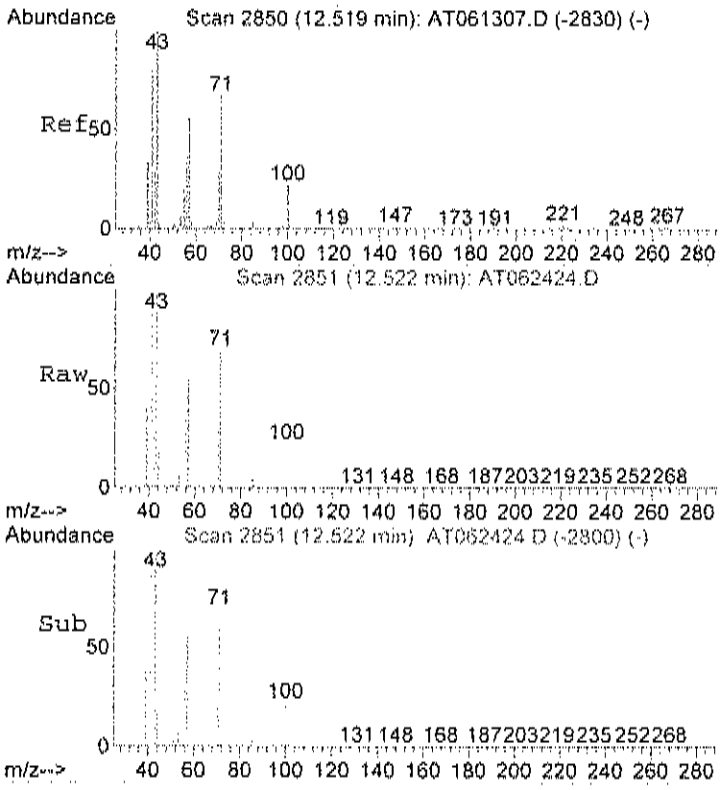


#42
2,2,4-trimethylpentane
Concen: 3.69 ppb
RT: 12.17 min Scan# 2735
Delta R.T. 0.01 min
Lab File: AT062424.D
Acq: 25 Jun 2022 3:58 am

Tgt Ion: 57 Resp: 588379

Ion	Ratio	Lower	Upper
57	100		
41	82.1	15.3	55.3#
56	69.0	10.1	50.1#

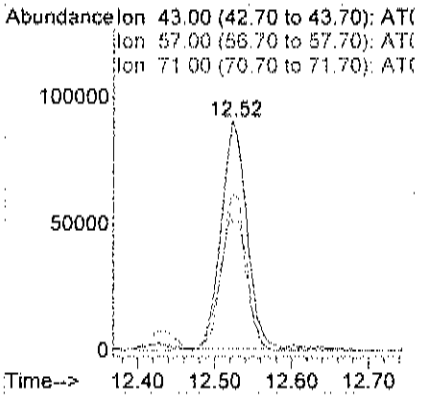


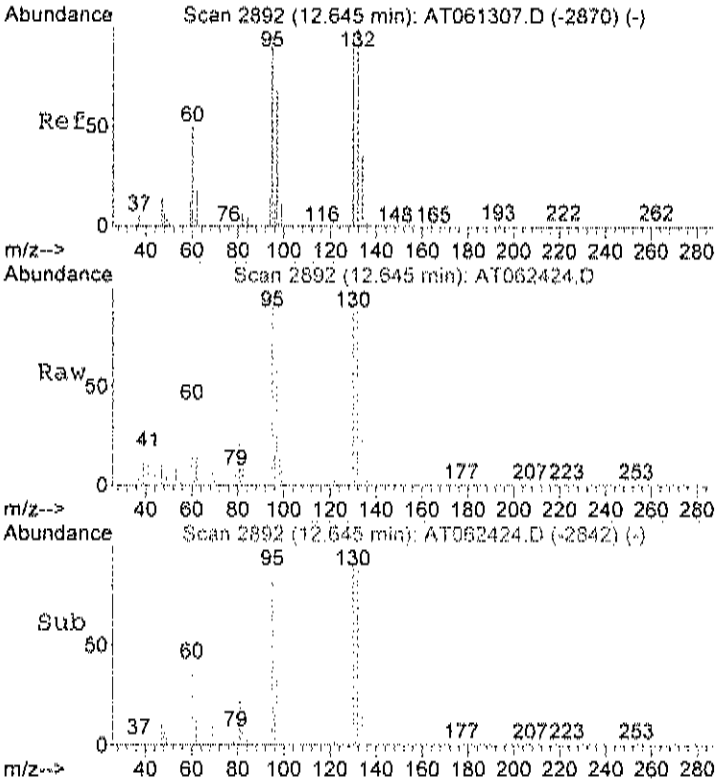


#43
Heptane
Concen: 3.72 ppb
RT: 12.52 min Scan# 2851
Delta R.T. 0.00 min
Lab File: AT062424.D
Acq: 25 Jun 2022 3:58 am

Tgt Ion: 43 Resp: 211973

Ion	Ratio	Lower	Upper
43	100		
57	60.0	41.7	81.7
71	65.6	53.4	93.4

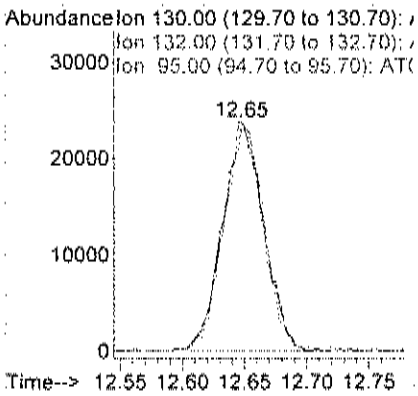


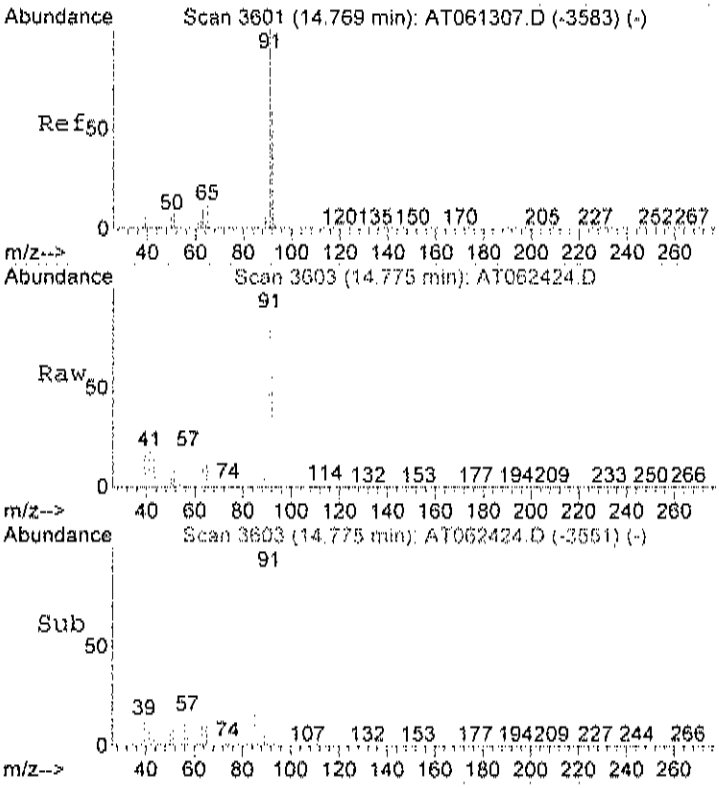


#44
Trichloroethene
Concen: 0.83 ppb
RT: 12.65 min Scan# 2892
Delta R.T. 0.00 min
Lab File: AT062424.D
Acq: 25 Jun 2022 3:58 am

Tgt Ion:130 Resp: 55081

Ion	Ratio	Lower	Upper
130	100		
132	94.7	76.7	116.7
95	100.4	74.7	114.7

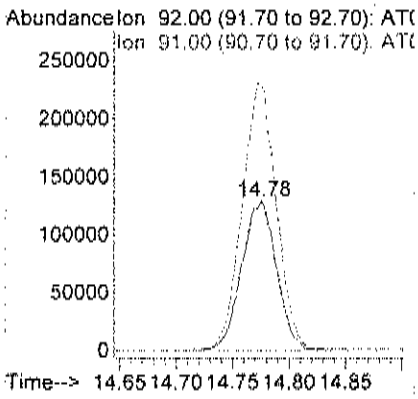


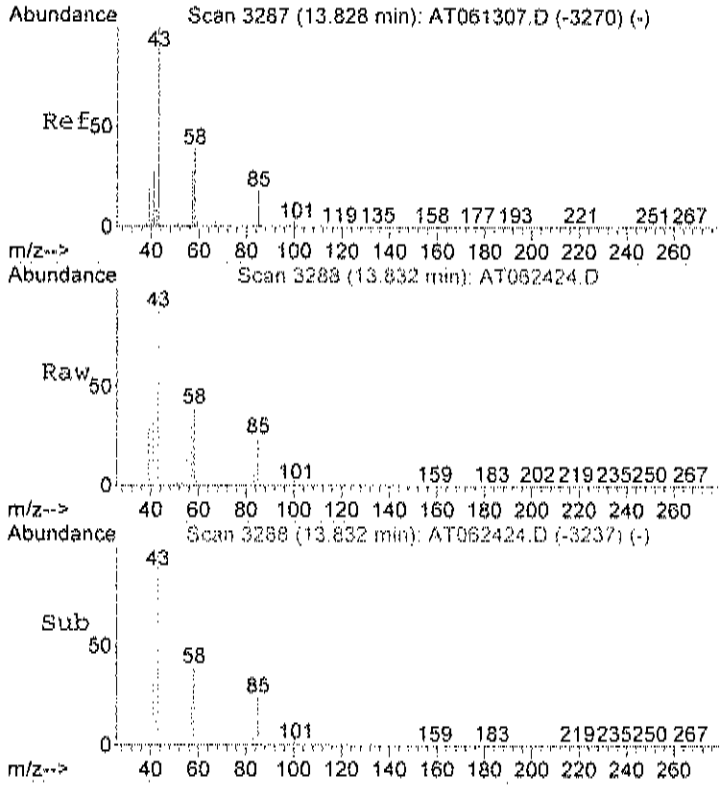


#51
Toluene
Concen: 2.97 ppb
RT: 14.78 min Scan# 3603
Delta R.T. 0.01 min
Lab File: AT062424.D
Acq: 25 Jun 2022 3:58 am

Tgt Ion: 92 Resp: 274492

Ion	Ratio	Lower	Upper
92	100		
91	176.5	154.4	194.4

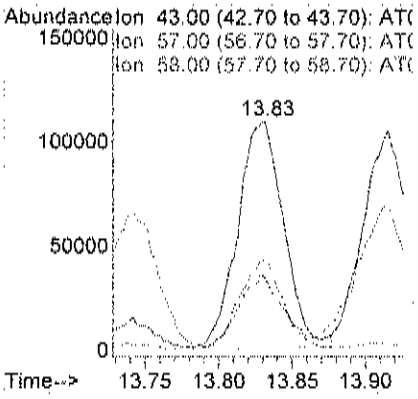


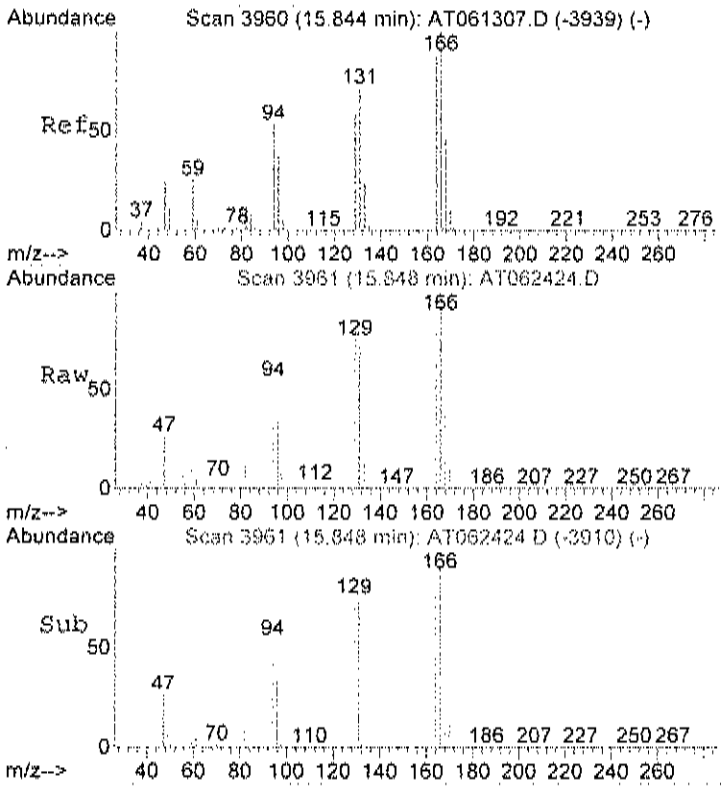


#52
Methyl Isobutyl Ketone
Concen: 2.86 ppb
RT: 13.83 min Scan# 3288
Delta R.T. 0.00 min
Lab File: AT062424.D
Acq: 25 Jun 2022 3:58 am

Tgt Ion: 43 Resp: 235913

Ion	Ratio	Lower	Upper
43	100		
57	0.0	9.3	49.3#
58	42.3	22.0	62.0

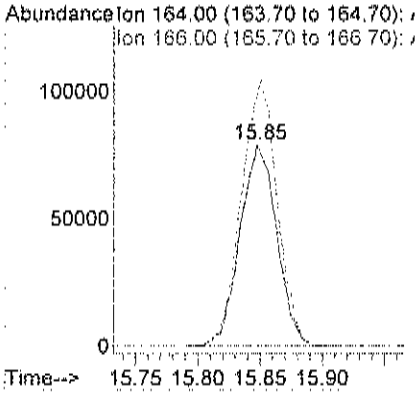


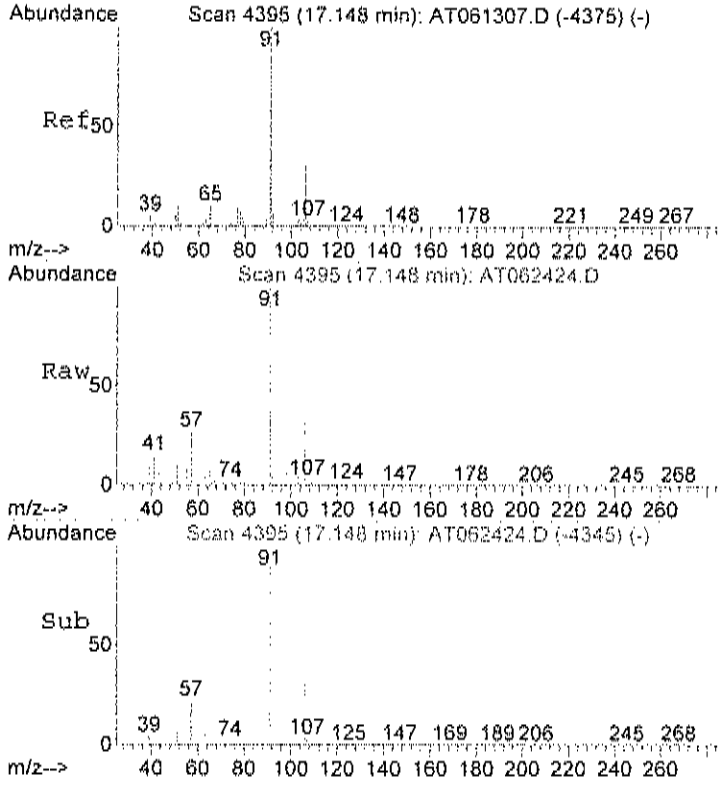


#56
Tetrachloroethylene
Concen: 2.27 ppb
RT: 15.85 min Scan# 3961
Delta R.T. 0.00 min
Lab File: AT062424.D
Acq: 25 Jun 2022 3:58 am

Tgt Ion:164 Resp: 162359

Ion	Ratio	Lower	Upper
164	100		
166	129.6	107.7	147.7

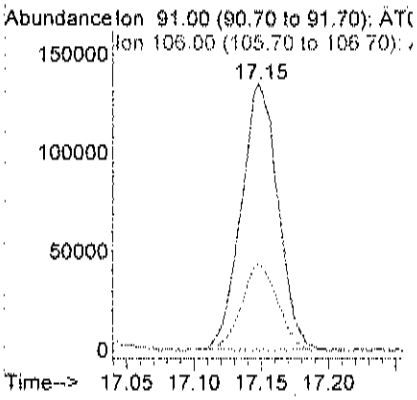


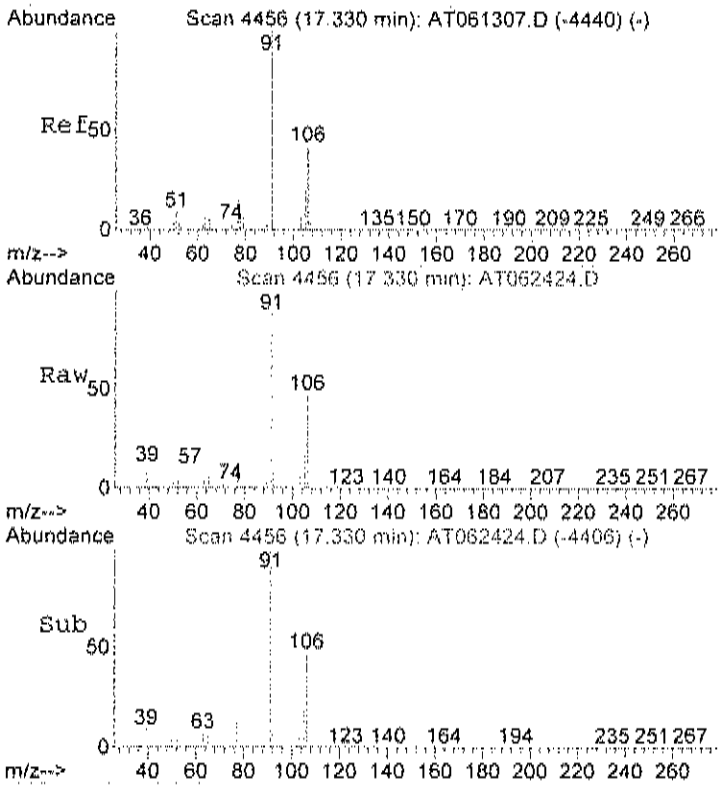


#58
Ethylbenzene
Concen: 1.20 ppb
RT: 17.15 min Scan# 4395
Delta R.T. 0.00 min
Lab File: AT062424.D
Acq: 25 Jun 2022 3:58 am

Tgt Ion: 91 Resp: 256974

Ion	Ratio	Lower	Upper
91	100		
106	32.1	11.5	51.5

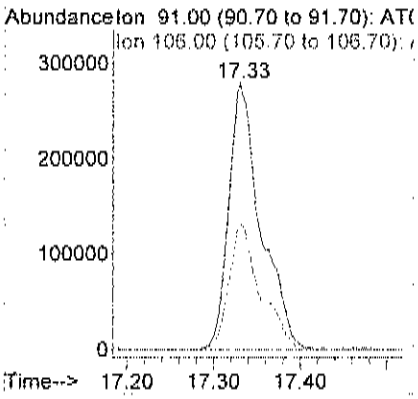


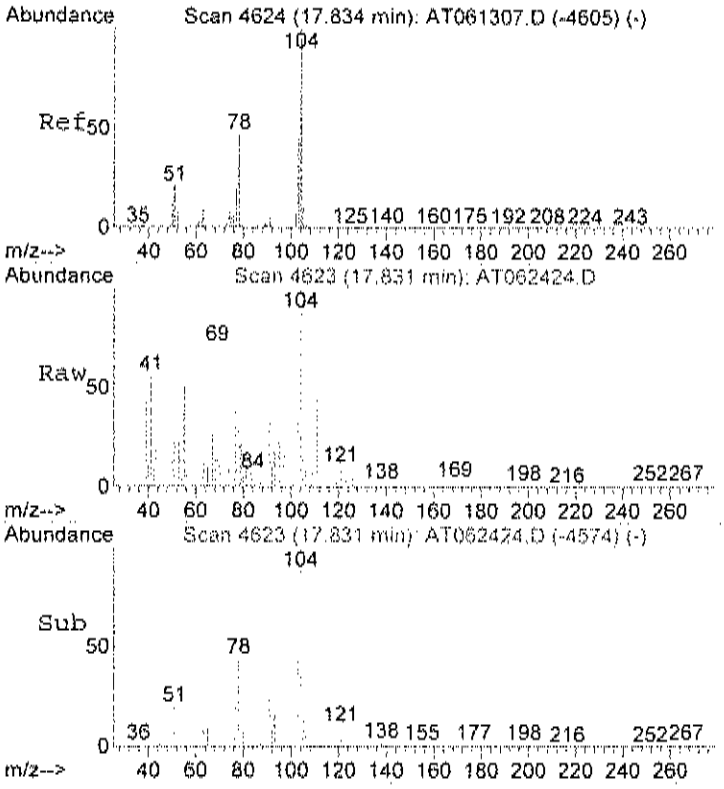


#59
m&p-xylene
Concen: 4.09 ppb
RT: 17.33 min Scan# 4456
Delta R.T. 0.00 min
Lab File: AT062424.D
Acq: 25 Jun 2022 3:58 am

Tgt Ion: 91 Resp: 715009

Ion	Ratio	Lower	Upper
91	100		
106	46.5	27.9	67.9

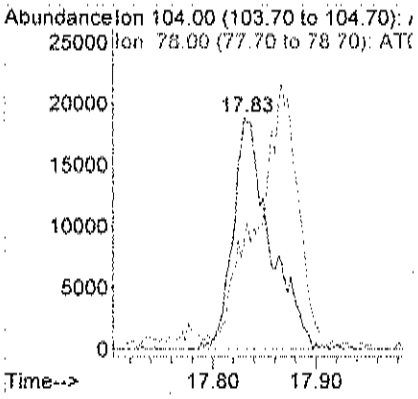


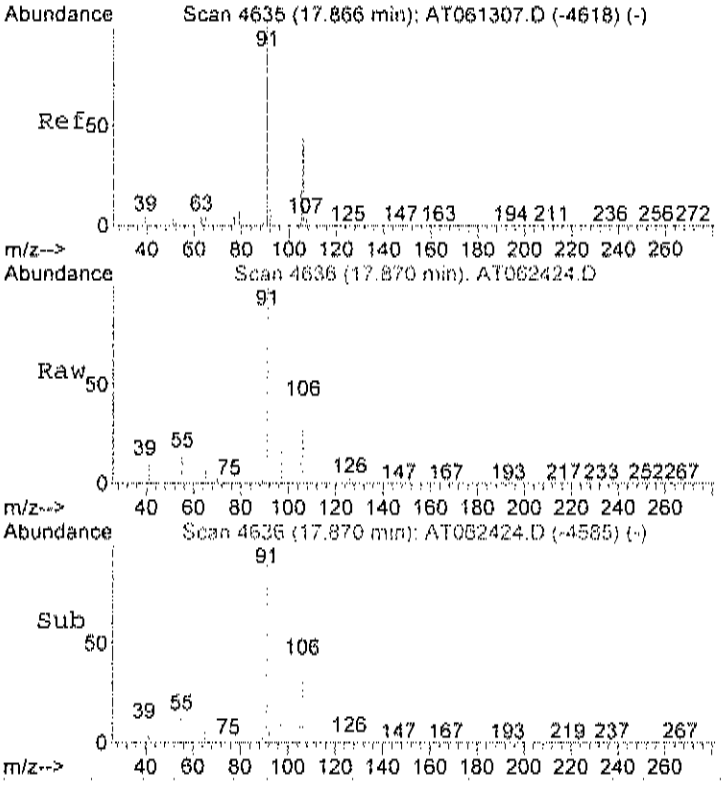


#61
Styrene
Concen: 0.36 ppb
RT: 17.83 min Scan# 4623
Delta R.T. -0.00 min
Lab File: AT062424.D
Acq: 25 Jun 2022 3:58 am

Tgt Ion:104 Resp: 46935

Ion	Ratio	Lower	Upper
104	100		
78	128.2	37.9	77.9#

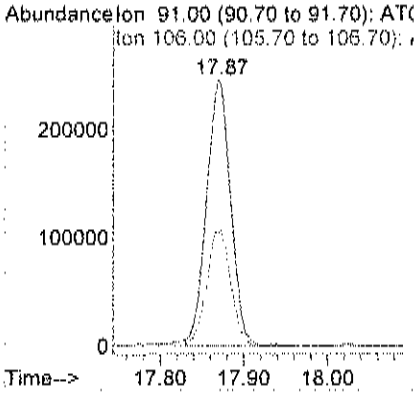


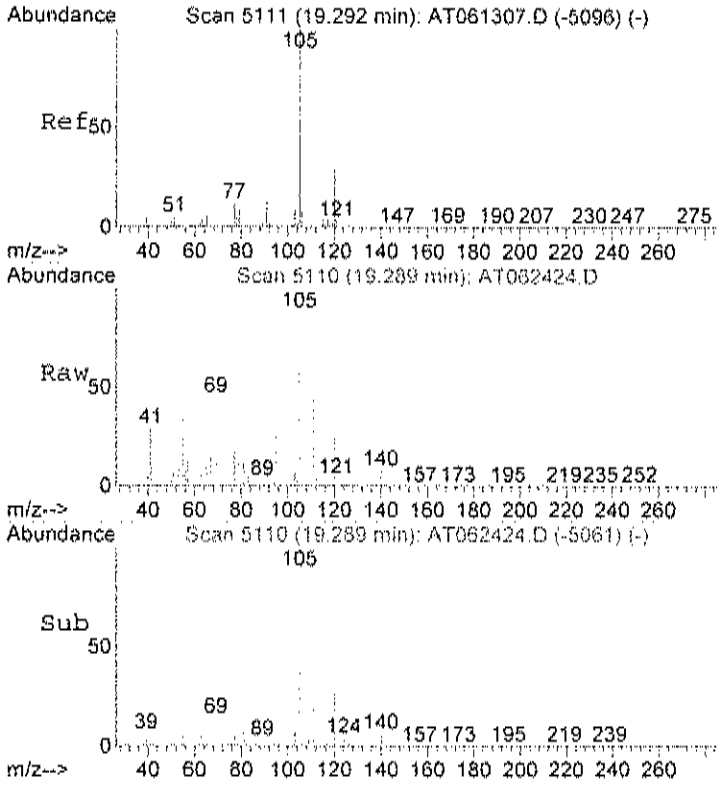


#63
o-xylene
Concen: 2.66 ppb
RT: 17.87 min Scan# 4636
Delta R.T. 0.00 min
Lab File: AT062424.D
Acq: 25 Jun 2022 3:58 am

Tgt Ion: 91 Resp: 494044

Ion	Ratio	Lower	Upper
91	100		
106	44.0	25.1	65.1

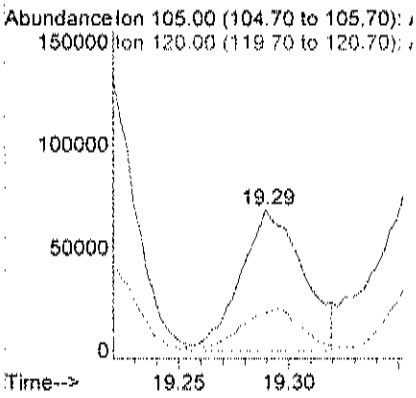


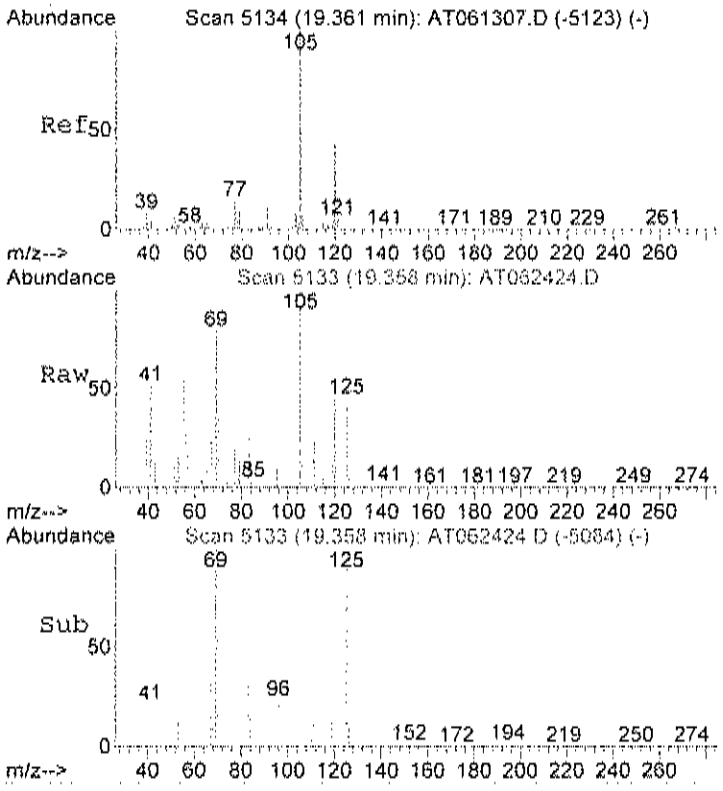


#69
4-ethyltoluene
Concen: 0.56 ppb m
RT: 19.29 min Scan# 5110
Delta R.T. -0.00 min
Lab File: AT062424.D
Acq: 25 Jun 2022 3:58 am

Tgt Ion:105 Resp: 135706

Ion	Ratio	Lower	Upper
105	100		
120	59.0	10.6	50.6#

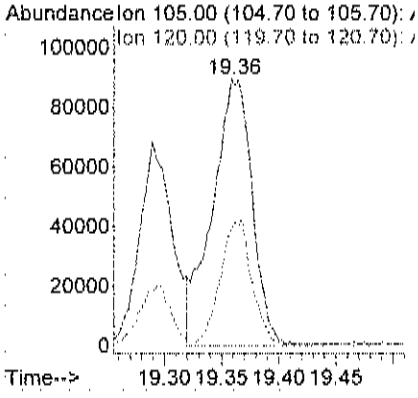


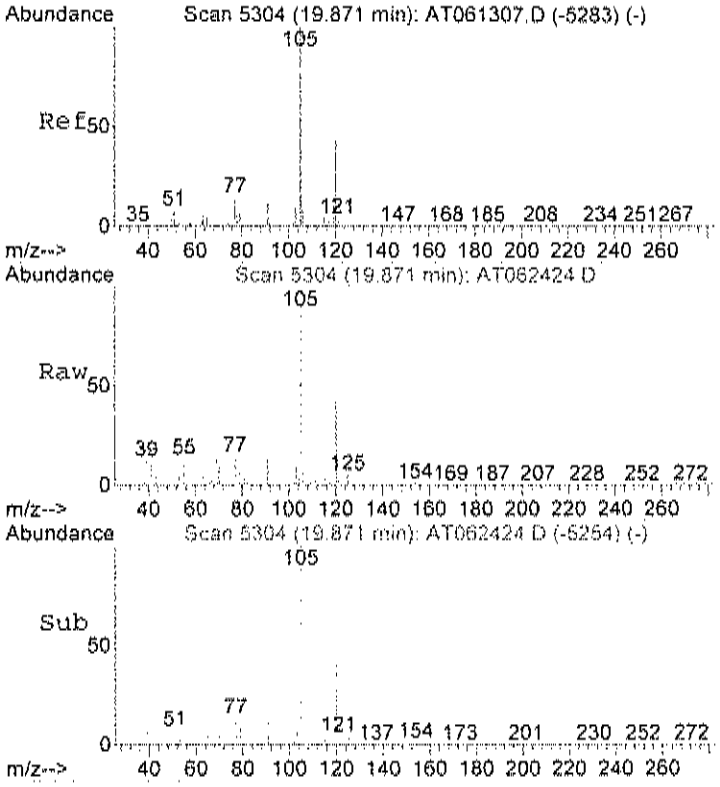


#70
1,3,5-trimethylbenzene
Concen: 1.00 ppb m
RT: 19.36 min Scan# 5133
Delta R.T. -0.00 min
Lab File: AT062424.D
Acq: 25 Jun 2022 3:58 am

Tgt Ion:105 Resp: 216702

Ion	Ratio	Lower	Upper
105	100		
120	37.1	26.2	66.2

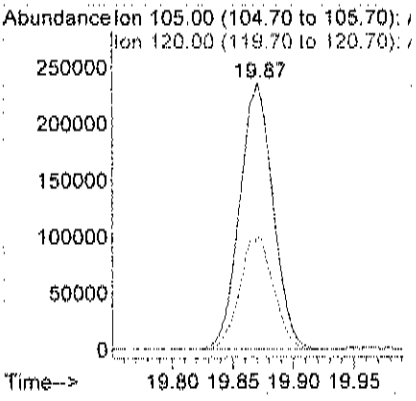


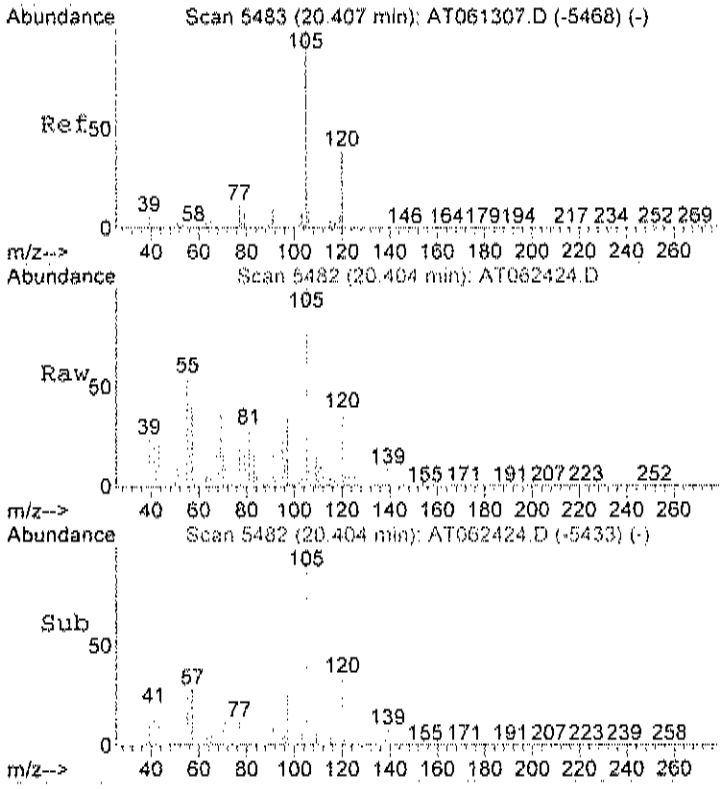


#71
1,2,4-trimethylbenzene
Concen: 2.16 ppb
RT: 19.87 min Scan# 5304
Delta R.T. 0.00 min
Lab File: AT062424.D
Acq: 25 Jun 2022 3:58 am

Tgt Ion:105 Resp: 453448

Ion	Ratio	Lower	Upper
105	100		
120	43.2	23.8	63.8

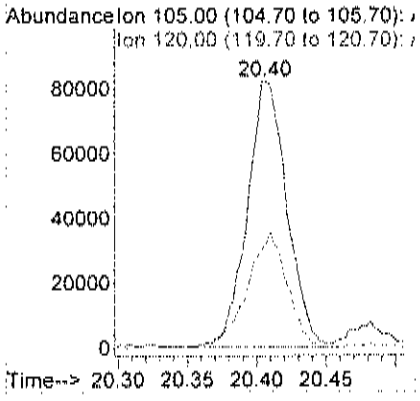




#75
1,2,3-trimethylbenzene
Concen: 0.76 ppb
RT: 20.40 min Scan# 5482
Delta R.T. -0.00 min
Lab File: AT062424.D
Acq: 25 Jun 2022 3:58 am

Tgt Ion:105 Resp: 164053

Ion	Ratio	Lower	Upper
105	100		
120	44.1	30.7	51.1



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062911.D Vial: 11
Acq On : 29 Jun 2022 5:14 pm Operator: RJP
Sample : C2206048-014A 10X Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 07:33:17 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

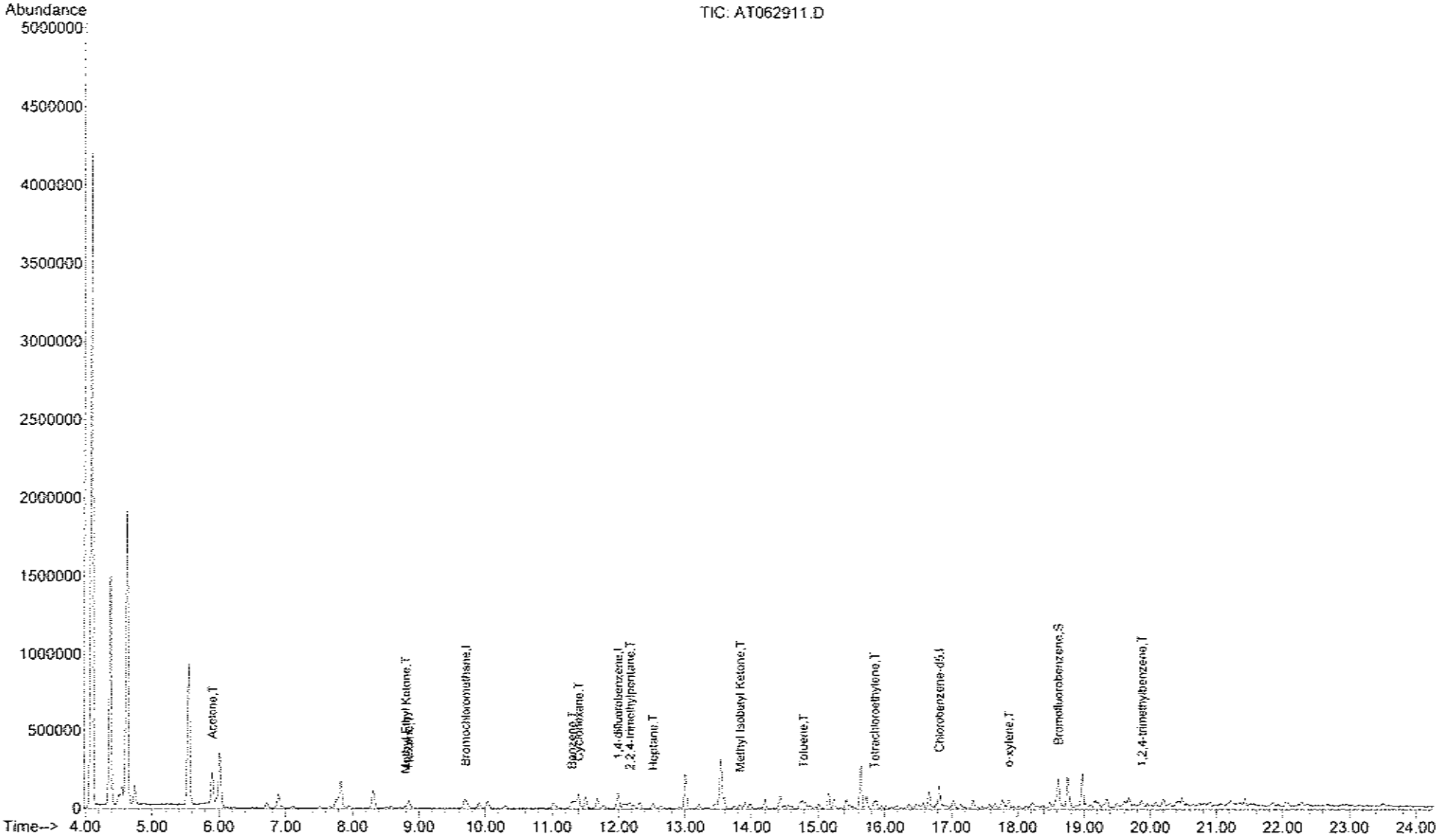
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.69	128	23112	1.00	ppb		0.00
35) 1,4-difluorobenzene	12.00	114	102739	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	90731	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	61638	0.94	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94.00%				
Target Compounds							Qvalue
15) Acetone	5.90	58	114873	8.55	ppb		92
28) Methyl Ethyl Ketone	8.80	72	5686	0.50	ppb	#	100
30) Hexane	8.85	57	29592	0.86	ppb		86
37) Cyclohexane	11.39	56	49509	1.59	ppb	#	60
39) Benzene	11.29	78	46931	0.64	ppb		85
42) 2,2,4-trimethylpentane	12.17	57	34634	0.36	ppb	#	6
43) Heptane	12.51	43	12383	0.36	ppb		94
51) Toluene	14.77	92	16470	0.31	ppb		88
52) Methyl Isobutyl Ketone	13.83	43	12969	0.27	ppb		92
56) Tetrachloroethylene	15.84	164	10569	0.25	ppb		95
63) o-xylene	17.87	91	29677	0.27	ppb		94
71) 1,2,4-trimethylbenzene	19.87	105	25733	0.21	ppb		98

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

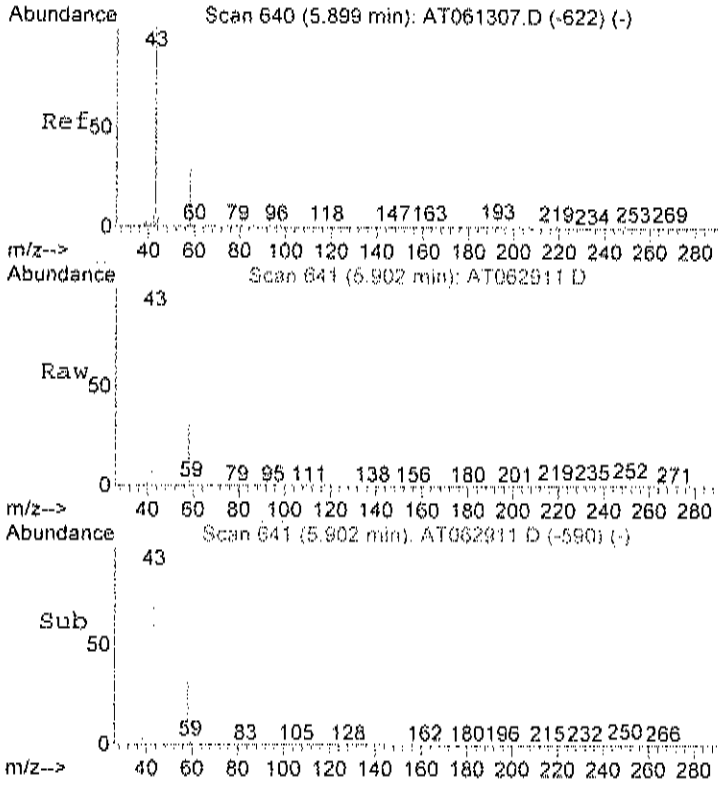
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062911.D Vial: 11
Acq On : 29 Jun 2022 5:14 pm Operator: RJP
Sample : C2206048-014A 10X Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 8:11 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



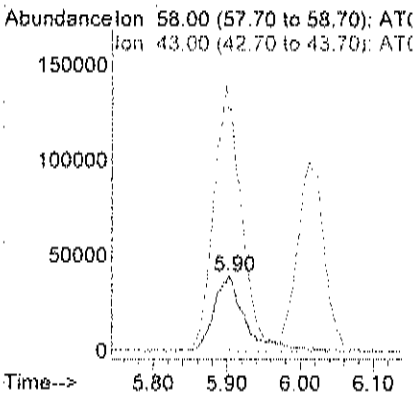
Centek/SanAir Laboratories

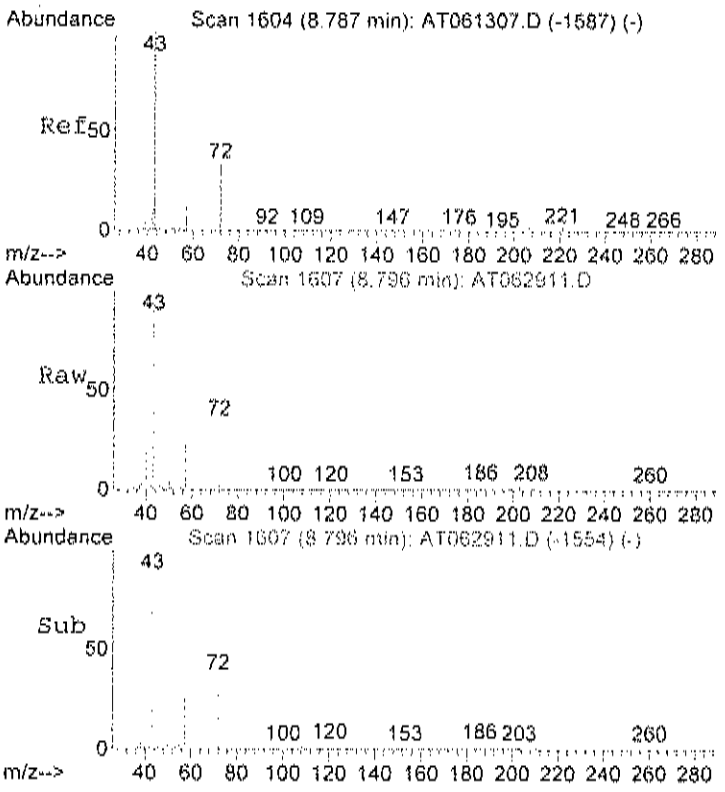


#15
Acetone
Concen: 8.55 ppb
RT: 5.90 min Scan# 641
Delta R.T. 0.00 min
Lab File: AT062911.D
Acq: 29 Jun 2022 5:14 pm

Tgt Ion: 58 Resp: 114873

Ion	Ratio	Lower	Upper
58	100		
43	314.5	268.9	328.9

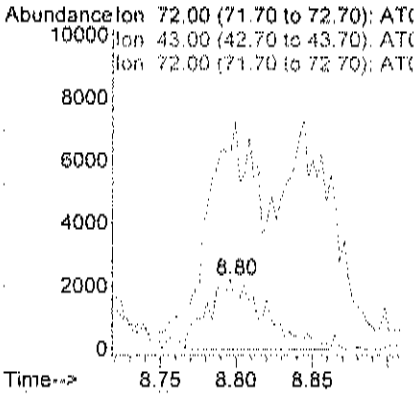


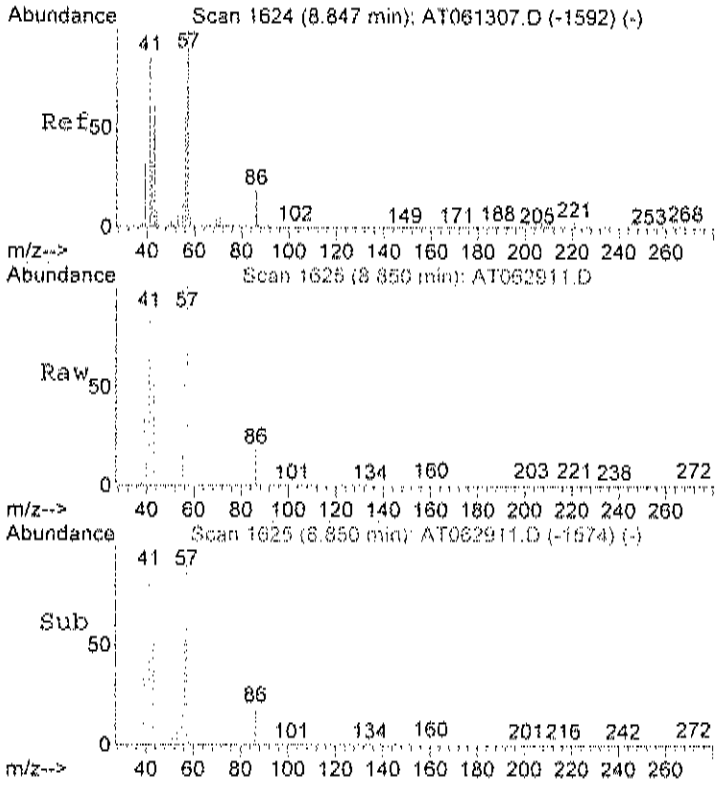


#28
Methyl Ethyl Ketone
Concen: 0.50 ppb
RT: 8.80 min Scan# 1607
Delta R.T. 0.01 min
Lab File: AT062911.D
Acq: 29 Jun 2022 5:14 pm

Tgt Ion: 72 Resp: 5686

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

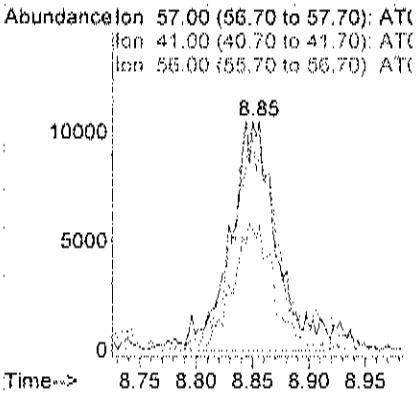


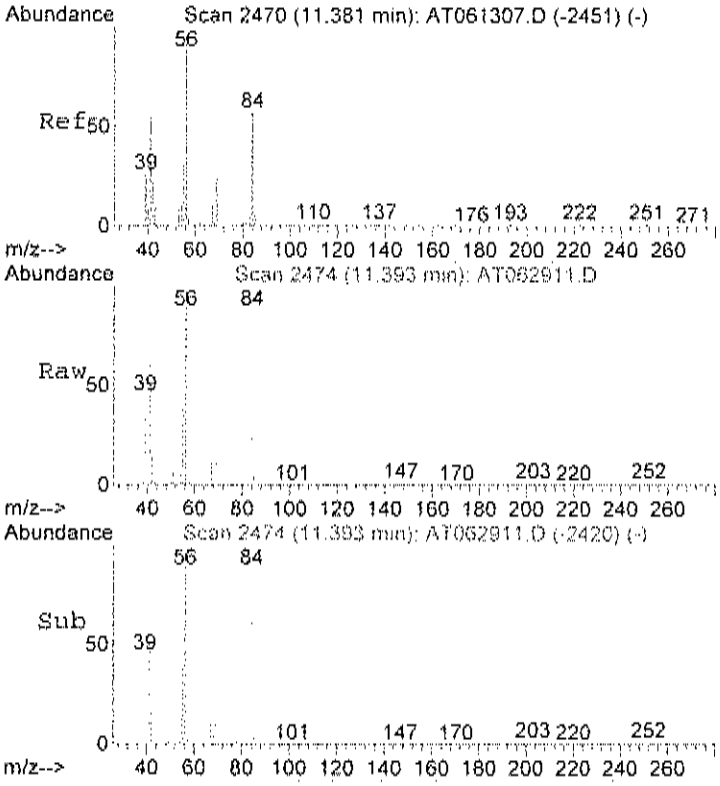


#30
Hexane
Concen: 0.86 ppb
RT: 8.85 min Scan# 1625
Delta R.T. 0.00 min
Lab File: AT062911.D
Acq: 29 Jun 2022 5:14 pm

Tgt Ion: 57 Resp: 29592

Ion	Ratio	Lower	Upper
57	100		
41	97.6	58.1	98.1
56	49.8	28.7	68.7

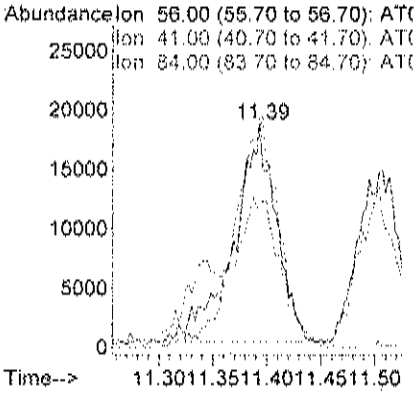


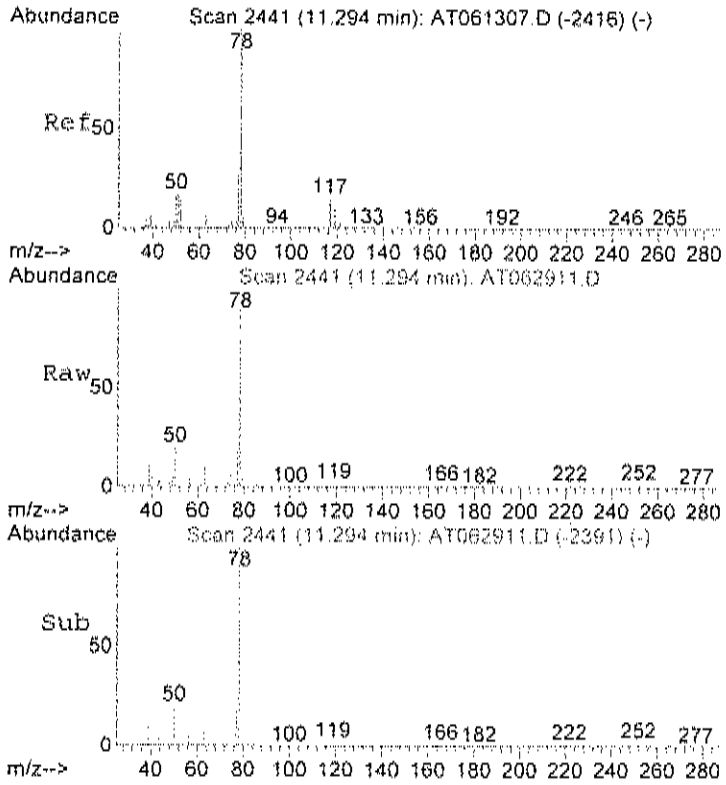


#37
Cyclohexane
Concen: 1.59 ppb
RT: 11.39 min Scan# 2474
Delta R.T. 0.01 min
Lab File: AT062911.D
Acq: 29 Jun 2022 5:14 pm

Tgt Ion: 56 Resp: 49509

Ion	Ratio	Lower	Upper
56	100		
41	98.7	40.3	80.3#
84	107.2	133.0	173.0#

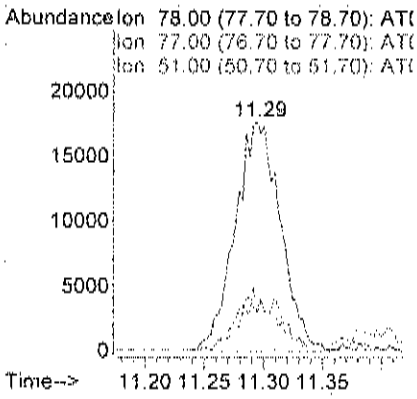


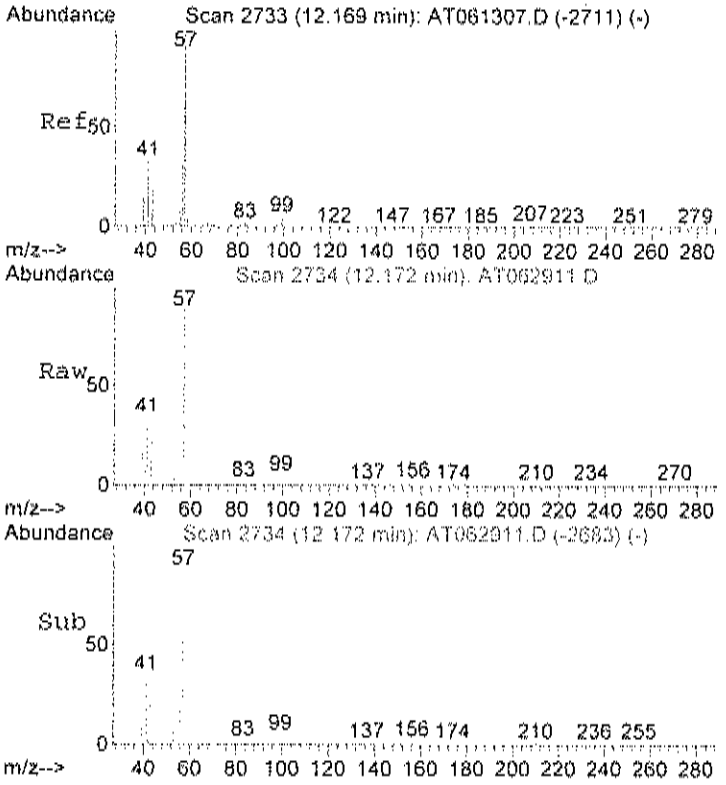


#39
Benzene
Concen: 0.64 ppb
RT: 11.29 min Scan# 2441
Delta R.T. 0.00 min
Lab File: AT062911.D
Acq: 29 Jun 2022 5:14 pm

Tgt Ion: 78 Resp: 46931

Ion	Ratio	Lower	Upper
78	100		
77	23.9	3.1	43.1
51	32.4	0.0	37.8

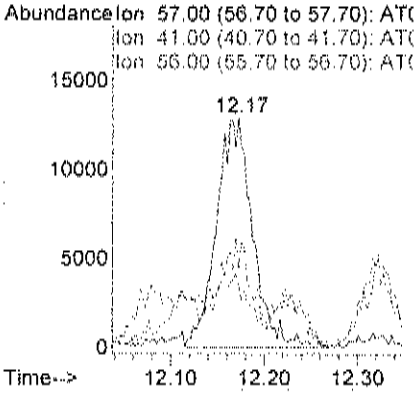


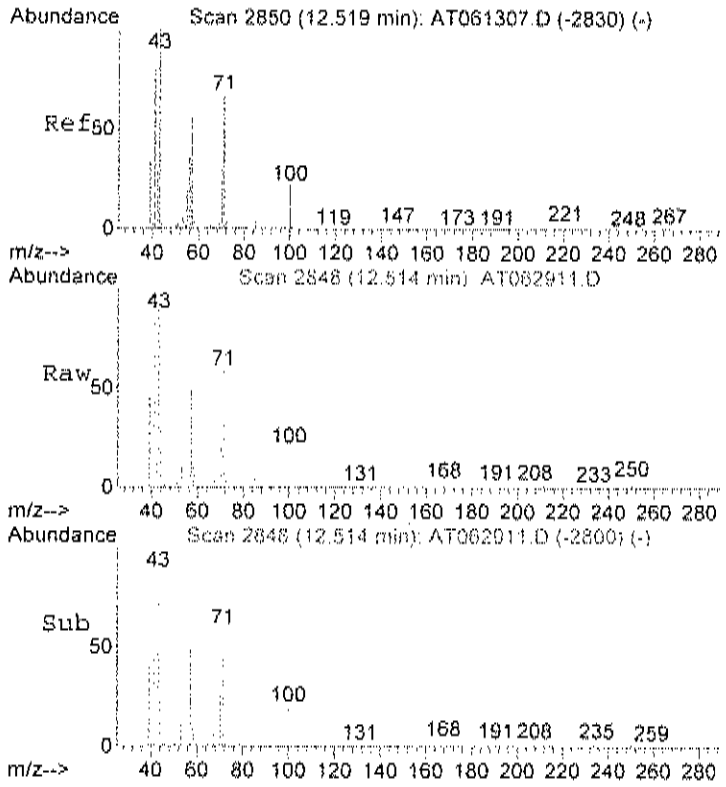


#42
2,2,4-trimethylpentane
Concen: 0.36 ppb
RT: 12.17 min Scan# 2734
Delta R.T. 0.00 min
Lab File: AT062911.D
Acq: 29 Jun 2022 5:14 pm

Tgt Ion: 57 Resp: 34634

Ion	Ratio	Lower	Upper
57	100		
41	97.4	15.3	55.3#
56	73.2	10.1	50.1#

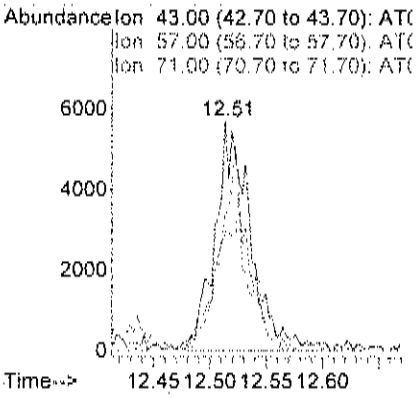


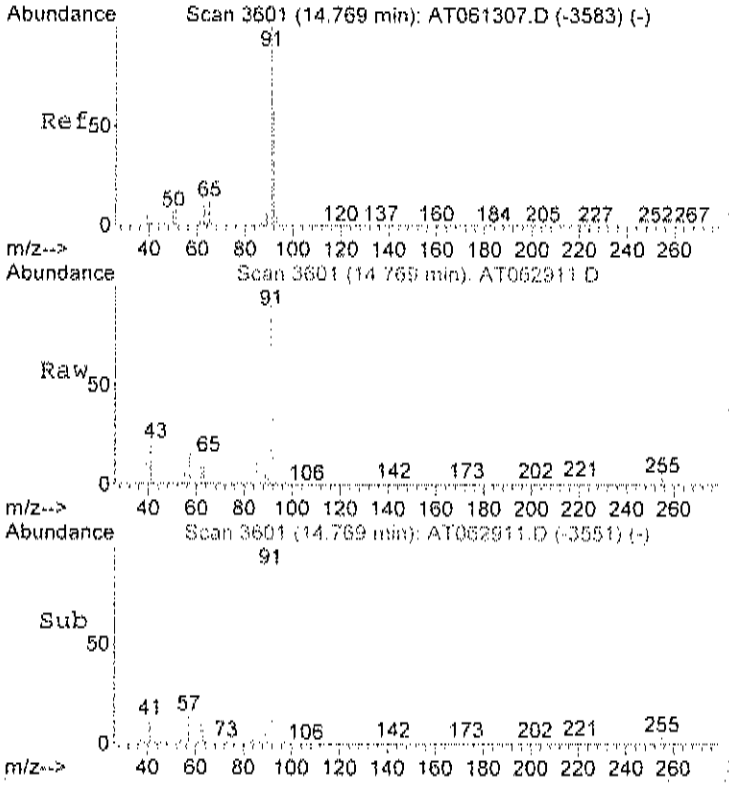


#43
Heptane
Concen: 0.36 ppb
RT: 12.51 min Scan# 2848
Delta R.T. -0.01 min
Lab File: AT062911.D
Acq: 29 Jun 2022 5:14 pm

Tgt Ion: 43 Resp: 12383

Ion	Ratio	Lower	Upper
43	100		
57	57.7	41.7	81.7
71	67.7	53.4	93.4

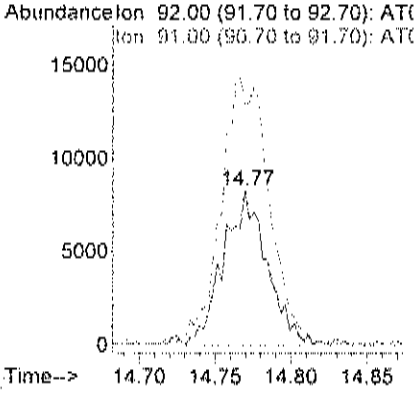


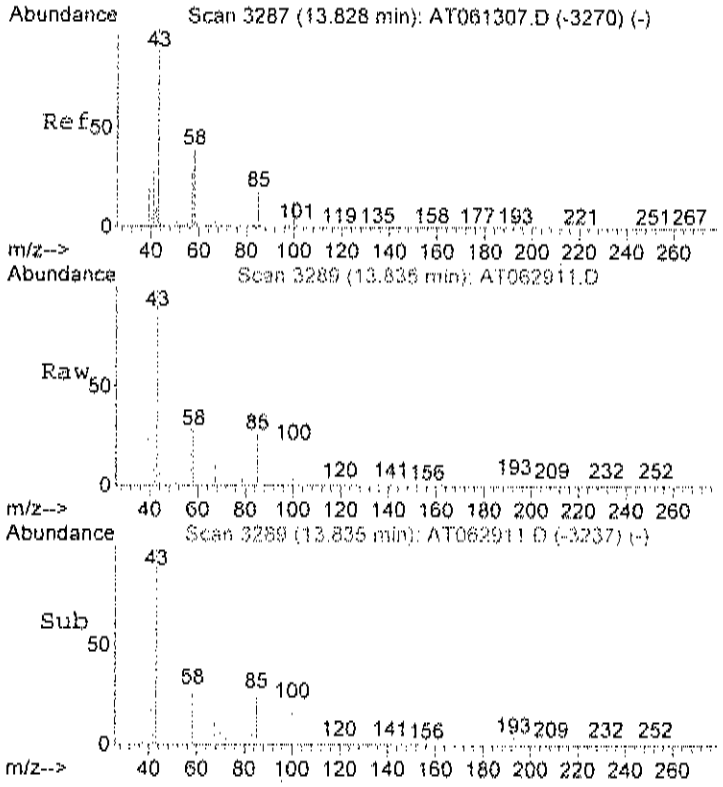


#51
Toluene
Concen: 0.31 ppb
RT: 14.77 min Scan# 3601
Delta R.T. 0.00 min
Lab File: AT062911.D
Acq: 29 Jun 2022 5:14 pm

Tgt Ion: 92 Resp: 16470

Ion	Ratio	Lower	Upper
92	100		
91	191.6	154.4	194.4

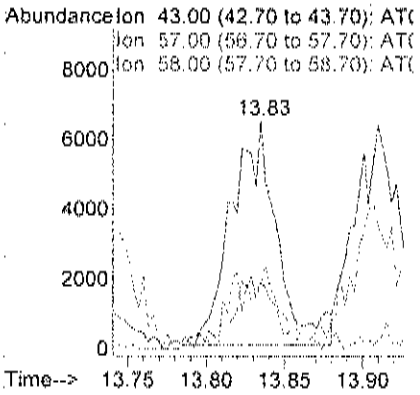


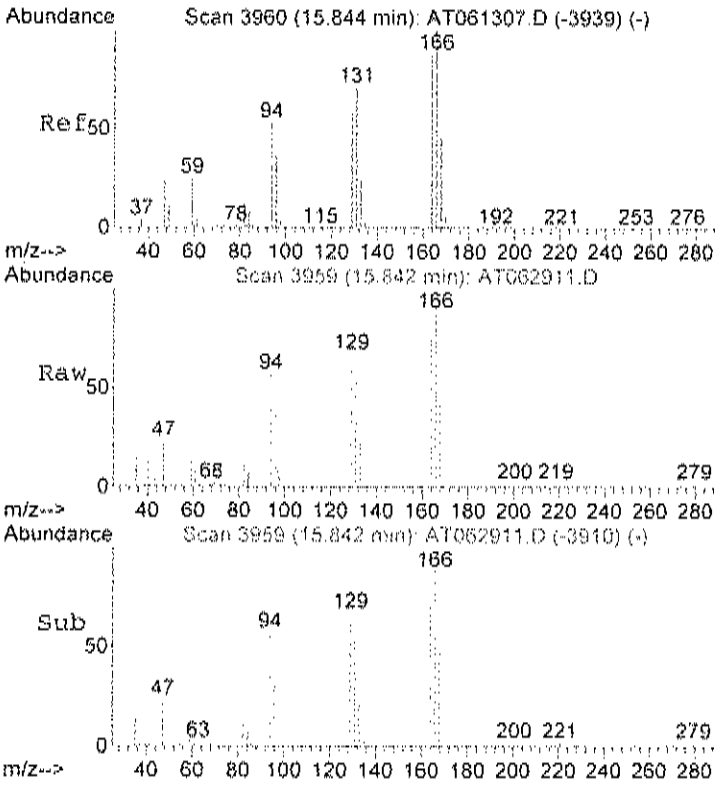


#52
Methyl Isobutyl Ketone
Concen: 0.27 ppb
RT: 13.83 min Scan# 3289
Delta R.T. 0.01 min
Lab File: AT062911.D
Acq: 29 Jun 2022 5:14 pm

Tgt Ion: 43 Resp: 12969

Ion	Ratio	Lower	Upper
43	100		
57	30.9	9.3	49.3
58	34.9	22.0	62.0

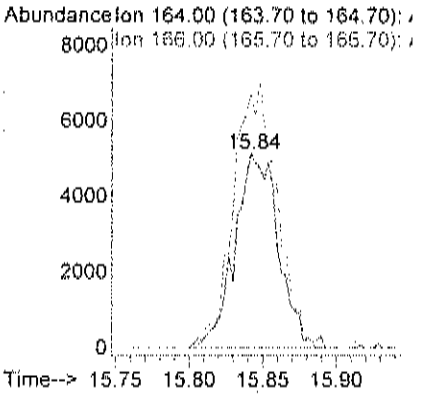


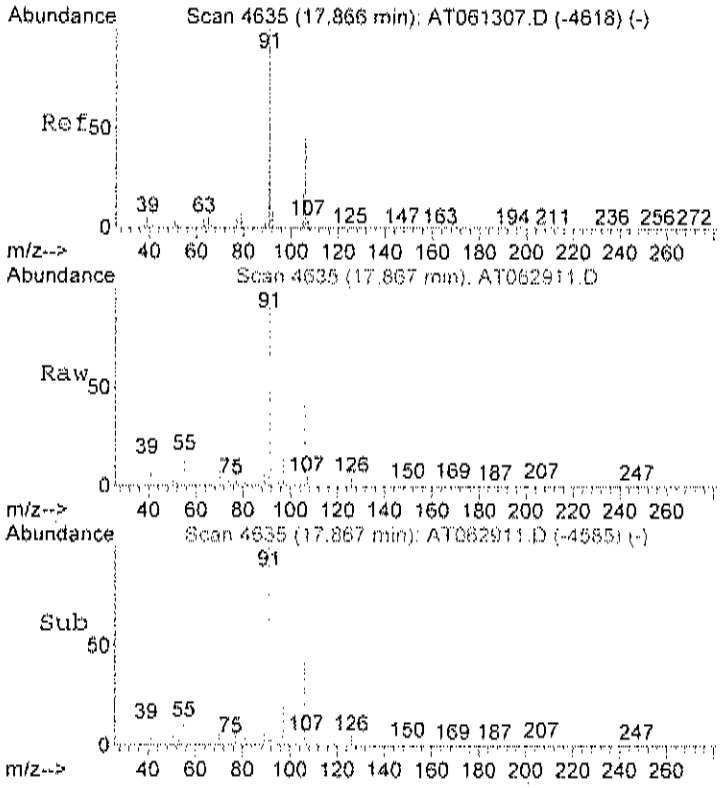


#56
Tetrachloroethylene
Concen: 0.25 ppb
RT: 15.84 min Scan# 3959
Delta R.T. -0.00 min
Lab File: AT062911.D
Acq: 29 Jun 2022 5:14 pm

Tgt Ion:164 Resp: 10569

Ion	Ratio	Lower	Upper
164	100		
166	133.5	107.7	147.7

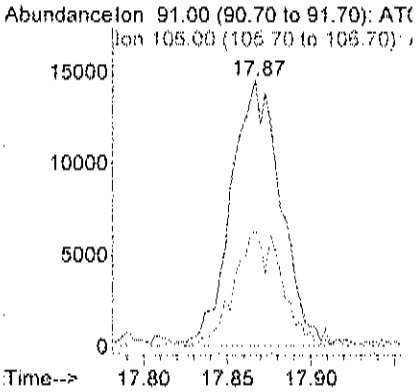


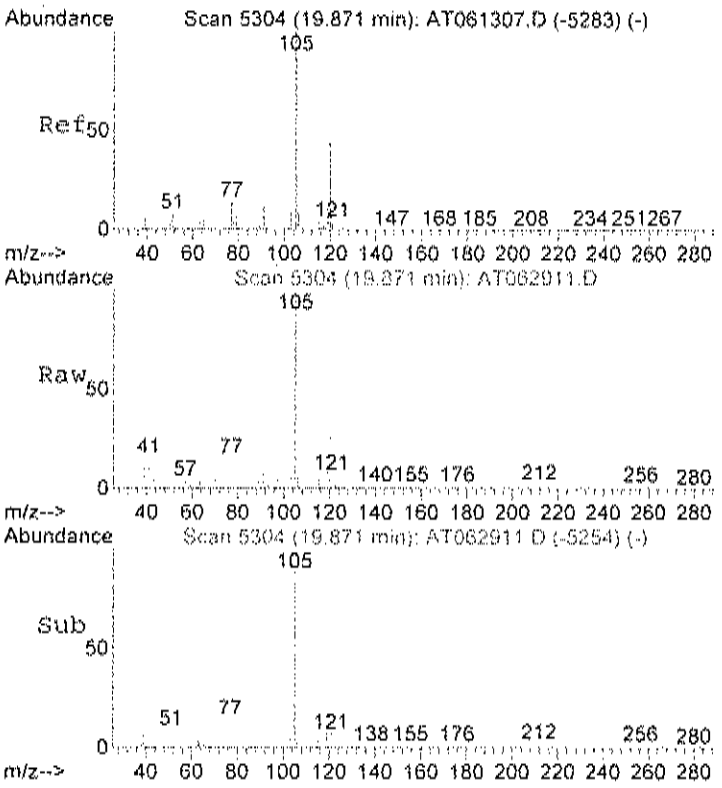


#63
o-xylene
Concen: 0.27 ppb
RT: 17.87 min Scan# 4635
Delta R.T. 0.00 min
Lab File: AT062911.D
Acq: 29 Jun 2022 5:14 pm

Tgt Ion: 91 Resp: 29677

Ion	Ratio	Lower	Upper
91	100		
106	41.4	25.1	65.1

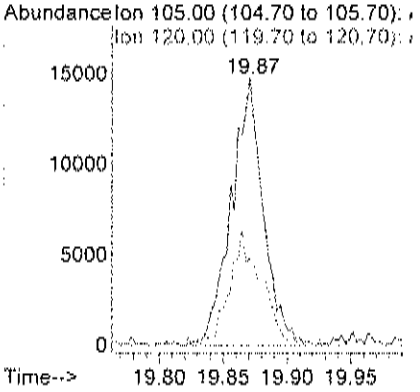




#71
1,2,4-trimethylbenzene
Concen: 0.21 ppb
RT: 19.87 min Scan# 5304
Delta R.T. 0.00 min
Lab File: AT062911.D
Acq: 29 Jun 2022 5:14 pm

Tgt Ion:105 Resp: 25733

Ion	Ratio	Lower	Upper
105	100		
120	42.5	23.8	63.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062912.D Vial: 12
Acq On : 29 Jun 2022 5:56 pm Operator: RJP
Sample : C2206048-014A 40X Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 07:33:18 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

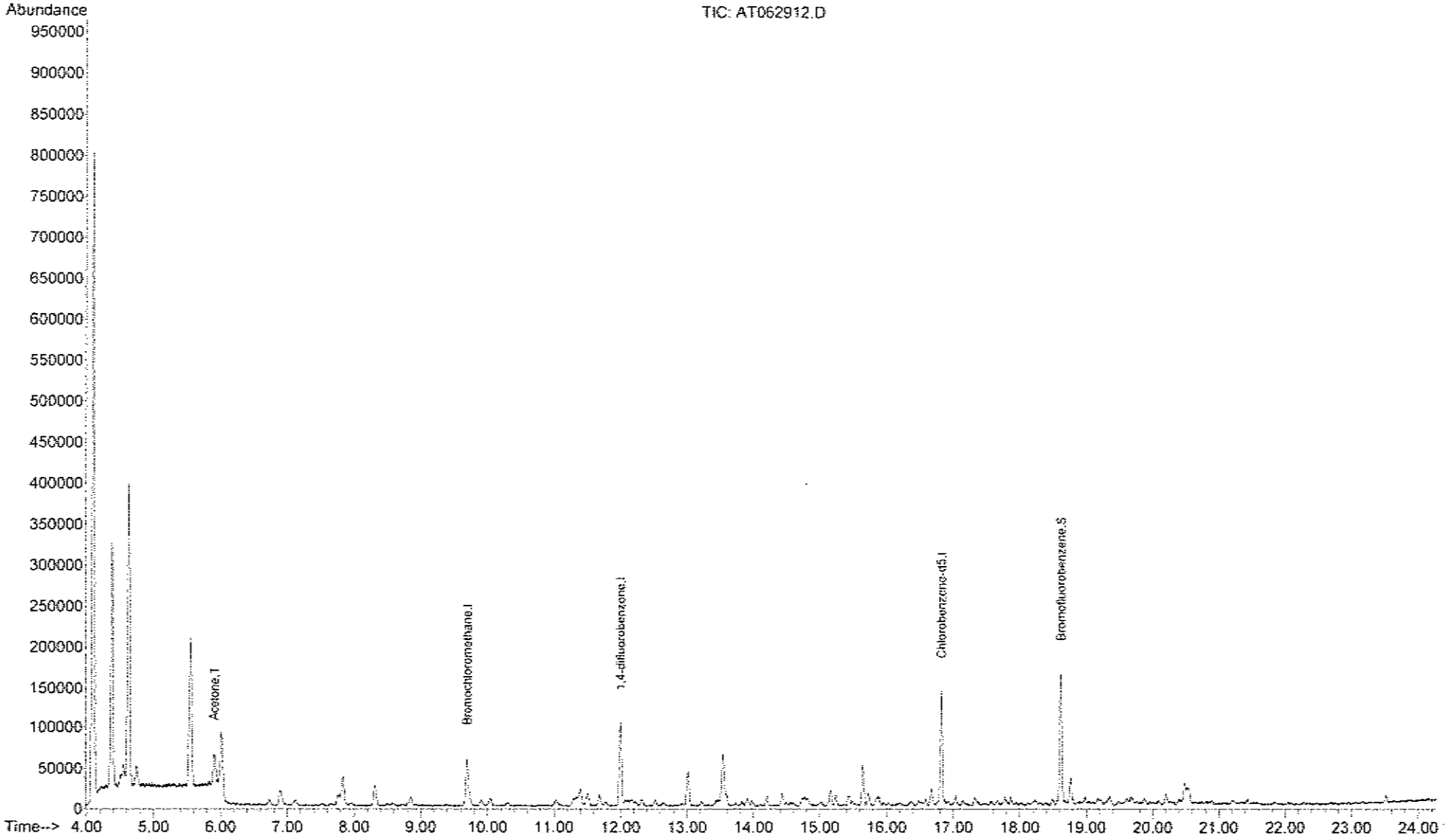
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.69	128	23566	1.00	ppb	0.00
35) 1,4-difluorobenzene	11.99	114	104052	1.00	ppb	0.00
50) Chlorobenzene-d5	16.82	117	89459	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.61	95	56115	0.87	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 87.00%			
Target Compounds						Qvalue
15) Acetone	5.91	58	21356m	1.56	ppb	

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

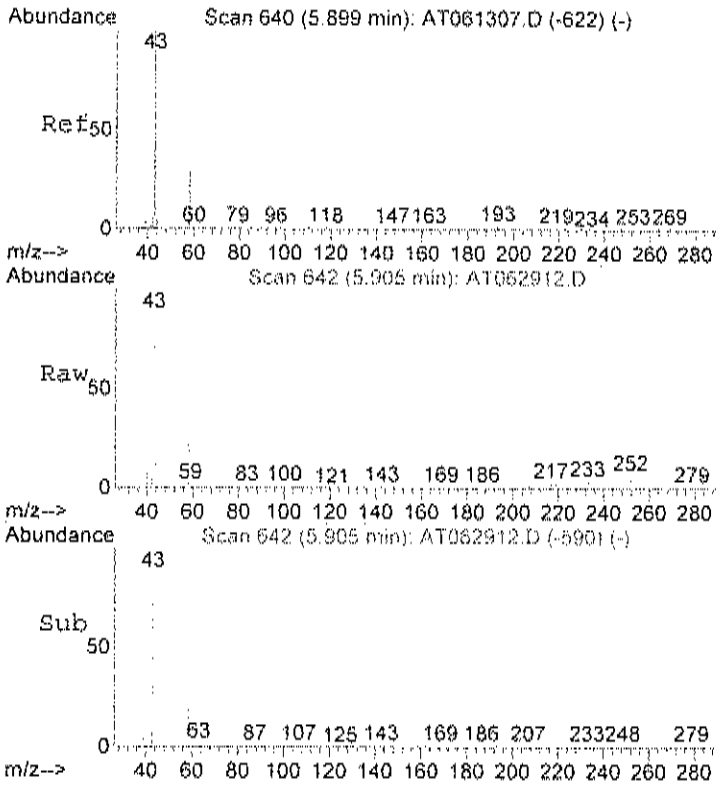
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062912.D Vial: 12
Acq On : 29 Jun 2022 5:56 pm Operator: RJP
Sample : C2206048-014A 40X Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 8:12 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



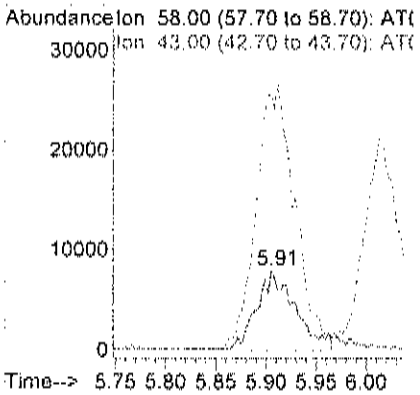
Centek/SanAir Laboratories



#15
Acetone
Concen: 1.56 ppb m
RT: 5.91 min Scan# 642
Delta R.T. 0.01 min
Lab File: AT062912.D
Acq: 29 Jun 2022 5:56 pm

Tgt Ion: 58 Resp: 21356

Ion	Ratio	Lower	Upper
58	100		
43	340.5	268.9	328.9#



Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-14
Lab Order:	C2206048	**Tag Number:**	327,113
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-015A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-6			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: NP
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,2,4-Trimethylbenzene	7.4	1.5		ppbV	10	6/28/2022 12:53:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,3,5-Trimethylbenzene	3.0	1.5		ppbV	10	6/28/2022 12:53:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/25/2022 4:42:00 AM
2,2,4-trimethylpentane	8.8	1.5		ppbV	10	6/28/2022 12:53:00 PM
4-ethyltoluene	1.6	0.15		ppbV	1	6/25/2022 4:42:00 AM
Acetone	280	240		ppbV	810	6/29/2022 6:39:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Benzene	7.5	1.5		ppbV	10	6/28/2022 12:53:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Bromoform	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Carbon disulfide	37	6.0		ppbV	40	6/28/2022 1:35:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Chloroethane	0.96	0.15		ppbV	1	6/25/2022 4:42:00 AM
Chloroform	0.17	0.15		ppbV	1	6/25/2022 4:42:00 AM
Chloromethane	13	1.5		ppbV	10	6/28/2022 12:53:00 PM
cis-1,2-Dichloroethene	1.8	0.15		ppbV	1	6/25/2022 4:42:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Cyclohexane	22	6.0		ppbV	40	6/28/2022 1:35:00 PM

Qualifiers:

- `*` Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-015A

Client Sample ID: SVW-14
Tag Number: 327,113
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Ethyl acetate	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Ethylbenzene	1.9	0.15		ppbV	1	6/25/2022 4:42:00 AM
Freon 11	0.16	0.15		ppbV	1	6/25/2022 4:42:00 AM
Freon 113	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Freon 114	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Freon 12	0.50	0.15		ppbV	1	6/25/2022 4:42:00 AM
Heptane	18	1.5		ppbV	10	6/28/2022 12:53:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Hexane	37	6.0		ppbV	40	6/28/2022 1:35:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
m&p-Xylene	6.5	3.0		ppbV	10	6/28/2022 12:53:00 PM
Methyl Butyl Ketone	4.8	3.0		ppbV	10	6/28/2022 12:53:00 PM
Methyl Ethyl Ketone	32	12		ppbV	40	6/28/2022 1:35:00 PM
Methyl Isobutyl Ketone	190	240	J	ppbV	810	6/29/2022 6:39:00 PM
Methyl tert-butyl ether	20	6.0		ppbV	40	6/28/2022 1:35:00 PM
Methylene chloride	3.1	1.5		ppbV	10	6/28/2022 12:53:00 PM
o-Xylene	4.4	1.5		ppbV	10	6/28/2022 12:53:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Styrene	1.3	0.15		ppbV	1	6/25/2022 4:42:00 AM
Tetrachloroethylene	3.5	1.5		ppbV	10	6/28/2022 12:53:00 PM
Tetrahydrofuran	13	1.5		ppbV	10	6/28/2022 12:53:00 PM
Toluene	7.2	1.5		ppbV	10	6/28/2022 12:53:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Trichloroethene	1.8	0.15		ppbV	1	6/25/2022 4:42:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/25/2022 4:42:00 AM
Vinyl chloride	13	1.5		ppbV	10	6/28/2022 12:53:00 PM
Surr: Bromofluorobenzene	108	46.7-129		%REC	1	6/25/2022 4:42:00 AM

Qualifiers:

.	Results reported are not blank corrected
DL	Detection Limit
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
E	Estimated Value above quantitation range
J	Analyte detected below quantitation limit
ND	Not Detected at the Limit of Detection
SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-14
Lab Order:	C2206048	**Tag Number:**	327,113
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-015A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 4:42:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/25/2022 4:42:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 4:42:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 4:42:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 4:42:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/25/2022 4:42:00 AM
1,2,4-Trimethylbenzene	36	7.4		ug/m3	10	6/28/2022 12:53:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/25/2022 4:42:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 4:42:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 4:42:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/25/2022 4:42:00 AM
1,3,5-Trimethylbenzene	15	7.4		ug/m3	10	6/28/2022 12:53:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/25/2022 4:42:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 4:42:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 4:42:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/25/2022 4:42:00 AM
2,2,4-trimethylpentane	41	7.0		ug/m3	10	6/28/2022 12:53:00 PM
4-ethyltoluene	8.0	0.74		ug/m3	1	6/25/2022 4:42:00 AM
Acetone	670	570		ug/m3	810	6/29/2022 6:39:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/25/2022 4:42:00 AM
Benzene	24	4.8		ug/m3	10	6/28/2022 12:53:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/25/2022 4:42:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/25/2022 4:42:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/25/2022 4:42:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/25/2022 4:42:00 AM
Carbon disulfide	110	19		ug/m3	40	6/28/2022 1:35:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/25/2022 4:42:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/25/2022 4:42:00 AM
Chloroethane	2.5	0.40		ug/m3	1	6/25/2022 4:42:00 AM
Chloroform	0.83	0.73		ug/m3	1	6/25/2022 4:42:00 AM
Chloromethane	27	3.1		ug/m3	10	6/28/2022 12:53:00 PM
cis-1,2-Dichloroethene	7.1	0.59		ug/m3	1	6/25/2022 4:42:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 4:42:00 AM
Cyclohexane	74	21		ug/m3	40	6/28/2022 1:35:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/25/2022 4:42:00 AM
Ethyl acetate	< 0.54	0.54		ug/m3	1	6/25/2022 4:42:00 AM
Ethylbenzene	8.2	0.65		ug/m3	1	6/25/2022 4:42:00 AM
Freon 11	0.90	0.84		ug/m3	1	6/25/2022 4:42:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/25/2022 4:42:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/25/2022 4:42:00 AM

Qualifiers:

- . Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-015A

Client Sample ID: SVW-14
Tag Number: 327,113
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.5	0.74		ug/m3	1	6/25/2022 4:42:00 AM
Heptane	72	6.1		ug/m3	10	6/28/2022 12:53:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/25/2022 4:42:00 AM
Hexane	130	21		ug/m3	40	6/28/2022 1:35:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/25/2022 4:42:00 AM
m&p-Xylene	28	13		ug/m3	10	6/28/2022 12:53:00 PM
Methyl Butyl Ketone	20	12		ug/m3	10	6/28/2022 12:53:00 PM
Methyl Ethyl Ketone	94	35		ug/m3	40	6/28/2022 1:35:00 PM
Methyl Isobutyl Ketone	760	980	J	ug/m3	810	6/29/2022 6:39:00 PM
Methyl tert-butyl ether	72	22		ug/m3	40	6/28/2022 1:35:00 PM
Methylene chloride	11	5.2		ug/m3	10	6/28/2022 12:53:00 PM
o-Xylene	19	6.5		ug/m3	10	6/28/2022 12:53:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/25/2022 4:42:00 AM
Styrene	5.5	0.64		ug/m3	1	6/25/2022 4:42:00 AM
Tetrachloroethylene	24	10		ug/m3	10	6/28/2022 12:53:00 PM
Tetrahydrofuran	37	4.4		ug/m3	10	6/28/2022 12:53:00 PM
Toluene	27	5.7		ug/m3	10	6/28/2022 12:53:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 4:42:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 4:42:00 AM
Trichloroethene	9.8	0.81		ug/m3	1	6/25/2022 4:42:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/25/2022 4:42:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/25/2022 4:42:00 AM
Vinyl chloride	33	3.8		ug/m3	10	6/28/2022 12:53:00 PM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062425.D Vial: 24
Acq On : 25 Jun 2022 4:42 am Operator: RJP
Sample : C2206048-015A Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 27 11:12:32 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

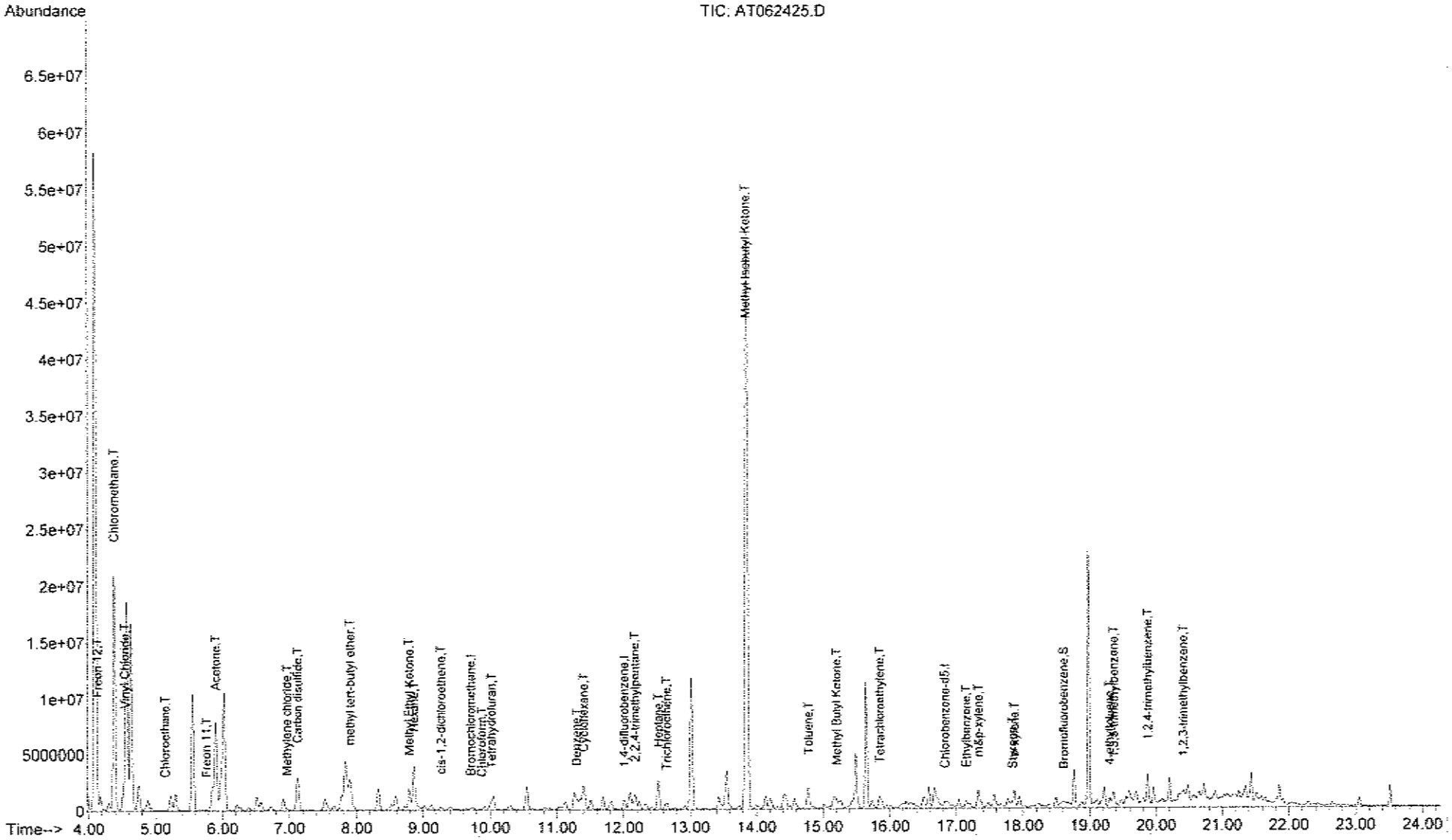
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.70	128	39637	1.00	ppb		0.01
35) 1,4-difluorobenzene	12.00	114	188219	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	171370	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.62	95	134451m	1.08	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 108.00%				
Target Compounds							Qvalue
3) Freon 12	4.14	85	92147	0.50	ppb		99
4) Chloromethane	4.38	50	400220	8.95	ppb		83
6) Vinyl Chloride	4.53	62	425029	9.88	ppb		98
10) Chloroethane	5.15	64	20295	0.96	ppb		93
14) Freon 11	5.76	101	35999	0.16	ppb		100
15) Acetone	5.90	58	4336242	188.11	ppb		98
21) Methylene chloride	6.97	84	106399	2.11	ppb		95
23) Carbon disulfide	7.12	76	6080820	40.58	ppb		100
25) methyl tert-butyl ether	7.91	73	2774557	24.66	ppb	#	59
28) Methyl Ethyl Ketone	8.79	72	1049170	53.53	ppb	#	100
29) cis-1,2-dichloroethene	9.26	61	116922	1.78	ppb		98
30) Hexane	8.86	57	2548213	43.34	ppb		89
32) Chloroform	9.87	83	21532	0.17	ppb	#	17
33) Tetrahydrofuran	10.01	42	540228	15.68	ppb	#	63
37) Cyclohexane	11.40	56	1369628m	24.05	ppb		
39) Benzene	11.31	78	890453	6.58	ppb		86
42) 2,2,4-trimethylpentane	12.17	57	1548536	8.70	ppb	#	33
43) Heptane	12.53	43	1052079	16.54	ppb		98
44) Trichloroethene	12.65	130	135440	1.83	ppb		98
51) Toluene	14.78	92	731348	7.22	ppb		98
52) Methyl Isobutyl Ketone	13.84	43	31120451	344.18	ppb	#	67
54) Methyl Butyl Ketone	15.20	43	641665	7.81	ppb	#	73
56) Tetrachloroethylene	15.85	164	258817	3.30	ppb		98
58) Ethylbenzene	17.15	91	442757	1.89	ppb		99
59) m&p-xylene	17.33	91	1247525	6.51	ppb		98
61) Styrene	17.83	104	183740	1.30	ppb	#	68
63) o-xylene	17.87	91	875842	4.29	ppb		99
69) 4-ethyltoluene	19.30	105	431831	1.63	ppb		95
70) 1,3,5-trimethylbenzene	19.36	105	731916	3.09	ppb		98
71) 1,2,4-trimethylbenzene	19.87	105	1769553	7.68	ppb		99
75) 1,2,3-trimethylbenzene	20.41	105	768510	3.25	ppb		93

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

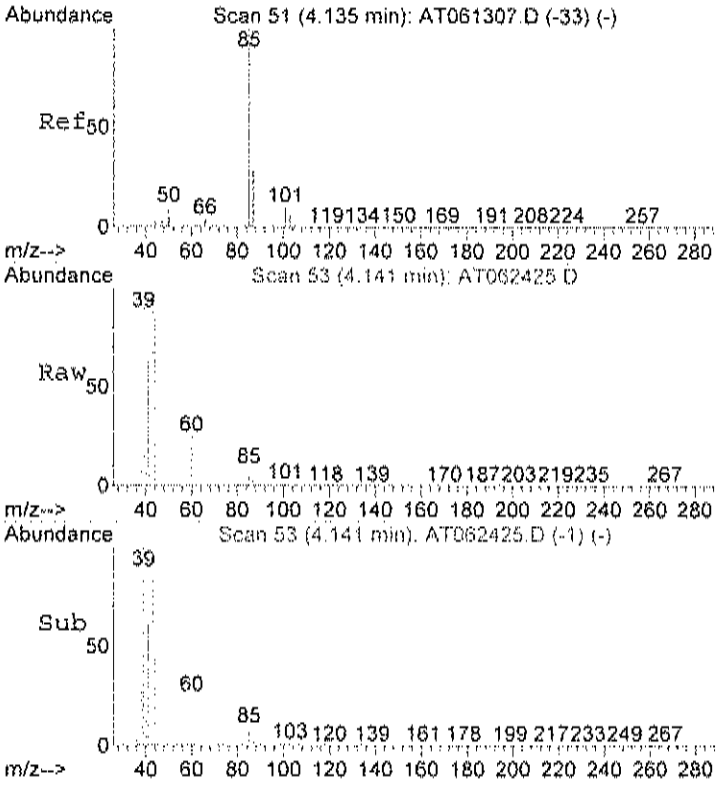
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062425.D Vial: 24
Acq On : 25 Jun 2022 4:42 am Operator: RJP
Sample : C2206048-015A Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 15:23 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



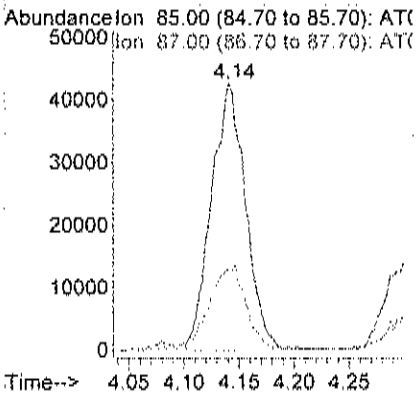
Centek/SanAir Laboratories

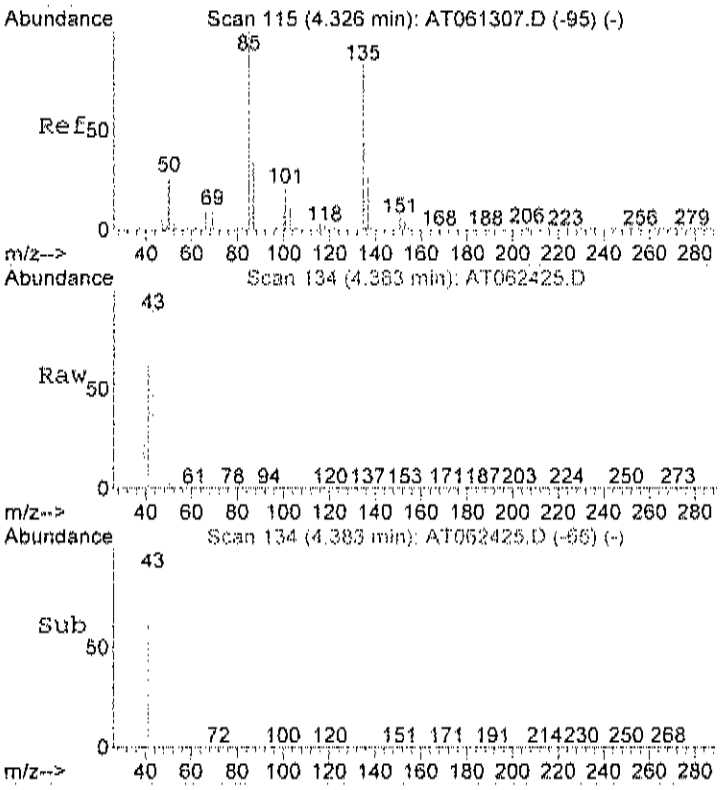


#3
Freon 12
Concen: 0.50 ppb
RT: 4.14 min Scan# 53
Delta R.T. 0.01 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion: 85 Resp: 92147

Ion	Ratio	Lower	Upper
85	100		
87	32.4	12.8	52.8

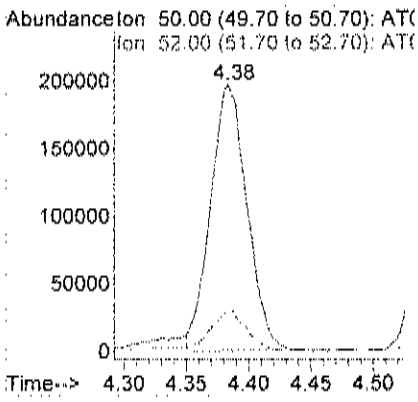


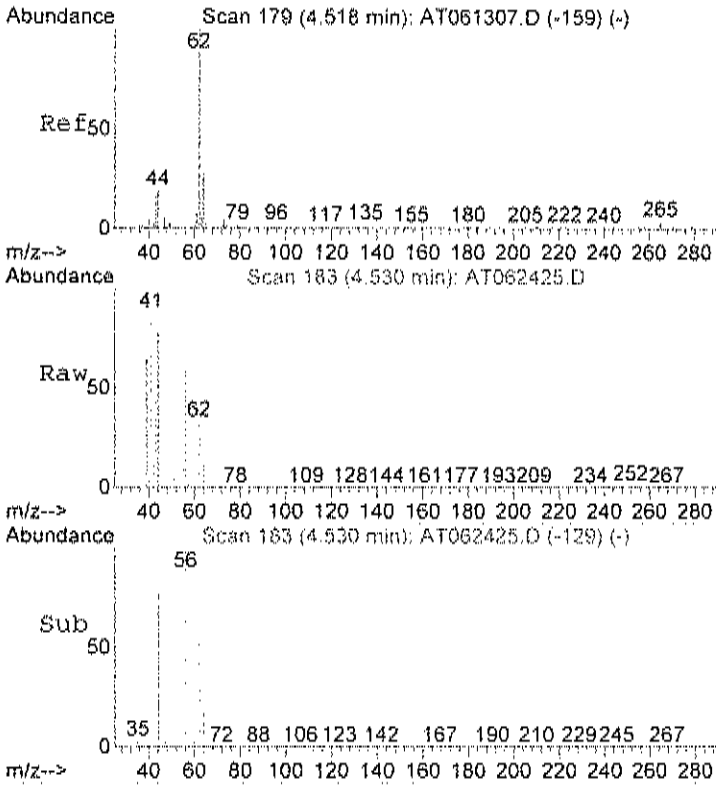


#4
Chloromethane
Concen: 8.95 ppb
RT: 4.38 min Scan# 134
Delta R.T. 0.06 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion: 50 Resp: 400220

Ion	Ratio	Lower	Upper
50	100		
52	14.3	2.7	42.7

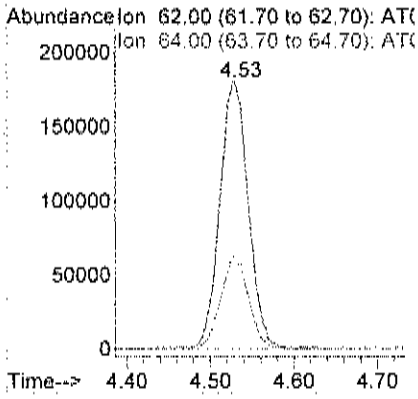


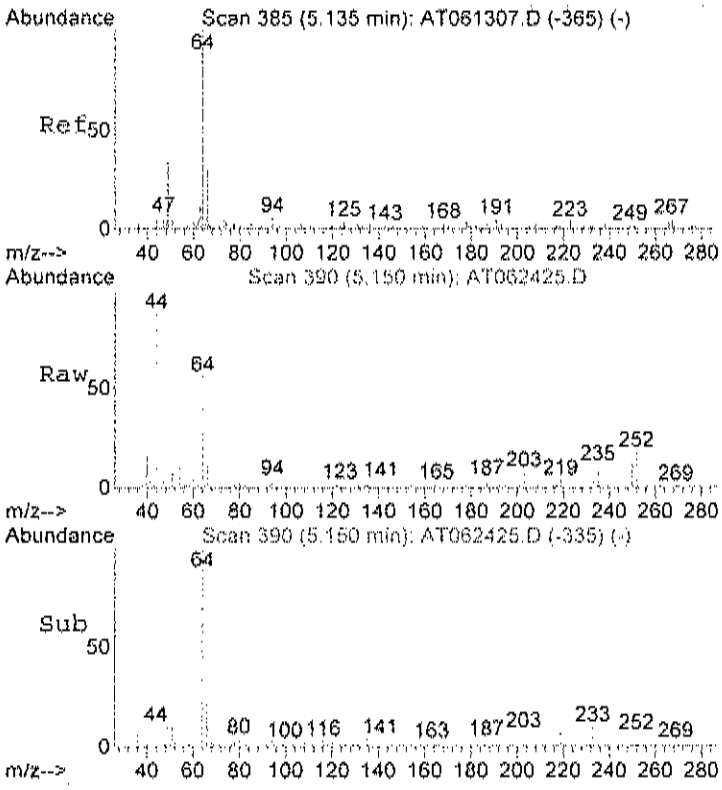


#6
Vinyl Chloride
Concen: 9.88 ppb
RT: 4.53 min Scan# 183
Delta R.T. 0.01 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion: 62 Resp: 425029

Ion	Ratio	Lower	Upper
62	100		
64	33.1	4.3	64.3

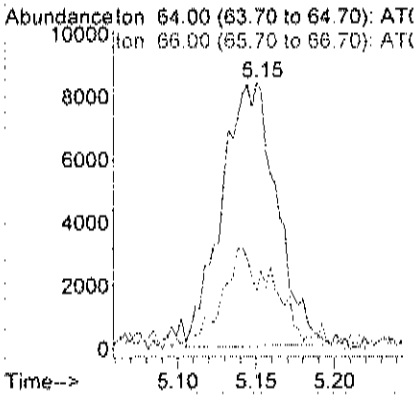


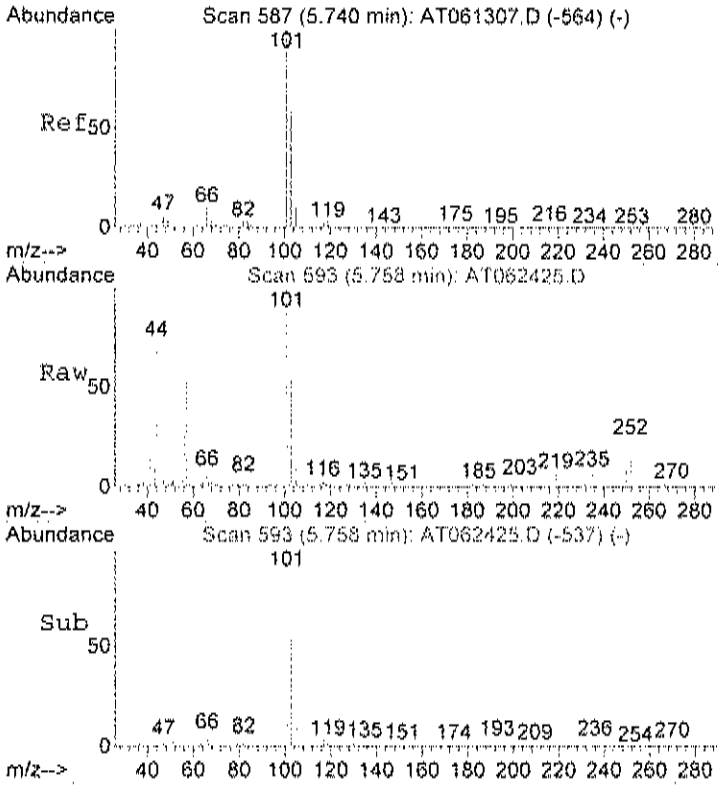


#10
Chloroethane
Concen: 0.96 ppb
RT: 5.15 min Scan# 390
Delta R.T. 0.01 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion: 64 Resp: 20295

Ion	Ratio	Lower	Upper
64	100		
66	37.6	27.0	40.4

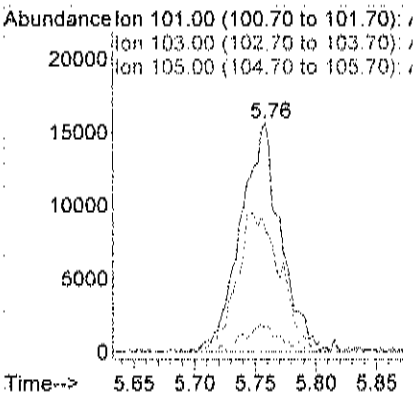


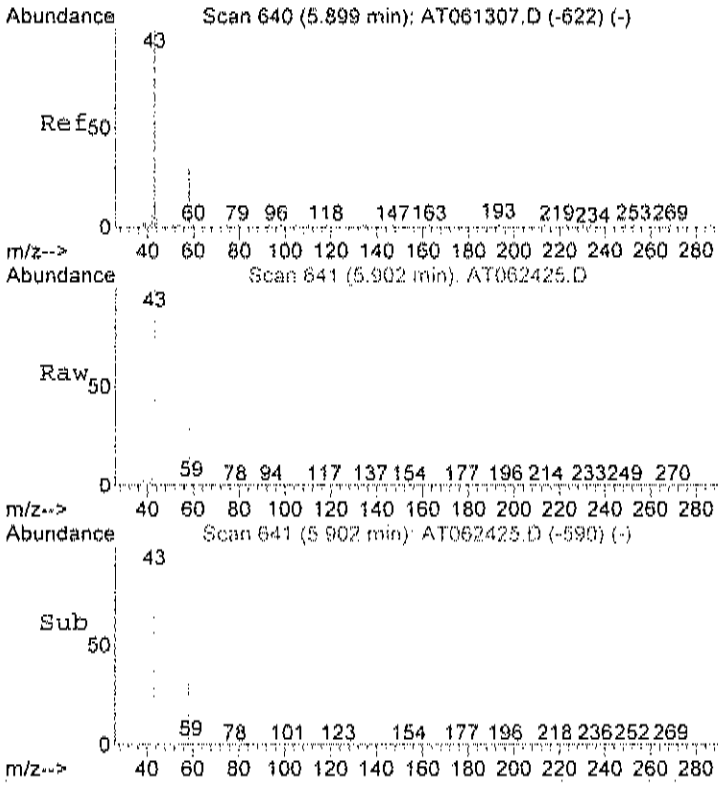


#14
Freon 11
Concen: 0.16 ppb
RT: 5.76 min Scan# 593
Delta R.T. 0.02 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion:101 Resp: 35999

Ion	Ratio	Lower	Upper
101	100		
103	66.3	46.3	86.3
105	11.7	0.0	31.2

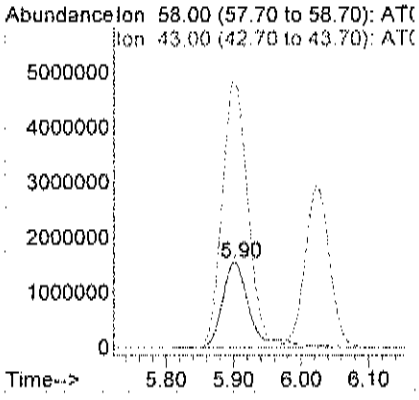


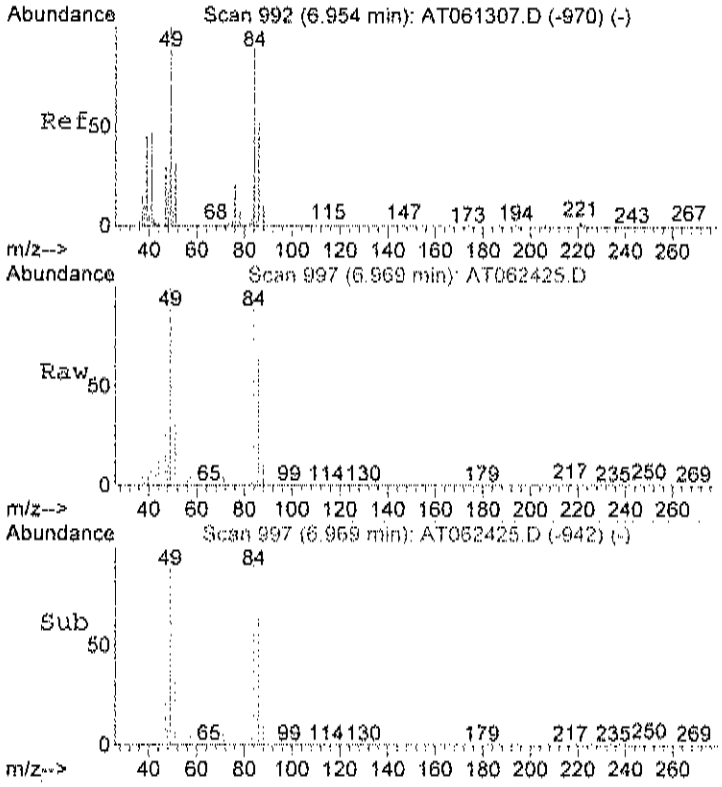


#15
Acetone
Concen: 188.11 ppb
RT: 5.90 min Scan# 641
Delta R.T. 0.00 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion: 58 Resp: 4336242

Ion	Ratio	Lower	Upper
58	100		
43	294.4	268.9	328.9

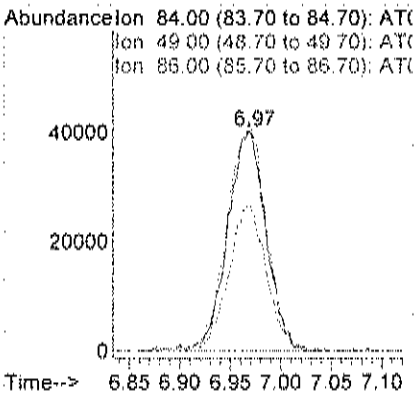


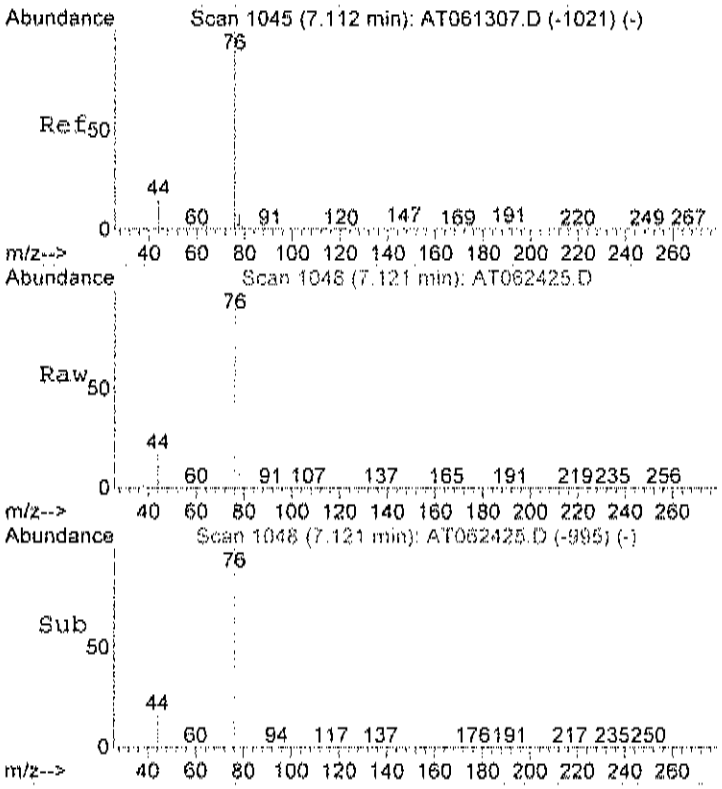


#21
Methylene chloride
Concen: 2.11 ppb
RT: 6.97 min Scan# 997
Delta R.T. 0.01 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion: 84 Resp: 106399

Ion	Ratio	Lower	Upper
84	100		
49	105.1	93.2	133.2
86	65.4	46.4	86.4

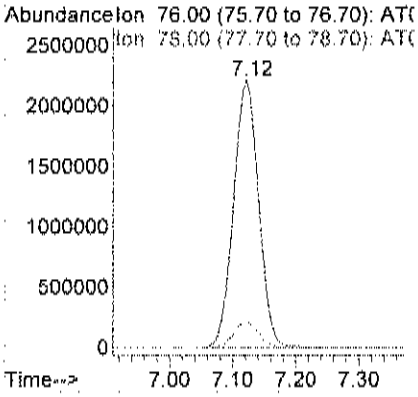


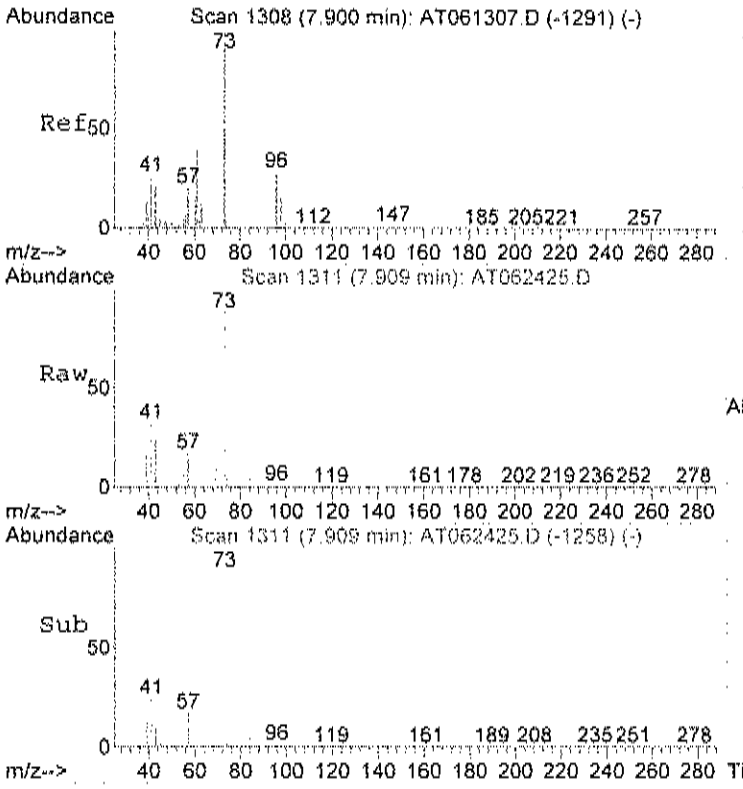


#23
Carbon disulfide
Concen: 40.58 ppb
RT: 7.12 min Scan# 1048
Delta R.T. 0.01 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion: 76 Resp: 6080820

Ion	Ratio	Lower	Upper
76	100		
78	9.6	0.0	29.7

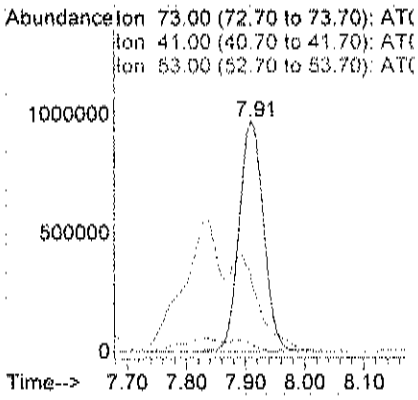


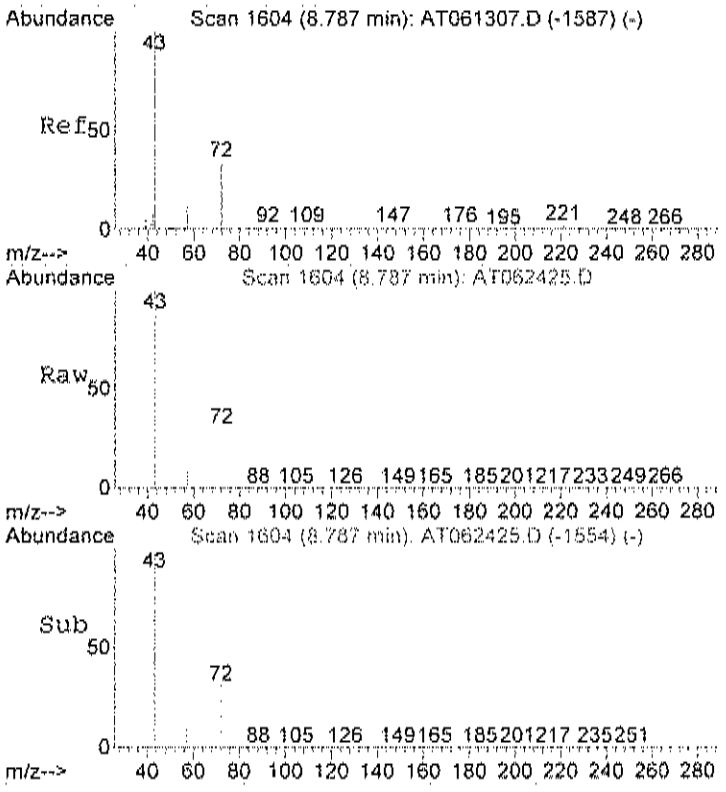


#25
methyl tert-butyl ether
Concen: 24.66 ppb
RT: 7.91 min Scan# 1311
Delta R.T. 0.01 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion: 73 Resp: 2774557

Ion	Ratio	Lower	Upper
73	100		
41	0.0	0.0	39.9
53	0.0	0.0	21.4

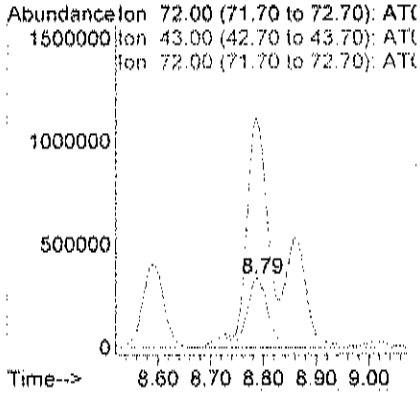


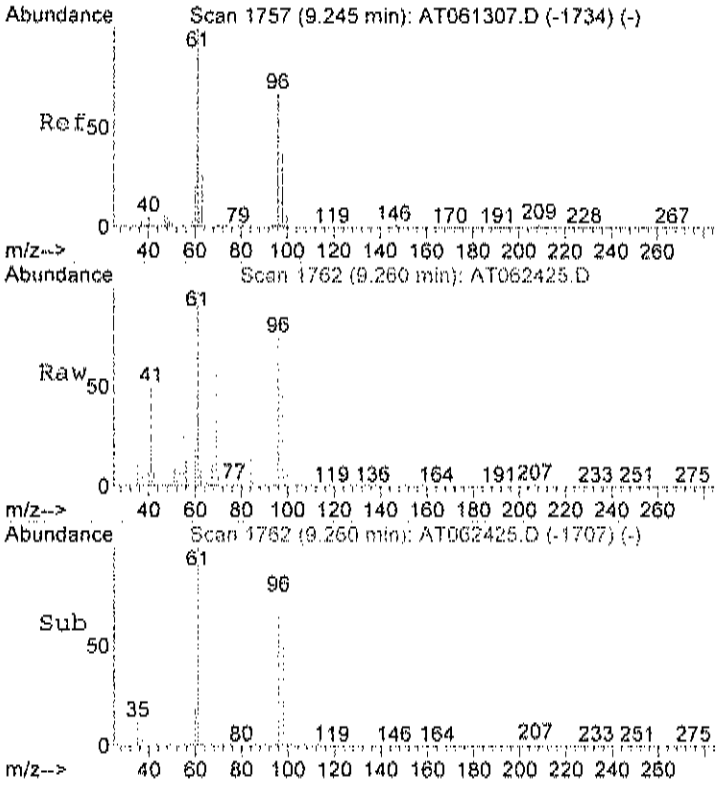


#28
Methyl Ethyl Ketone
Concen: 53.53 ppb
RT: 8.79 min Scan# 1604
Delta R.T. 0.00 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion: 72 Resp: 1049170

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

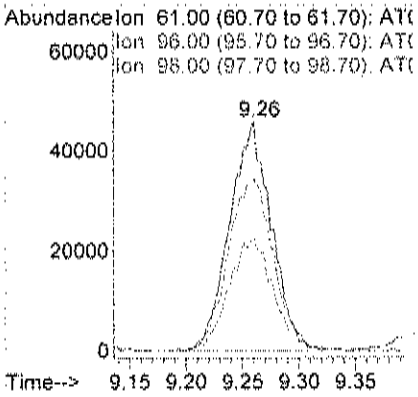


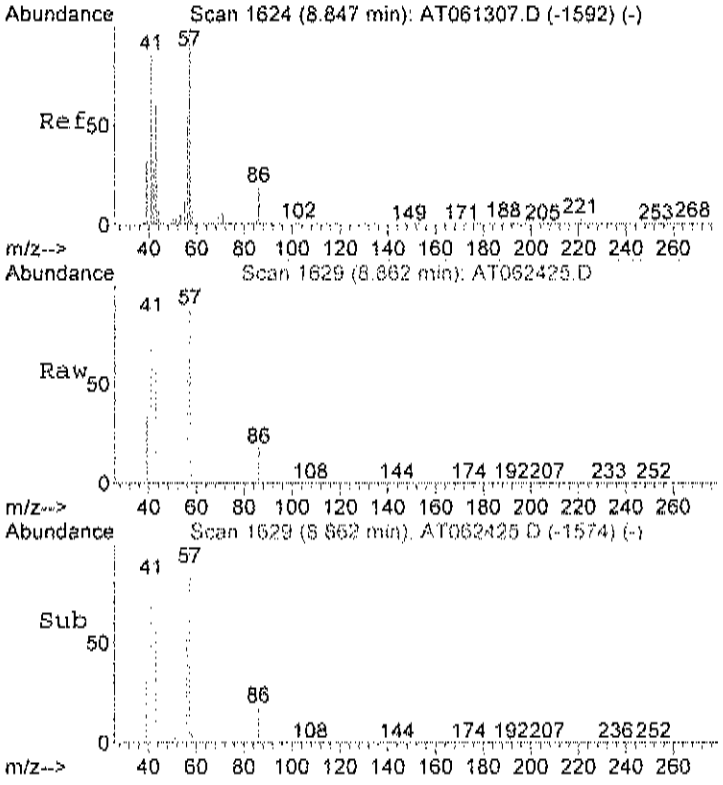


#29
cis-1,2-dichloroethene
Concen: 1.78 ppb
RT: 9.26 min Scan# 1762
Delta R.T. 0.01 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion: 61 Resp: 116922

Ion	Ratio	Lower	Upper
61	100		
96	81.9	60.1	100.1
98	52.2	33.1	73.1

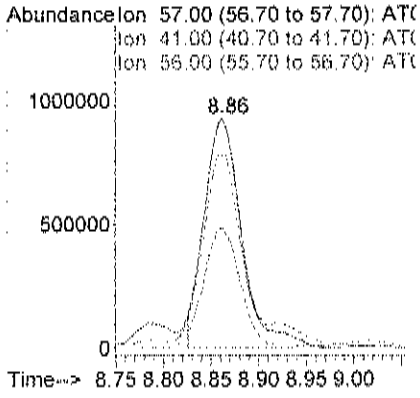


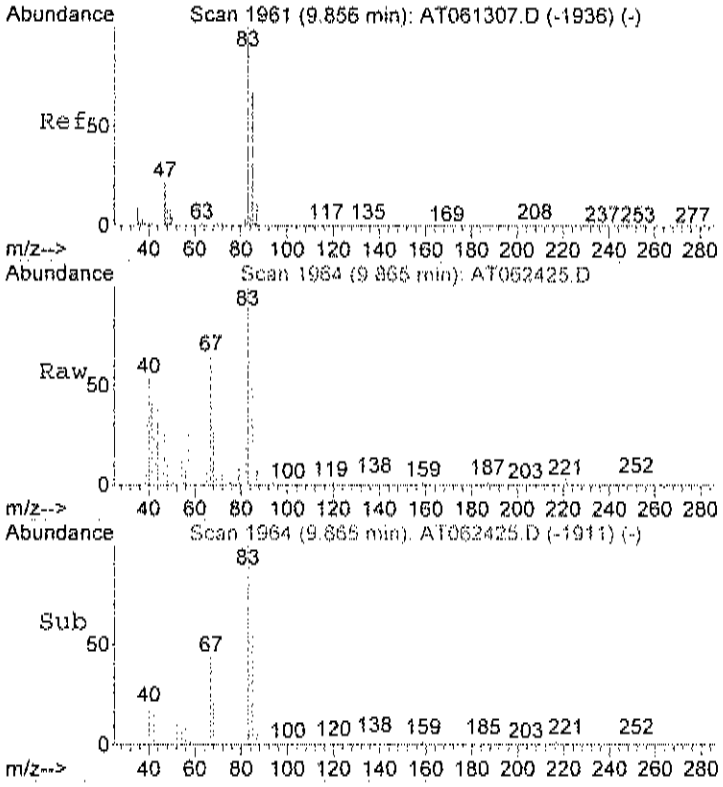


#30
Hexane
Concen: 43.34 ppb
RT: 8.86 min Scan# 1629
Delta R.T. 0.01 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion: 57 Resp: 2548213

Ion	Ratio	Lower	Upper
57	100		
41	89.6	58.1	98.1
56	53.1	28.7	68.7

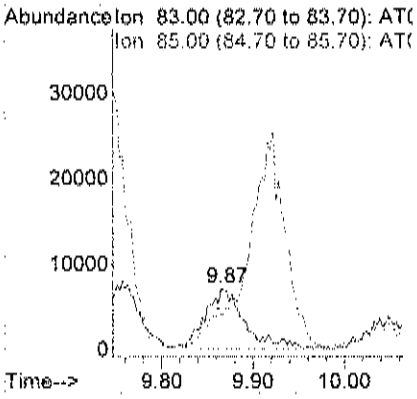


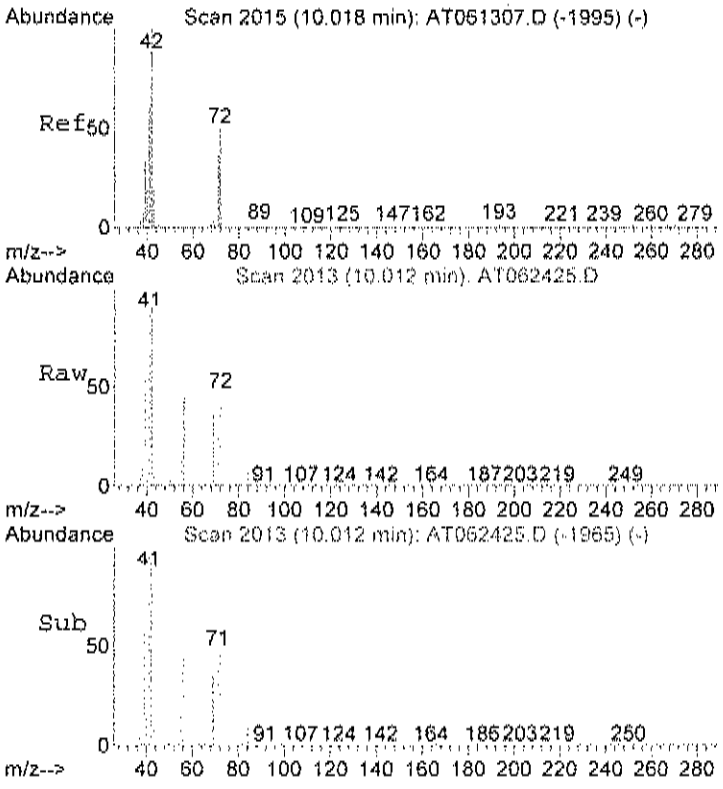


#32
Chloroform
Concen: 0.17 ppb
RT: 9.87 min Scan# 1964
Delta R.T. 0.01 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion: 83 Resp: 21532

Ion	Ratio	Lower	Upper
83	100		
85	0.0	46.5	86.5#

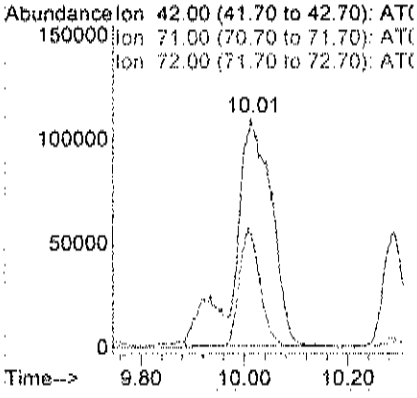


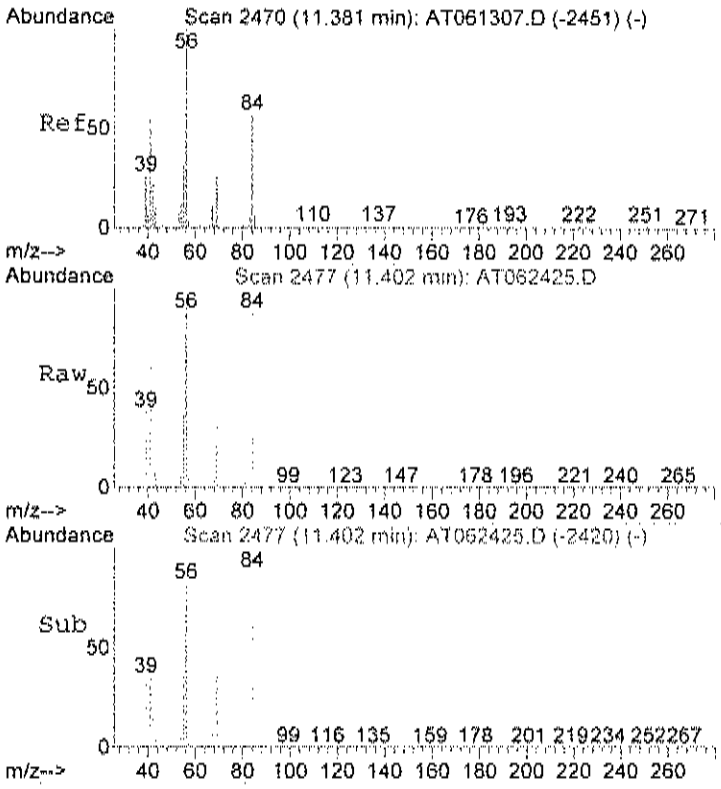


#33
Tetrahydrofuran
Concen: 15.68 ppb
RT: 10.01 min Scan# 2013
Delta R.T. -0.01 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion: 42 Resp: 540228

Ion	Ratio	Lower	Upper
42	100		
71	29.5	38.0	78.0#
72	28.8	35.0	75.0#

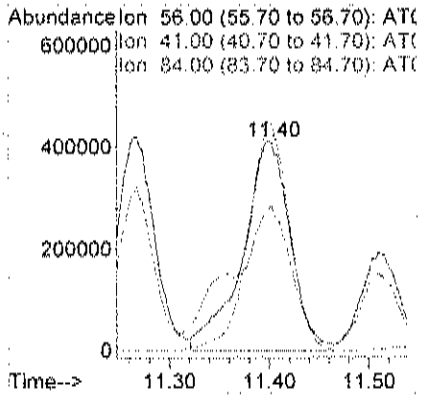


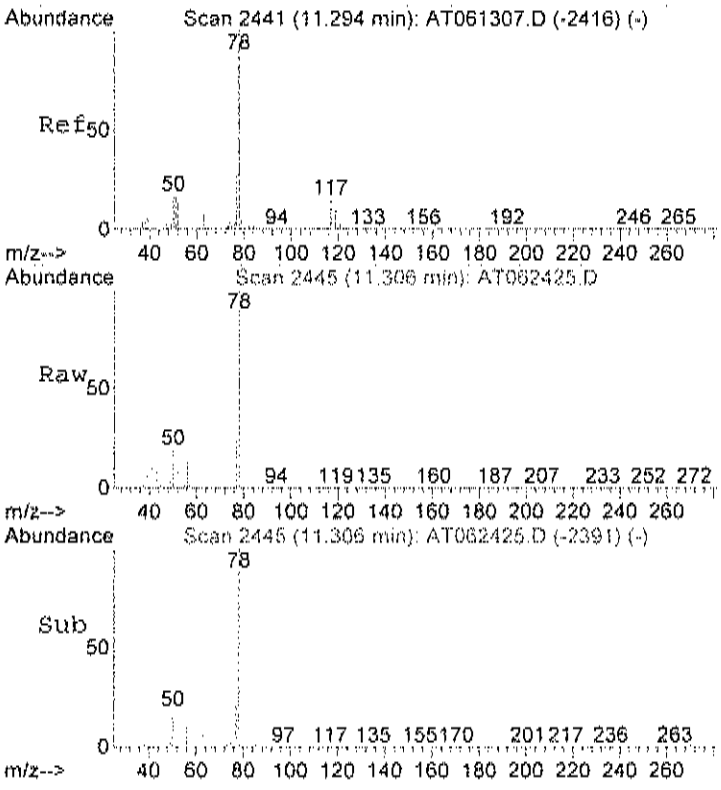


#37
Cyclohexane
Concen: 24.05 ppb m
RT: 11.40 min Scan# 2477
Delta R.T. 0.02 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion: 56 Resp: 1369628

Ion	Ratio	Lower	Upper
56	100		
41	131.5	40.3	80.3#
84	0.0	133.0	173.0#

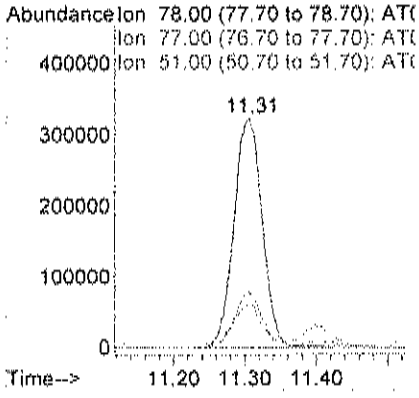


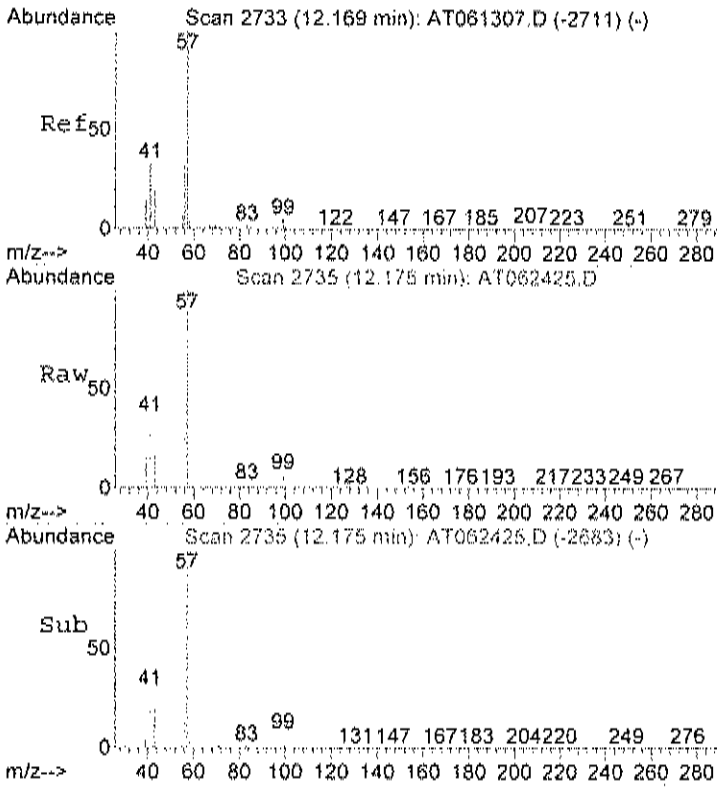


#39
Benzene
Concen: 6.58 ppb
RT: 11.31 min Scan# 2445
Delta R.T. 0.01 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion: 78 Resp: 890453

Ion	Ratio	Lower	Upper
78	100		
77	23.9	3.1	43.1
51	30.9	0.0	37.8

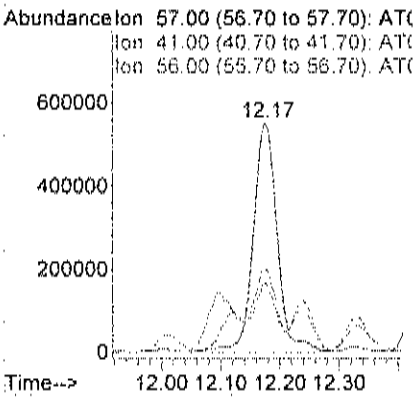


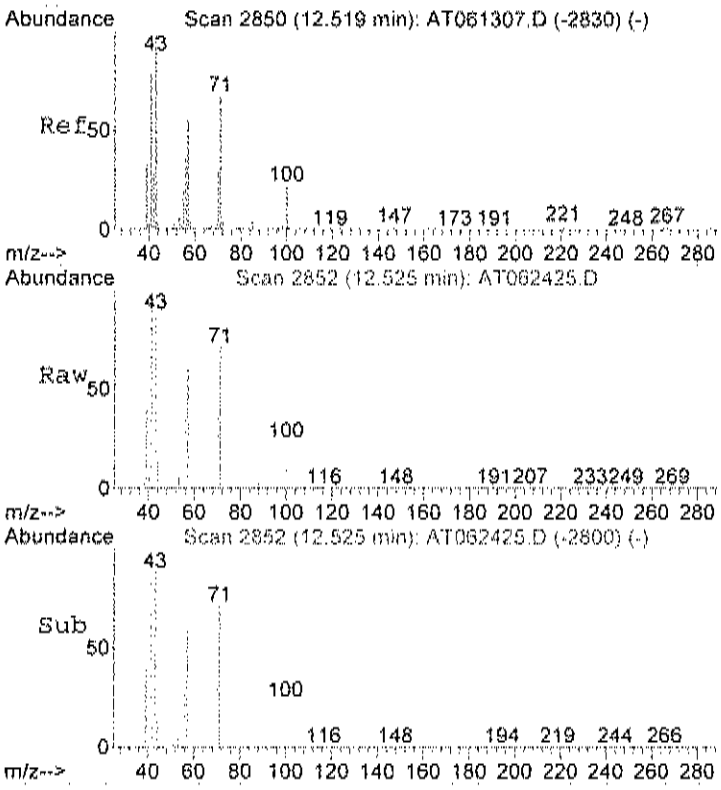


#42
2,2,4-trimethylpentane
Concen: 8.70 ppb
RT: 12.17 min Scan# 2735
Delta R.T. 0.01 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion: 57 Resp: 1548536

Ion	Ratio	Lower	Upper
57	100		
41	79.3	15.3	55.3#
56	60.5	10.1	50.1#

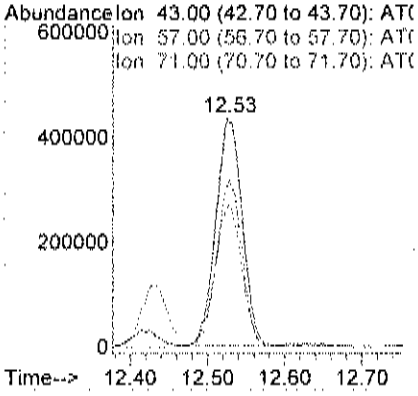


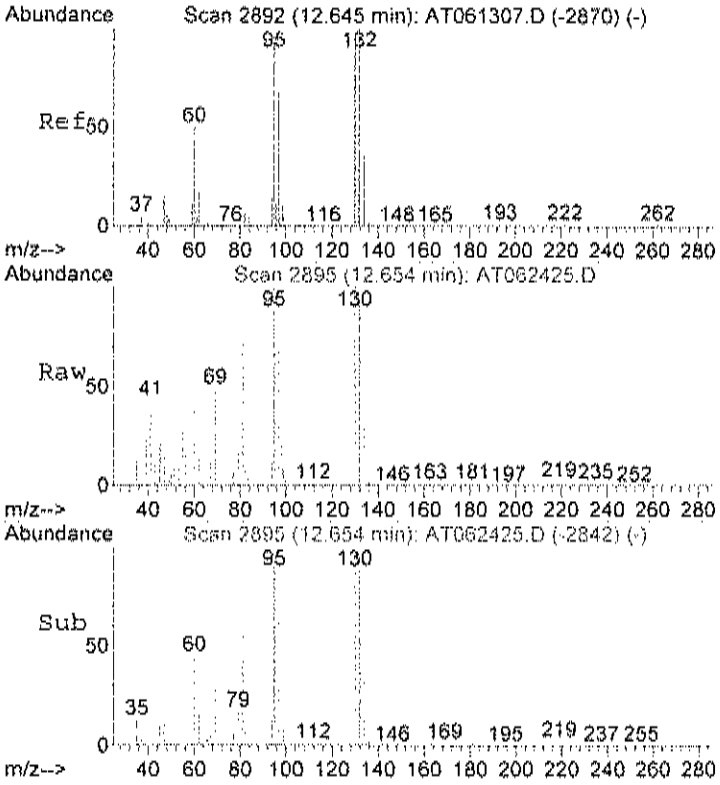


#43
Heptane
Concen: 16.54 ppb
RT: 12.53 min Scan# 2852
Delta R.T. 0.01 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion: 43 Resp: 1052079

Ion	Ratio	Lower	Upper
43	100		
57	61.5	41.7	81.7
71	69.8	53.4	93.4

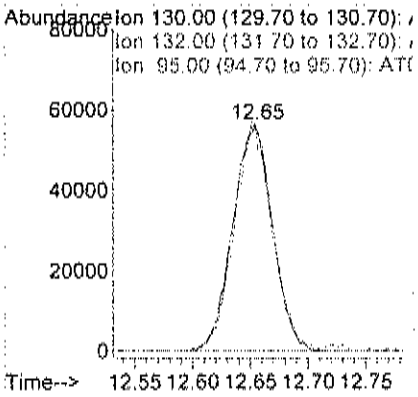


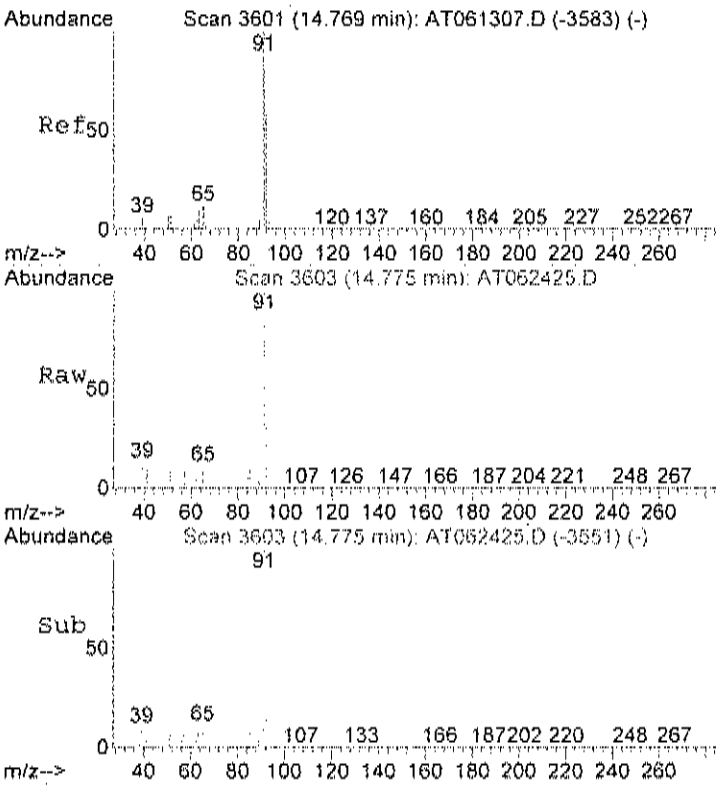


#44
Trichloroethene
Concen: 1.83 ppb
RT: 12.65 min Scan# 2895
Delta R.T. 0.01 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion:130 Resp: 135440

Ion	Ratio	Lower	Upper
130	100		
132	96.8	76.7	116.7
95	99.0	74.7	114.7

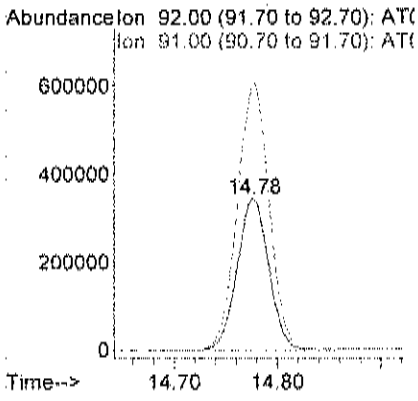


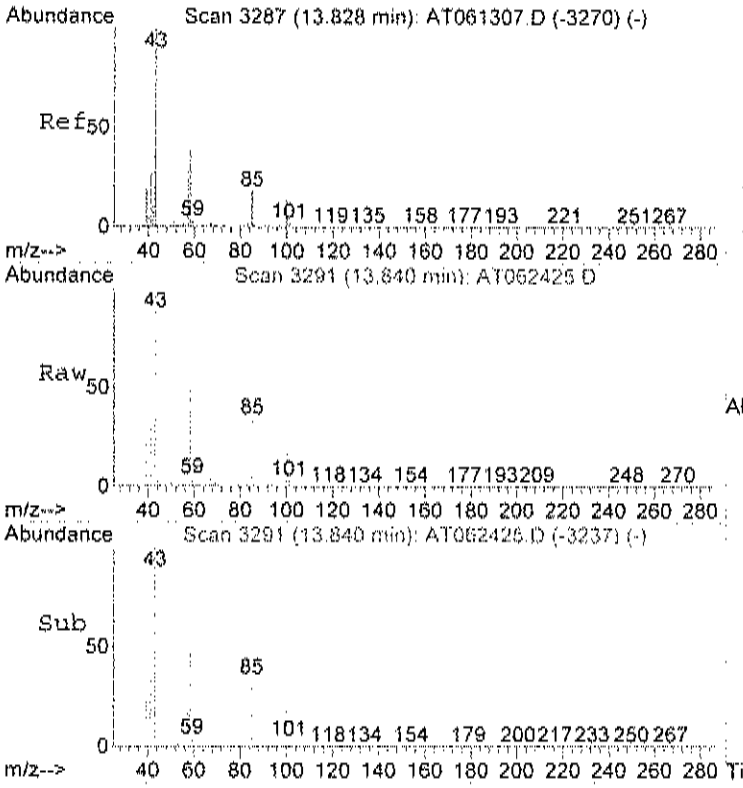


#51
Toluene
Concen: 7.22 ppb
RT: 14.78 min Scan# 3603
Delta R.T. 0.01 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion: 92 Resp: 731348

Ion	Ratio	Lower	Upper
92	100		
91	177.0	154.4	194.4

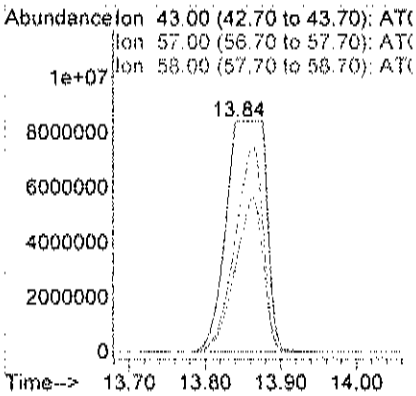


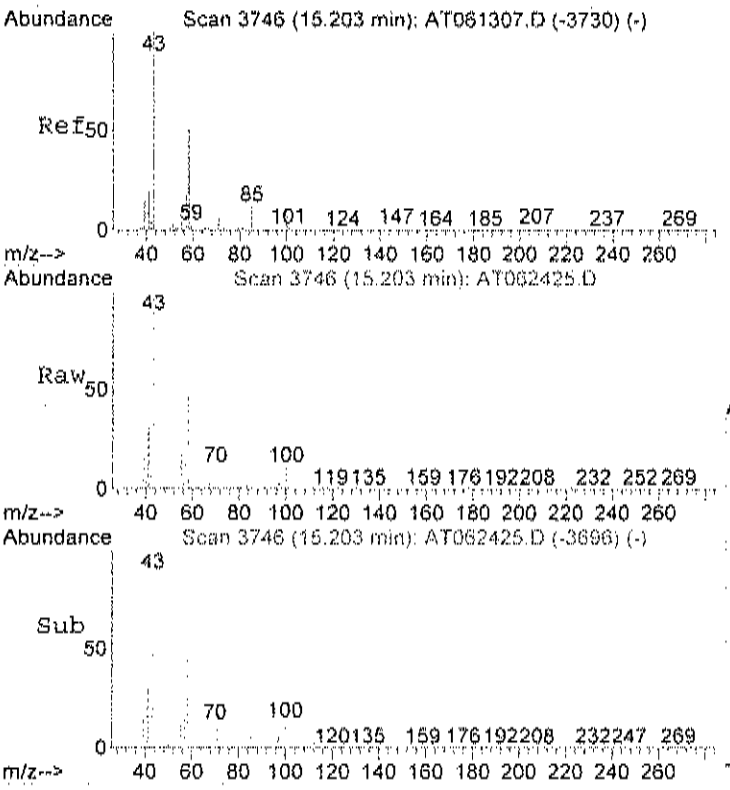


#52
Methyl Isobutyl Ketone
Concen: 344.18 ppb
RT: 13.84 min Scan# 3291
Delta R.T. 0.01 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion: 43 Resp:31120451

Ion	Ratio	Lower	Upper
43	100		
57	46.9	9.3	49.3
58	62.5	22.0	62.0#

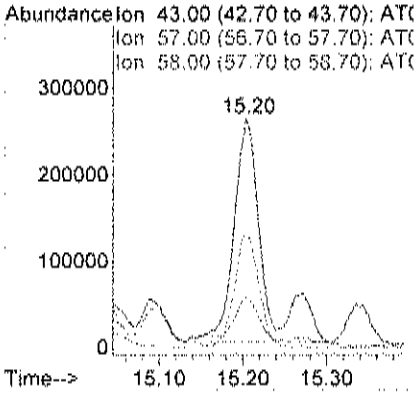


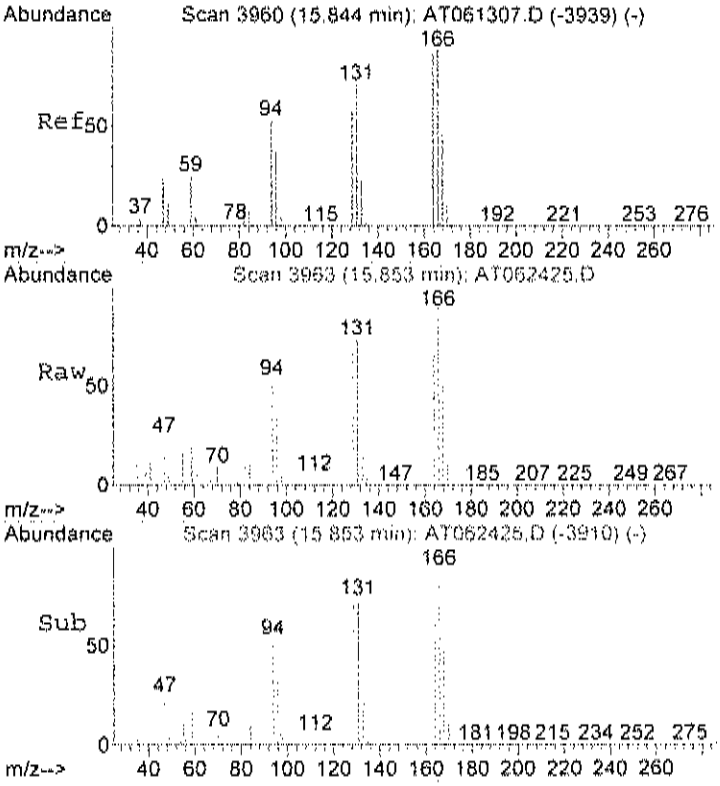


#54
Methyl Butyl Ketone
Concen: 7.81 ppb
RT: 15.20 min Scan# 3746
Delta R.T. 0.00 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion: 43 Resp: 641665

Ion	Ratio	Lower	Upper
43	100		
57	45.9	0.9	40.9#
58	41.4	33.3	73.3

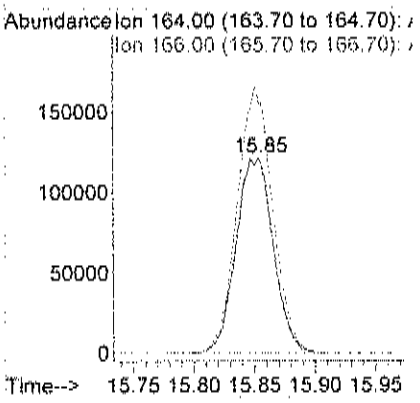


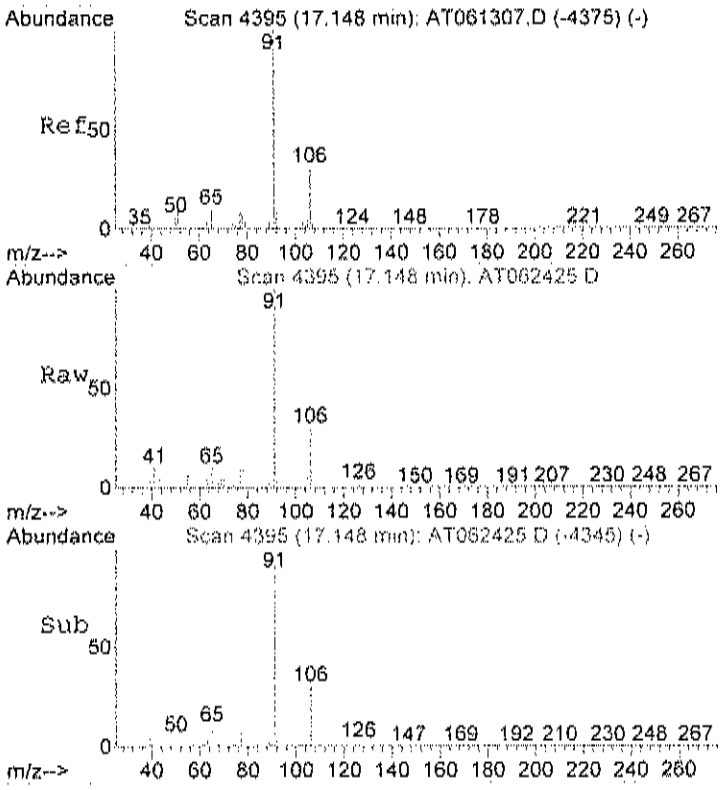


#56
Tetrachloroethylene
Concen: 3.30 ppb
RT: 15.85 min Scan# 3963
Delta R.T. 0.01 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion:164 Resp: 258817

Ion	Ratio	Lower	Upper
164	100		
166	130.1	107.7	147.7

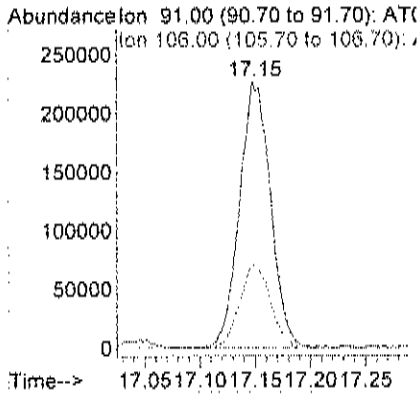


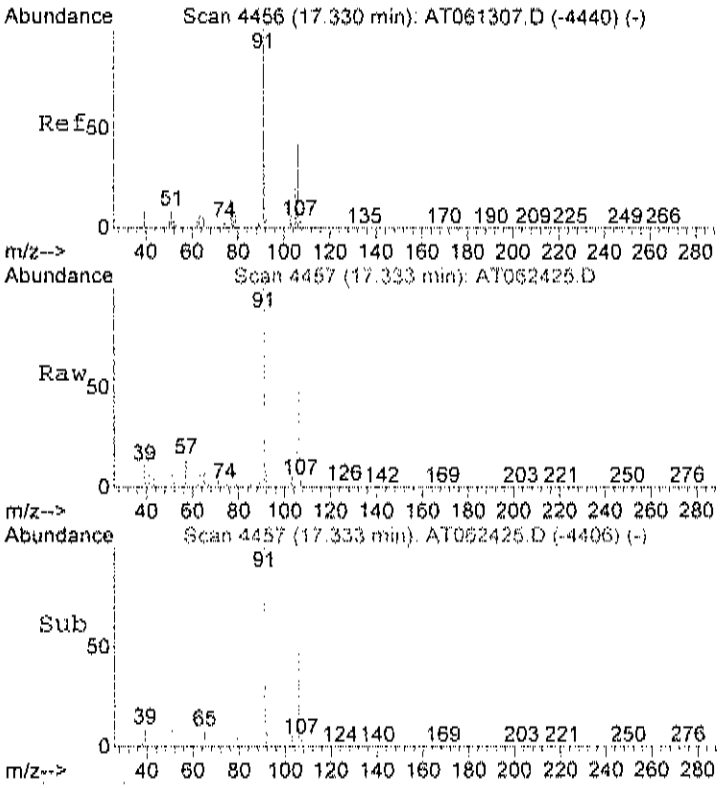


#58
Ethylbenzene
Concen: 1.89 ppb
RT: 17.15 min Scan# 4395
Delta R.T. -0.00 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion: 91 Resp: 442757

Ion	Ratio	Lower	Upper
91	100		
106	31.1	11.5	51.5

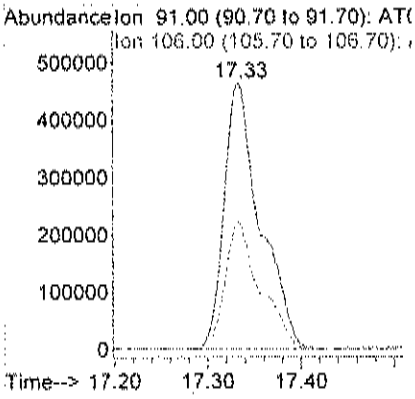


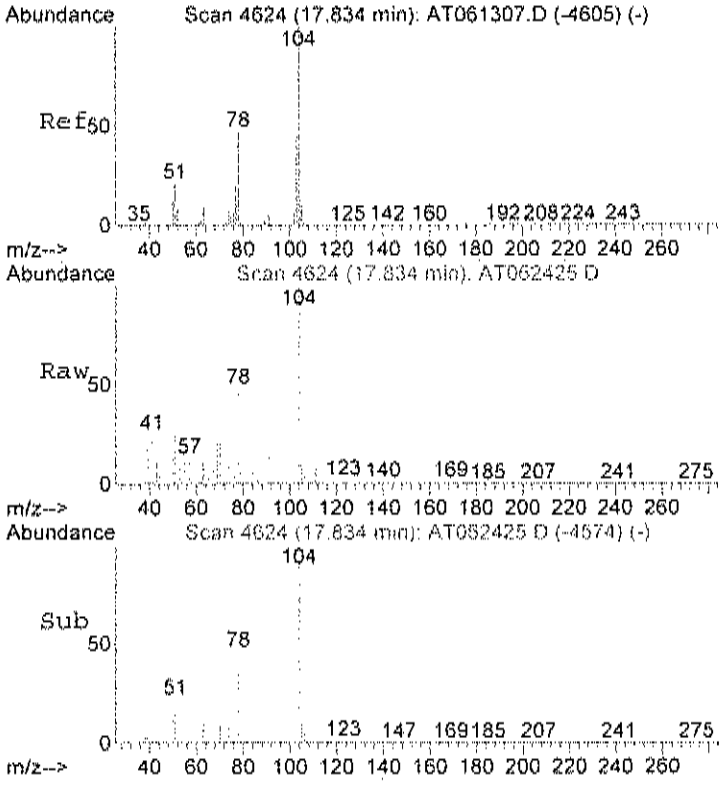


#59
m&p-xylene
Concen: 6.51 ppb
RT: 17.33 min Scan# 4457
Delta R.T. 0.00 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion: 91 Resp: 1247525

Ion	Ratio	Lower	Upper
91	100		
106	46.7	27.9	67.9

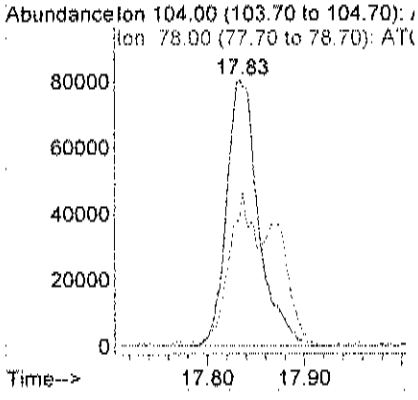


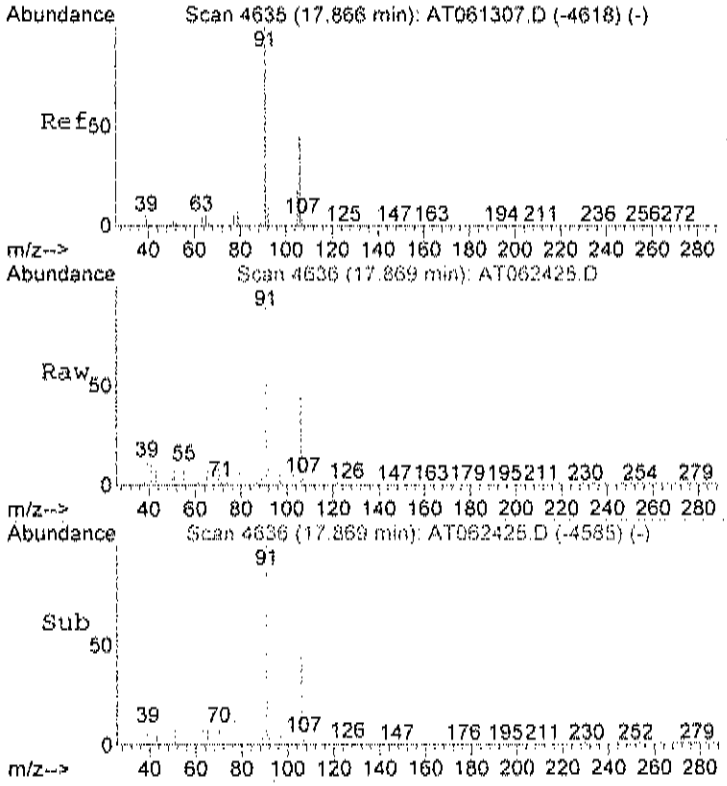


#61
Styrene
Concen: 1.30 ppb
RT: 17.83 min Scan# 4624
Delta R.T. 0.00 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion:104 Resp: 183740

Ion	Ratio	Lower	Upper
104	100		
78	82.0	37.9	77.9#

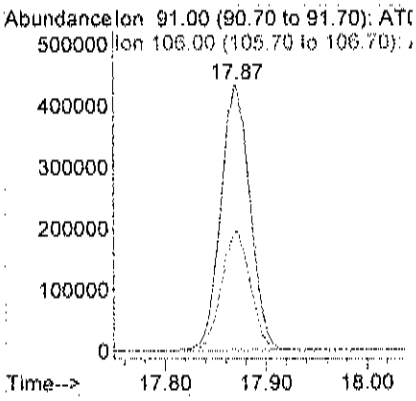


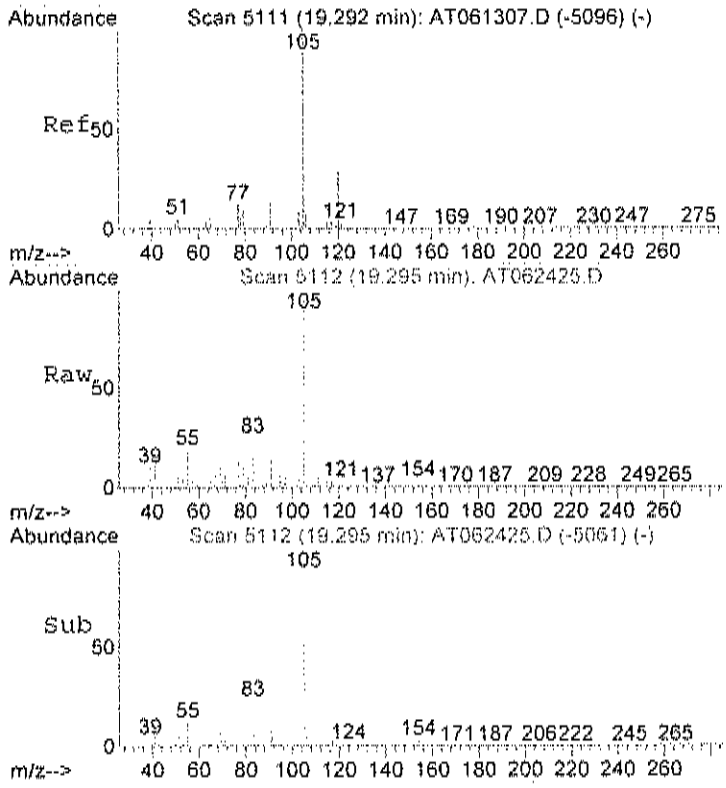


#63
o-xylene
Concen: 4.29 ppb
RT: 17.87 min Scan# 4636
Delta R.T. 0.00 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion: 91 Resp: 875842

Ion	Ratio	Lower	Upper
91	100		
106	44.5	25.1	65.1

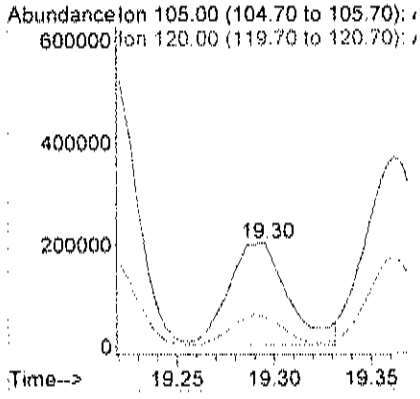


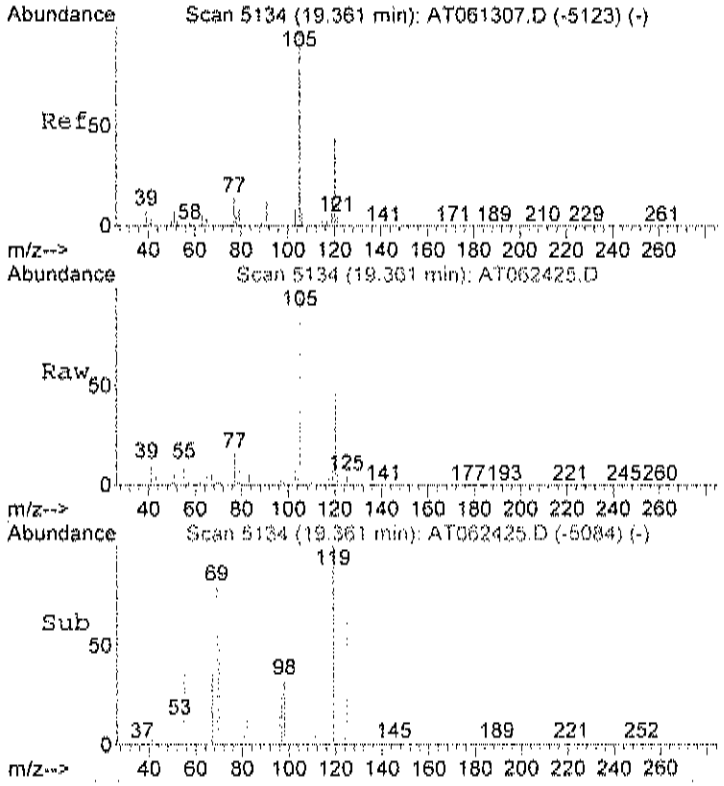


#69
4-ethyltoluene
Concen: 1.63 ppb
RT: 19.30 min Scan# 5112
Delta R.T. 0.00 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion:105 Resp: 431831

Ion	Ratio	Lower	Upper
105	100		
120	28.1	10.6	50.6

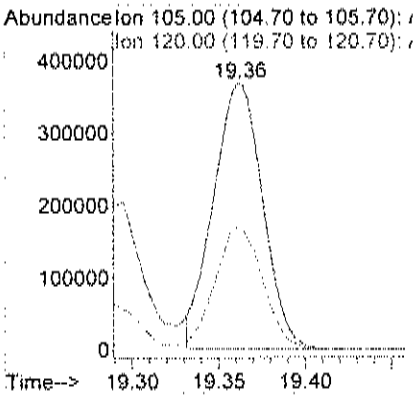


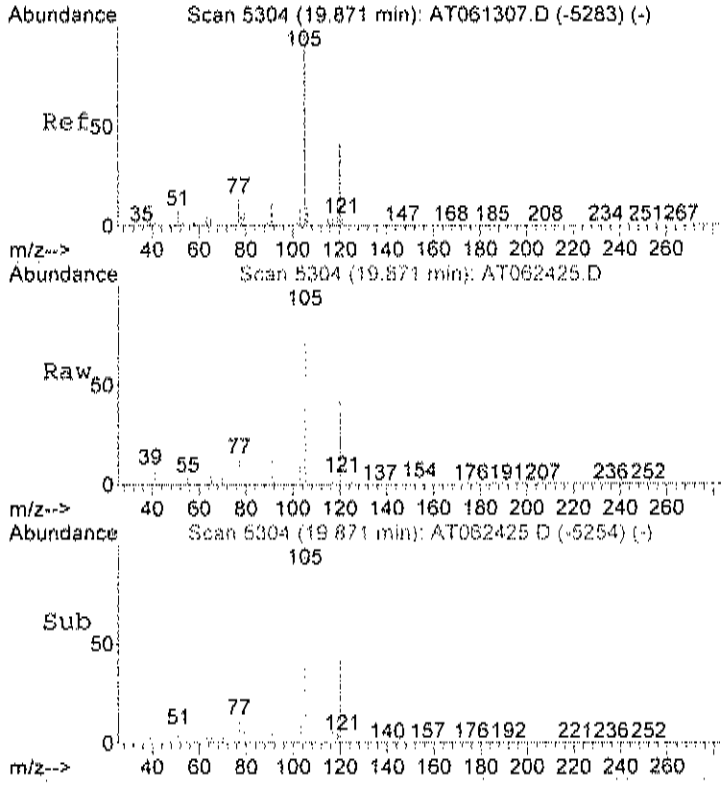


#70
1,3,5-trimethylbenzene
Concen: 3.09 ppb
RT: 19.36 min Scan# 5134
Delta R.T. 0.00 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion:105 Resp: 731916

Ion	Ratio	Lower	Upper
105	100		
120	45.1	26.2	66.2

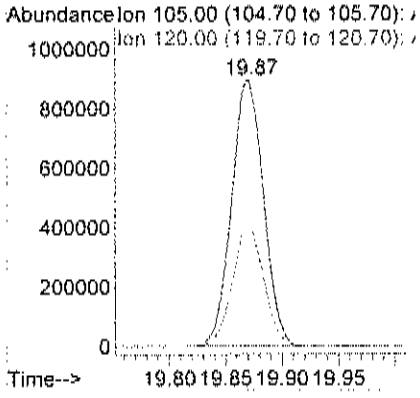


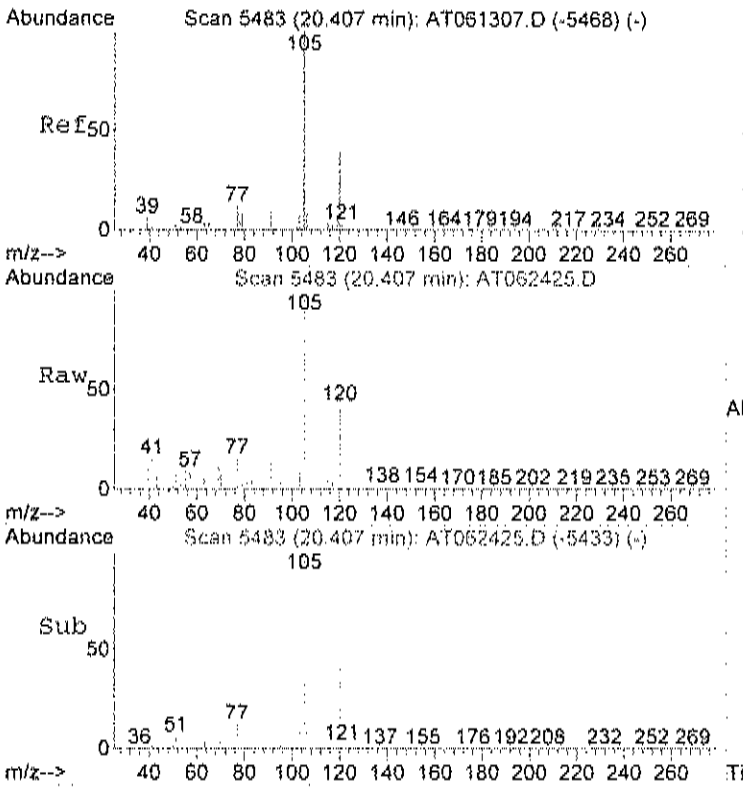


#71
1,2,4-trimethylbenzene
Concen: 7.68 ppb
RT: 19.87 min Scan# 5304
Delta R.T. 0.00 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion:105 Resp: 1769553

Ion	Ratio	Lower	Upper
105	100		
120	44.3	23.8	63.8

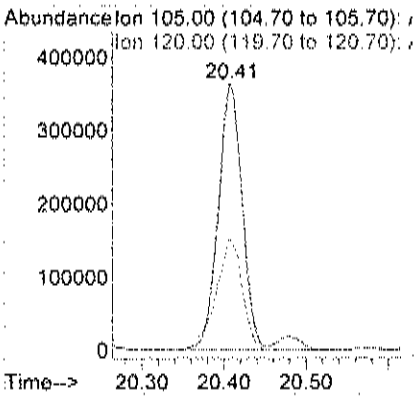




#75
1,2,3-trimethylbenzene
Concen: 3.25 ppb
RT: 20.41 min Scan# 5483
Delta R.T. 0.00 min
Lab File: AT062425.D
Acq: 25 Jun 2022 4:42 am

Tgt Ion:105 Resp: 768510

Ion	Ratio	Lower	Upper
105	100		
120	45.0	30.7	51.1



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062807.D Vial: 7
Acq On : 28 Jun 2022 12:53 pm Operator: RJP
Sample : C2206048-015A 10X Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 29 07:09:53 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

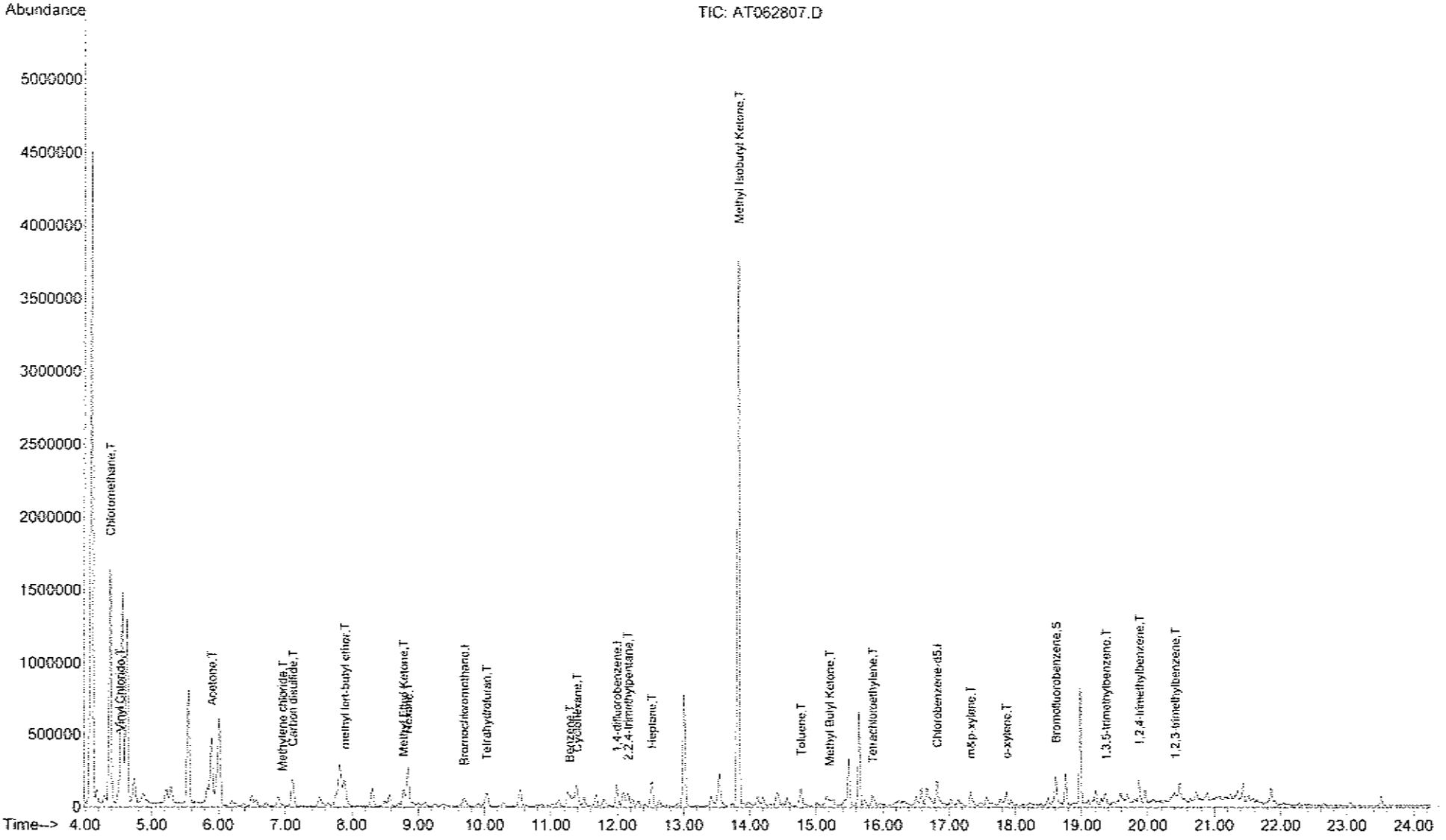
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.68	128	23343	1.00	ppb		0.00
35) 1,4-difluorobenzene	11.99	114	108077	1.00	ppb		-0.01
50) Chlorobenzene-d5	16.82	117	103807	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	68929	0.92	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 92.00%				
Target Compounds							Qvalue
4) Chloromethane	4.37	50	34355m	1.31	ppb		
6) Vinyl Chloride	4.51	62	33031	1.30	ppb		99
15) Acetone	5.89	58	215072	15.84	ppb	#	52
21) Methylene chloride	6.96	84	9174	0.31	ppb		96
23) Carbon disulfide	7.11	76	383406	4.34	ppb		100
25) methyl tert-butyl ether	7.90	73	175923	2.66	ppb	#	59
28) Methyl Ethyl Ketone	8.78	72	54135	4.69	ppb	#	100
30) Hexane	8.85	57	184445	5.33	ppb		92
33) Tetrahydrofuran	10.03	42	25596	1.26	ppb	#	76
37) Cyclohexane	11.39	56	86490m	2.64	ppb		
39) Benzene	11.29	78	57926m	0.75	ppb		
42) 2,2,4-trimethylpentane	12.16	57	89997	0.88	ppb	#	18
43) Heptane	12.52	43	63839	1.75	ppb		98
51) Toluene	14.77	92	44465	0.72	ppb		97
52) Methyl Isobutyl Ketone	13.82	43	2571504	46.95	ppb		96
54) Methyl Butyl Ketone	15.20	43	23865	0.48	ppb	#	83
56) Tetrachloroethylene	15.84	164	16408	0.35	ppb		99
59) m&p-xylene	17.33	91	75740	0.65	ppb		97
63) o-xylene	17.87	91	54288	0.44	ppb		97
70) 1,3,5-trimethylbenzene	19.36	105	42318	0.30	ppb		99
71) 1,2,4-trimethylbenzene	19.86	105	103493	0.74	ppb		100
75) 1,2,3-trimethylbenzene	20.40	105	40976	0.29	ppb		87

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

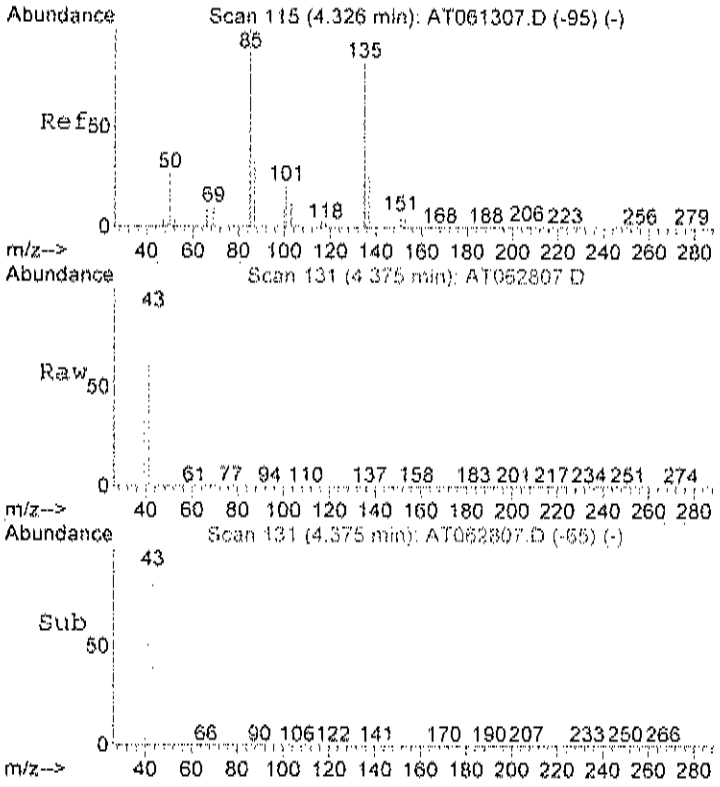
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062807.D Vial: 7
Acq On : 28 Jun 2022 12:53 pm Operator: RJP
Sample : C2206048-015A 10X Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 9:24 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



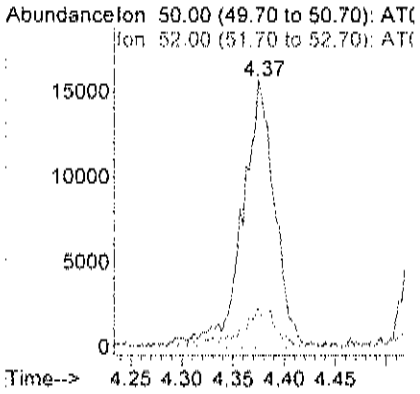
Centek/SanAir Laboratories

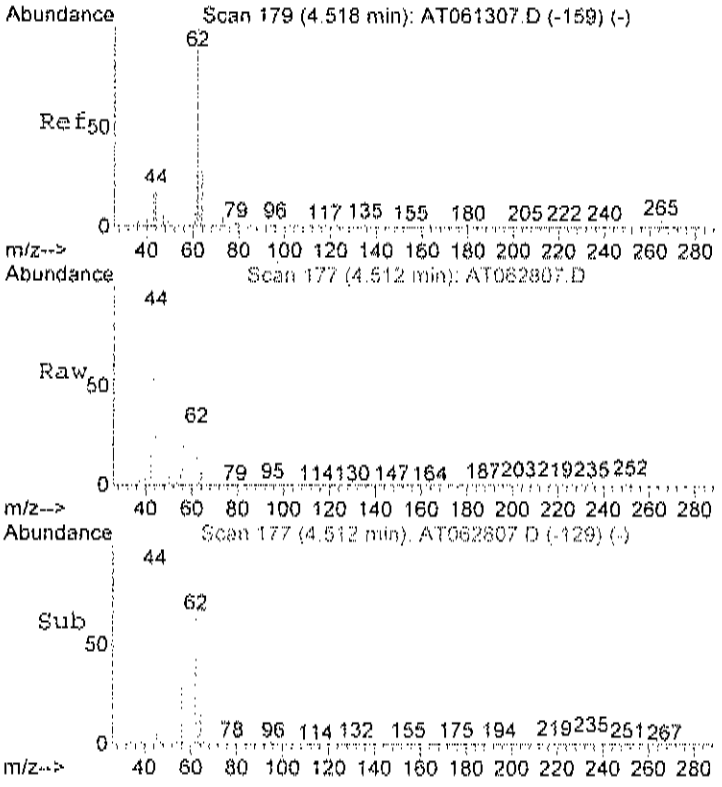


#4
Chloromethane
Concen: 1.31 ppb m
RT: 4.37 min Scan# 131
Delta R.T. 0.05 min
Lab File: AT062807.D
Acq: 28 Jun 2022 12:53 pm

Tgt Ion: 50 Resp: 34355

Ion	Ratio	Lower	Upper
50	100		
52	1.2	2.7	42.7#

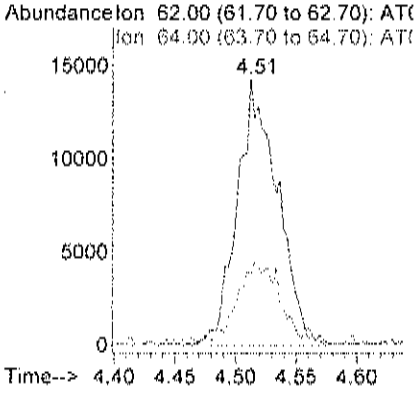


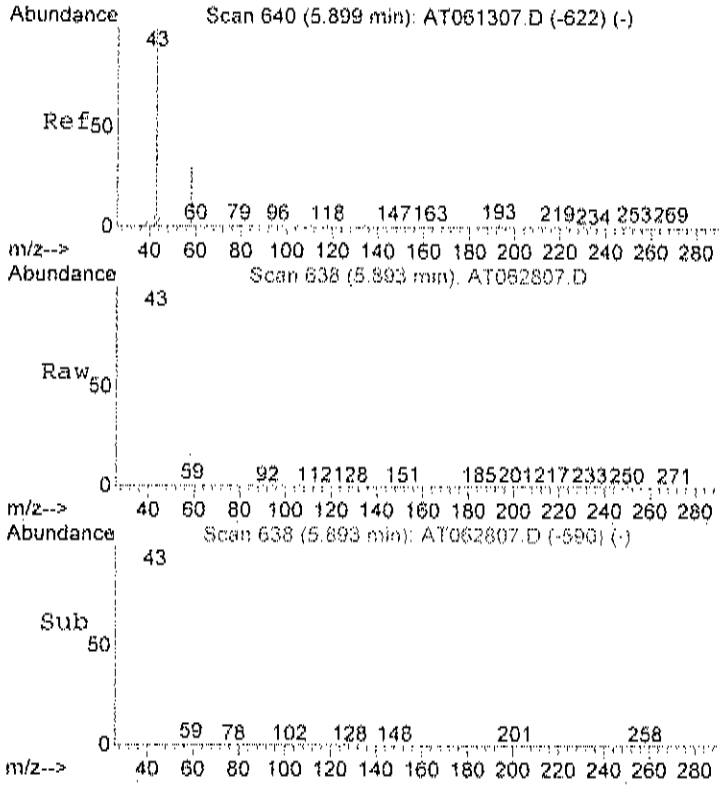


#6
Vinyl Chloride
Concen: 1.30 ppb
RT: 4.51 min Scan# 177
Delta R.T. -0.01 min
Lab File: AT062807.D
Acq: 28 Jun 2022 12:53 pm

Tgt Ion: 62 Resp: 33031

Ion	Ratio	Lower	Upper
62	100		
64	33.6	4.3	64.3

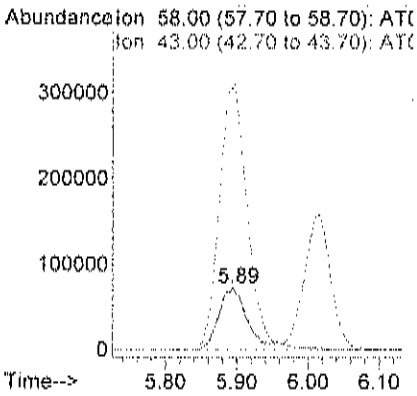


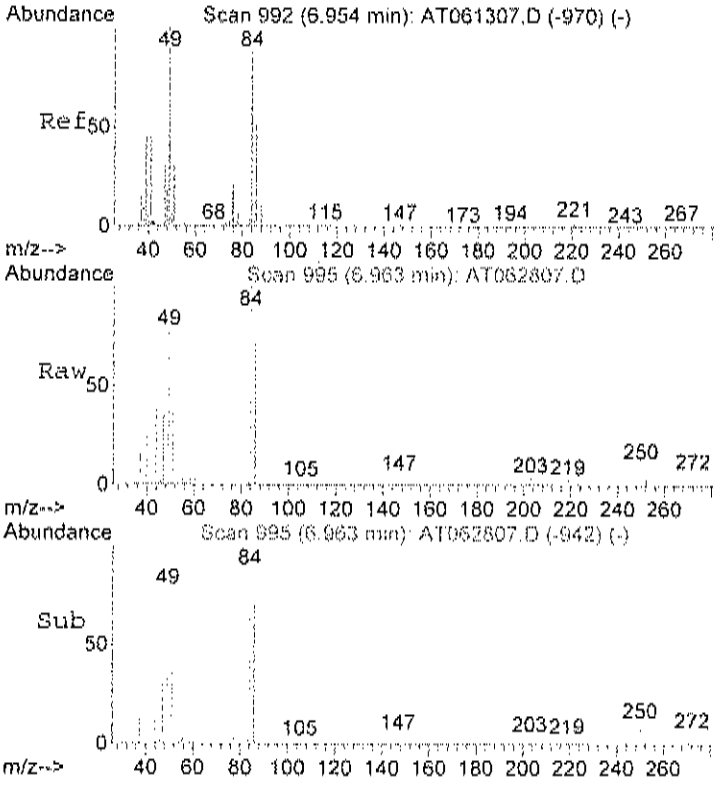


#15
Acetone
Concen: 15.84 ppb
RT: 5.89 min Scan# 638
Delta R.T. -0.01 min
Lab File: AT062807.D
Acq: 28 Jun 2022 12:53 pm

Tgt Ion: 58 Resp: 215072

Ion	Ratio	Lower	Upper
58	100		
43	393.0	268.9	328.9#

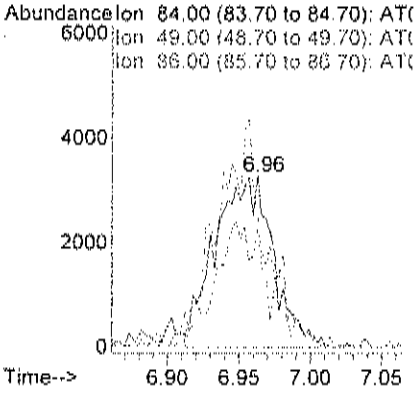


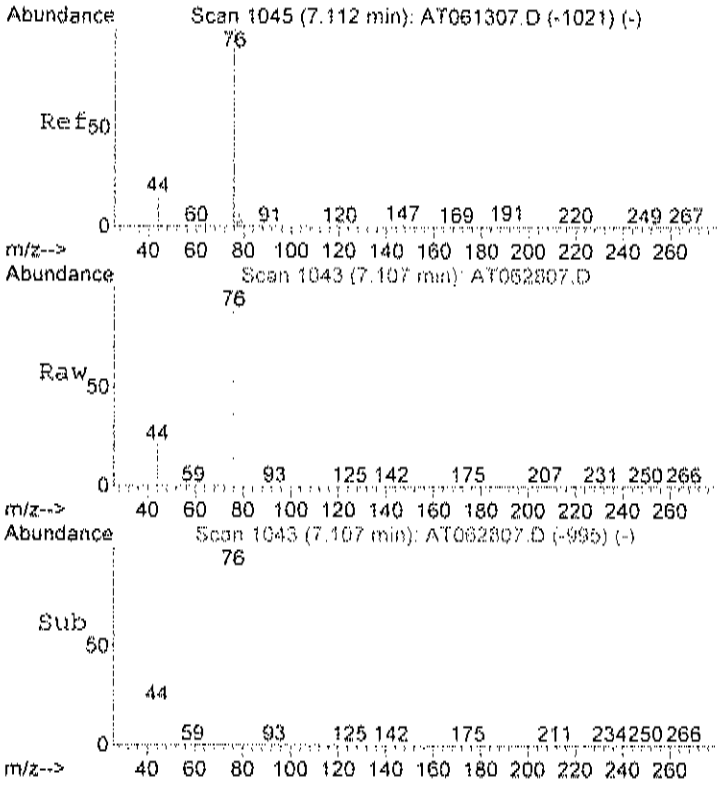


#21
Methylene chloride
Concen: 0.31 ppb
RT: 6.96 min Scan# 995
Delta R.T. 0.01 min
Lab File: AT062807.D
Acq: 28 Jun 2022 12:53 pm

Tgt Ion: 84 Resp: 9174

Ion	Ratio	Lower	Upper
84	100		
49	109.4	93.2	133.2
86	61.7	46.4	86.4

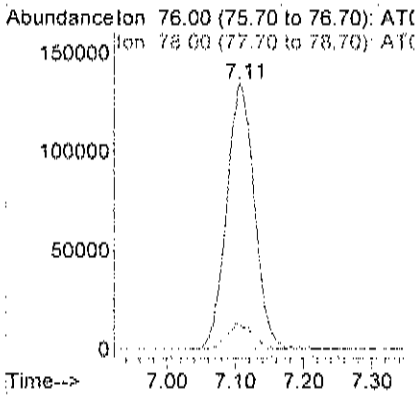


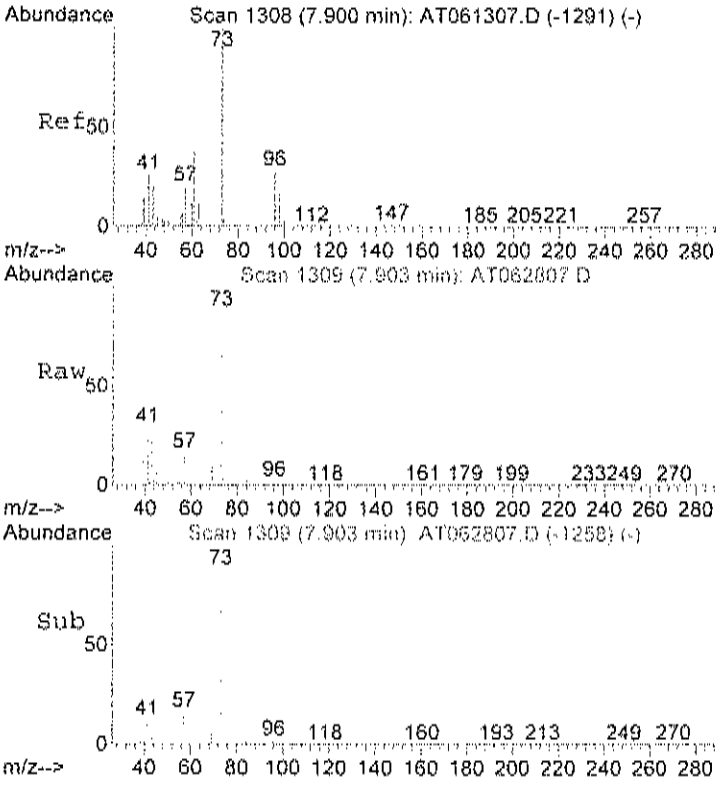


#23
Carbon disulfide
Concen: 4.34 ppb
RT: 7.11 min Scan# 1043
Delta R.T. -0.01 min
Lab File: AT062807.D
Acq: 28 Jun 2022 12:53 pm

Tgt Ion: 76 Resp: 383406

Ion	Ratio	Lower	Upper
76	100		
78	9.6	0.0	29.7

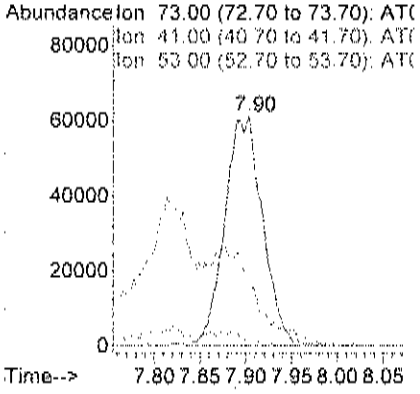


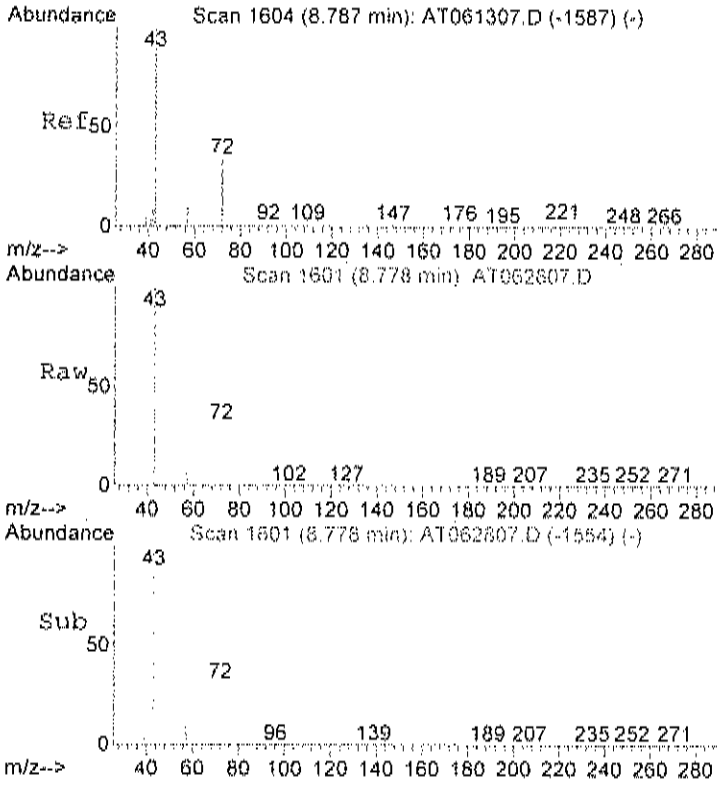


#25
methyl tert-butyl ether
Concen: 2.66 ppb
RT: 7.90 min Scan# 1309
Delta R.T. 0.00 min
Lab File: AT062807.D
Acq: 28 Jun 2022 12:53 pm

Tgt Ion: 73 Resp: 175923

Ion	Ratio	Lower	Upper
73	100		
41	0.0	0.0	39.9
53	0.0	0.0	21.4

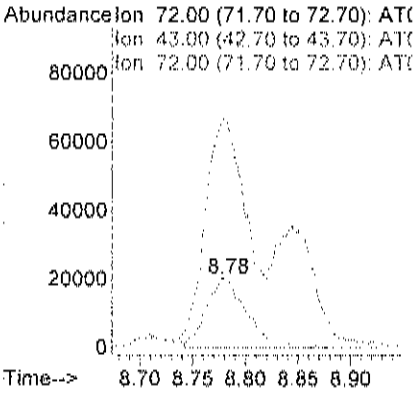


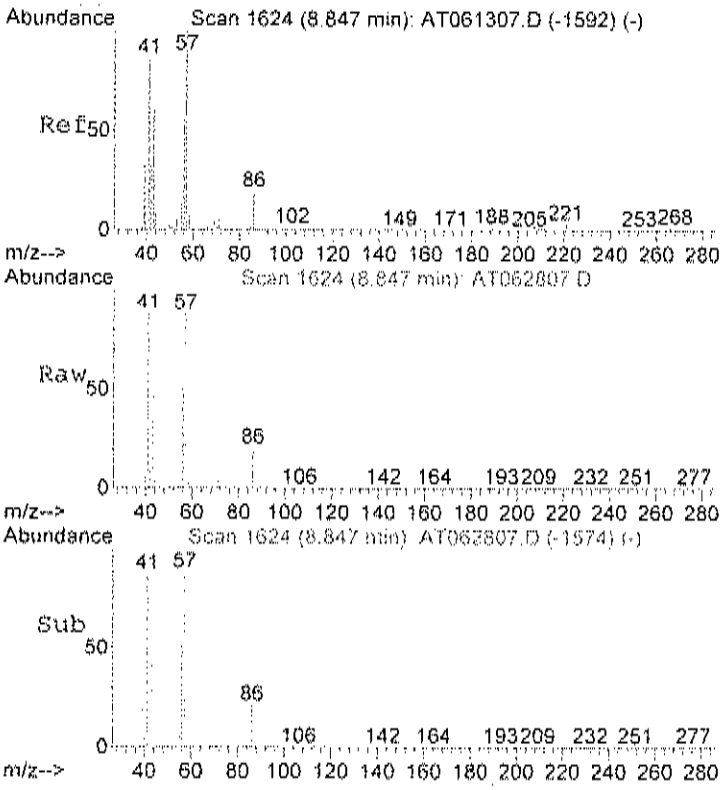


#28
Methyl Ethyl Ketone
Concen: 4.69 ppb
RT: 8.78 min Scan# 1601
Delta R.T. -0.01 min
Lab File: AT062807.D
Acq: 28 Jun 2022 12:53 pm

Tgt Ion: 72 Resp: 54135

Ion	Ratio	Lower	Upper
72	100		
43	505.5	0.0	20.0#
72	100.0	80.0	120.0

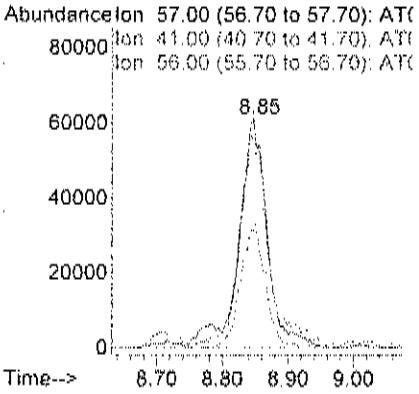


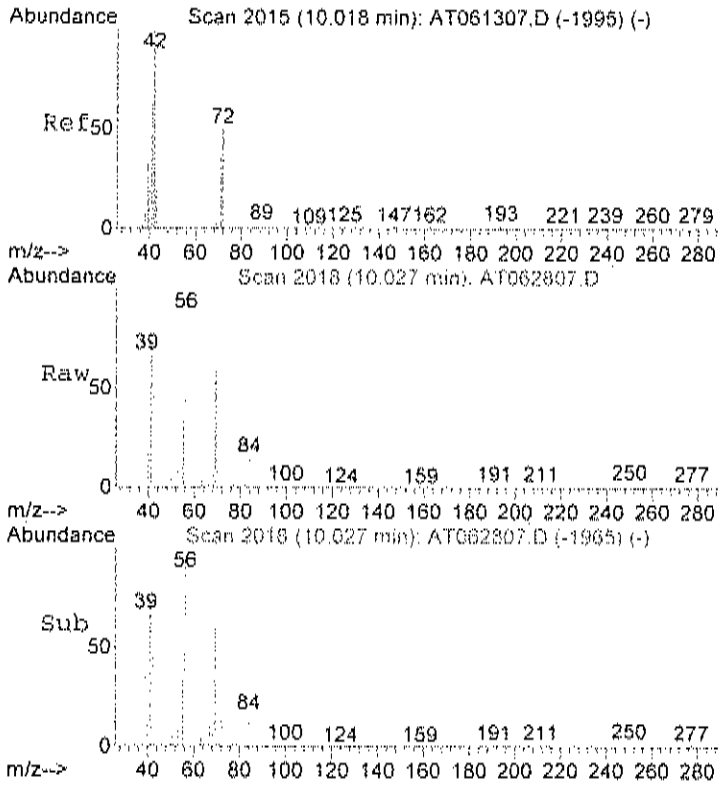


#30
Hexane
Concen: 5.33 ppb
RT: 8.85 min Scan# 1624
Delta R.T. 0.00 min
Lab File: AT062807.D
Acq: 28 Jun 2022 12:53 pm

Tgt Ion: 57 Resp: 184445

Ion	Ratio	Lower	Upper
57	100		
41	88.5	58.1	98.1
56	47.9	28.7	68.7

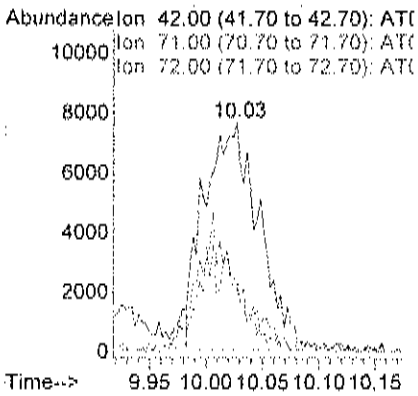


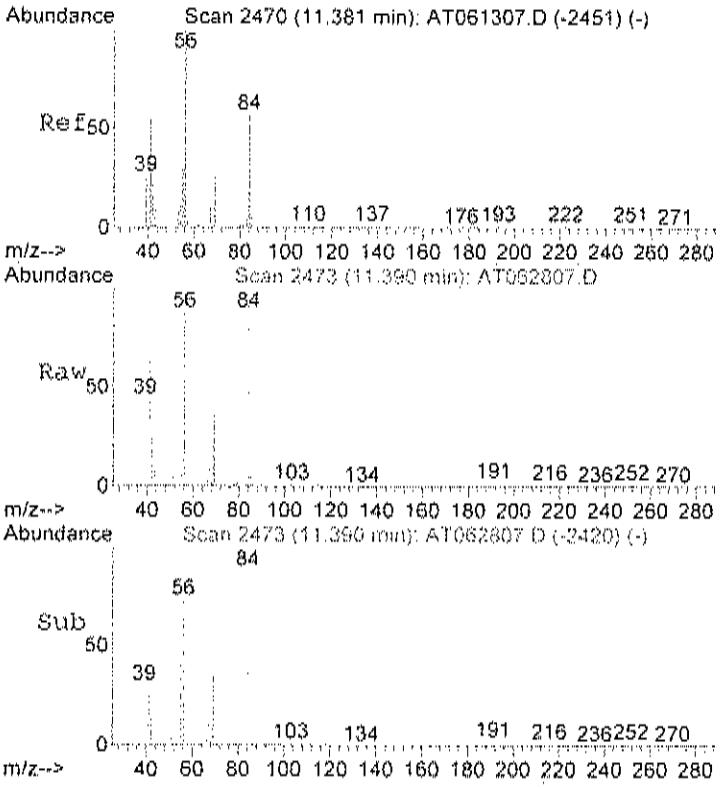


#33
Tetrahydrofuran
Concen: 1.26 ppb
RT: 10.03 min Scan# 2018
Delta R.T. 0.01 min
Lab File: AT062807.D
Acq: 28 Jun 2022 12:53 pm

Tgt Ion: 42 Resp: 25596

Ion	Ratio	Lower	Upper
42	100		
71	37.0	38.0	78.0#
72	41.0	35.0	75.0

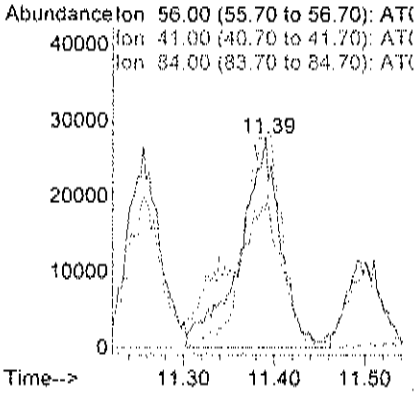


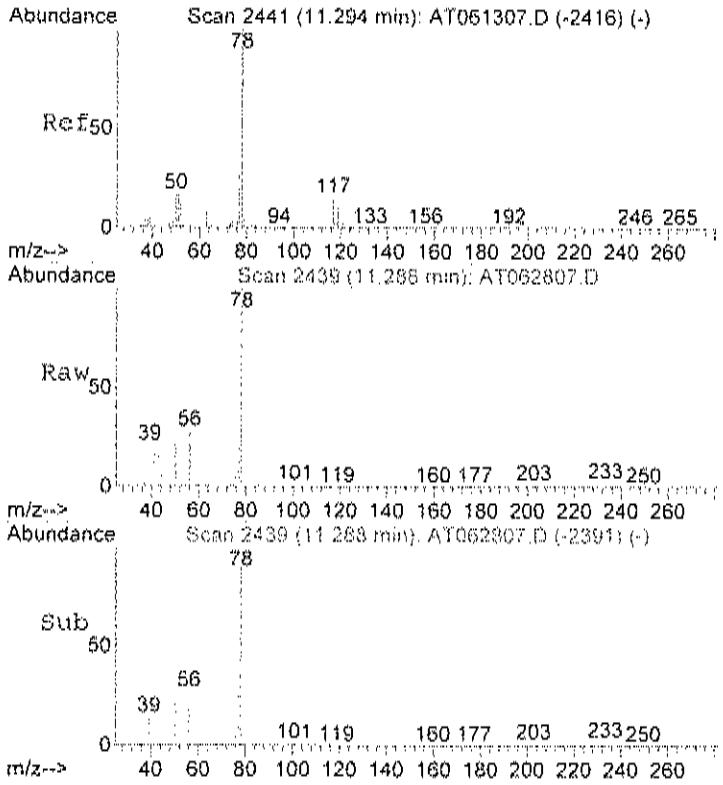


#37
Cyclohexane
Concen: 2.64 ppb m
RT: 11.39 min Scan# 2473
Delta R.T. 0.01 min
Lab File: AT062807.D
Acq: 28 Jun 2022 12:53 pm

Tgt Ion: 56 Resp: 86490

Ion	Ratio	Lower	Upper
56	100		
41	0.0	40.3	80.3#
84	0.0	133.0	173.0#

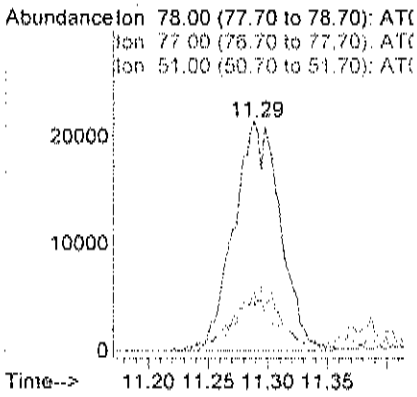


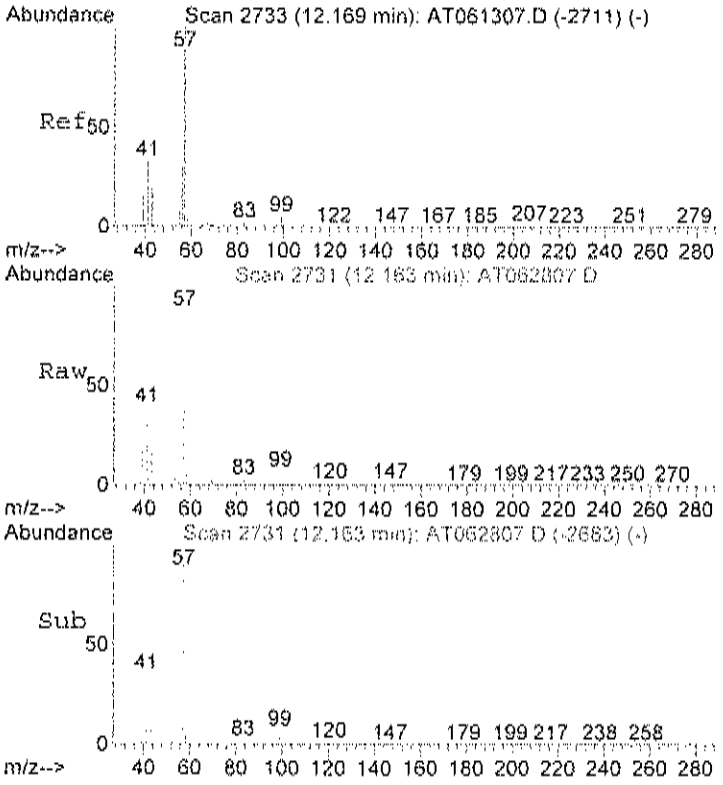


#39
Benzene
Concen: 0.75 ppb m
RT: 11.29 min Scan# 2439
Delta R.T. -0.01 min
Lab File: AT062807.D
Acq: 28 Jun 2022 12:53 pm

Tgt Ion: 78 Resp: 57926

Ion	Ratio	Lower	Upper
78	100		
77	0.0	3.1	43.1#
51	0.0	0.0	37.8

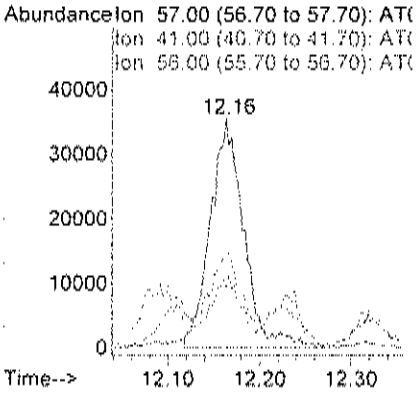


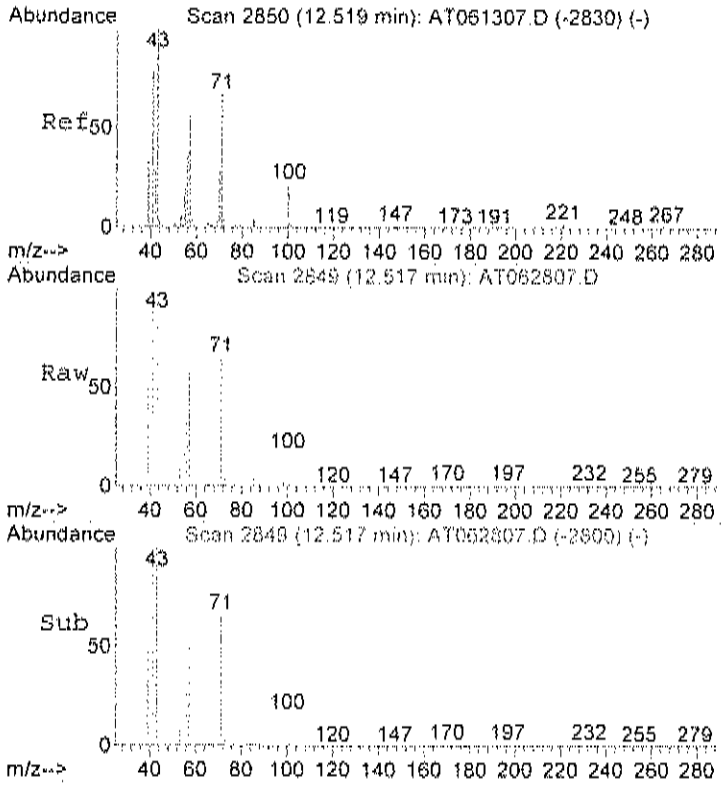


#42
2,2,4-trimethylpentane
Concen: 0.88 ppb
RT: 12.16 min Scan# 2731
Delta R.T. -0.01 min
Lab File: AT062807.D
Acq: 28 Jun 2022 12:53 pm

Tgt Ion: 57 Resp: 89997

Ion	Ratio	Lower	Upper
57	100		
41	92.2	15.3	55.3#
56	65.0	10.1	50.1#

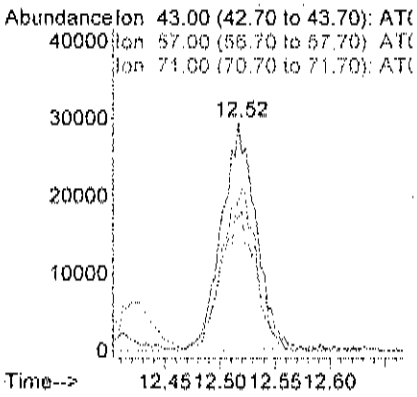


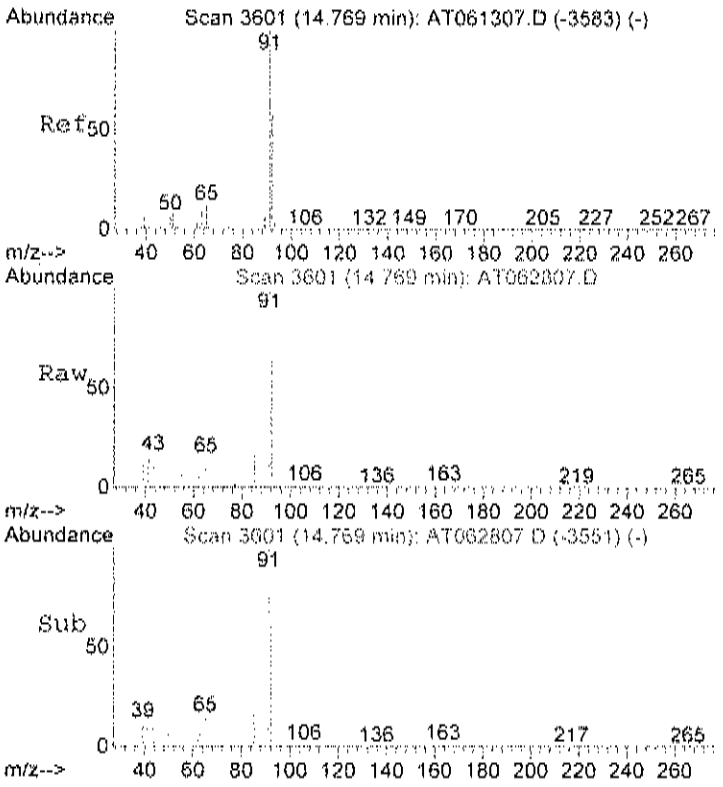


#43
Heptane
Concen: 1.75 ppb
RT: 12.52 min Scan# 2849
Delta R.T. -0.00 min
Lab File: AT062807.D
Acq: 28 Jun 2022 12:53 pm

Tgt Ion: 43 Resp: 63839

Ion	Ratio	Lower	Upper
43	100		
57	63.3	41.7	81.7
71	71.4	53.4	93.4

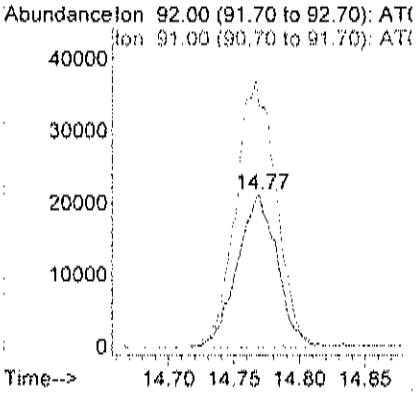


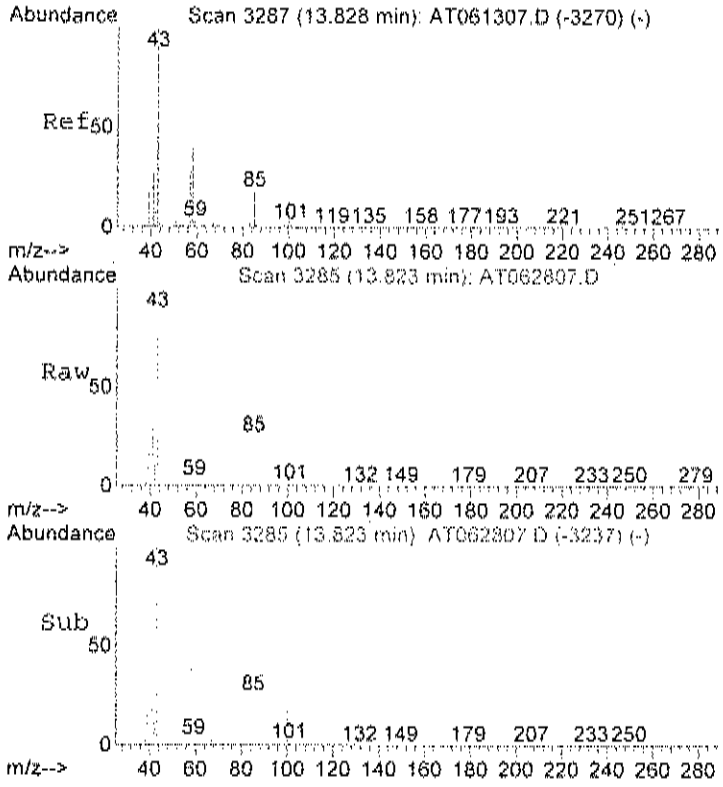


#51
Toluene
Concen: 0.72 ppb
RT: 14.77 min Scan# 3601
Delta R.T. 0.00 min
Lab File: AT062807.D
Acq: 28 Jun 2022 12:53 pm

Tgt Ion: 92 Resp: 44465

Ion	Ratio	Lower	Upper
92	100		
91	177.9	154.4	194.4

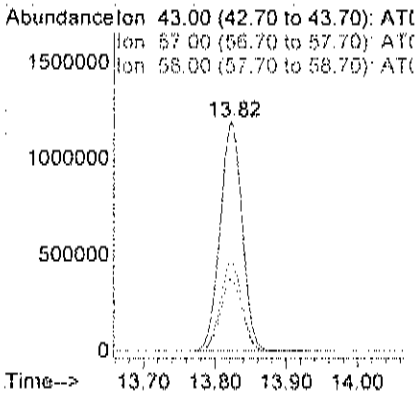


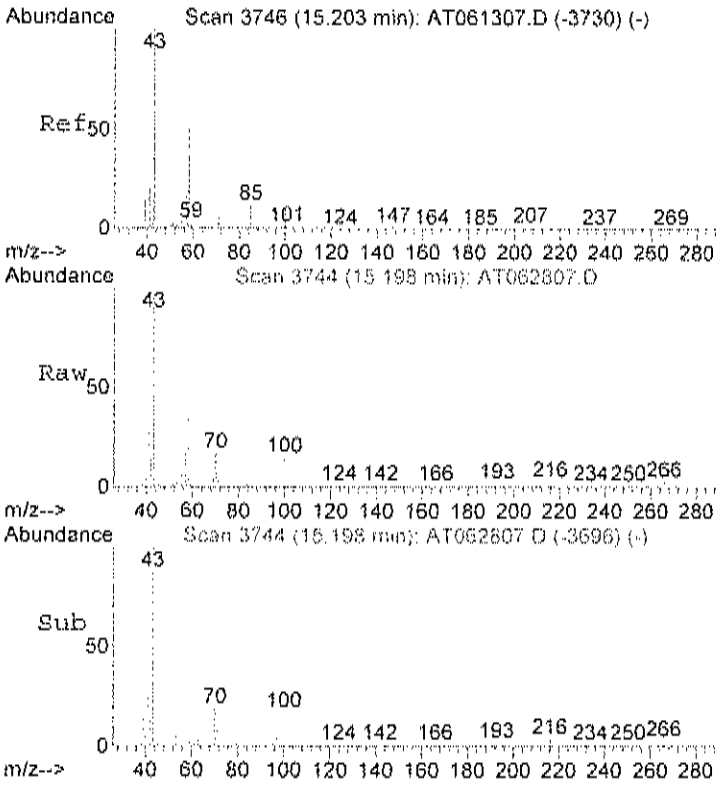


#52
Methyl Isobutyl Ketone
Concen: 46.95 ppb
RT: 13.82 min Scan# 3285
Delta R.T. -0.01 min
Lab File: AT062807.D
Acq: 28 Jun 2022 12:53 pm

Tgt Ion: 43 Resp: 2571504

Ion	Ratio	Lower	Upper
43	100		
57	31.0	9.3	49.3
58	38.7	22.0	62.0

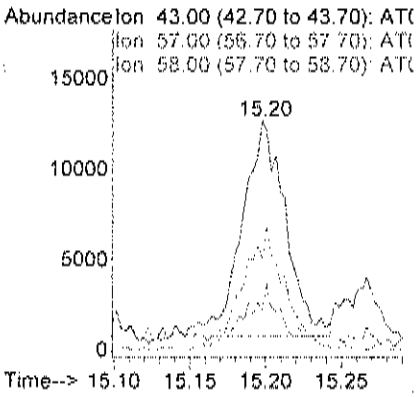


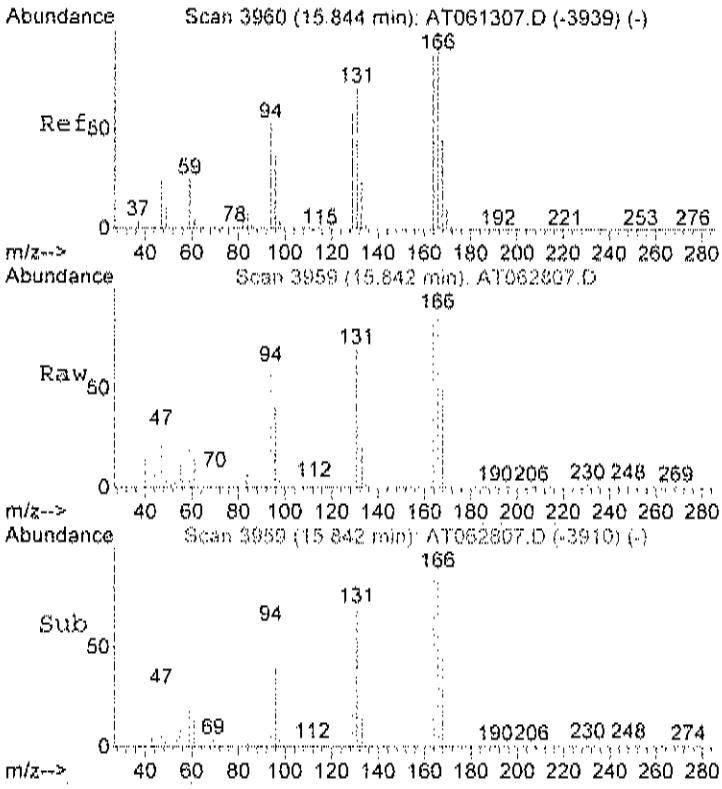


#54
Methyl Butyl Ketone
Concen: 0.48 ppb
RT: 15.20 min Scan# 3744
Delta R.T. -0.01 min
Lab File: AT062807.D
Acq: 28 Jun 2022 12:53 pm

Tgt Ion: 43 Resp: 23865

Ion	Ratio	Lower	Upper
43	100		
57	48.6	0.9	40.9#
58	53.7	33.3	73.3

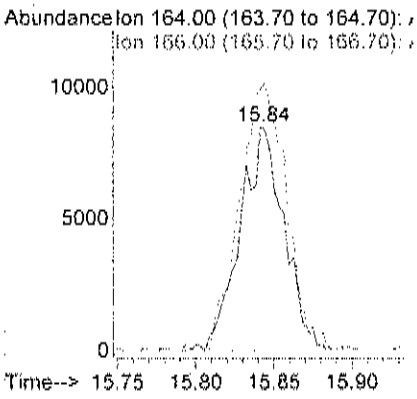


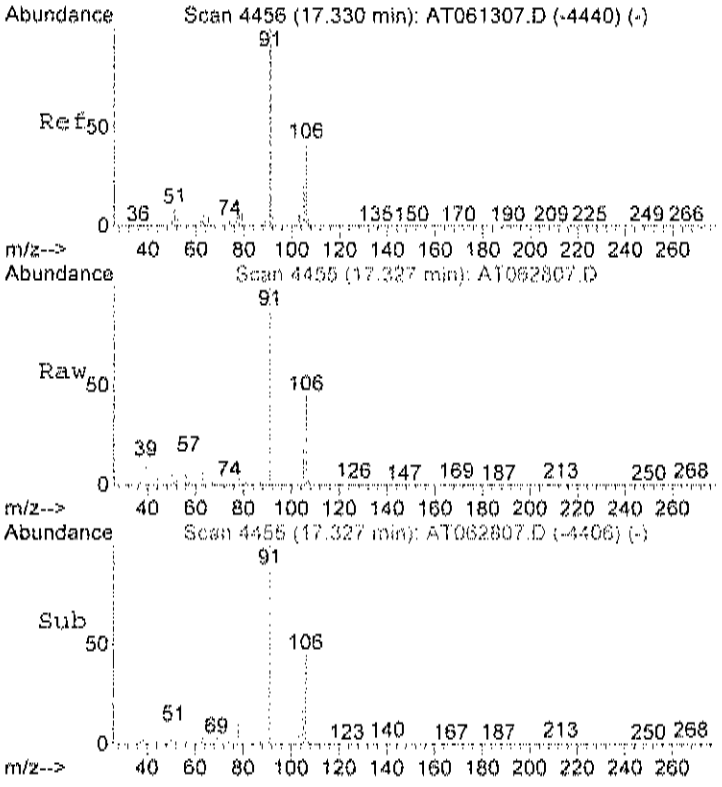


#56
Tetrachloroethylene
Concen: 0.35 ppb
RT: 15.84 min Scan# 3959
Delta R.T. -0.00 min
Lab File: AT062807.D
Acq: 28 Jun 2022 12:53 pm

Tgt Ion:164 Resp: 16408

Ion	Ratio	Lower	Upper
164	100		
166	128.9	107.7	147.7

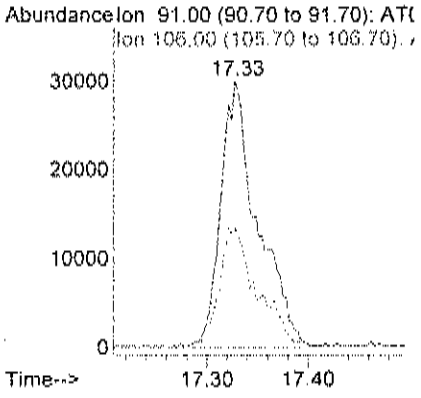


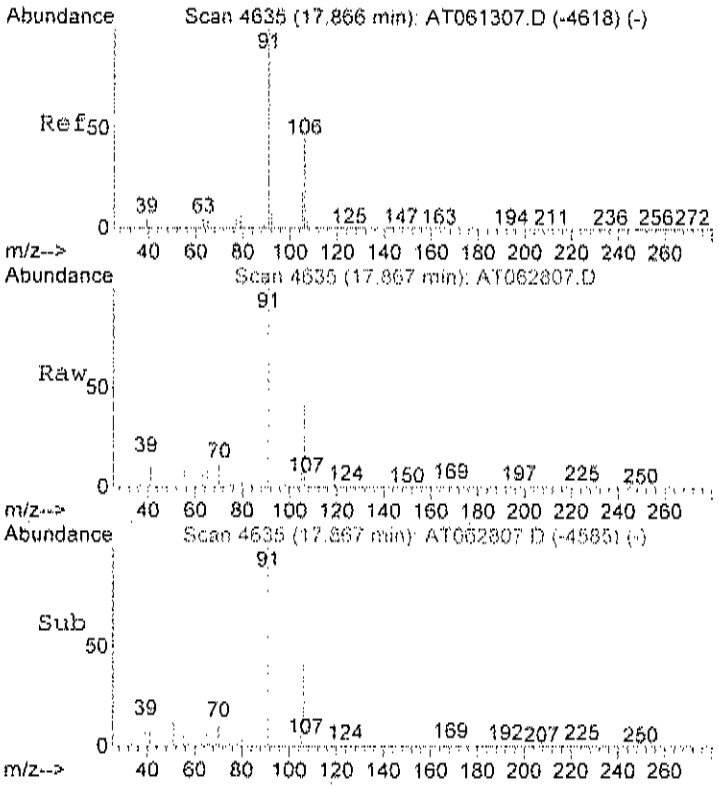


#59
m&p-xylene
Concen: 0.65 ppb
RT: 17.33 min Scan# 4455
Delta R.T. -0.00 min
Lab File: AT062807.D
Acq: 28 Jun 2022 12:53 pm

Tgt Ion: 91 Resp: 75740

Ion	Ratio	Lower	Upper
91	100		
106	46.1	27.9	67.9

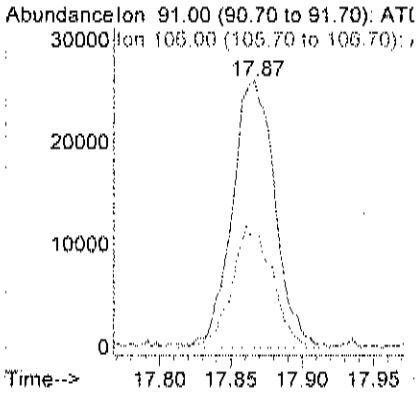


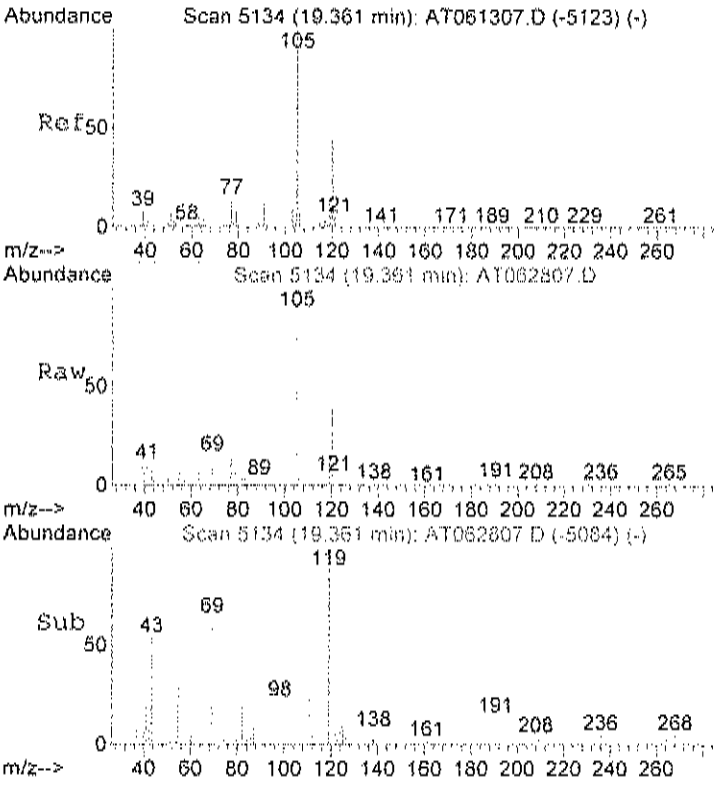


#63
o-xylene
Concen: 0.44 ppb
RT: 17.87 min Scan# 4635
Delta R.T. 0.00 min
Lab File: AT062807.D
Acq: 28 Jun 2022 12:53 pm

Tgt Ion: 91 Resp: 54288

Ion	Ratio	Lower	Upper
91	100		
106	43.0	25.1	65.1

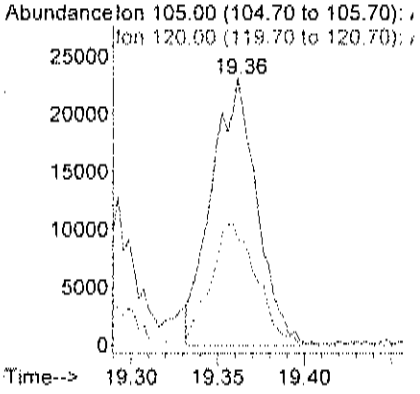


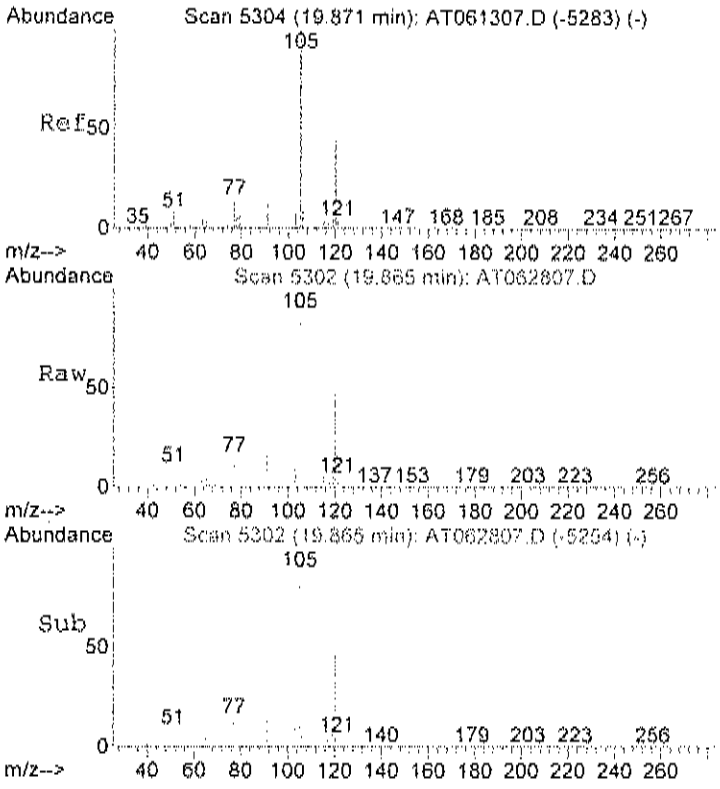


#70
1,3,5-trimethylbenzene
Concen: 0.30 ppb
RT: 19.36 min Scan# 5134
Delta R.T. 0.00 min
Lab File: AT062807.D
Acq: 28 Jun 2022 12:53 pm

Tgt Ion:105 Resp: 42318

Ion	Ratio	Lower	Upper
105	100		
120	46.8	26.2	66.2

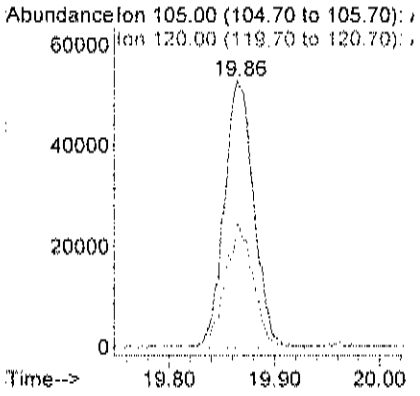


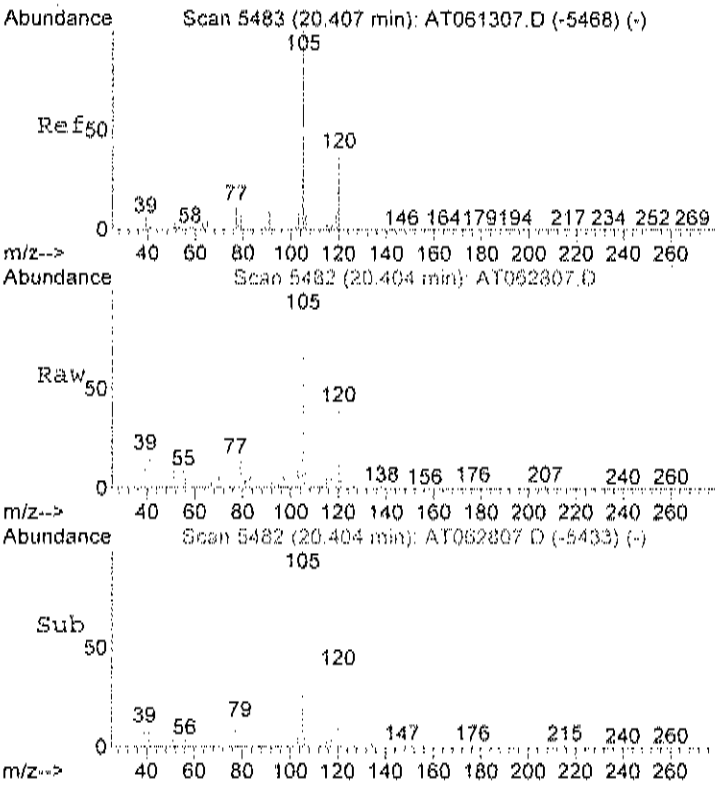


#71
1,2,4-trimethylbenzene
Concen: 0.74 ppb
RT: 19.86 min Scan# 5302
Delta R.T. -0.01 min
Lab File: AT062807.D
Acq: 28 Jun 2022 12:53 pm

Tgt Ion:105 Resp: 103493

Ion	Ratio	Lower	Upper
105	100		
120	43.7	23.8	63.8

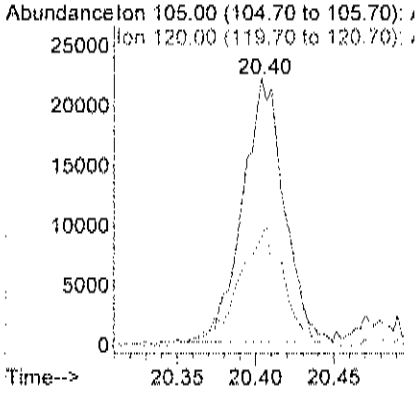




#75
1,2,3-trimethylbenzene
Concen: 0.29 ppb
RT: 20.40 min Scan# 5482
Delta R.T. -0.00 min
Lab File: AT062807.D
Acq: 28 Jun 2022 12:53 pm

Tgt Ion:105 Resp: 40976

Ion	Ratio	Lower	Upper
105	100		
120	48.7	30.7	51.1



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062808.D Vial: 8
Acq On : 28 Jun 2022 1:35 pm Operator: RJP
Sample : C2206048-015A 40X Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 29 07:09:54 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

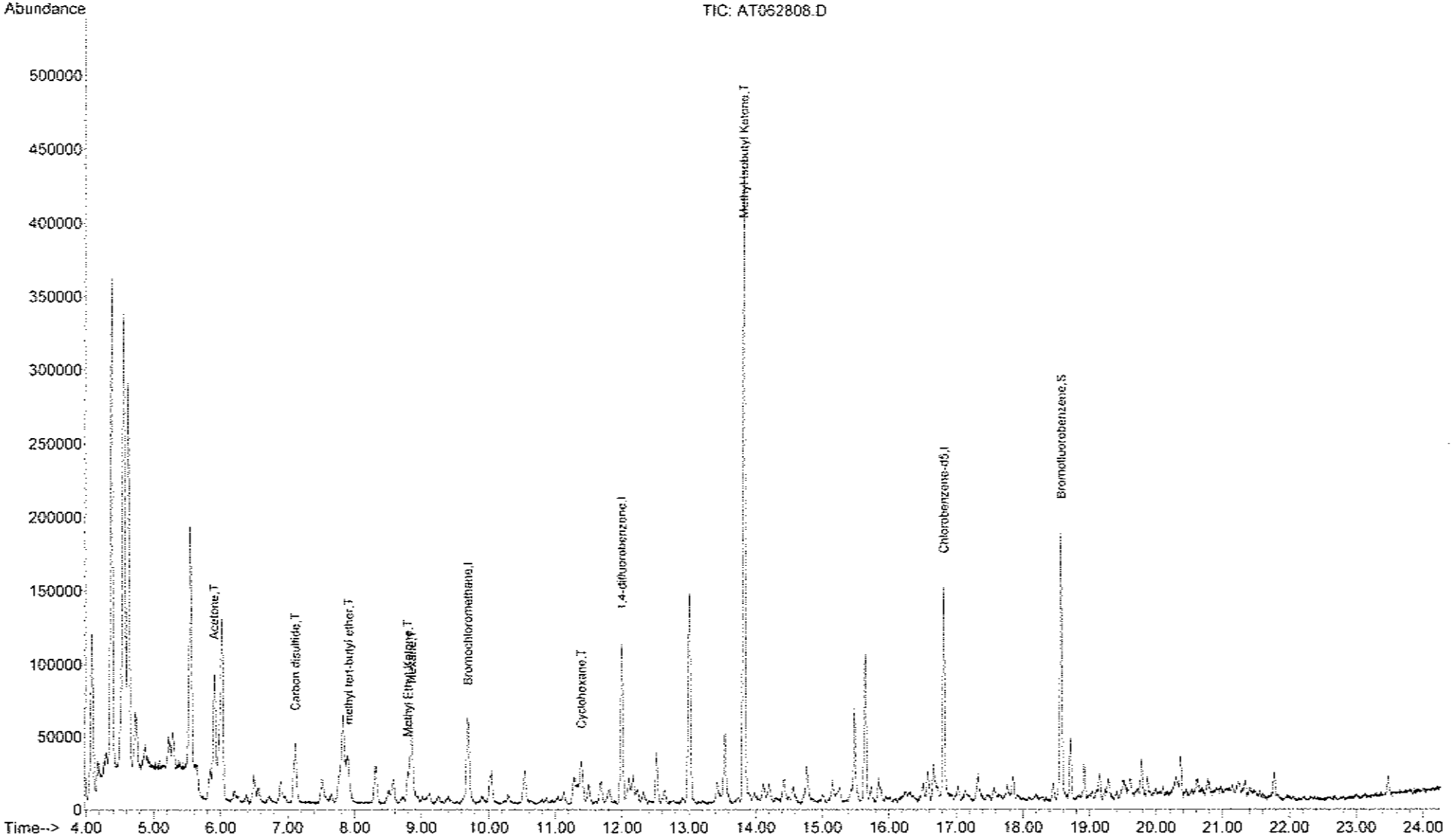
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.69	128	24042	1.00	ppb		0.00
35) 1,4-difluorobenzene	12.00	114	104988	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	93504	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.56	95	64047	0.95	ppb		-0.05
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%				
Target Compounds							Qvalue
15) Acetone	5.90	58	39514m A	2.83	ppb		
23) Carbon disulfide	7.11	76	83779	0.92	ppb		99
25) methyl tert-butyl ether	7.91	73	33828	0.50	ppb	#	59
28) Methyl Ethyl Ketone	8.80	72	9495	0.80	ppb	#	100
30) Hexane	8.85	57	33118	0.93	ppb	#	81
37) Cyclohexane	11.38	56	17143m B	0.54	ppb		
52) Methyl Isobutyl Ketone	13.82	43	307064	6.22	ppb		95

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

Quantitation Report (QT Reviewed)

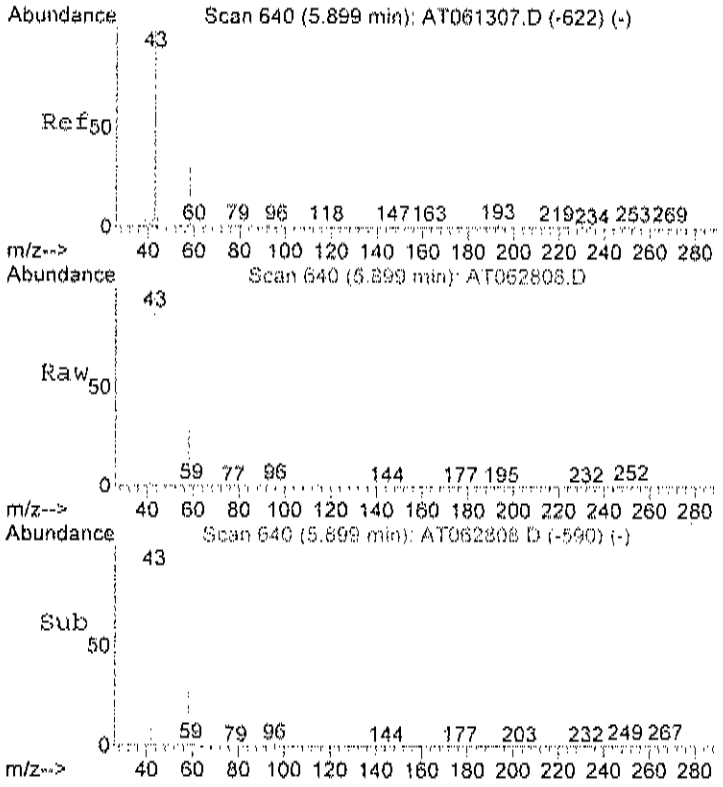
Data File : C:\HPCHEM\1\DATA\AT062808.D Vial: 8
Acq On : 28 Jun 2022 1:35 pm Operator: RJP
Sample : C2206048-015A 40X Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 8:00 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



AT062808.D A613_1UG.M Thu Jul 07 07:40:17 2022 MSD1 Page 2

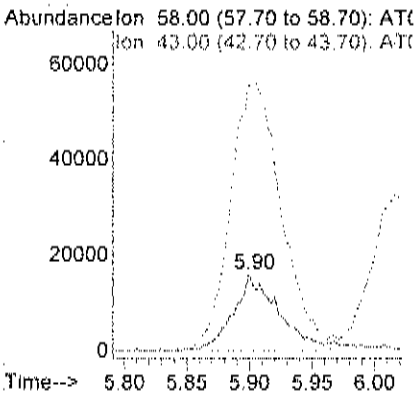
Centek/SanAir Laboratories

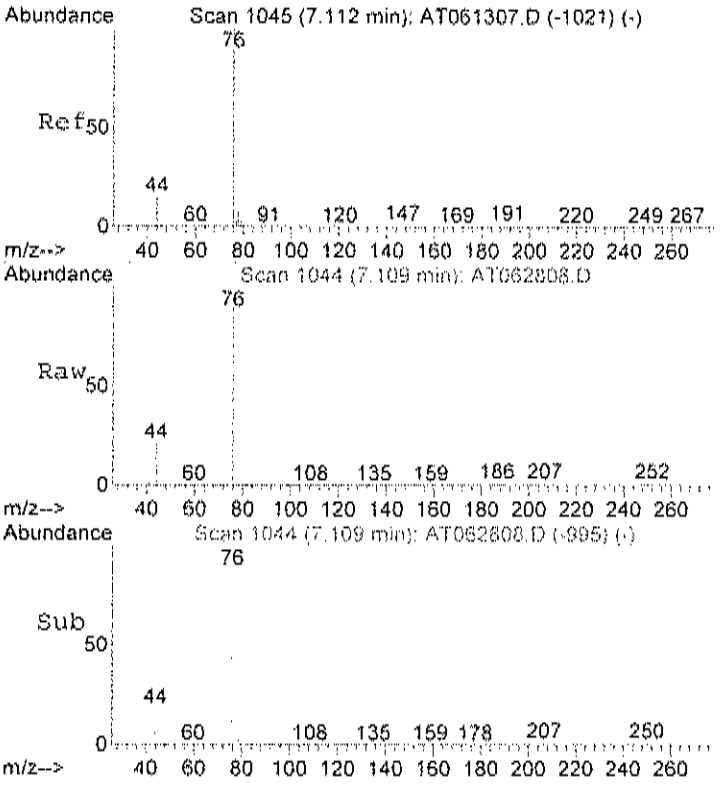


#15
Acetone
Concen: 2.83 ppb m
RT: 5.90 min Scan# 640
Delta R.T. 0.00 min
Lab File: AT062808.D
Acq: 28 Jun 2022 1:35 pm

Tgt Ion: 58 Resp: 39514

Ion	Ratio	Lower	Upper
58	100		
43	407.3	268.9	328.9#

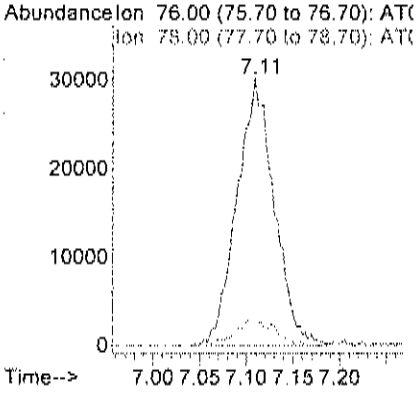


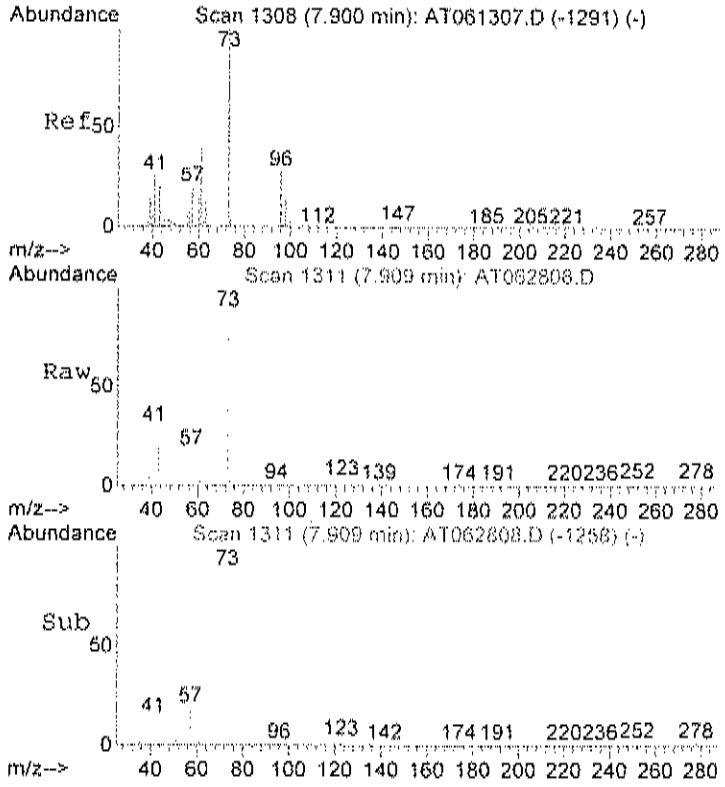


#23
Carbon disulfide
Concen: 0.92 ppb
RT: 7.11 min Scan# 1044
Delta R.T. -0.00 min
Lab File: AT062808.D
Acq: 28 Jun 2022 1:35 pm

Tgt Ion: 76 Resp: 83779

Ion	Ratio	Lower	Upper
76	100		
78	10.1	0.0	29.7

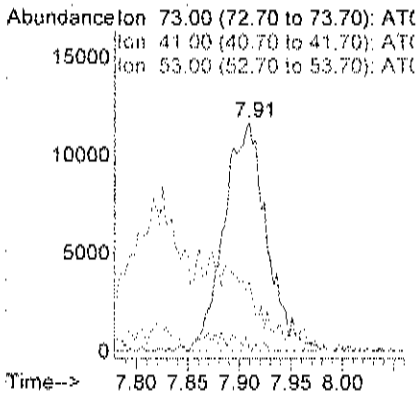


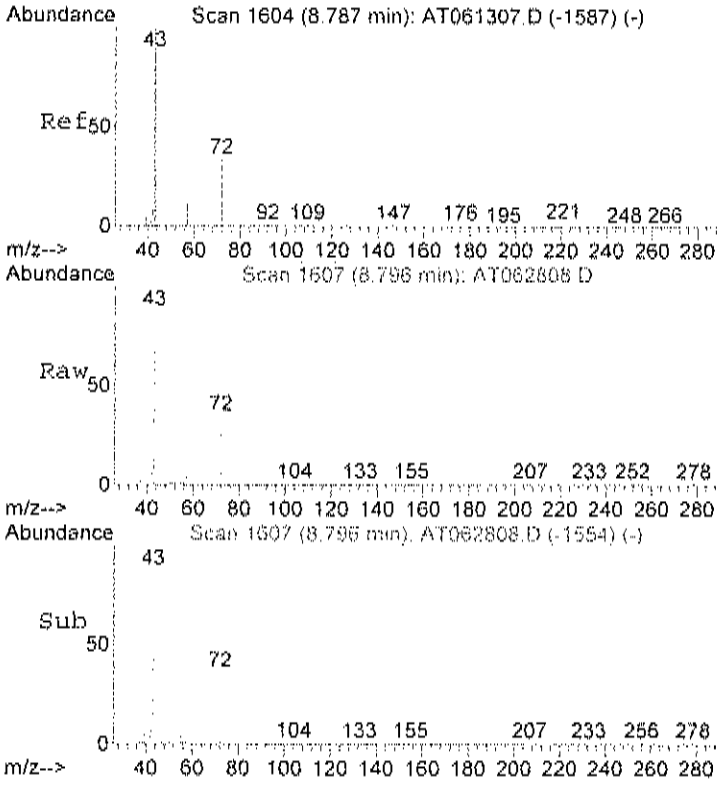


#25
methyl tert-butyl ether
Concen: 0.50 ppb
RT: 7.91 min Scan# 1311
Delta R.T. 0.01 min
Lab File: AT062808.D
Acq: 28 Jun 2022 1:35 pm

Tgt Ion: 73 Resp: 33828

Ion	Ratio	Lower	Upper
73	100		
41	0.0	0.0	39.9
53	0.8	0.0	21.4

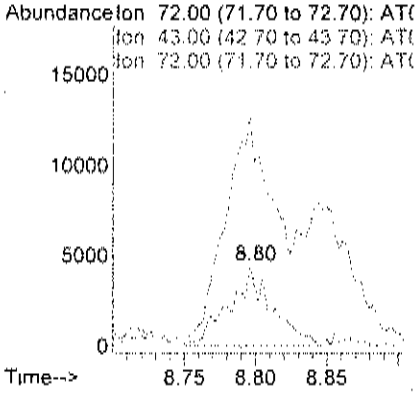


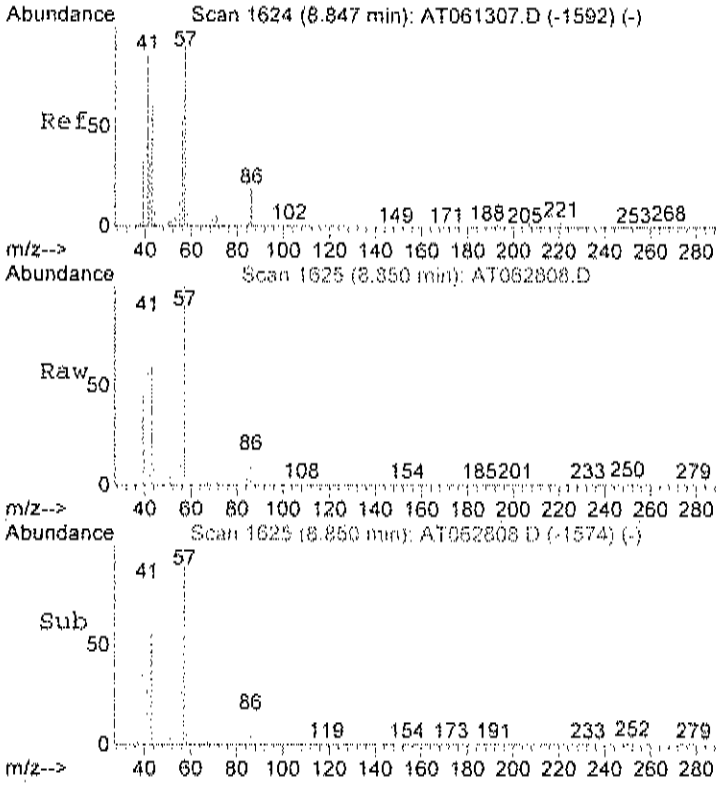


#28
Methyl Ethyl Ketone
Concen: 0.80 ppb
RT: 8.80 min Scan# 1607
Delta R.T. 0.01 min
Lab File: AT062808.D
Acq: 28 Jun 2022 1:35 pm

Tgt Ion: 72 Resp: 9495

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

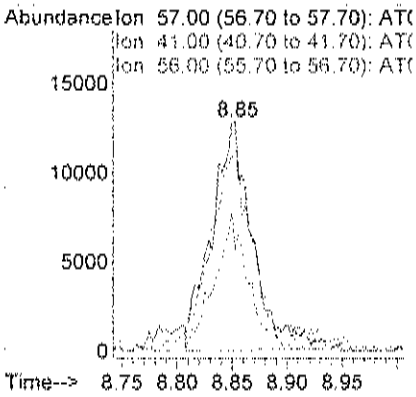


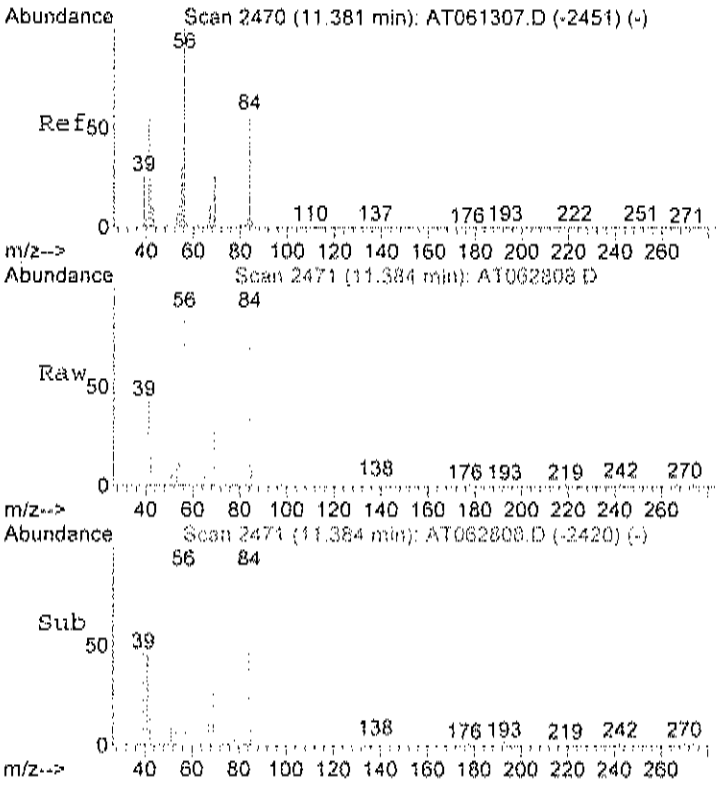


#30
Hexane
Concen: 0.93 ppb
RT: 8.85 min Scan# 1625
Delta R.T. 0.00 min
Lab File: AT062808.D
Acq: 28 Jun 2022 1:35 pm

Tgt Ion: 57 Resp: 33118

Ion	Ratio	Lower	Upper
57	100		
41	102.7	58.1	98.1#
56	50.7	28.7	68.7

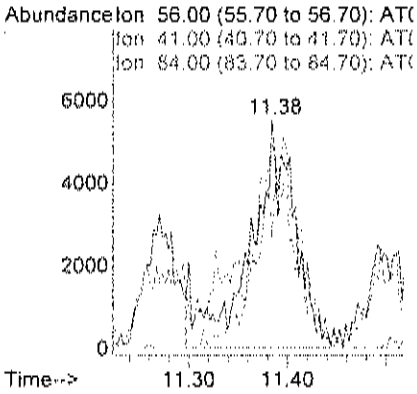


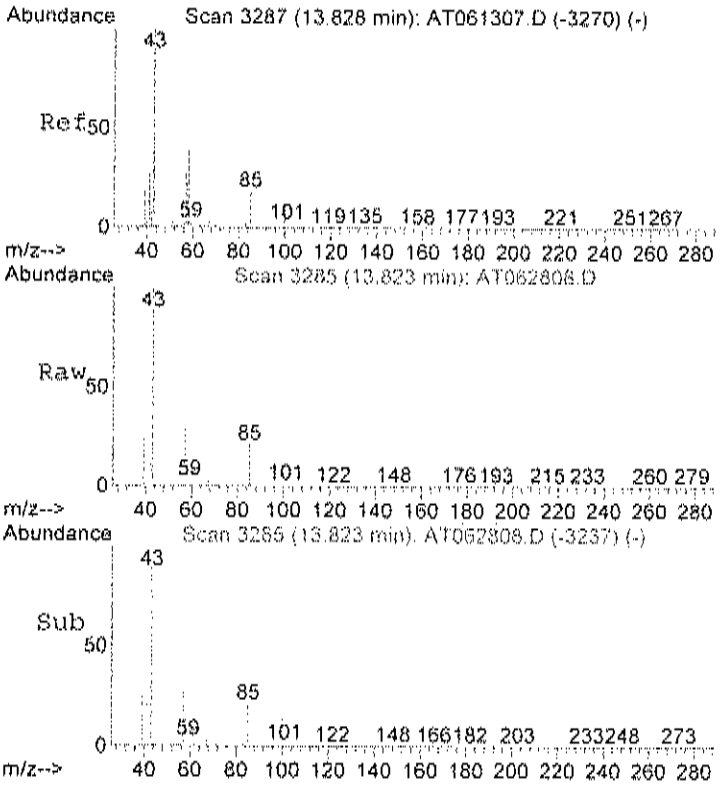


#37
Cyclohexane
Concen: 0.54 ppb m
RT: 11.38 min Scan# 2471
Delta R.T. 0.00 min
Lab File: AT062808.D
Acq: 28 Jun 2022 1:35 pm

Tgt Ion: 56 Resp: 17143

Ion	Ratio	Lower	Upper
56	100		
41	59.3	40.3	80.3
84	83.2	133.0	173.0#

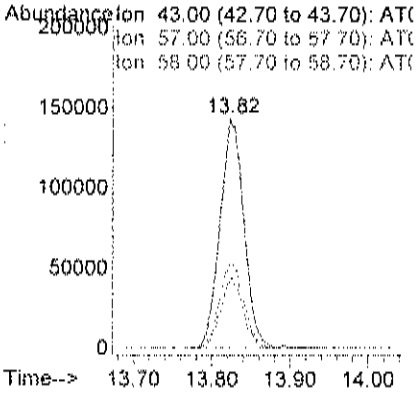




#52
Methyl Isobutyl Ketone
Concen: 6.22 ppb
RT: 13.82 min Scan# 3285
Delta R.T. -0.01 min
Lab File: AT062808.D
Acq: 28 Jun 2022 1:35 pm

Tgt Ion: 43 Resp: 307064

Ion	Ratio	Lower	Upper
43	100		
57	28.9	9.3	49.3
58	37.4	22.0	62.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062913.D Vial: 13
Acq On : 29 Jun 2022 6:39 pm Operator: RJP
Sample : C2206048-015A 810X Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 07:33:19 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

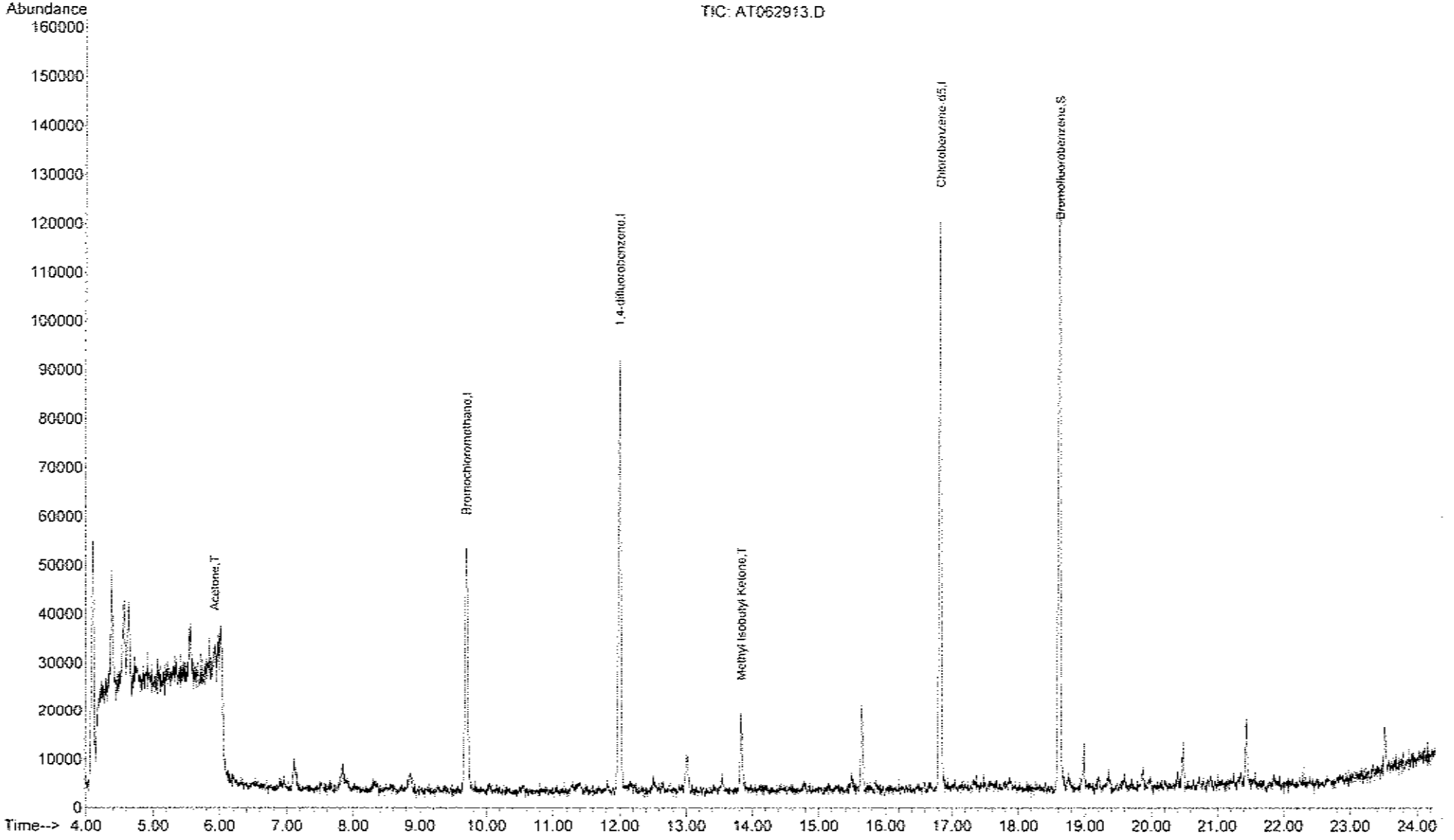
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.69	128	22109	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.00	114	89234	1.00	ppb	0.00
50) Chlorobenzene-d5	16.82	117	78967	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.62	95	45938	0.80	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 80.00%			
Target Compounds						Qvalue
15) Acetone	5.91	58	4520m M	0.35	ppb	
52) Methyl Isobutyl Ketone	13.83	43	9556	0.23	ppb	96

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

Quantitation Report (QT Reviewed)

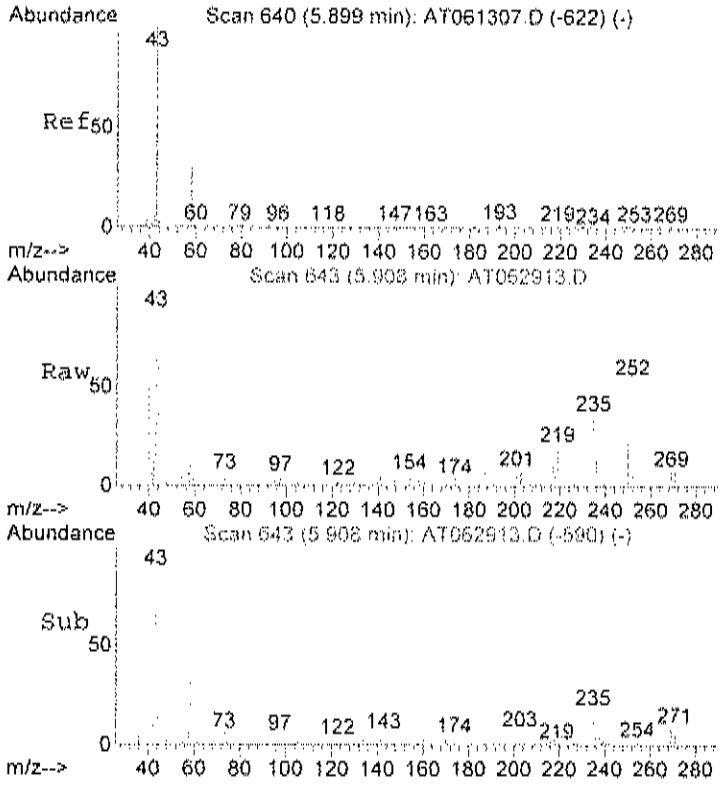
Data File : C:\HPCHEM\1\DATA\AT062913.D Vial: 13
Acq On : 29 Jun 2022 6:39 pm Operator: RJP
Sample : C2206048-015A 810X Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 8:01 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



AT062913.D A613_1UG.M Thu Jul 07 07:41:24 2022 MSD1 Page 2

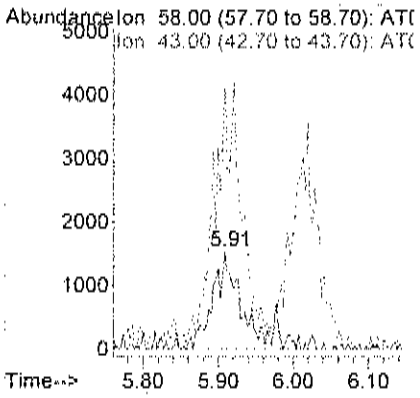
Centek/SanAir Laboratories

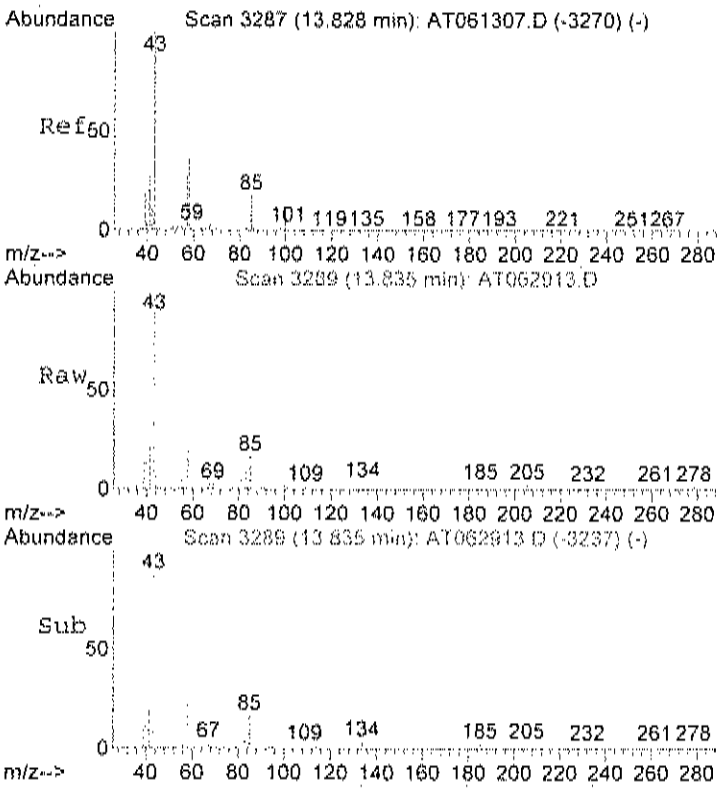


#15
Acetone
Concen: 0.35 ppb m
RT: 5.91 min Scan# 643
Delta R.T. 0.01 min
Lab File: AT062913.D
Acq: 29 Jun 2022 6:39 pm

Tgt Ion: 58 Resp: 4520

Ion	Ratio	Lower	Upper
58	100		
43	196.1	268.9	328.9#

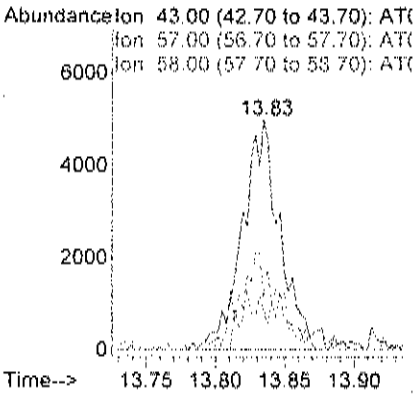




#52
Methyl Isobutyl Ketone
Concen: 0.23 ppb
RT: 13.83 min Scan# 3289
Delta R.T. 0.01 min
Lab File: AT062913.D
Acq: 29 Jun 2022 6:39 pm

Tgt Ion: 43 Resp: 9556

Ion	Ratio	Lower	Upper
43	100		
57	24.9	9.3	49.3
58	41.3	22.0	62.0



Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-016A

Client Sample ID: SVW-15
Tag Number: 465,109
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-1			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: **NP**
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
1,1,1-Trichloroethane	0.18	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,2,4-Trimethylbenzene	0.28	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,3,5-Trimethylbenzene	0.25	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,3-Dichlorobenzene	0.46	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/25/2022 5:26:00 AM
2,2,4-trimethylpentane	0.21	0.15		ppbV	1	6/25/2022 5:26:00 AM
4-ethyltoluene	0.10	0.15	J	ppbV	1	6/25/2022 5:26:00 AM
Acetone	24	12		ppbV	40	6/29/2022 8:04:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Benzene	0.25	0.15		ppbV	1	6/25/2022 5:26:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Bromoform	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Carbon disulfide	4.3	1.5		ppbV	10	6/29/2022 7:22:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Chloroform	5.5	1.5		ppbV	10	6/29/2022 7:22:00 PM
Chloromethane	0.62	0.15		ppbV	1	6/25/2022 5:26:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Cyclohexane	1.1	0.15		ppbV	1	6/25/2022 5:26:00 AM

Qualifiers:

- `*` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte, Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	SVW-15
Lab Order:	C2206048	**Tag Number:**	465,109
Project:	IKEA Red Hook	**Collection Date:**	6/21/2022
Lab ID:	C2206048-016A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Ethyl acetate	0.43	0.15		ppbV	1	6/25/2022 5:26:00 AM
Ethylbenzene	0.12	0.15	J	ppbV	1	6/25/2022 5:26:00 AM
Freon 11	4.1	1.5		ppbV	10	6/29/2022 7:22:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Freon 114	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Freon 12	0.53	0.15		ppbV	1	6/25/2022 5:26:00 AM
Heptane	0.91	0.15		ppbV	1	6/25/2022 5:26:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Hexane	2.2	1.5		ppbV	10	6/29/2022 7:22:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
m&p-Xylene	0.53	0.30		ppbV	1	6/25/2022 5:26:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/25/2022 5:26:00 AM
Methyl Ethyl Ketone	1.3	0.30		ppbV	1	6/25/2022 5:26:00 AM
Methyl Isobutyl Ketone	0.92	0.30		ppbV	1	6/25/2022 5:26:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Methylene chloride	2.9	1.5		ppbV	10	6/29/2022 7:22:00 PM
o-Xylene	0.18	0.15		ppbV	1	6/25/2022 5:26:00 AM
Propylene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Styrene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Tetrachloroethylene	2.9	1.5		ppbV	10	6/29/2022 7:22:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Toluene	0.85	0.15		ppbV	1	6/25/2022 5:26:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 5:26:00 AM
Surr: Bromofluorobenzene	97.0	46.7-129		%REC	1	6/25/2022 5:26:00 AM

Qualifiers:

*	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-016A

Client Sample ID: SVW-15
Tag Number: 465,109
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.98	0.82		ug/m3	1	6/25/2022 5:26:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/25/2022 5:26:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 5:26:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 5:26:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 5:26:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/25/2022 5:26:00 AM
1,2,4-Trimethylbenzene	1.4	0.74		ug/m3	1	6/25/2022 5:26:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/25/2022 5:26:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 5:26:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 5:26:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/25/2022 5:26:00 AM
1,3,5-Trimethylbenzene	1.2	0.74		ug/m3	1	6/25/2022 5:26:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/25/2022 5:26:00 AM
1,3-Dichlorobenzene	2.8	0.90		ug/m3	1	6/25/2022 5:26:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 5:26:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/25/2022 5:26:00 AM
2,2,4-trimethylpentane	0.98	0.70		ug/m3	1	6/25/2022 5:26:00 AM
4-ethyltoluene	0.49	0.74	J	ug/m3	1	6/25/2022 5:26:00 AM
Acetone	57	28		ug/m3	40	6/29/2022 8:04:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/25/2022 5:26:00 AM
Benzene	0.80	0.48		ug/m3	1	6/25/2022 5:26:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/25/2022 5:26:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/25/2022 5:26:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/25/2022 5:26:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/25/2022 5:26:00 AM
Carbon disulfide	13	4.7		ug/m3	10	6/29/2022 7:22:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/25/2022 5:26:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/25/2022 5:26:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	6/25/2022 5:26:00 AM
Chloroform	27	7.3		ug/m3	10	6/29/2022 7:22:00 PM
Chloromethane	1.3	0.31		ug/m3	1	6/25/2022 5:26:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 5:26:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 5:26:00 AM
Cyclohexane	3.7	0.52		ug/m3	1	6/25/2022 5:26:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/25/2022 5:26:00 AM
Ethyl acetate	1.5	0.54		ug/m3	1	6/25/2022 5:26:00 AM
Ethylbenzene	0.52	0.65	J	ug/m3	1	6/25/2022 5:26:00 AM
Freon 11	23	8.4		ug/m3	10	6/29/2022 7:22:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/25/2022 5:26:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/25/2022 5:26:00 AM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-016A

Client Sample ID: SVW-15
Tag Number: 465,109
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.6	0.74		ug/m3	1	6/25/2022 5:26:00 AM
Heptane	3.7	0.61		ug/m3	1	6/25/2022 5:26:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/25/2022 5:26:00 AM
Hexane	7.8	5.3		ug/m3	10	6/29/2022 7:22:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/25/2022 5:26:00 AM
m&p-Xylene	2.3	1.3		ug/m3	1	6/25/2022 5:26:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/25/2022 5:26:00 AM
Methyl Ethyl Ketone	3.8	0.88		ug/m3	1	6/25/2022 5:26:00 AM
Methyl Isobutyl Ketone	3.8	1.2		ug/m3	1	6/25/2022 5:26:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/25/2022 5:26:00 AM
Methylene chloride	10	5.2		ug/m3	10	6/29/2022 7:22:00 PM
o-Xylene	0.78	0.65		ug/m3	1	6/25/2022 5:26:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/25/2022 5:26:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/25/2022 5:26:00 AM
Tetrachloroethylene	20	10		ug/m3	10	6/29/2022 7:22:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/25/2022 5:26:00 AM
Toluene	3.2	0.57		ug/m3	1	6/25/2022 5:26:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 5:26:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 5:26:00 AM
Trichloroethene	< 0.81	0.81		ug/m3	1	6/25/2022 5:26:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/25/2022 5:26:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/25/2022 5:26:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/25/2022 5:26:00 AM

Qualifiers:

- `*` Results reported are not Blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062426.D Vial: 25
Acq On : 25 Jun 2022 5:26 am Operator: RJP
Sample : C2206048-016A Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 27 11:12:41 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

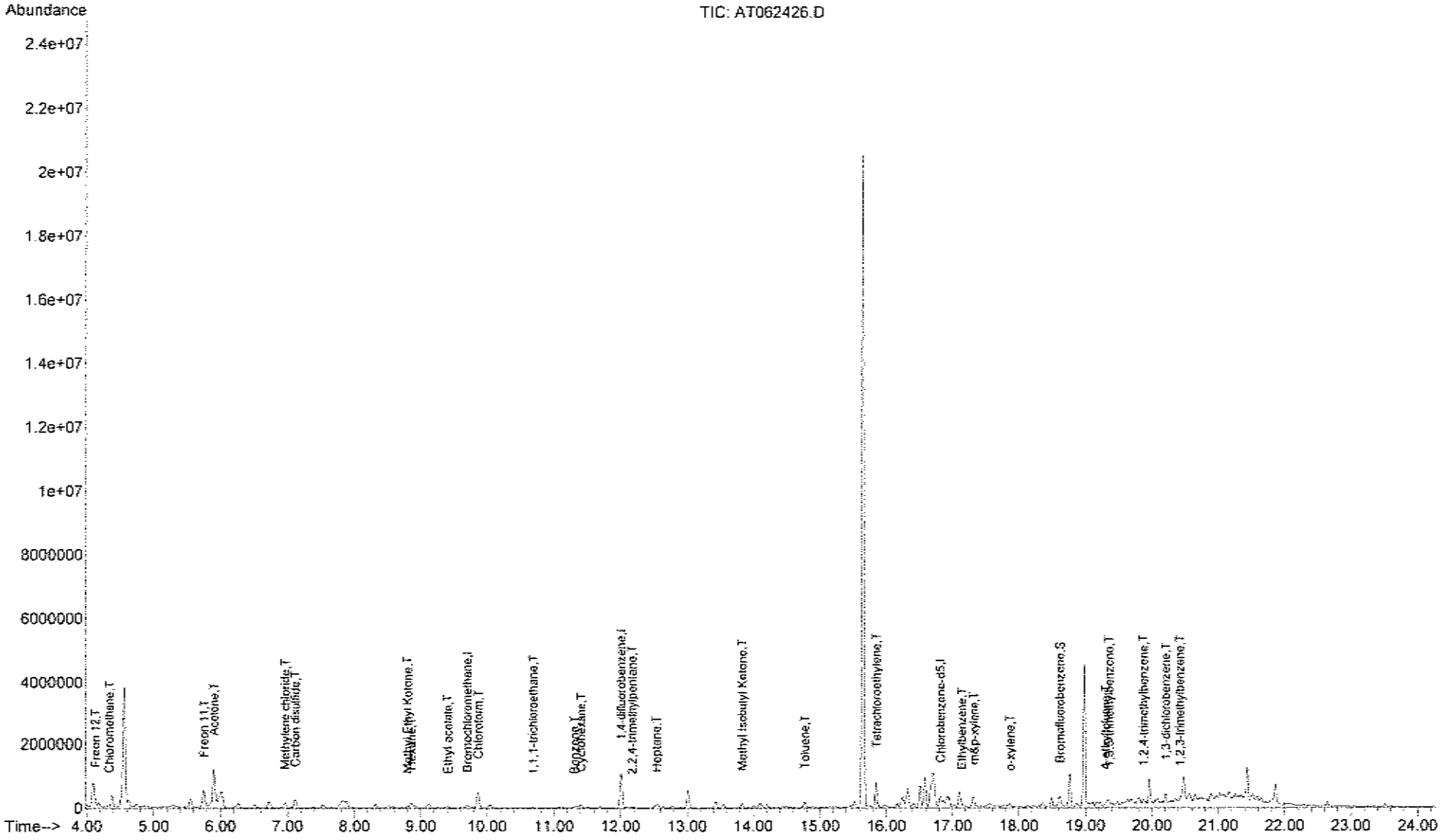
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.71	128	39642	1.00	ppb		0.02
35) 1,4-difluorobenzene	12.00	114	186106	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	171452	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	121134	0.97	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97.00%				
Target Compounds							Qvalue
3) Freon 12	4.14	85	96327	0.53	ppb		100
4) Chloromethane	4.33	50	27736	0.62	ppb		99
14) Freon 11	5.75	101	634223	2.81	ppb		99
15) Acetone	5.90	58	680705	29.53	ppb	#	76
21) Methylene chloride	6.96	84	124470	2.47	ppb		96
23) Carbon disulfide	7.12	76	535925	3.58	ppb		99
28) Methyl Ethyl Ketone	8.81	72	25431	1.30	ppb	#	100
30) Hexane	8.86	57	127478	2.17	ppb	#	78
31) Ethyl acetate	9.41	43	40125	0.43	ppb		96
32) Chloroform	9.87	83	592590	4.77	ppb		99
36) 1,1,1-trichloroethane	10.68	97	21023	0.18	ppb		98
37) Cyclohexane	11.40	56	60111	1.07	ppb	#	43
39) Benzene	11.31	78	33381	0.25	ppb		93
42) 2,2,4-trimethylpentane	12.17	57	36606	0.21	ppb	#	42
43) Heptane	12.53	43	57212	0.91	ppb	#	58
51) Toluene	14.77	92	86308	0.85	ppb		99
52) Methyl Isobutyl Ketone	13.83	43	82938	0.92	ppb		95
56) Tetrachloroethylene	15.85	164	198286	2.53	ppb		99
58) Ethylbenzene	17.15	91	28427	0.12	ppb		95
59) m&p-xylene	17.33	91	101691	0.53	ppb		77
63) o-xylene	17.87	91	37253	0.18	ppb		95
69) 4-ethyltoluene	19.29	105	27573m	0.10	ppb		
70) 1,3,5-trimethylbenzene	19.36	105	58070m	0.25	ppb		
71) 1,2,4-trimethylbenzene	19.88	105	64223	0.28	ppb		96
72) 1,3-dichlorobenzene	20.21	146	68812	0.46	ppb	#	85
75) 1,2,3-trimethylbenzene	20.41	105	35905	0.15	ppb		95

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

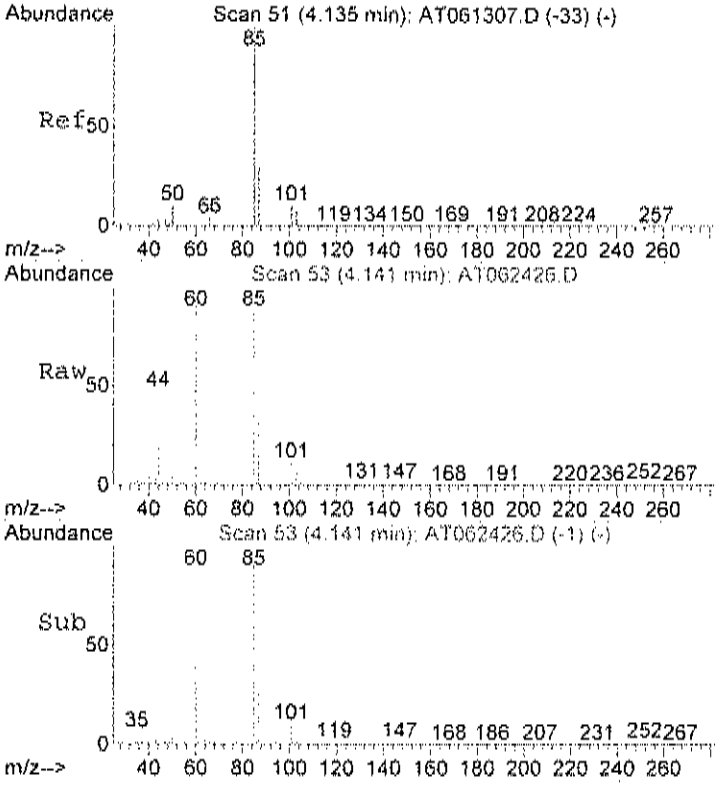
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062426.D Vial: 25
Acq On : 25 Jun 2022 5:26 am Operator: RJP
Sample : C2206048-016A Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 15:25 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



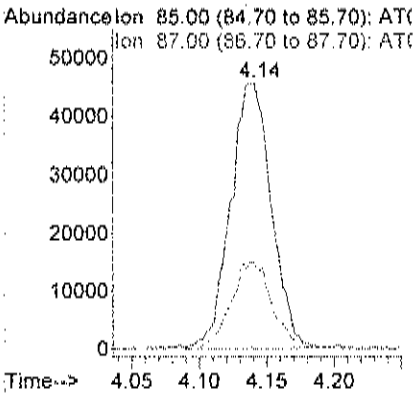
Centek/SanAir Laboratories

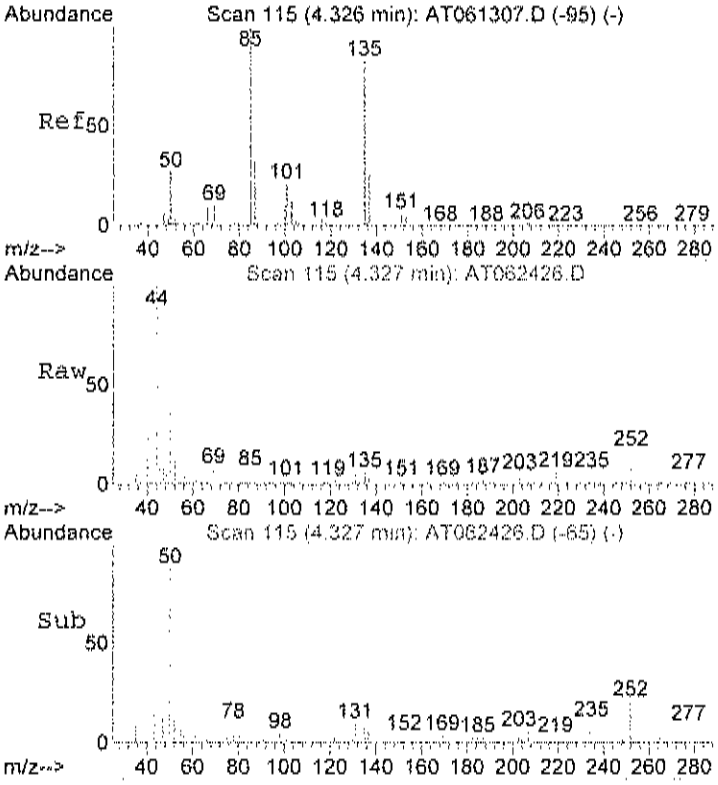


#3
Freon 12
Concen: 0.53 ppb
RT: 4.14 min Scan# 53
Delta R.T. 0.01 min
Lab File: AT062426.D
Acq: 25 Jun 2022 5:26 am

Tgt Ion: 85 Resp: 96327

Ion	Ratio	Lower	Upper
85	100		
87	33.1	12.8	52.8

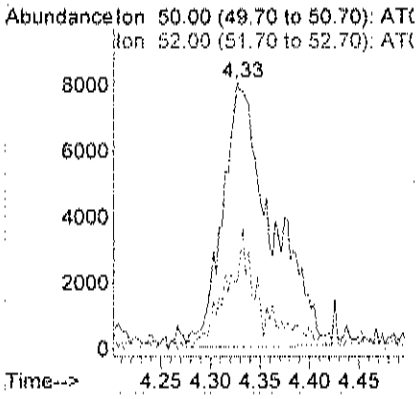


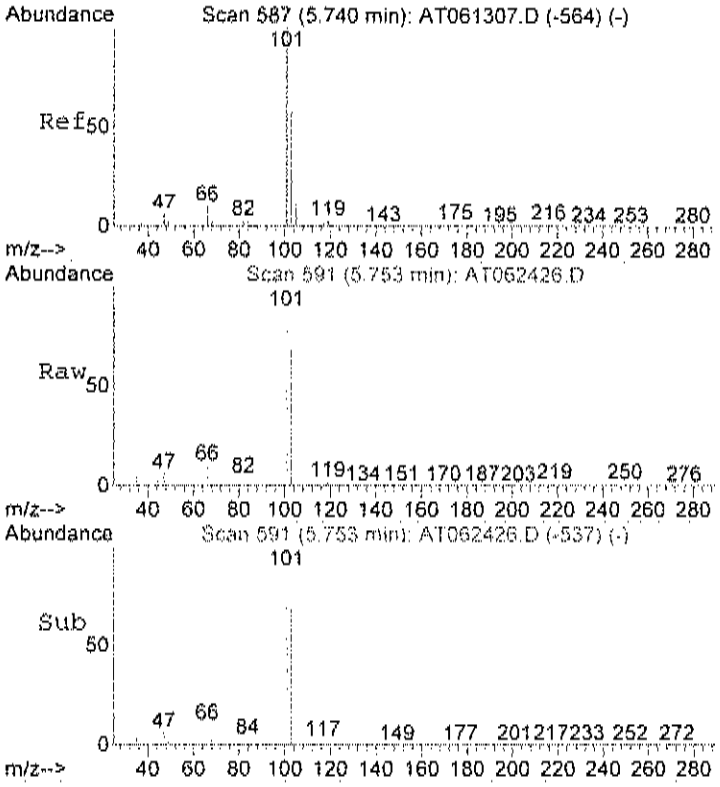


#4
Chloromethane
Concen: 0.62 ppb
RT: 4.33 min Scan# 115
Delta R.T. 0.00 min
Lab File: AT062426.D
Acq: 25 Jun 2022 5:26 am

Tgt Ion: 50 Resp: 27736

Ion	Ratio	Lower	Upper
50	100		
52	23.3	2.7	42.7

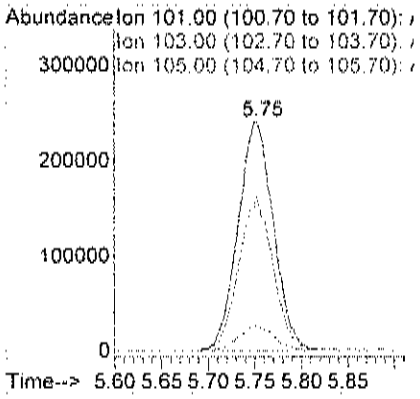


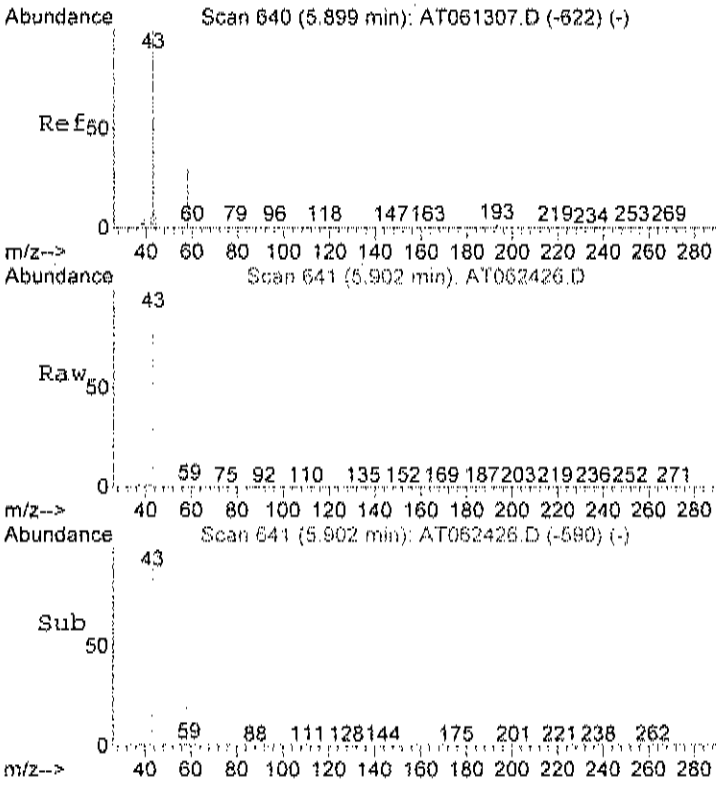


#14
Freon 11
Concen: 2.81 ppb
RT: 5.75 min Scan# 591
Delta R.T. 0.01 min
Lab File: AT062426.D
Acq: 25 Jun 2022 5:26 am

Tgt Ion:101 Resp: 634223

Ion	Ratio	Lower	Upper
101	100		
103	65.0	46.3	86.3
105	10.9	0.0	31.2

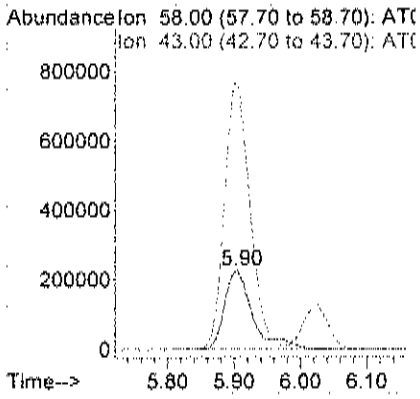


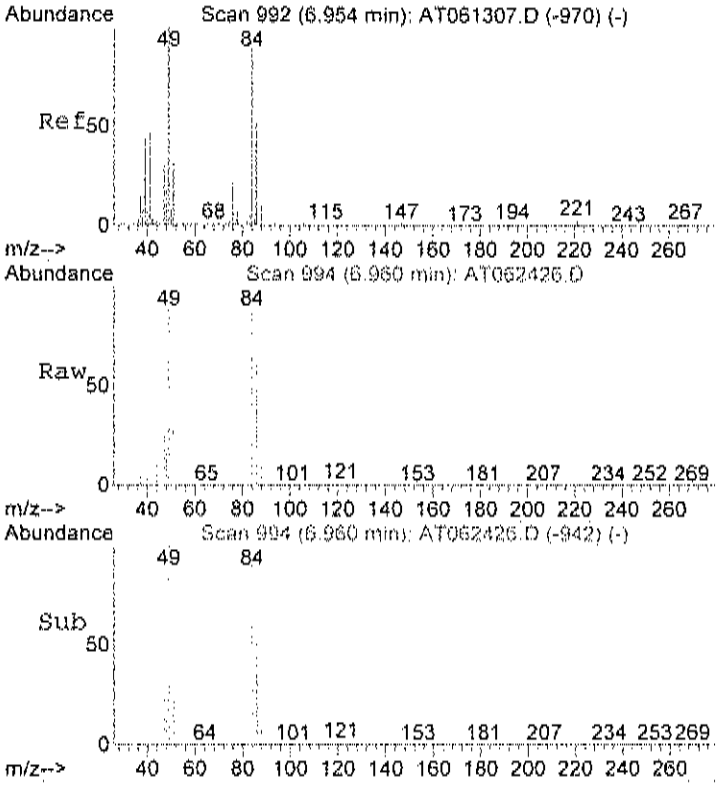


#15
Acetone
Concen: 29.53 ppb
RT: 5.90 min Scan# 641
Delta R.T. 0.00 min
Lab File: AT062426.D
Acq: 25 Jun 2022 5:26 am

Tgt Ion: 58 Resp: 680705

Ion	Ratio	Lower	Upper
58	100		
43	345.3	268.9	328.9#

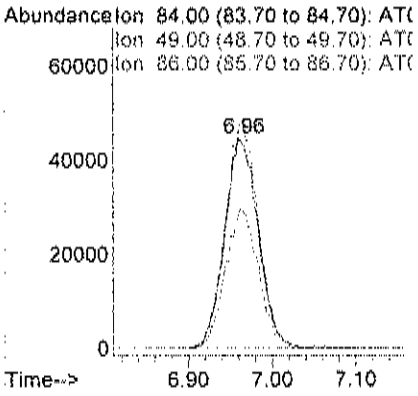


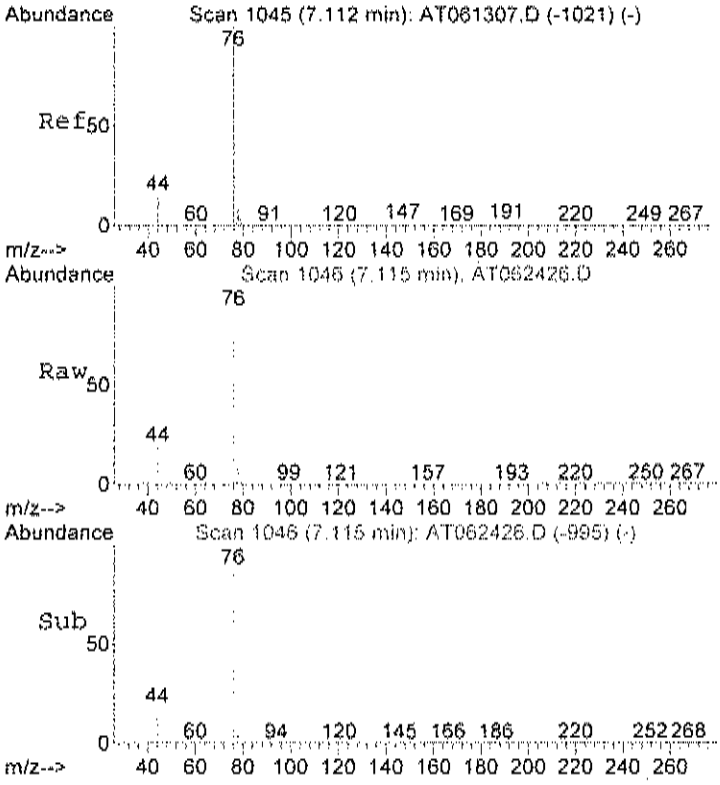


#21
Methylene chloride
Concen: 2.47 ppb
RT: 6.96 min Scan# 994
Delta R.T. 0.01 min
Lab File: AT062426.D
Acq: 25 Jun 2022 5:26 am

Tgt Ion: 84 Resp: 124470

Ion	Ratio	Lower	Upper
84	100		
49	106.4	93.2	133.2
86	65.8	46.4	86.4

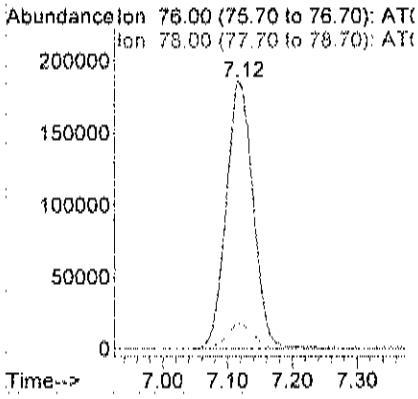


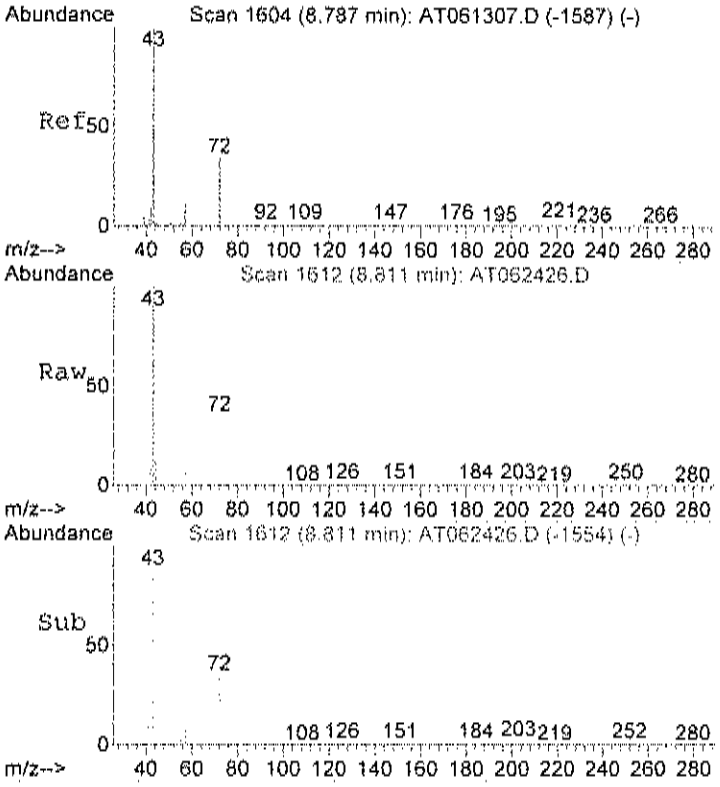


#23
Carbon disulfide
Concen: 3.58 ppb
RT: 7.12 min Scan# 1046
Delta R.T. 0.00 min
Lab File: AT062426.D
Acq: 25 Jun 2022 5:26 am

Tgt Ion: 76 Resp: 535925

Ion	Ratio	Lower	Upper
76	100		
78	9.5	0.0	29.7

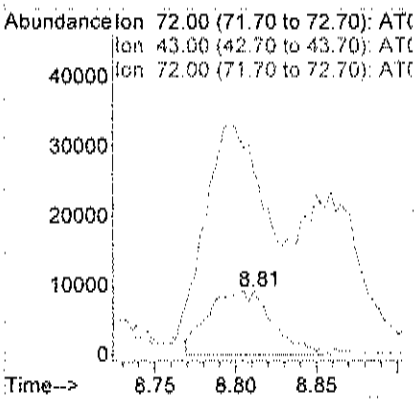


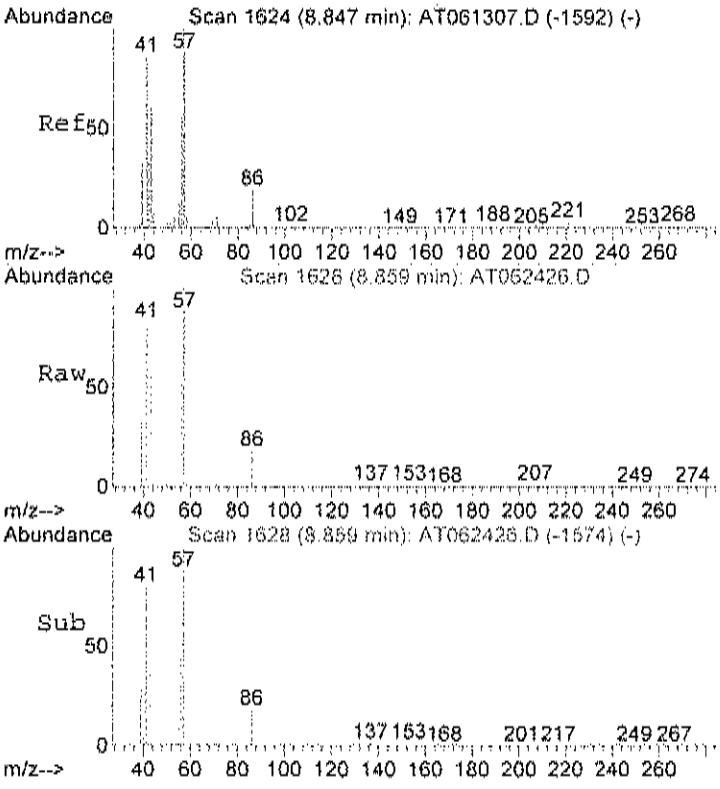


#28
Methyl Ethyl Ketone
Concen: 1.30 ppb
RT: 8.81 min Scan# 1612
Delta R.T. 0.02 min
Lab File: AT062426.D
Acq: 25 Jun 2022 5:26 am

Tgt Ion: 72 Resp: 25431

Ion	Ratio	Lower	Upper
72	100		
43	583.1	0.0	20.0#
72	100.0	80.0	120.0

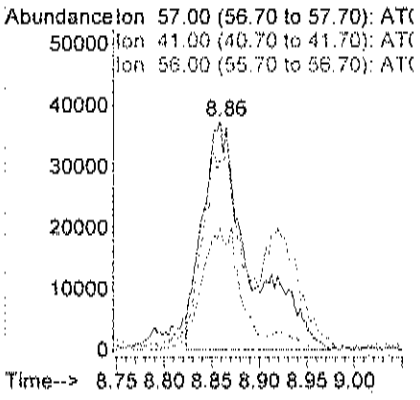


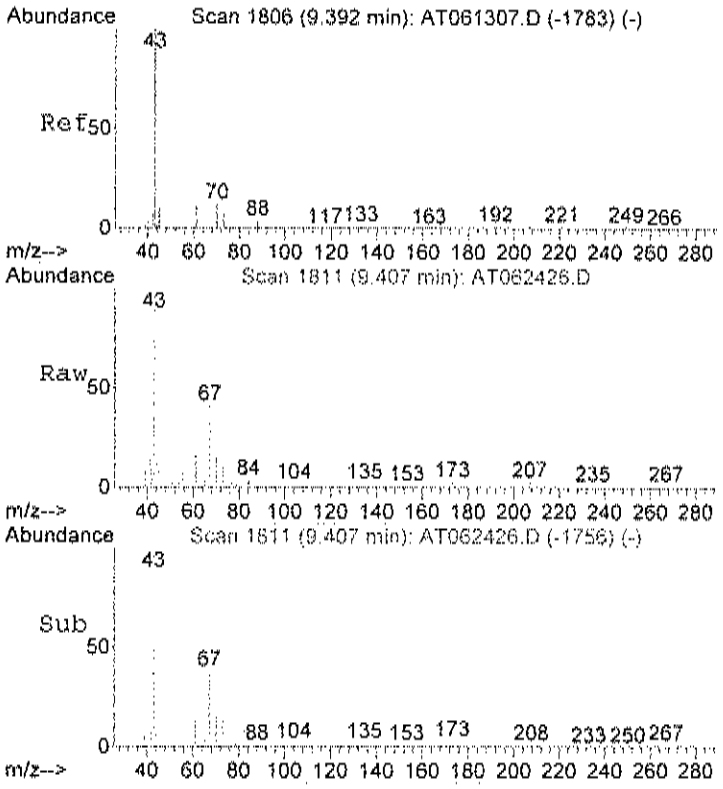


#30
Hexane
Concen: 2.17 ppb
RT: 8.86 min Scan# 1628
Delta R.T. 0.01 min
Lab File: AT062426.D
Acq: 25 Jun 2022 5:26 am

Tgt Ion: 57 Resp: 127478

Ion	Ratio	Lower	Upper
57	100		
41	109.4	58.1	98.1#
56	48.4	28.7	68.7

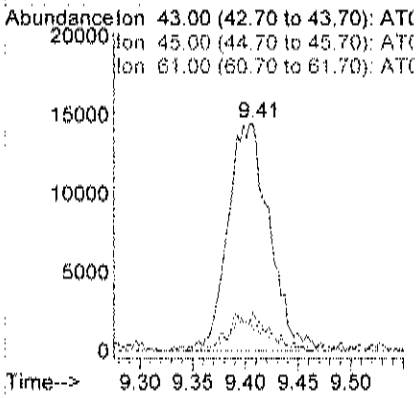


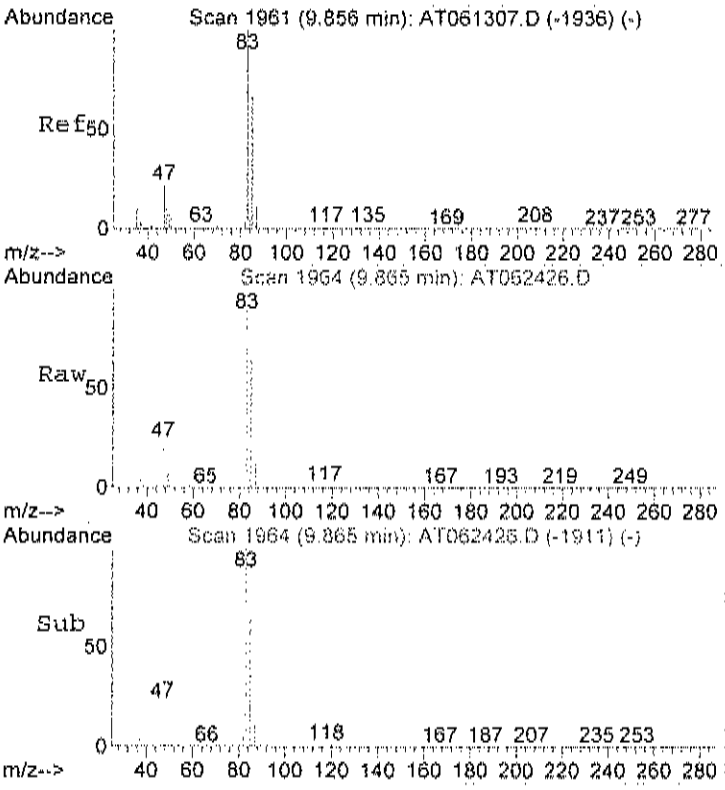


#31
Ethyl acetate
Concen: 0.43 ppb
RT: 9.41 min Scan# 1811
Delta R.T. 0.02 min
Lab File: AT062426.D
Acq: 25 Jun 2022 5:26 am

Tgt Ion: 43 Resp: 40125

Ion	Ratio	Lower	Upper
43	100		
45	12.2	0.0	33.7
61	12.9	0.0	34.7

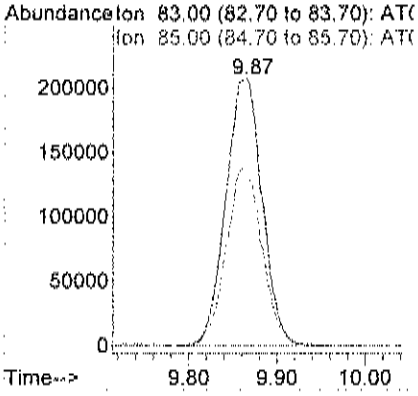


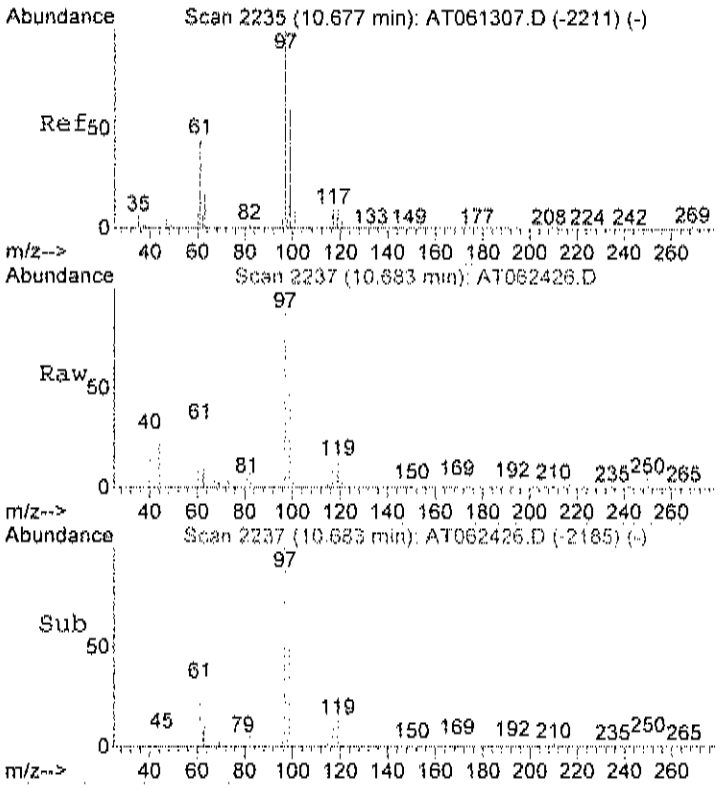


#32
Chloroform
Concen: 4.77 ppb
RT: 9.87 min Scan# 1964
Delta R.T. 0.01 min
Lab File: AT062426.D
Acq: 25 Jun 2022 5:26 am

Tgt Ion: 83 Resp: 592590

Ion	Ratio	Lower	Upper
83	100		
85	66.0	46.5	86.5

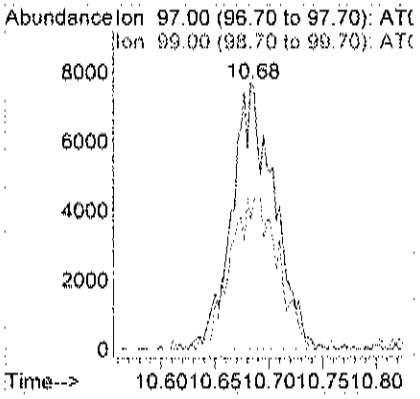


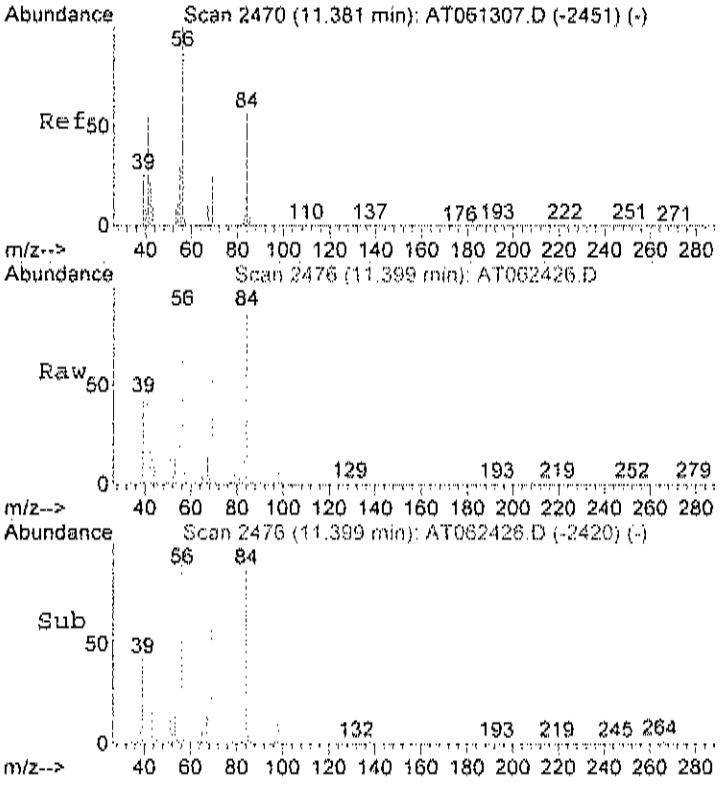


#36
1,1,1-trichloroethane
Concen: 0.18 ppb
RT: 10.68 min Scan# 2237
Delta R.T. 0.01 min
Lab File: AT062426.D
Acq: 25 Jun 2022 5:26 am

Tgt Ion: 97 Resp: 21023

Ion	Ratio	Lower	Upper
97	100		
99	64.0	46.0	86.0

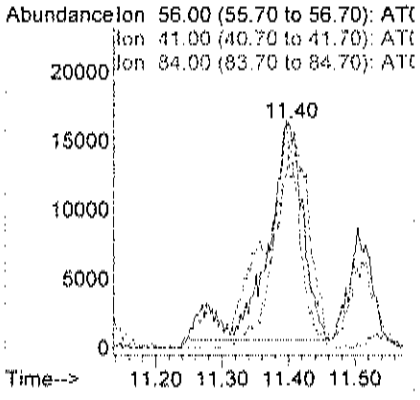


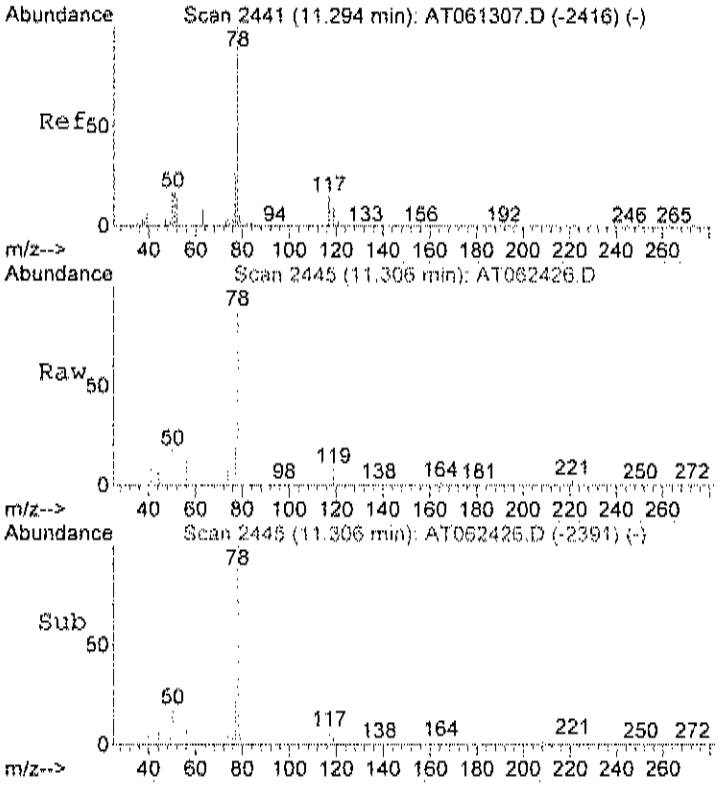


#37
Cyclohexane
Concen: 1.07 ppb
RT: 11.40 min Scan# 2476
Delta R.T. 0.02 min
Lab File: AT062426.D
Acq: 25 Jun 2022 5:26 am

Tgt Ion: 56 Resp: 60111

Ion	Ratio	Lower	Upper
56	100		
41	93.6	40.3	80.3#
84	73.4	133.0	173.0#

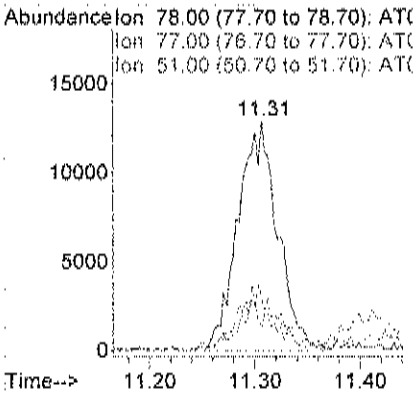


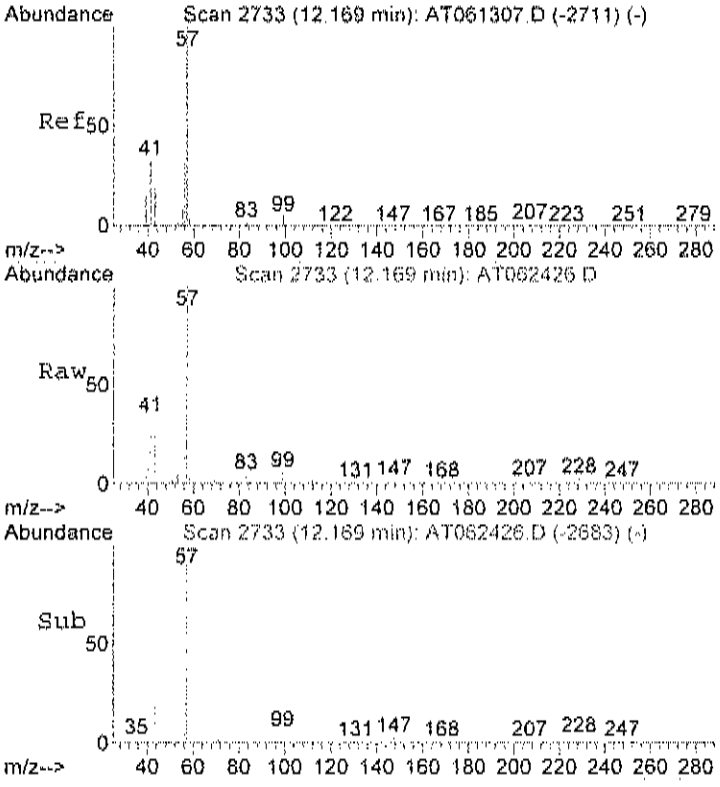


#39
Benzene
Concen: 0.25 ppb
RT: 11.31 min Scan# 2445
Delta R.T. 0.01 min
Lab File: AT062426.D
Acq: 25 Jun 2022 5:26 am

Tgt Ion: 78 Resp: 33381

Ion	Ratio	Lower	Upper
78	100		
77	26.5	3.1	43.1
51	21.3	0.0	37.8

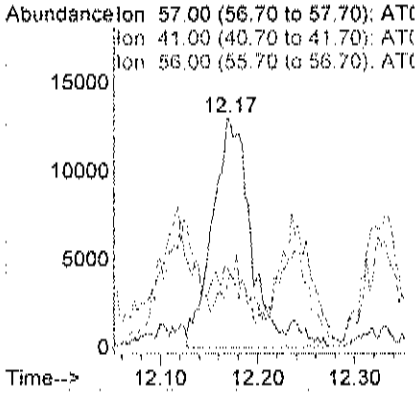


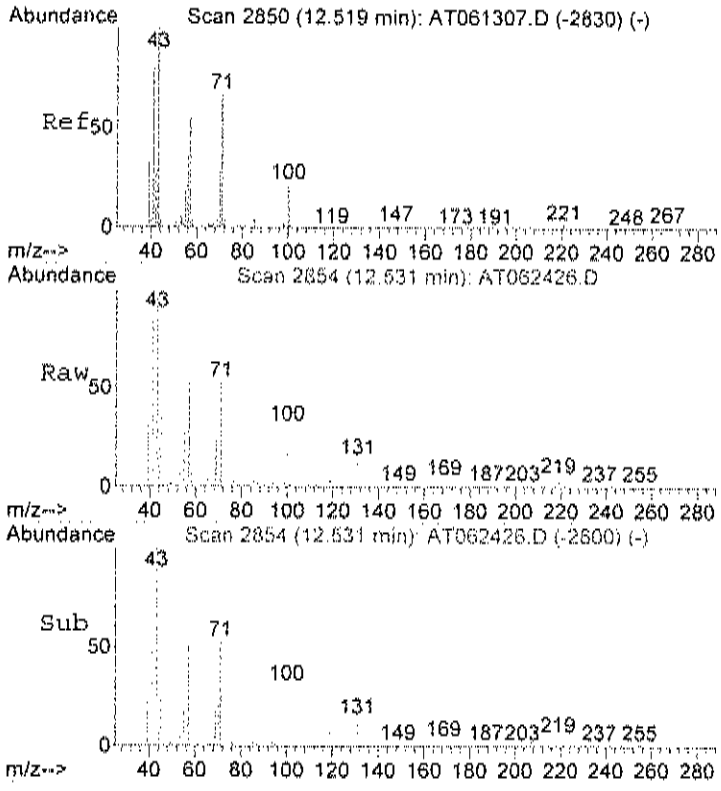


#42
2,2,4-trimethylpentane
Concen: 0.21 ppb
RT: 12.17 min Scan# 2733
Delta R.T. 0.00 min
Lab File: AT062426.D
Acq: 25 Jun 2022 5:26 am

Tgt Ion: 57 Resp: 36606

Ion	Ratio	Lower	Upper
57	100		
41	0.0	15.3	55.3#
56	0.0	10.1	50.1#

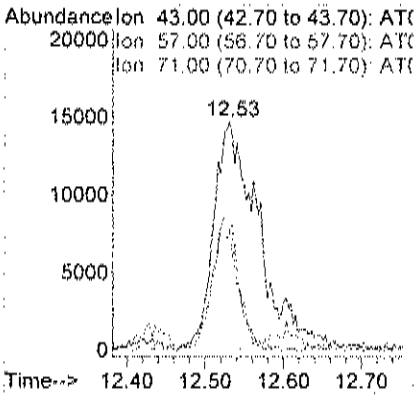


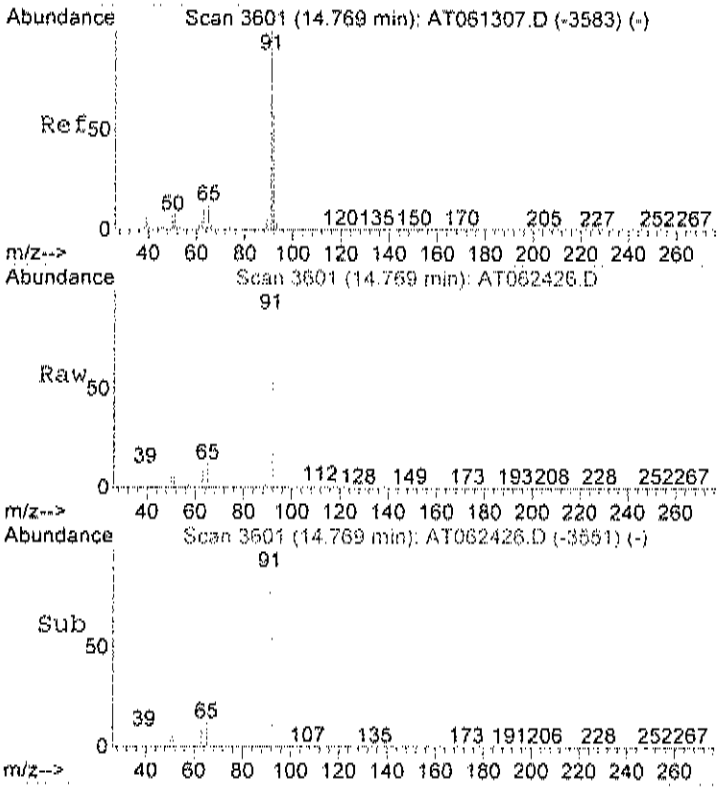


#43
Heptane
Concen: 0.91 ppb
RT: 12.53 min Scan# 2854
Delta R.T. 0.01 min
Lab File: AT062426.D
Acq: 25 Jun 2022 5:26 am

Tgt Ion: 43 Resp: 57212

Ion	Ratio	Lower	Upper
43	100		
57	35.0	41.7	81.7#
71	33.2	53.4	93.4#

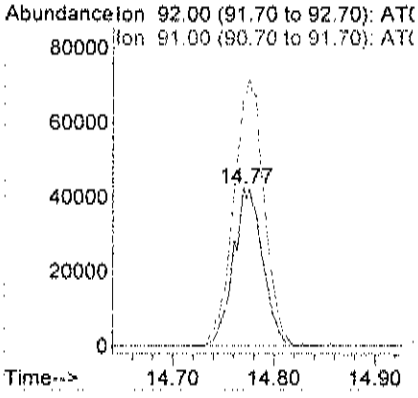


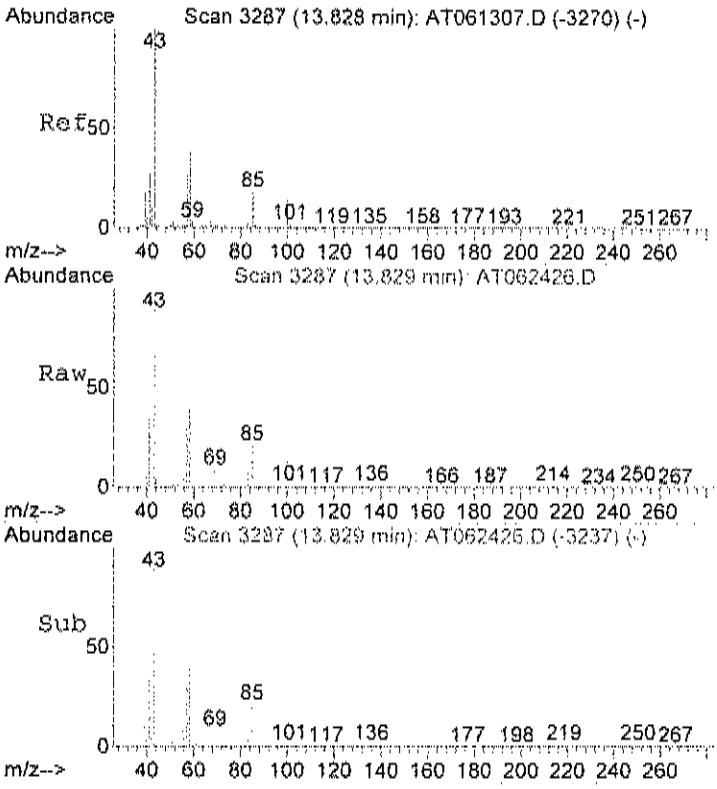


#51
Toluene
Concen: 0.85 ppb
RT: 14.77 min Scan# 3601
Delta R.T. 0.00 min
Lab File: AT062426.D
Acq: 25 Jun 2022 5:26 am

Tgt Ion: 92 Resp: 86308

Ion	Ratio	Lower	Upper
92	100		
91	175.6	154.4	194.4

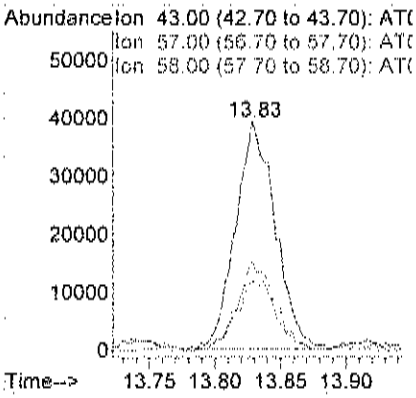


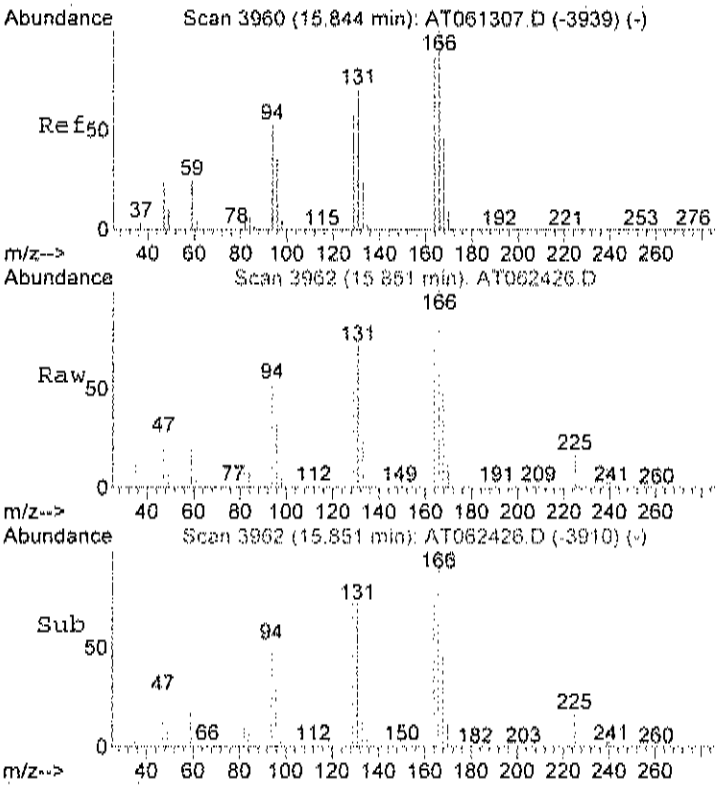


#52
Methyl Isobutyl Ketone
Concen: 0.92 ppb
RT: 13.83 min Scan# 3287
Delta R.T. 0.00 min
Lab File: AT062426.D
Acq: 25 Jun 2022 5:26 am

Tgt Ion: 43 Resp: 82938

Ion	Ratio	Lower	Upper
43	100		
57	30.5	9.3	49.3
58	37.5	22.0	62.0

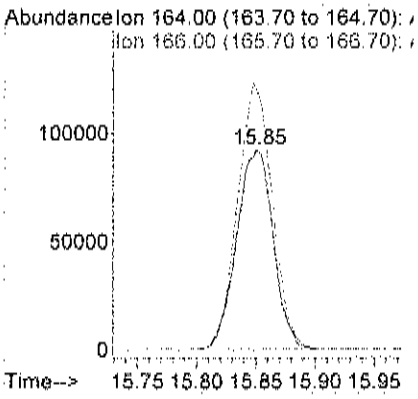


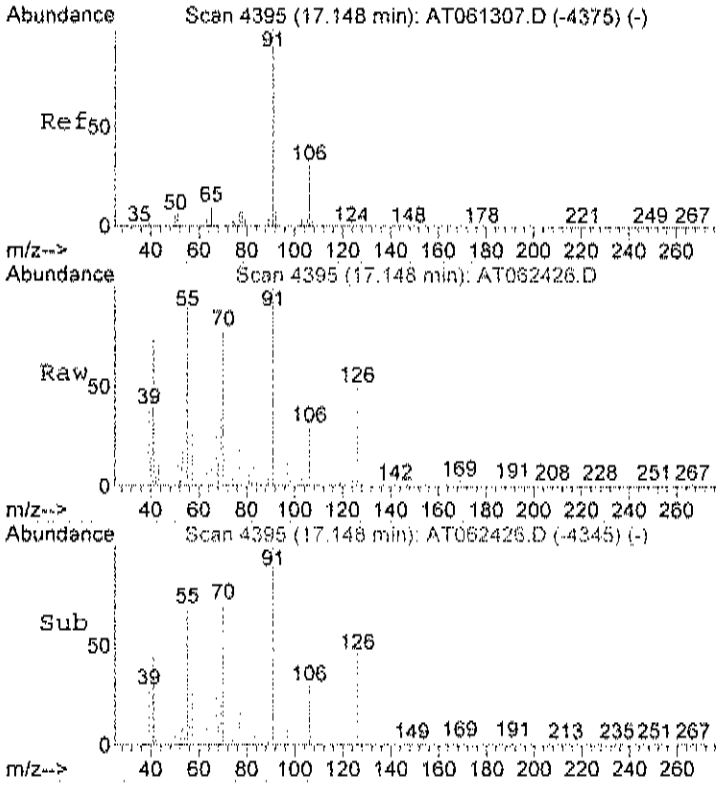


#56
Tetrachloroethylene
Concen: 2.53 ppb
RT: 15.85 min Scan# 3962
Delta R.T. 0.01 min
Lab File: AT062426.D
Acq: 25 Jun 2022 5:26 am

Tgt Ion:164 Resp: 198286

Ion	Ratio	Lower	Upper
164	100		
166	126.5	107.7	147.7

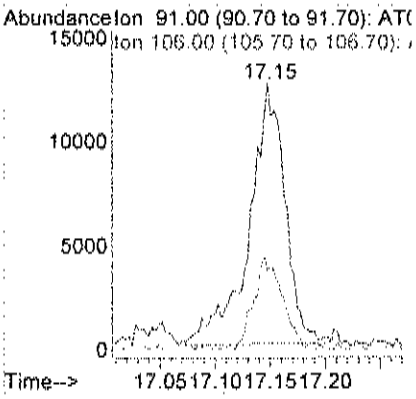


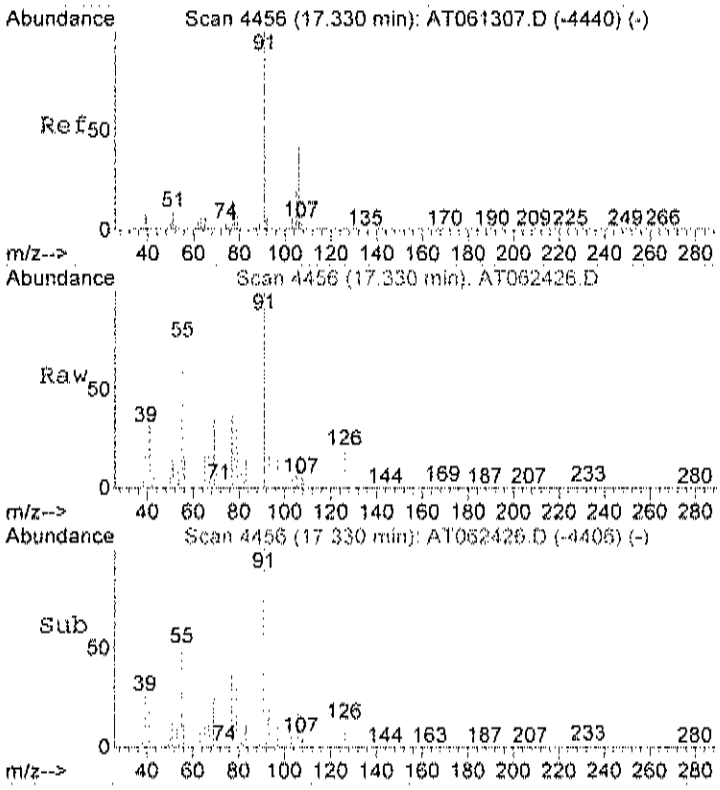


#58
Ethylbenzene
Concen: 0.12 ppb
RT: 17.15 min Scan# 4395
Delta R.T. 0.00 min
Lab File: AT062426.D
Acq: 25 Jun 2022 5:26 am

Tgt Ion: 91 Resp: 28427

Ion	Ratio	Lower	Upper
91	100		
106	28.9	11.5	51.5

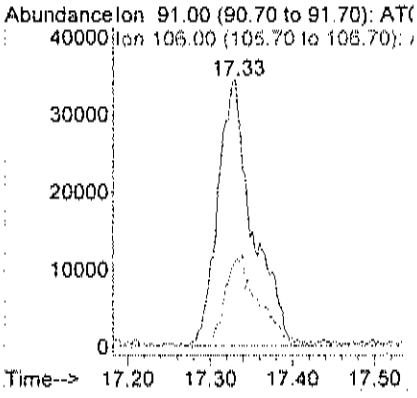


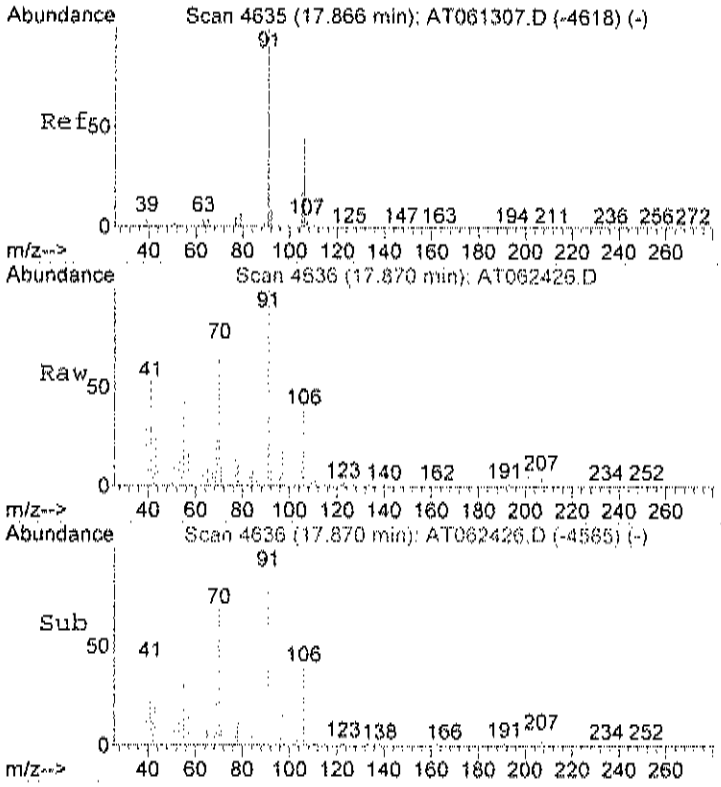


#59
m&p-xylene
Concen: 0.53 ppb
RT: 17.33 min Scan# 4456
Delta R.T. 0.00 min
Lab File: AT062426.D
Acq: 25 Jun 2022 5:26 am

Tgt Ion: 91 Resp: 101691

Ion	Ratio	Lower	Upper
91	100		
106	32.5	27.9	67.9

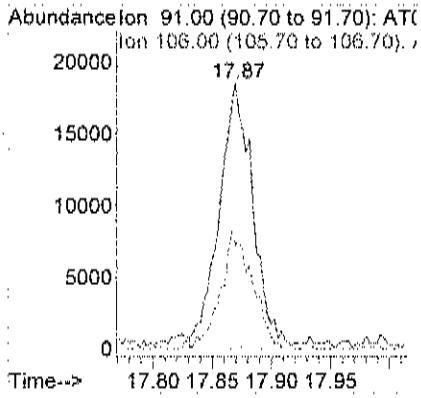


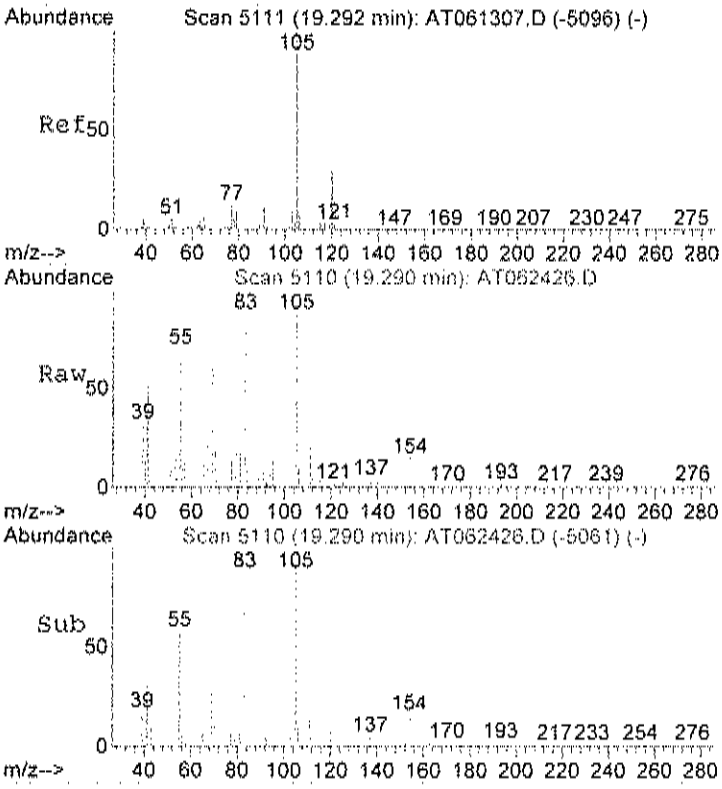


#63
o-xylene
Concen: 0.18 ppb
RT: 17.87 min Scan# 4636
Delta R.T. 0.00 min
Lab File: AT062426.D
Acq: 25 Jun 2022 5:26 am

Tgt Ion: 91 Resp: 37253

Ion	Ratio	Lower	Upper
91	100		
106	42.1	25.1	65.1

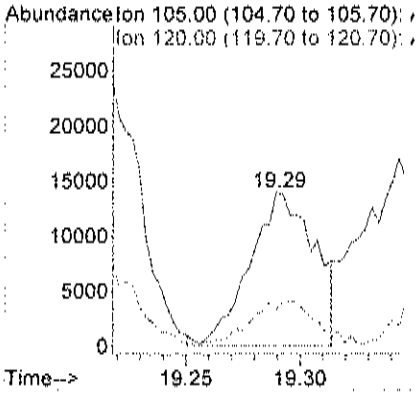


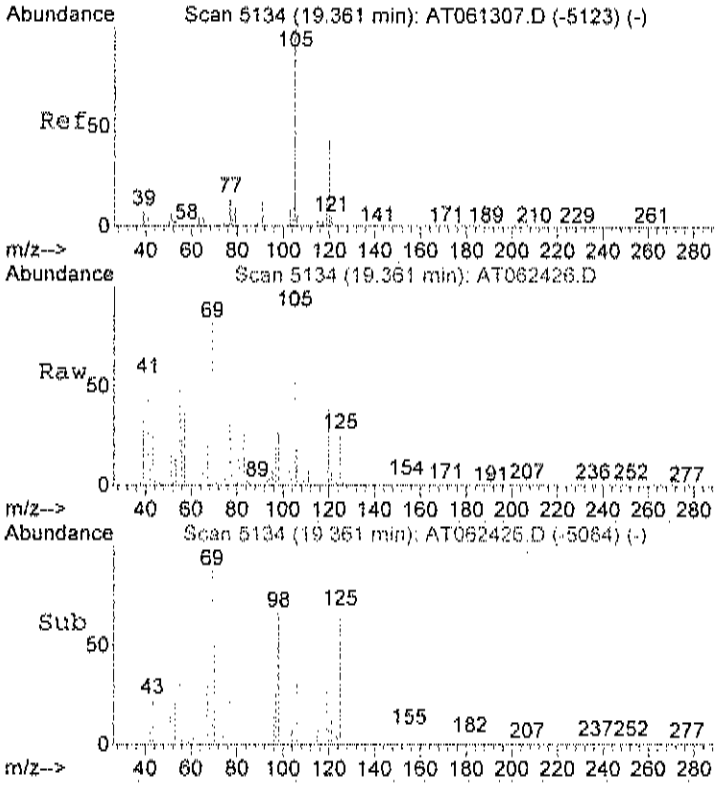


#69
4-ethyltoluene
Concen: 0.10 ppb m
RT: 19.29 min Scan# 5110
Delta R.T. -0.00 min
Lab File: AT062426.D
Acq: 25 Jun 2022 5:26 am

Tgt Ion:105 Resp: 27573

Ion	Ratio	Lower	Upper
105	100		
120	55.8	10.6	50.6#

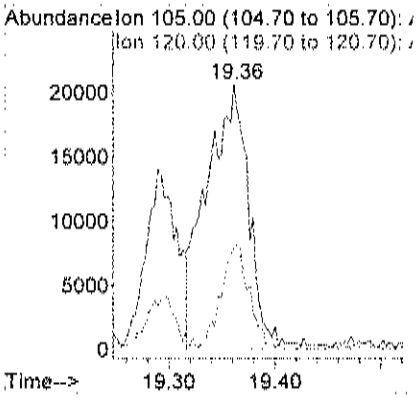


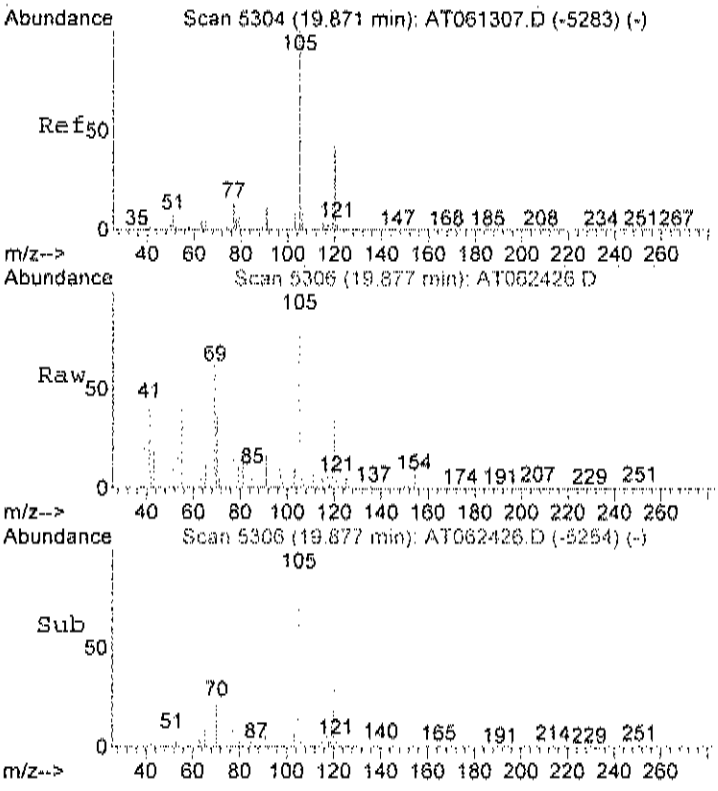


#70
1,3,5-trimethylbenzene
Concen: 0.25 ppb m
RT: 19.36 min Scan# 5134
Delta R.T. 0.00 min
Lab File: AT062426.D
Acq: 25 Jun 2022 5:26 am

Tgt Ion:105 Resp: 58070

Ion	Ratio	Lower	Upper
105	100		
120	26.5	26.2	66.2

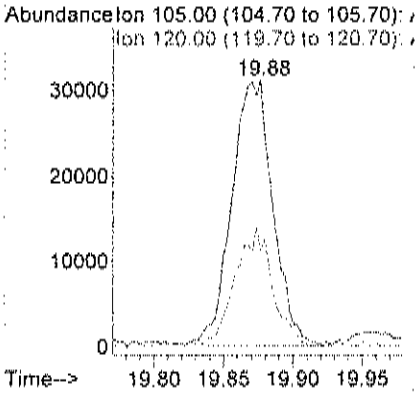


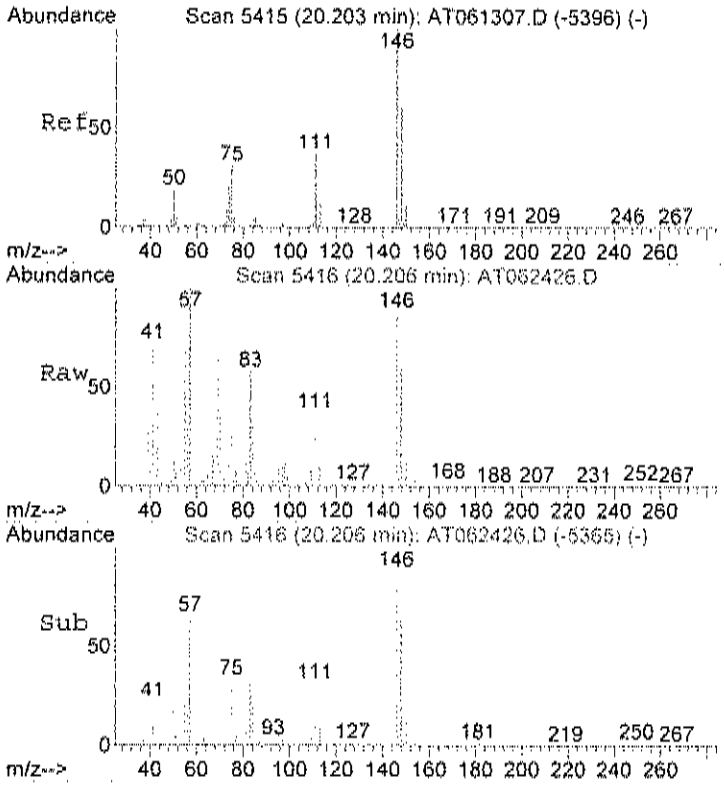


#71
1,2,4-trimethylbenzene
Concen: 0.28 ppb
RT: 19.88 min Scan# 5306
Delta R.T. 0.01 min
Lab File: AT062426.D
Acq: 25 Jun 2022 5:26 am

Tgt Ion:105 Resp: 64223

Ion	Ratio	Lower	Upper
105	100		
120	41.2	23.8	63.8

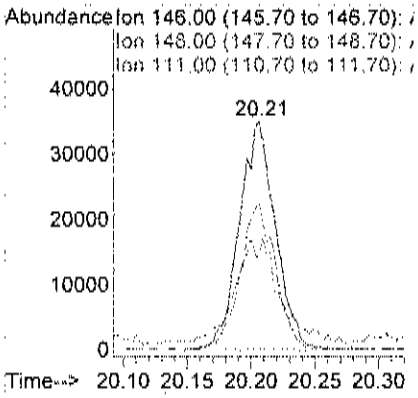


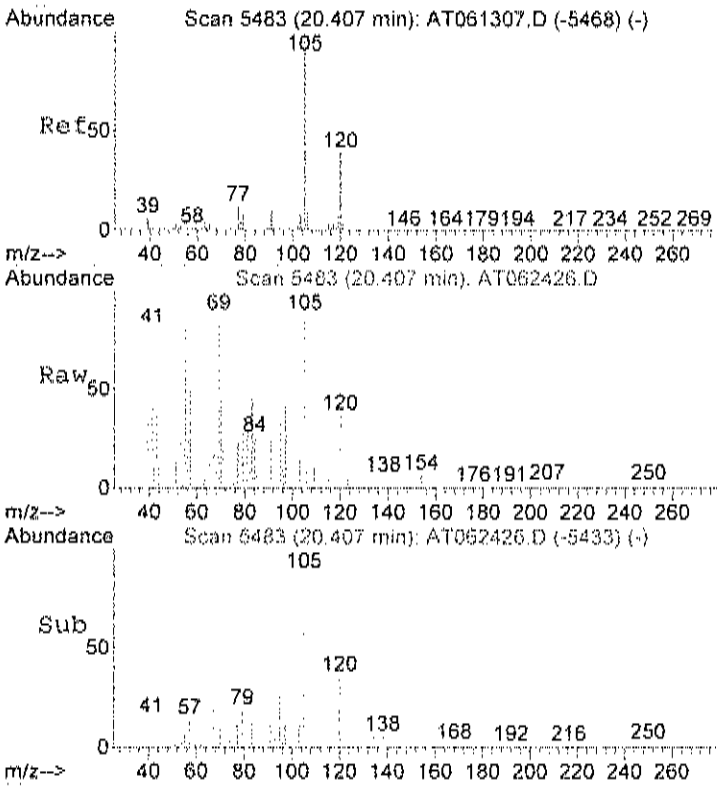


#72
1,3-dichlorobenzene
Concen: 0.46 ppb
RT: 20.21 min Scan# 5416
Delta R.T. 0.00 min
Lab File: AT062426.D
Acq: 25 Jun 2022 5:26 am

Tgt Ion:146 Resp: 68812

Ion	Ratio	Lower	Upper
146	100		
148	62.0	44.9	84.9
111	59.7	19.7	59.7#

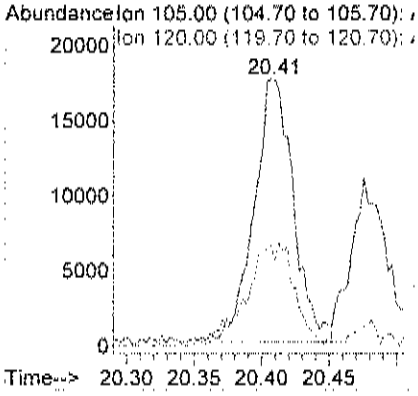




#75
1,2,3-trimethylbenzene
Concen: 0.15 ppb
RT: 20.41 min Scan# 5483
Delta R.T. 0.00 min
Lab File: AT062426.D
Acq: 25 Jun 2022 5:26 am

Tgt Ion:105 Resp: 35905

Ion	Ratio	Lower	Upper
105	100		
120	44.2	30.7	51.1



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062914.D Vial: 14
Acq On : 29 Jun 2022 7:22 pm Operator: RJP
Sample : C2206048-016A 10X Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 07:33:20 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.69	128	22717	1.00	ppb		0.00
35) 1,4-difluorobenzene	12.00	114	100330	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	88449	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	55564	0.87	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 87.00%				
Target Compounds							Qvalue
14) Freon 11	5.75	101	53595	0.41	ppb		96
15) Acetone	5.90	58	53296	4.03	ppb	#	69
21) Methylene chloride	6.96	84	8402	0.29	ppb		92
23) Carbon disulfide	7.11	76	36792	0.43	ppb		96
30) Hexane	8.85	57	7449	0.22	ppb		90
32) Chloroform	9.86	83	39165	0.55	ppb		98
56) Tetrachloroethylene	15.85	164	11872	0.29	ppb		96

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

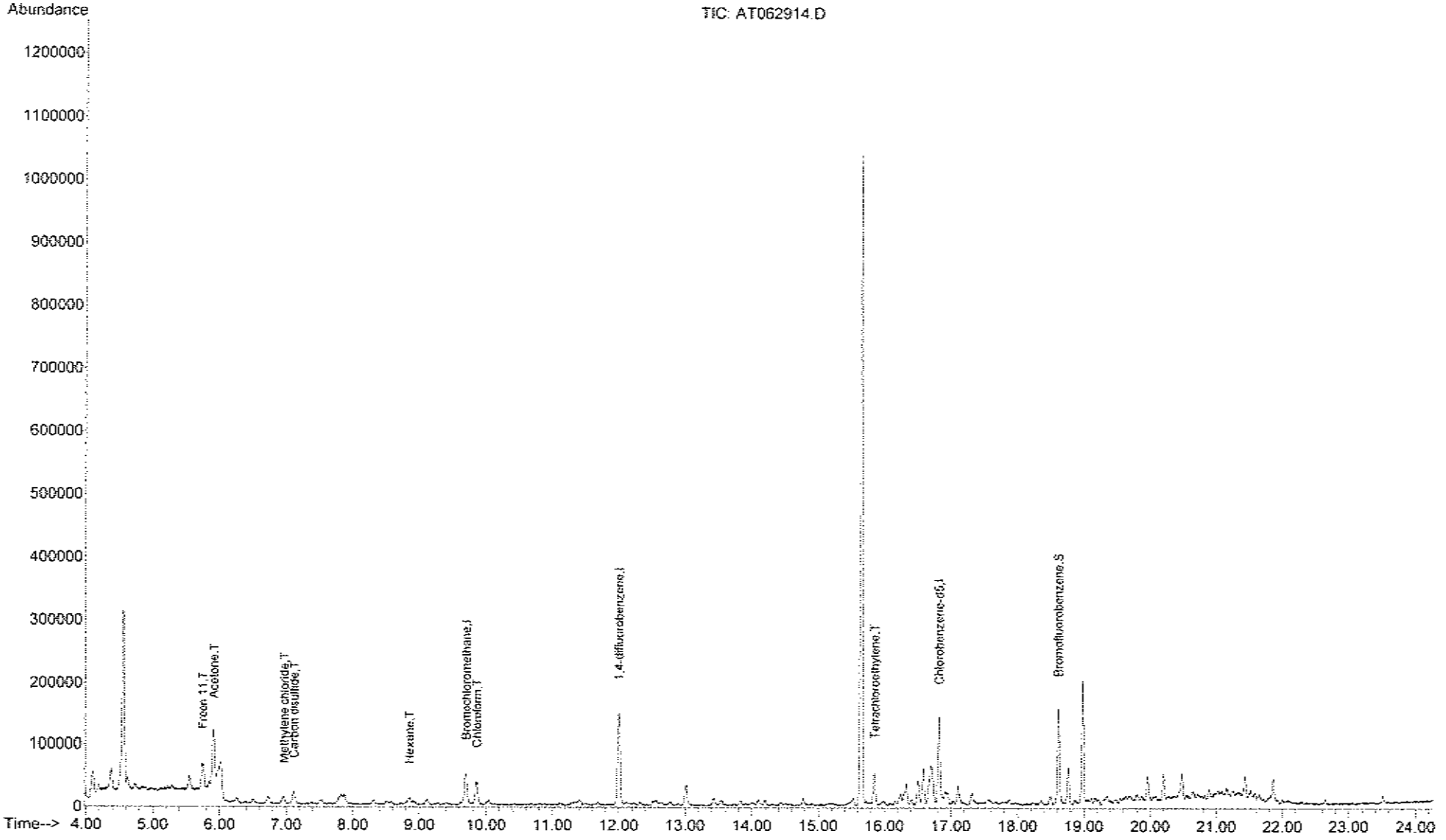
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062914.D
Acq On : 29 Jun 2022 7:22 pm
Sample : C2206048-016A 10X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 30 8:13 2022

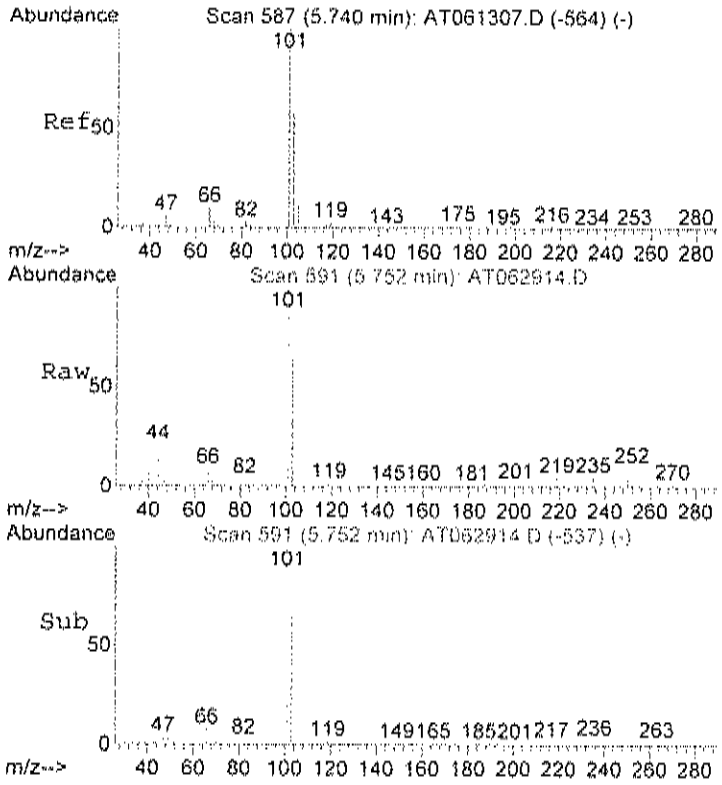
Vial: 14
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



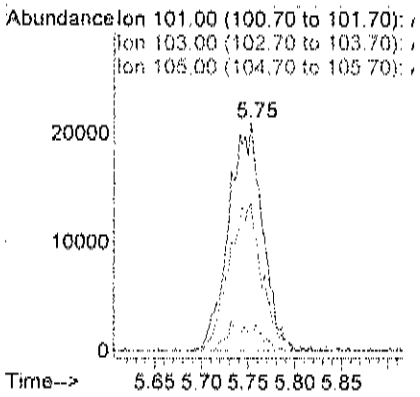
Centek/SanAir Laboratories

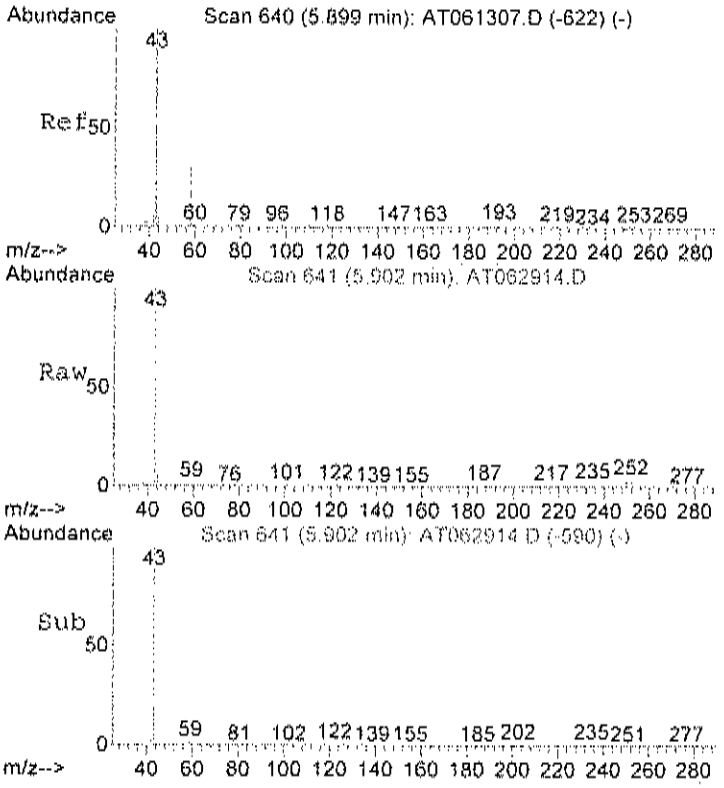


#14
Freon 11
Concen: 0.41 ppb
RT: 5.75 min Scan# 591
Delta R.T. 0.01 min
Lab File: AT062914.D
Acq: 29 Jun 2022 7:22 pm

Tgt Ion:101 Resp: 53595

Ion	Ratio	Lower	Upper
101	100		
103	62.8	46.3	86.3
105	11.0	0.0	31.2

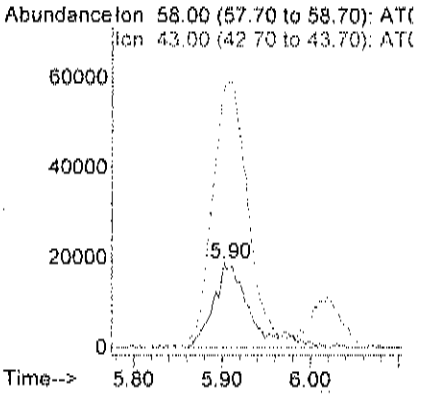


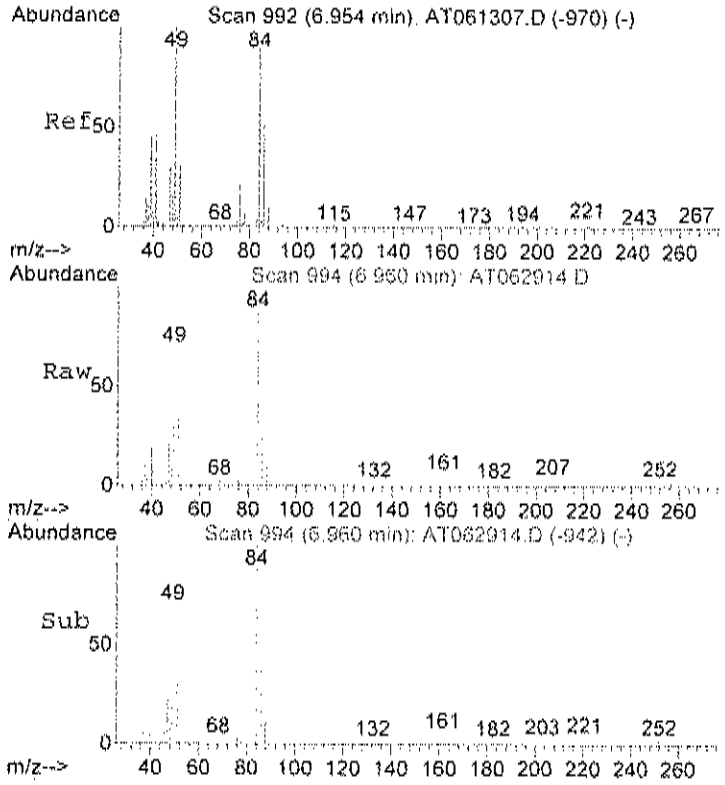


#15
Acetone
Concen: 4.03 ppb
RT: 5.90 min Scan# 641
Delta R.T. 0.00 min
Lab File: AT062914.D
Acq: 29 Jun 2022 7:22 pm

Tgt Ion: 58 Resp: 53296

Ion	Ratio	Lower	Upper
58	100		
43	360.5	268.9	328.9#

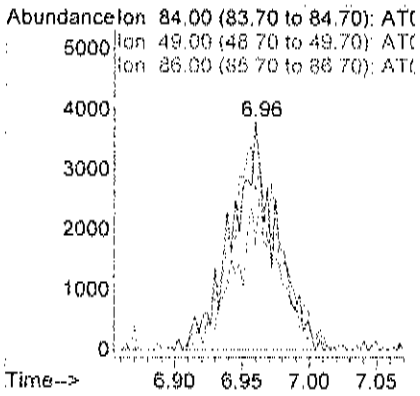


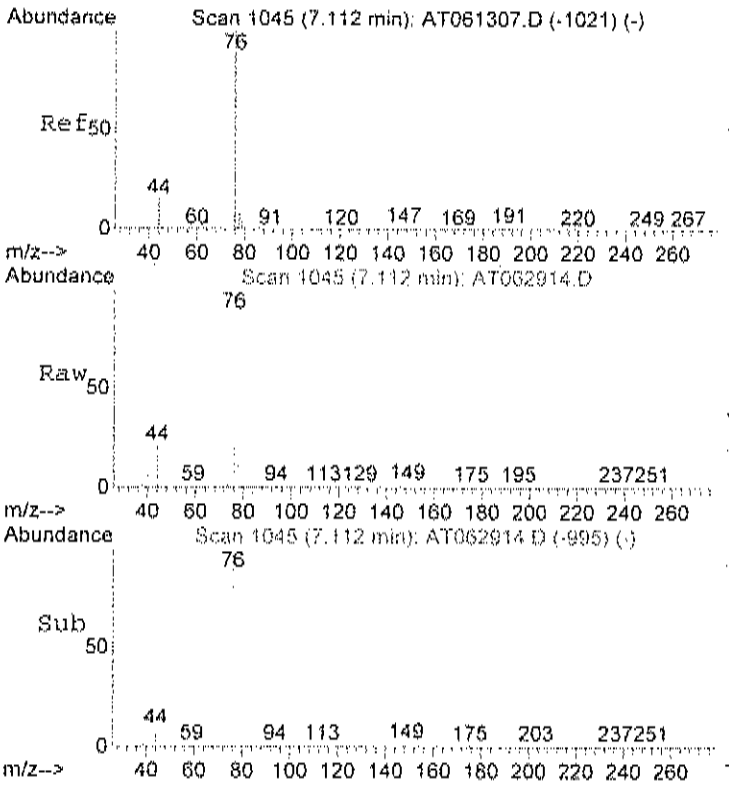


#21
Methylene chloride
Concen: 0.29 ppb
RT: 6.96 min Scan# 994
Delta R.T. 0.01 min
Lab File: AT062914.D
Acq: 29 Jun 2022 7:22 pm

Tgt Ion: 84 Resp: 8402

Ion	Ratio	Lower	Upper
84	100		
49	101.7	93.2	133.2
86	69.9	46.4	86.4

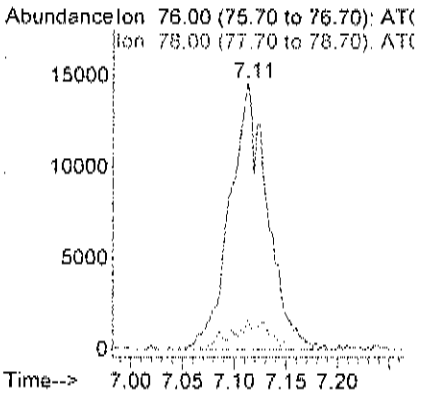


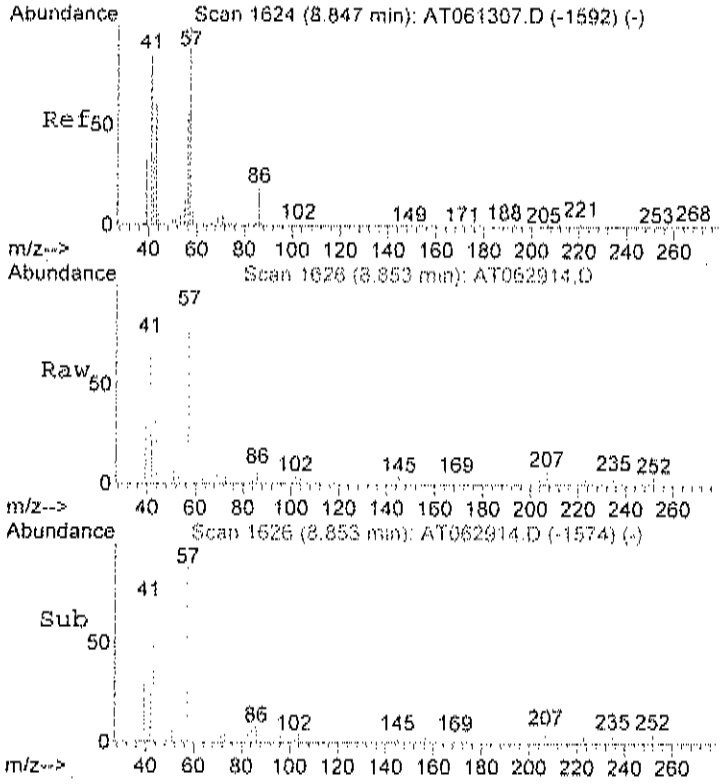


#23
Carbon disulfide
Concen: 0.43 ppb
RT: 7.11 min Scan# 1045
Delta R.T. 0.00 min
Lab File: AT062914.D
Acq: 29 Jun 2022 7:22 pm

Tgt Ion: 76 Resp: 36792

Ion	Ratio	Lower	Upper
76	100		
78	11.0	0.0	29.7

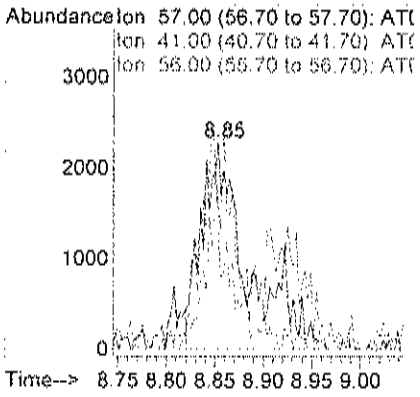


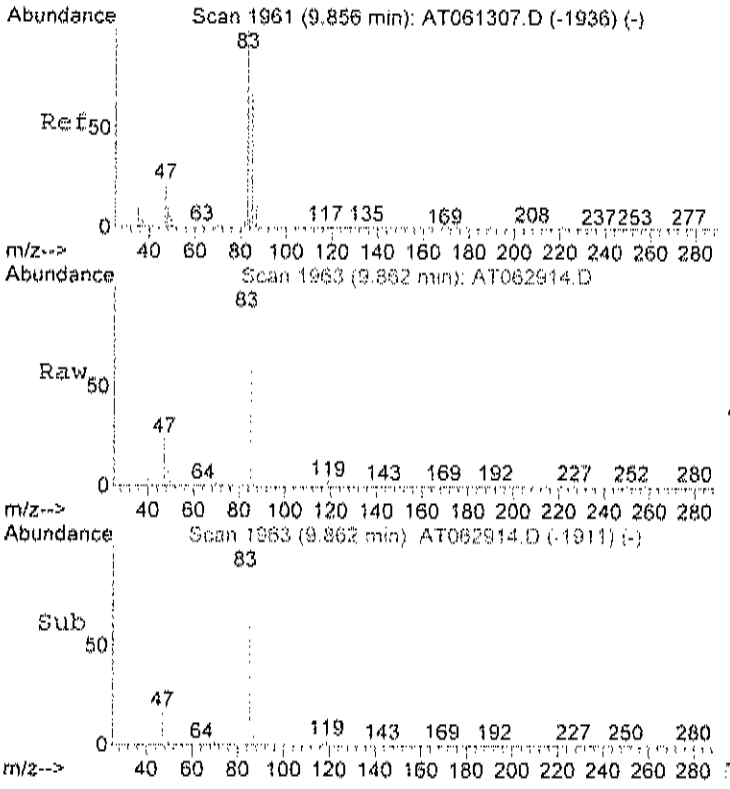


#30
Hexane
Concen: 0.22 ppb
RT: 8.85 min Scan# 1626
Delta R.T. 0.01 min
Lab File: AT062914.D
Acq: 29 Jun 2022 7:22 pm

Tgt Ion: 57 Resp: 7449

Ion	Ratio	Lower	Upper
57	100		
41	65.9	58.1	98.1
56	46.4	28.7	68.7

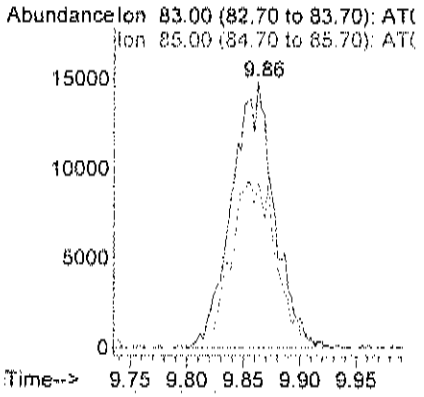


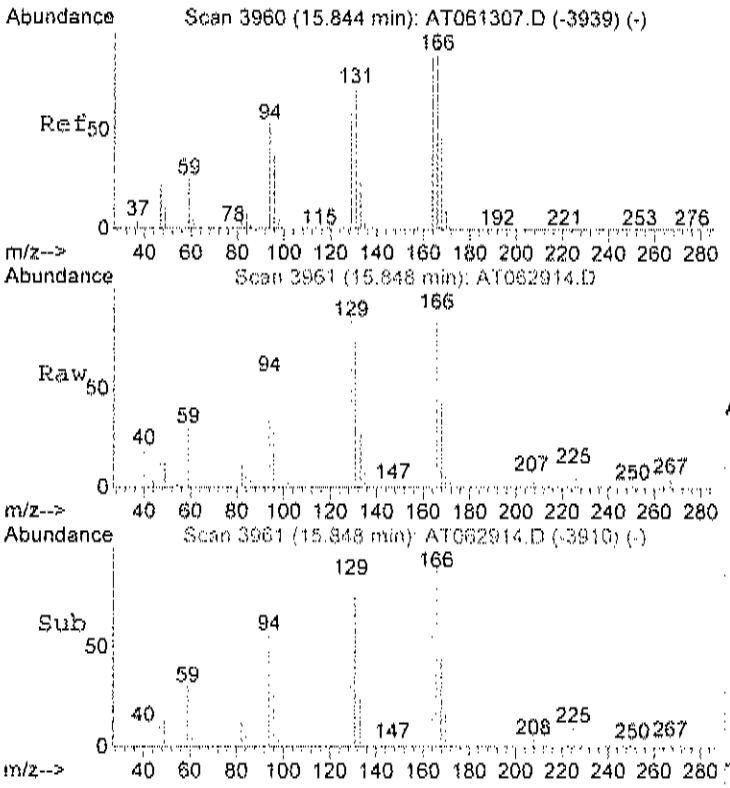


#32
Chloroform
Concen: 0.55 ppb
RT: 9.86 min Scan# 1963
Delta R.T. 0.01 min
Lab File: AT062914.D
Acq: 29 Jun 2022 7:22 pm

Tgt Ion: 83 Resp: 39165

Ion	Ratio	Lower	Upper
83	100		
85	67.7	46.5	86.5

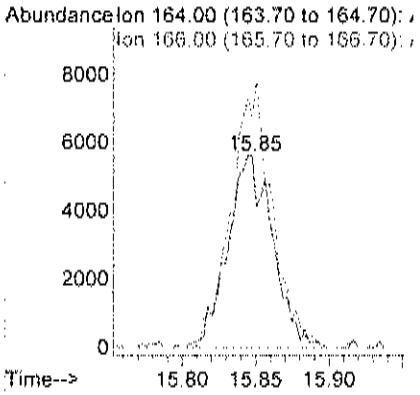




#56
Tetrachloroethylene
Concen: 0.29 ppb
RT: 15.85 min Scan# 3961
Delta R.T. 0.00 min
Lab File: AT062914.D
Acq: 29 Jun 2022 7:22 pm

Tgt Ion:164 Resp: 11872

Ion	Ratio	Lower	Upper
164	100		
166	123.4	107.7	147.7



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062915.D Vial: 15
Acq On : 29 Jun 2022 8:04 pm Operator: RJP
Sample : C2206048-016A 40X Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 07:33:21 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.69	128	21800	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.00	114	89969	1.00	ppb	0.00
50) Chlorobenzene-d5	16.82	117	85529	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.61	95	47325	0.76	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 76.00%			
Target Compounds						Qvalue
15) Acetone	5.91	58	7623m	0.60	ppb	

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

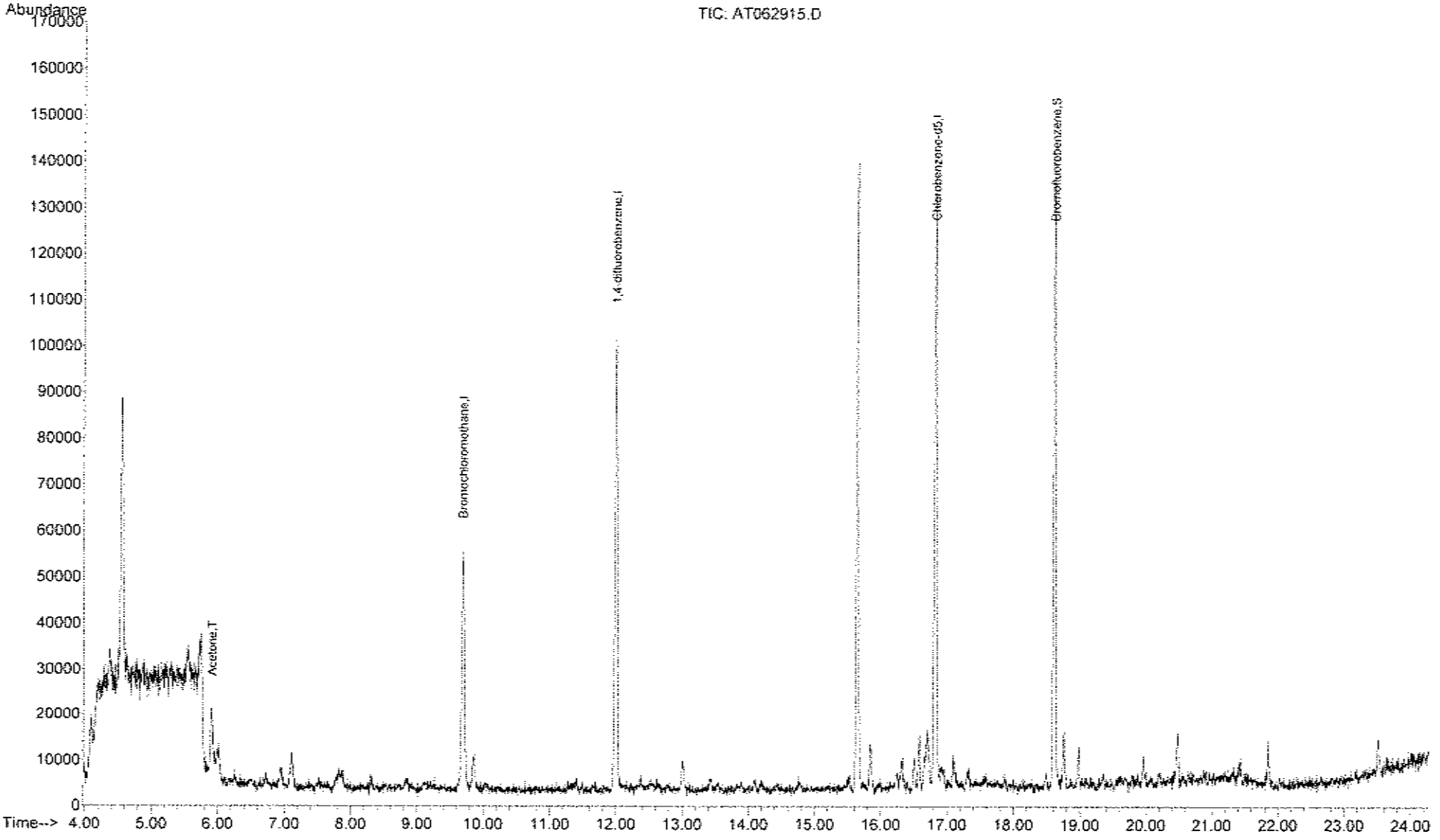
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062915.D
Acq On : 29 Jun 2022 8:04 pm
Sample : C2206048-016A 40X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 30 8:14 2022

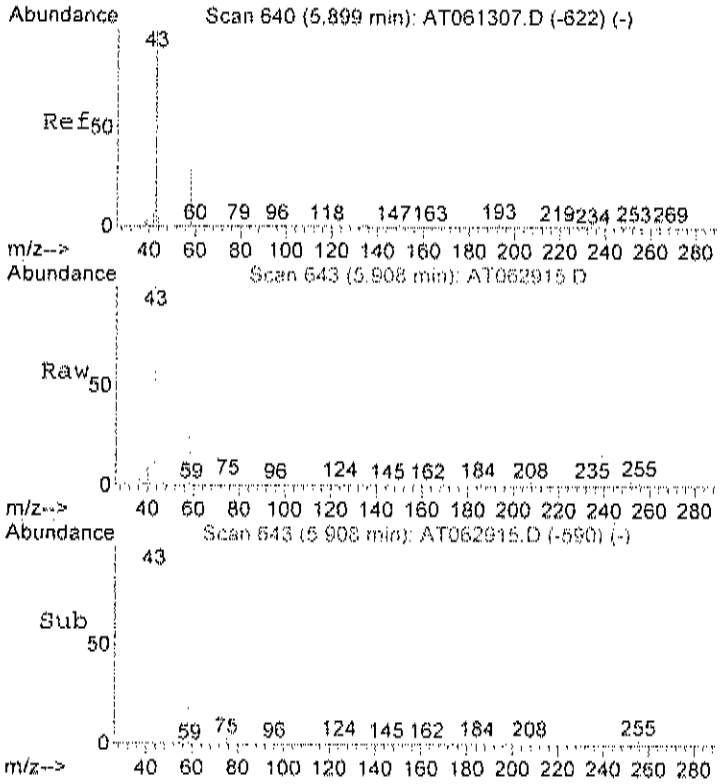
Vial: 15
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



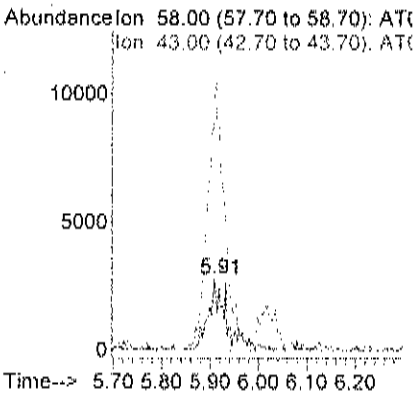
Centek/SanAir Laboratories



#15
Acetone
Concen: 0.60 ppb m
RT: 5.91 min Scan# 643
Delta R.T. 0.01 min
Lab File: AT062915.D
Acq: 29 Jun 2022 8:04 pm

Tgt Ion: 58 Resp: 7623

Ion	Ratio	Lower	Upper
58	100		
43	391.8	268.9	328.9#



Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-017A

Client Sample ID: SVW-16
Tag Number: 98151
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-4			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
HELIUM LEAK TEST		GC				Analyst: NP
Helium	ND	0.75		%	1	6/30/2022
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,2,4-Trimethylbenzene	0.22	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,3,5-Trimethylbenzene	0.14	0.15	J	ppbV	1	6/25/2022 6:10:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/25/2022 6:10:00 AM
2,2,4-trimethylpentane	0.29	0.15		ppbV	1	6/25/2022 6:10:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Acetone	5.0	3.0		ppbV	10	6/29/2022 8:47:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Benzene	0.32	0.15		ppbV	1	6/25/2022 6:10:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Bromoform	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Carbon disulfide	51	6.0		ppbV	40	6/29/2022 9:29:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Chloroform	0.36	0.15		ppbV	1	6/25/2022 6:10:00 AM
Chloromethane	0.75	0.15		ppbV	1	6/25/2022 6:10:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Cyclohexane	0.35	0.15		ppbV	1	6/25/2022 6:10:00 AM

Qualifiers:

- `*` Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-017A

Client Sample ID: SVW-16
Tag Number: 98151
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Ethyl acetate	0.47	0.15		ppbV	1	6/25/2022 6:10:00 AM
Ethylbenzene	0.17	0.15		ppbV	1	6/25/2022 6:10:00 AM
Freon 11	0.23	0.15		ppbV	1	6/25/2022 6:10:00 AM
Freon 113	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Freon 114	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Freon 12	0.44	0.15		ppbV	1	6/25/2022 6:10:00 AM
Heptane	0.23	0.15		ppbV	1	6/25/2022 6:10:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Hexane	0.29	0.15		ppbV	1	6/25/2022 6:10:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
m&p-Xylene	0.55	0.30		ppbV	1	6/25/2022 6:10:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/25/2022 6:10:00 AM
Methyl Ethyl Ketone	0.44	0.30		ppbV	1	6/25/2022 6:10:00 AM
Methyl Isobutyl Ketone	0.23	0.30	J	ppbV	1	6/25/2022 6:10:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Methylene chloride	1.7	0.15		ppbV	1	6/25/2022 6:10:00 AM
o-Xylene	0.21	0.15		ppbV	1	6/25/2022 6:10:00 AM
Propylene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Styrene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Tetrachloroethylene	0.13	0.15	J	ppbV	1	6/25/2022 6:10:00 AM
Tetrahydrofuran	0.26	0.15		ppbV	1	6/25/2022 6:10:00 AM
Toluene	1.4	0.15		ppbV	1	6/25/2022 6:10:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/25/2022 6:10:00 AM
Surr: Bromofluorobenzene	92.0	46.7-129		%REC	1	6/25/2022 6:10:00 AM

Qualifiers:

*	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-017A

Client Sample ID: SVW-16
Tag Number: 98,151
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 6:10:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/25/2022 6:10:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/25/2022 6:10:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 6:10:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 6:10:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/25/2022 6:10:00 AM
1,2,4-Trimethylbenzene	1.1	0.74		ug/m3	1	6/25/2022 6:10:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/25/2022 6:10:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 6:10:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/25/2022 6:10:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/25/2022 6:10:00 AM
1,3,5-Trimethylbenzene	0.69	0.74	J	ug/m3	1	6/25/2022 6:10:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/25/2022 6:10:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 6:10:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/25/2022 6:10:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/25/2022 6:10:00 AM
2,2,4-trimethylpentane	1.4	0.70		ug/m3	1	6/25/2022 6:10:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/25/2022 6:10:00 AM
Acetone	12	7.1		ug/m3	10	6/29/2022 8:47:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/25/2022 6:10:00 AM
Benzene	1.0	0.48		ug/m3	1	6/25/2022 6:10:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/25/2022 6:10:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/25/2022 6:10:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/25/2022 6:10:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/25/2022 6:10:00 AM
Carbon disulfide	160	19		ug/m3	40	6/29/2022 9:29:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/25/2022 6:10:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/25/2022 6:10:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	6/25/2022 6:10:00 AM
Chloroform	1.8	0.73		ug/m3	1	6/25/2022 6:10:00 AM
Chloromethane	1.5	0.31		ug/m3	1	6/25/2022 6:10:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 6:10:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 6:10:00 AM
Cyclohexane	1.2	0.52		ug/m3	1	6/25/2022 6:10:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/25/2022 6:10:00 AM
Ethyl acetate	1.7	0.54		ug/m3	1	6/25/2022 6:10:00 AM
Ethylbenzene	0.74	0.65		ug/m3	1	6/25/2022 6:10:00 AM
Freon 11	1.3	0.84		ug/m3	1	6/25/2022 6:10:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/25/2022 6:10:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/25/2022 6:10:00 AM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-017A

Client Sample ID: SVW-16
Tag Number: 98,151
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	2.2	0.74		ug/m3	1	6/25/2022 6:10:00 AM
Heptane	0.94	0.61		ug/m3	1	6/25/2022 6:10:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/25/2022 6:10:00 AM
Hexane	1.0	0.53		ug/m3	1	6/25/2022 6:10:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/25/2022 6:10:00 AM
m&p-Xylene	2.4	1.3		ug/m3	1	6/25/2022 6:10:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/25/2022 6:10:00 AM
Methyl Ethyl Ketone	1.3	0.88		ug/m3	1	6/25/2022 6:10:00 AM
Methyl Isobutyl Ketone	0.94	1.2	J	ug/m3	1	6/25/2022 6:10:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/25/2022 6:10:00 AM
Methylene chloride	5.8	0.52		ug/m3	1	6/25/2022 6:10:00 AM
o-Xylene	0.91	0.65		ug/m3	1	6/25/2022 6:10:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/25/2022 6:10:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/25/2022 6:10:00 AM
Tetrachloroethylene	0.88	1.0	J	ug/m3	1	6/25/2022 6:10:00 AM
Tetrahydrofuran	0.77	0.44		ug/m3	1	6/25/2022 6:10:00 AM
Toluene	5.2	0.57		ug/m3	1	6/25/2022 6:10:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/25/2022 6:10:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/25/2022 6:10:00 AM
Trichloroethene	< 0.81	0.81		ug/m3	1	6/25/2022 6:10:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/25/2022 6:10:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/25/2022 6:10:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/25/2022 6:10:00 AM

Qualifiers:

- . Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062427.D Vial: 26
Acq On : 25 Jun 2022 6:10 am Operator: RJP
Sample : C2206048-017A Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 27 11:12:50 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

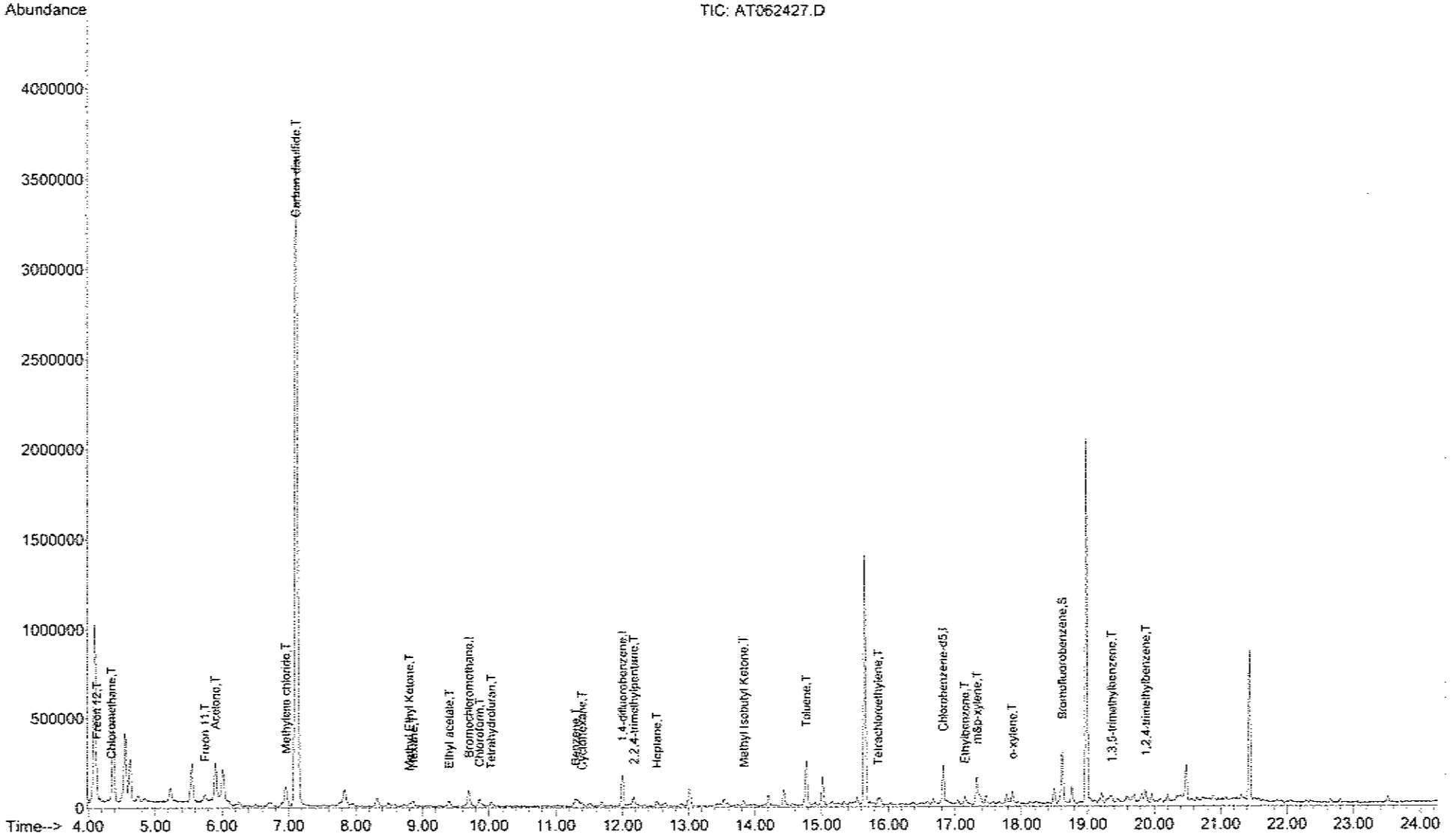
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.70	128	37622	1.00	ppb		0.00
35) 1,4-difluorobenzene	12.00	114	176925	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	154718	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	102848	0.92	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 92.00%				
Target Compounds							Qvalue
3) Freon 12	4.14	85	76167	0.44	ppb		97
4) Chloromethane	4.34	50	31880	0.75	ppb		80
14) Freon 11	5.75	101	48527	0.23	ppb		99
15) Acetone	5.90	58	127031	5.81	ppb		96
21) Methylene chloride	6.96	84	79744	1.67	ppb		95
23) Carbon disulfide	7.12	76	7847379	55.17	ppb		99
28) Methyl Ethyl Ketone	8.81	72	8114	0.44	ppb	#	100
30) Hexane	8.86	57	16367	0.29	ppb		85
31) Ethyl acetate	9.40	43	41044	0.47	ppb		97
32) Chloroform	9.85	83	42540	0.36	ppb		97
33) Tetrahydrofuran	10.02	42	8385	0.26	ppb	#	68
37) Cyclohexane	11.40	56	18694	0.35	ppb	#	40
39) Benzene	11.30	78	40640	0.32	ppb		97
42) 2,2,4-trimethylpentane	12.17	57	48910	0.29	ppb		85
43) Heptane	12.52	43	13478	0.23	ppb	#	75
51) Toluene	14.77	92	126937	1.39	ppb		99
52) Methyl Isobutyl Ketone	13.83	43	18706	0.23	ppb		93
56) Tetrachloroethylene	15.85	164	9341	0.13	ppb		98
58) Ethylbenzene	17.15	91	35090	0.17	ppb		98
59) m&p-xylene	17.34	91	94494	0.55	ppb		98
63) o-xylene	17.87	91	37807	0.21	ppb		99
70) 1,3,5-trimethylbenzene	19.36	105	29034m	0.14	ppb		
71) 1,2,4-trimethylbenzene	19.87	105	46419	0.22	ppb		97

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

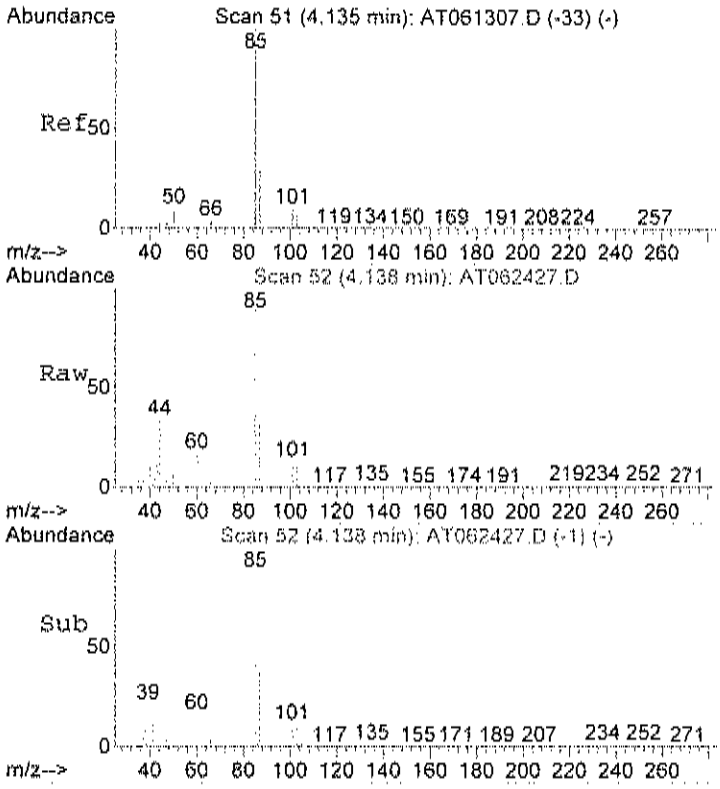
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062427.D Vial: 26
Acq On : 25 Jun 2022 6:10 am Operator: RJP
Sample : C2206048-017A Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 15:26 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



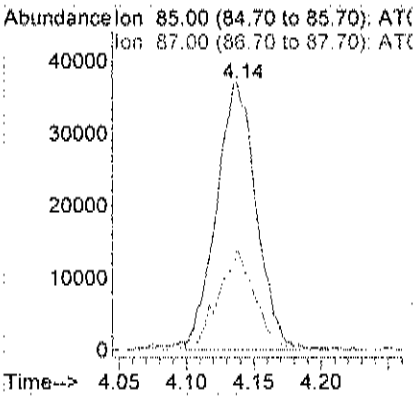
Centek/SanAir Laboratories

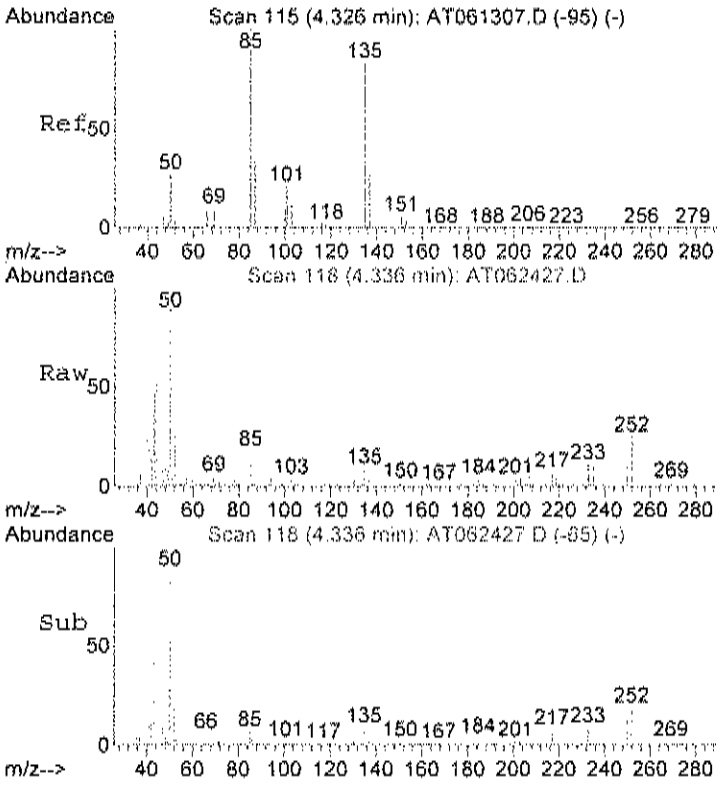


#3
Freon 12
Concen: 0.44 ppb
RT: 4.14 min Scan# 52
Delta R.T. 0.00 min
Lab File: AT062427.D
Acq: 25 Jun 2022 6:10 am

Tgt Ion: 85 Resp: 76167

Ion	Ratio	Lower	Upper
85	100		
87	34.6	12.8	52.8

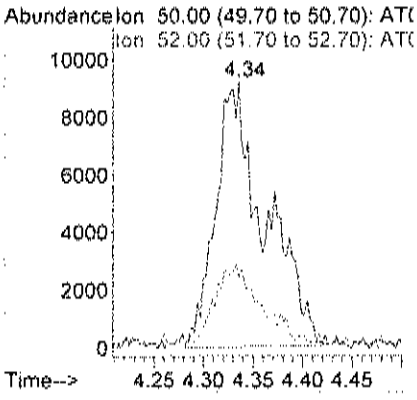


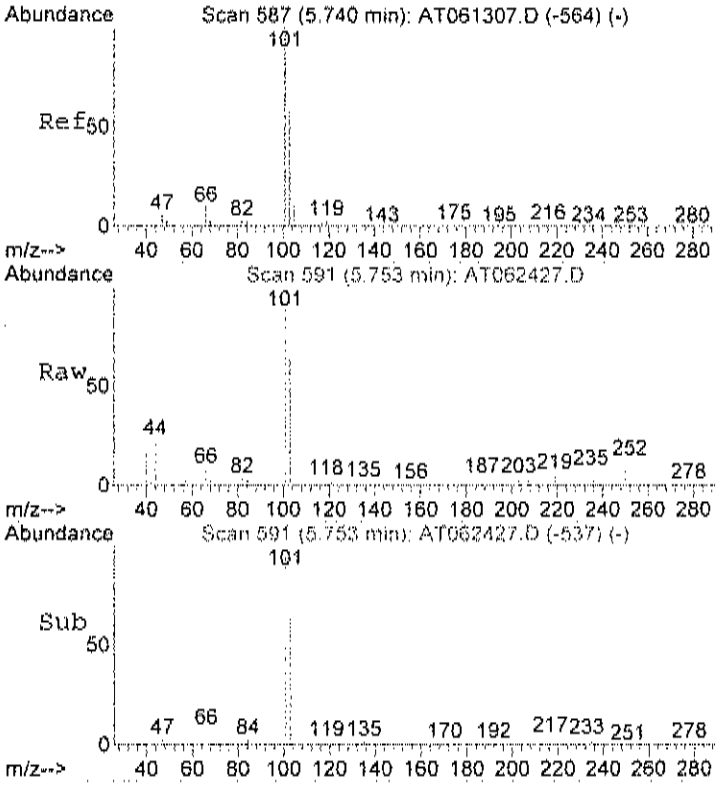


#4
Chloromethane
Concen: 0.75 ppb
RT: 4.34 min Scan# 118
Delta R.T. 0.01 min
Lab File: AT062427.D
Acq: 25 Jun 2022 6:10 am

Tgt Ion: 50 Resp: 31880

Ion	Ratio	Lower	Upper
50	100		
52	32.2	2.7	42.7

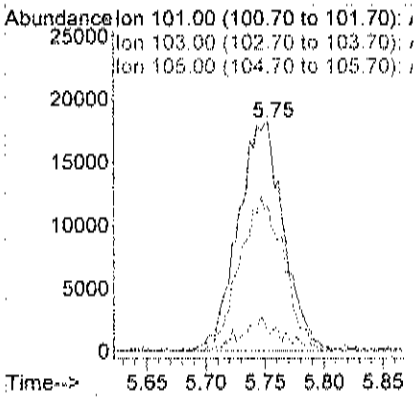


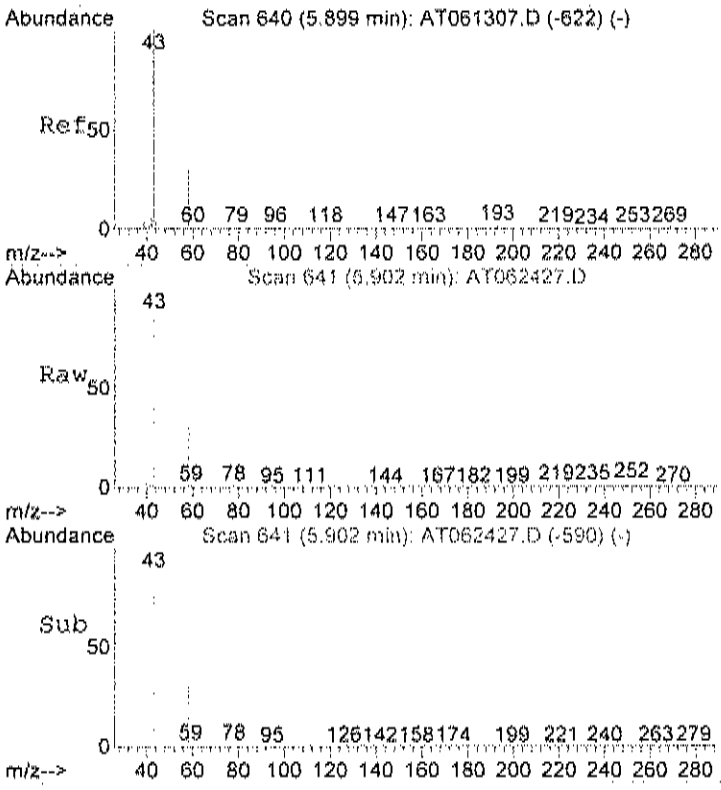


#14
Freon 11
Concen: 0.23 ppb
RT: 5.75 min Scan# 591
Delta R.T. 0.01 min
Lab File: AT062427.D
Acq: 25 Jun 2022 6:10 am

Tgt Ion:101 Resp: 48527

Ion	Ratio	Lower	Upper
101	100		
103	66.8	46.3	86.3
105	12.7	0.0	31.2

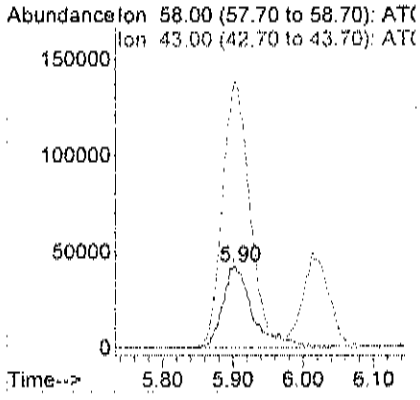


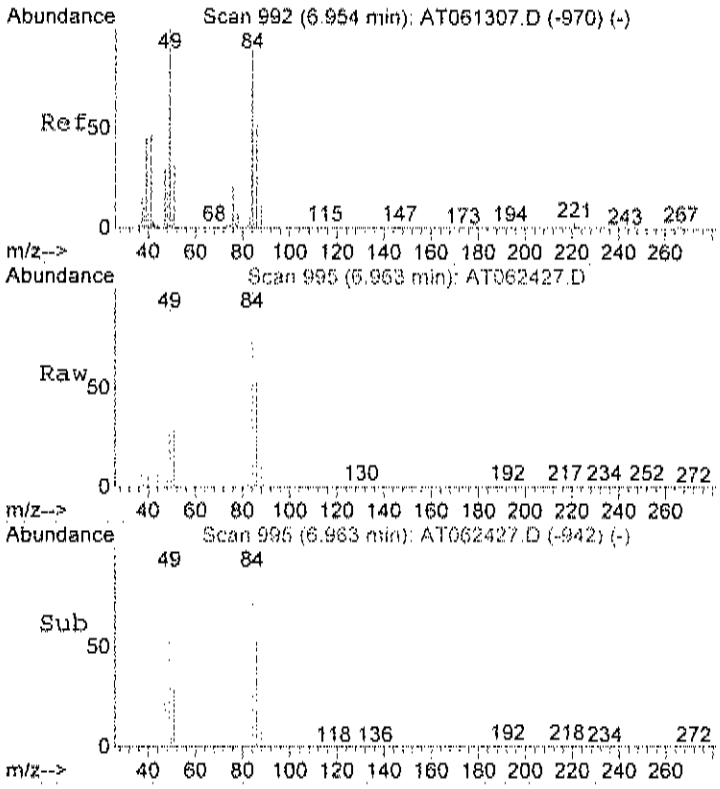


#15
Acetone
Concen: 5.81 ppb
RT: 5.90 min Scan# 641
Delta R.T. 0.00 min
Lab File: AT062427.D
Acq: 25 Jun 2022 6:10 am

Tgt Ion: 58 Resp: 127031

Ion	Ratio	Lower	Upper
58	100		
43	290.9	268.9	328.9

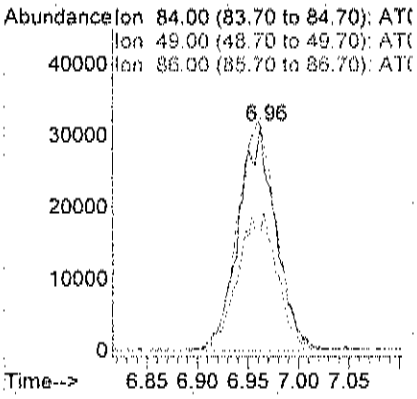


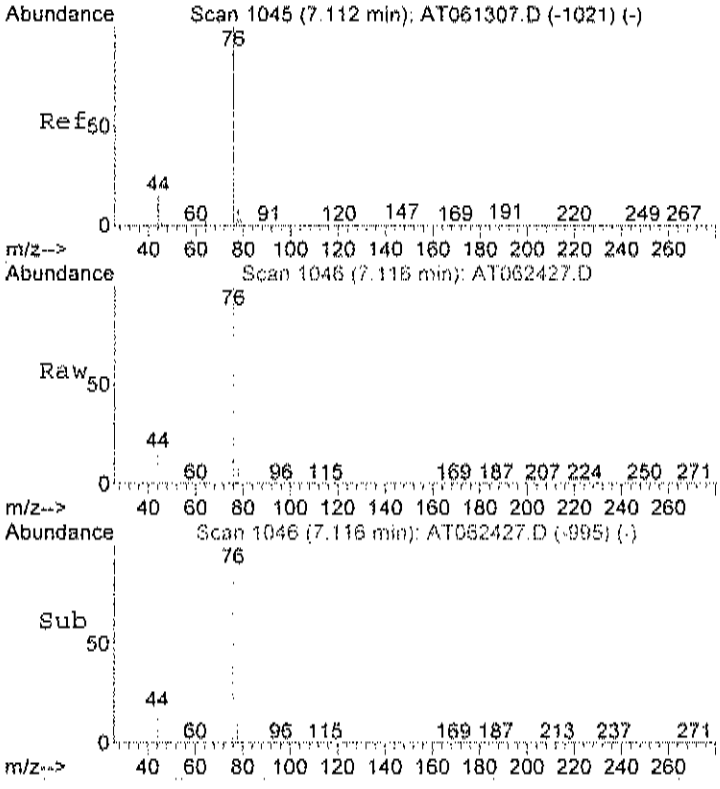


#21
Methylene chloride
Concen: 1.67 ppb
RT: 6.96 min Scan# 995
Delta R.T. 0.01 min
Lab File: AT062427.D
Acq: 25 Jun 2022 6:10 am

Tgt Ion: 84 Resp: 79744

Ion	Ratio	Lower	Upper
84	100		
49	106.4	93.2	133.2
86	64.7	46.4	86.4

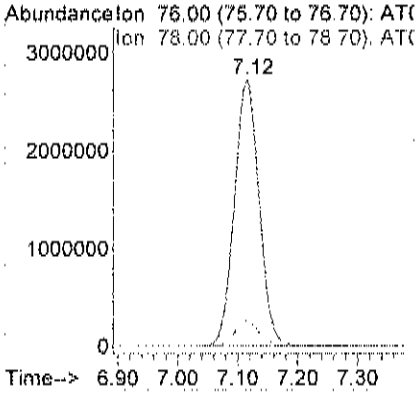


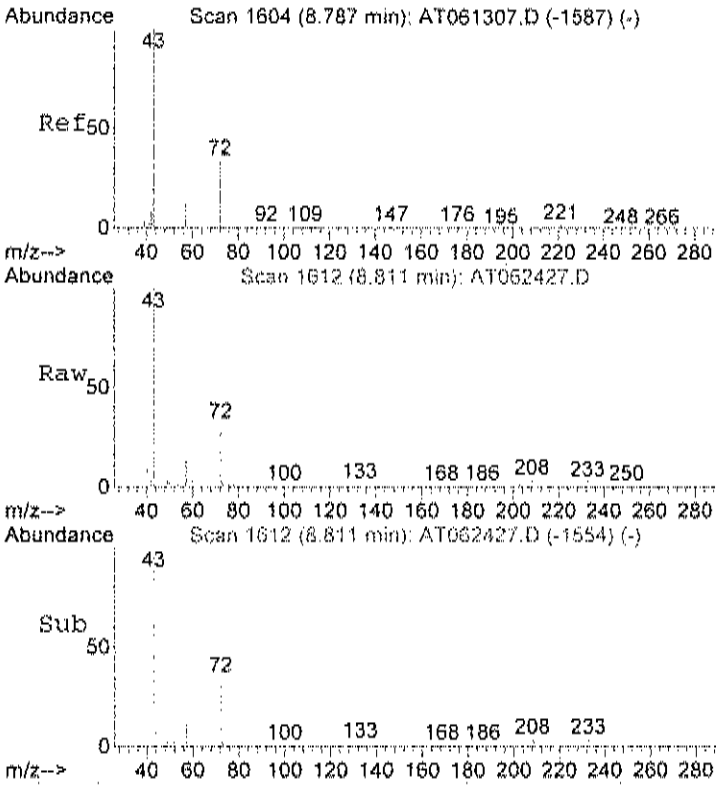


#23
Carbon disulfide
Concen: 55.17 ppb
RT: 7.12 min Scan# 1046
Delta R.T. 0.00 min
Lab File: AT062427.D
Acq: 25 Jun 2022 6:10 am

Tgt Ion: 76 Resp: 7847379

Ion	Ratio	Lower	Upper
76	100		
78	9.5	0.0	29.7

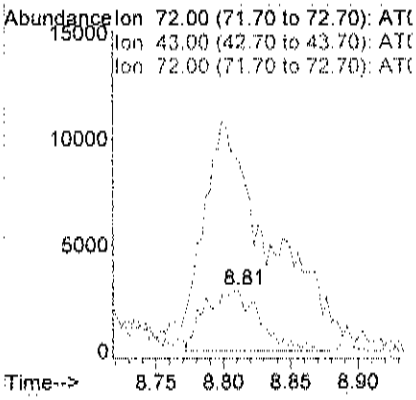


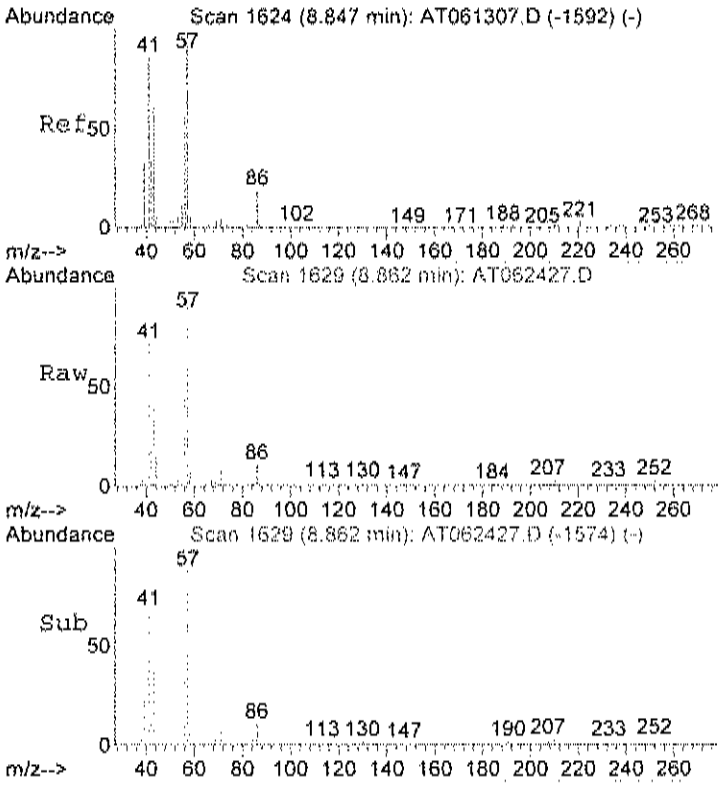


#28
Methyl Ethyl Ketone
Concen: 0.44 ppb
RT: 8.81 min Scan# 1612
Delta R.T. 0.02 min
Lab File: AT062427.D
Acq: 25 Jun 2022 6:10 am

Tgt Ion: 72 Resp: 8114

Ion	Ratio	Lower	Upper
72	100		
43	482.8	0.0	20.0#
72	100.0	80.0	120.0

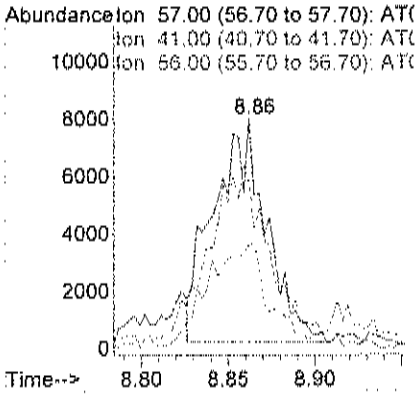


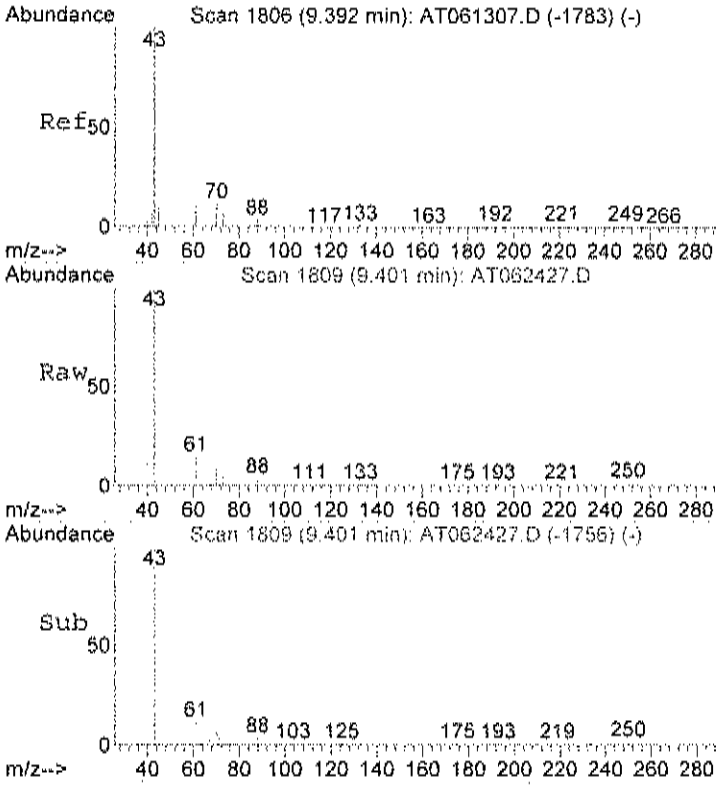


#30
Hexane
Concen: 0.29 ppb
RT: 8.86 min Scan# 1629
Delta R.T. 0.02 min
Lab File: AT062427.D
Acq: 25 Jun 2022 6:10 am

Tgt Ion: 57 Resp: 16367

Ion	Ratio	Lower	Upper
57	100		
41	93.8	58.1	98.1
56	55.8	28.7	68.7

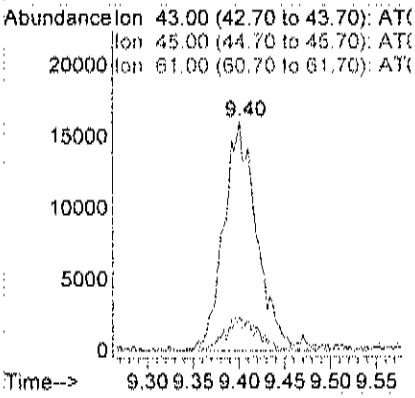


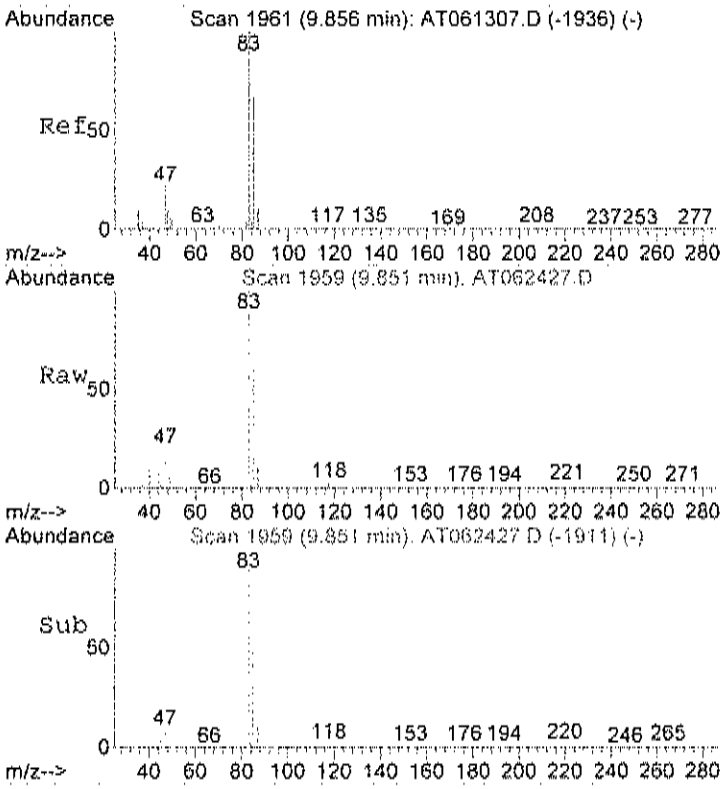


#31
Ethyl acetate
Concen: 0.47 ppb
RT: 9.40 min Scan# 1809
Delta R.T. 0.01 min
Lab File: AT062427.D
Acq: 25 Jun 2022 6:10 am

Tgt Ion: 43 Resp: 41044

Ion	Ratio	Lower	Upper
43	100		
45	10.9	0.0	33.7
61	14.7	0.0	34.7

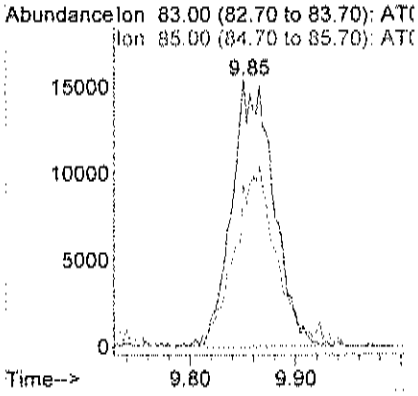


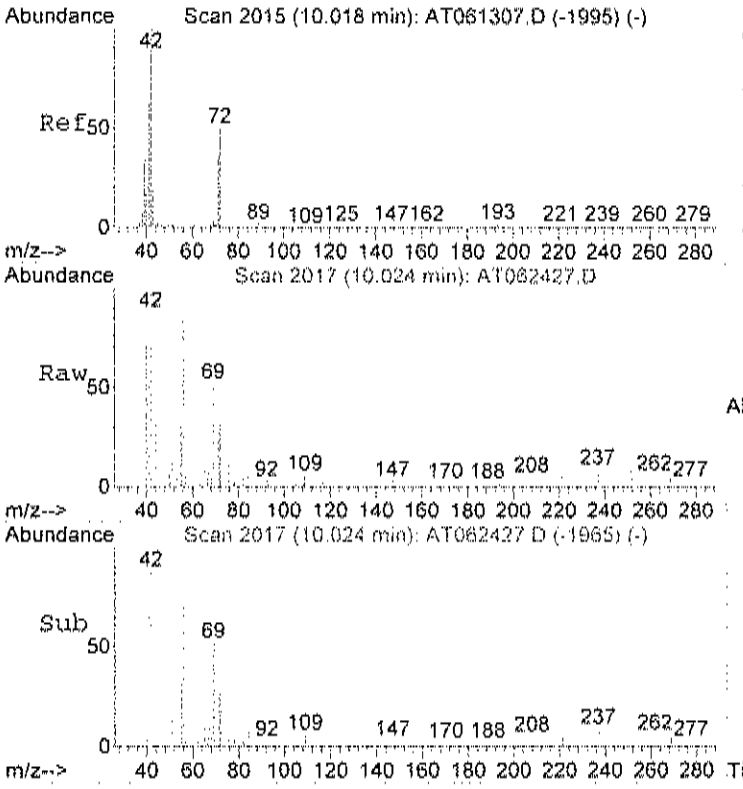


#32
Chloroform
Concen: 0.36 ppb
RT: 9.85 min Scan# 1959
Delta R.T. -0.01 min
Lab File: AT062427.D
Acq: 25 Jun 2022 6:10 am

Tgt Ion: 83 Resp: 42540

Ion	Ratio	Lower	Upper
83	100		
85	68.9	46.5	86.5

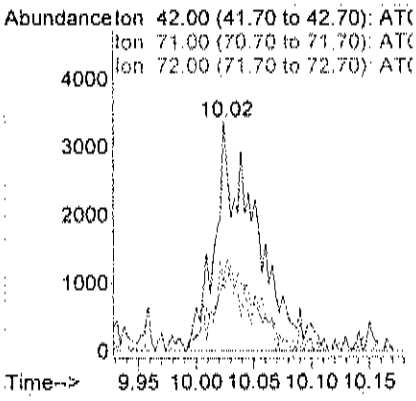


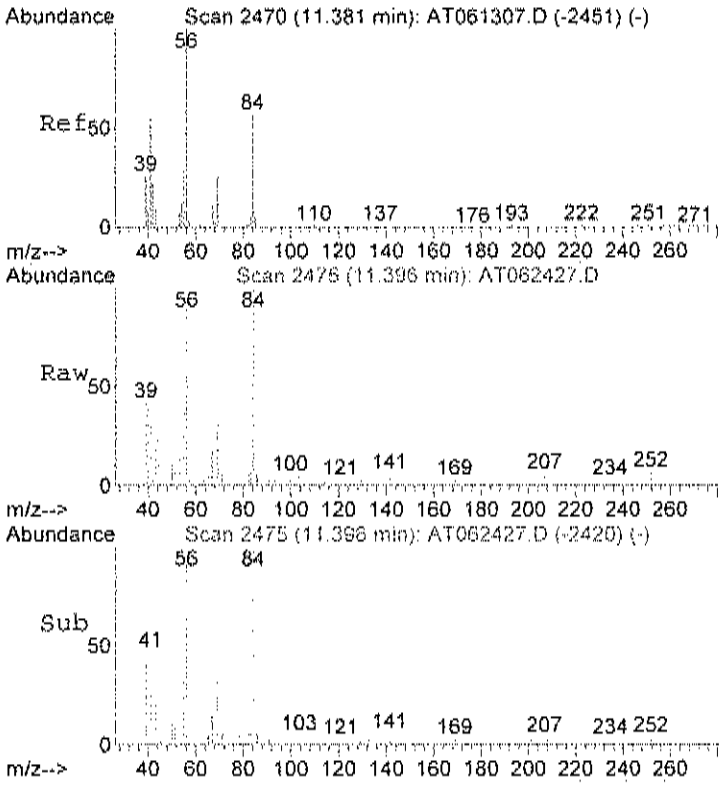


#33
Tetrahydrofuran
Concen: 0.26 ppb
RT: 10.02 min Scan# 2017
Delta R.T. 0.01 min
Lab File: AT062427.D
Acq: 25 Jun 2022 6:10 am

Tgt Ion: 42 Resp: 8385

Ion	Ratio	Lower	Upper
42	100		
71	32.2	38.0	78.0#
72	34.6	35.0	75.0#

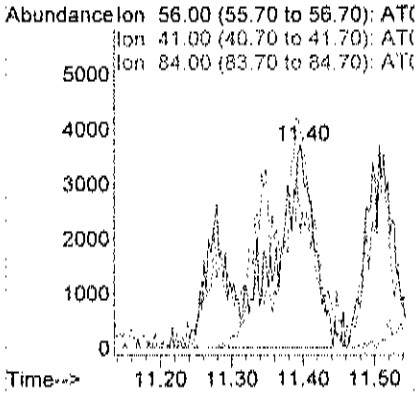


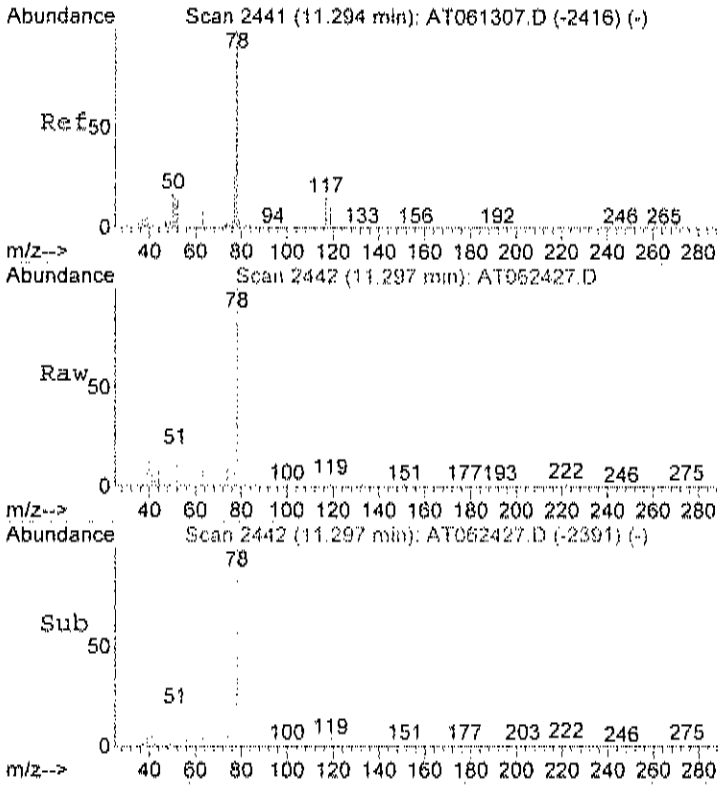


#37
Cyclohexane
Concen: 0.35 ppb
RT: 11.40 min Scan# 2475
Delta R.T. 0.02 min
Lab File: AT062427.D
Acq: 25 Jun 2022 6:10 am

Tgt Ion: 56 Resp: 18694

Ion	Ratio	Lower	Upper
56	100		
41	101.8	40.3	80.3#
84	73.7	133.0	173.0#

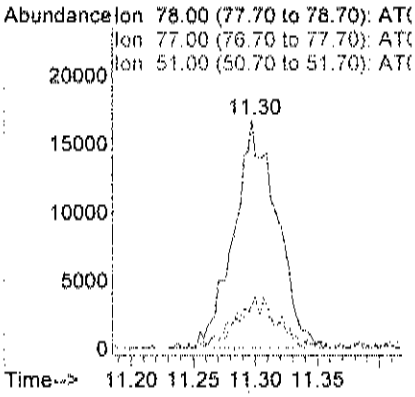


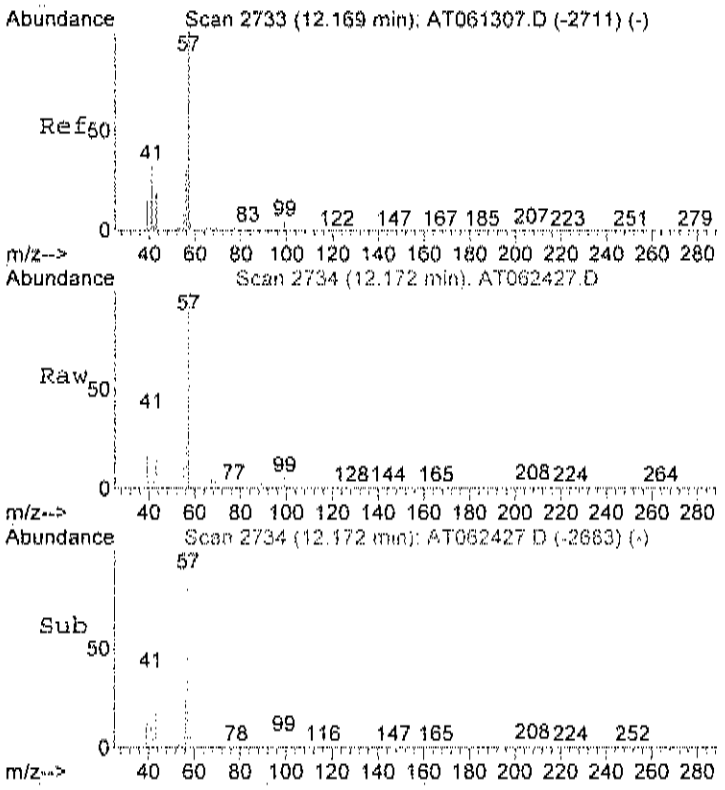


#39
Benzene
Concen: 0.32 ppb
RT: 11.30 min Scan# 2442
Delta R.T. 0.00 min
Lab File: AT062427.D
Acq: 25 Jun 2022 6:10 am

Tgt Ion: 78 Resp: 40640

Ion	Ratio	Lower	Upper
78	100		
77	23.4	3.1	43.1
51	20.0	0.0	37.8

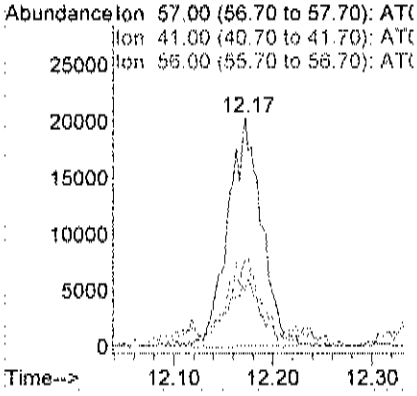


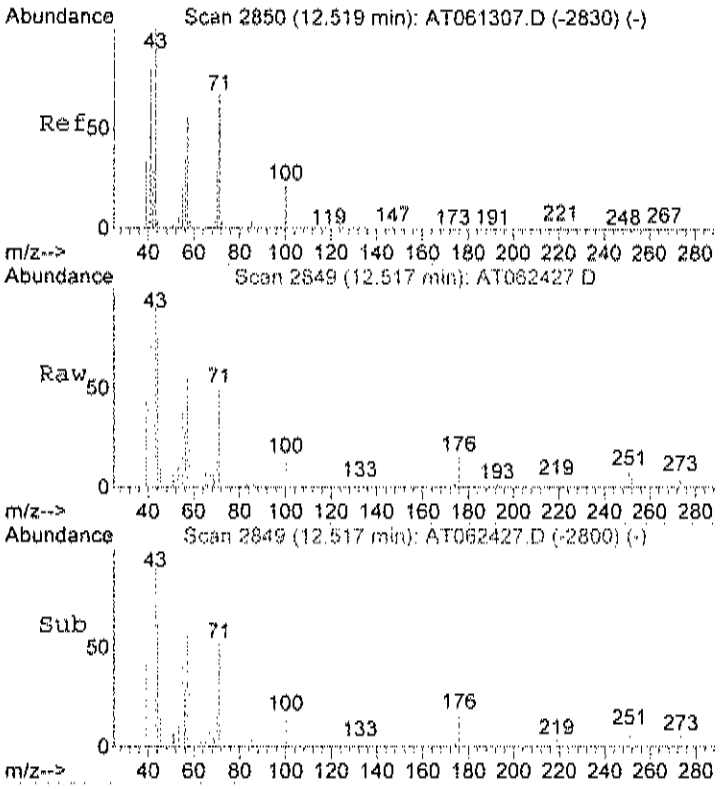


#42
2,2,4-trimethylpentane
Concen: 0.29 ppb
RT: 12.17 min Scan# 2734
Delta R.T. 0.00 min
Lab File: AT062427.D
Acq: 25 Jun 2022 6:10 am

Tgt Ion: 57 Resp: 48910

Ion	Ratio	Lower	Upper
57	100		
41	44.4	15.3	55.3
56	38.2	10.1	50.1

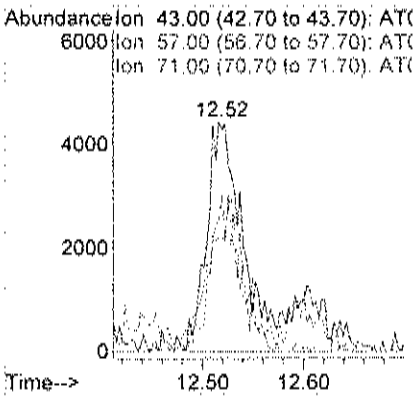


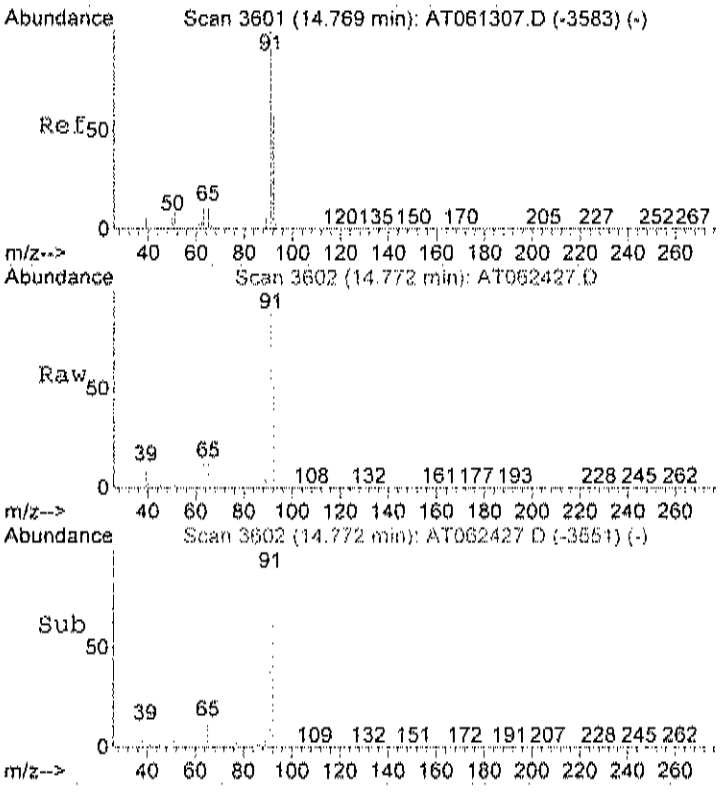


#43
Heptane
Concen: 0.23 ppb
RT: 12.52 min Scan# 2849
Delta R.T. -0.00 min
Lab File: AT062427.D
Acq: 25 Jun 2022 6:10 am

Tgt Ion: 43 Resp: 13478

Ion	Ratio	Lower	Upper
43	100		
57	52.4	41.7	81.7
71	43.4	53.4	93.4#

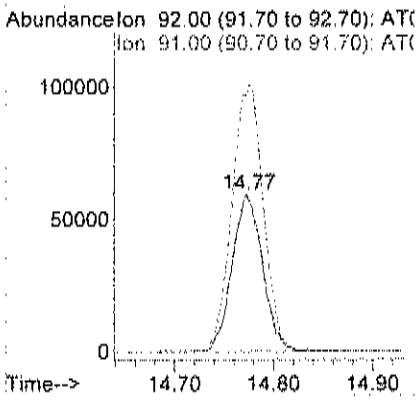


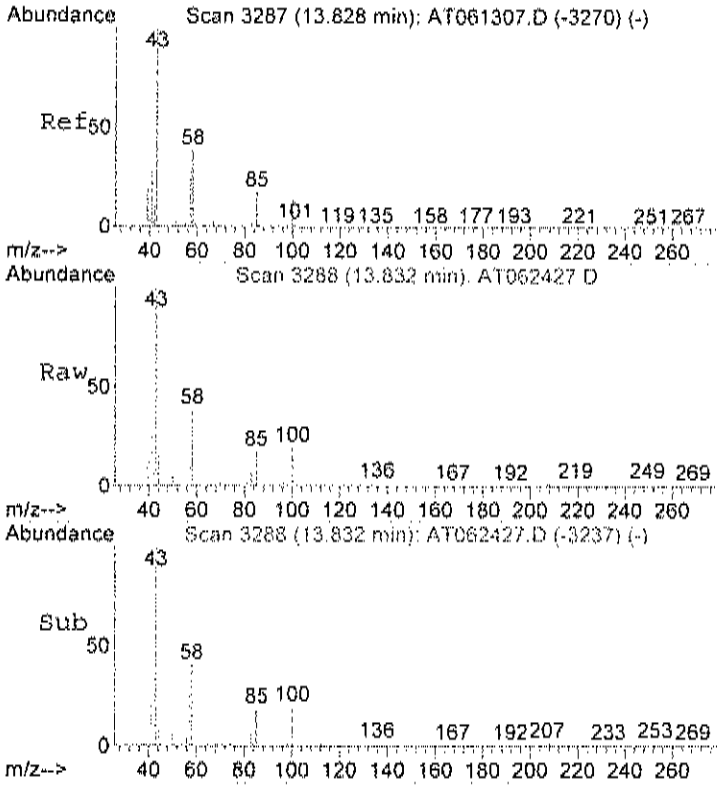


#51
Toluene
Concen: 1.39 ppb
RT: 14.77 min Scan# 3602
Delta R.T. 0.00 min
Lab File: AT062427.D
Acq: 25 Jun 2022 6:10 am

Tgt Ion: 92 Resp: 126937

Ion	Ratio	Lower	Upper
92	100		
91	176.2	154.4	194.4

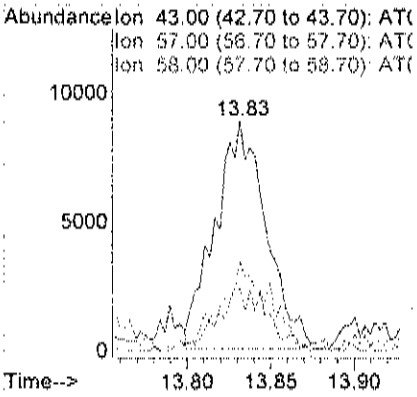


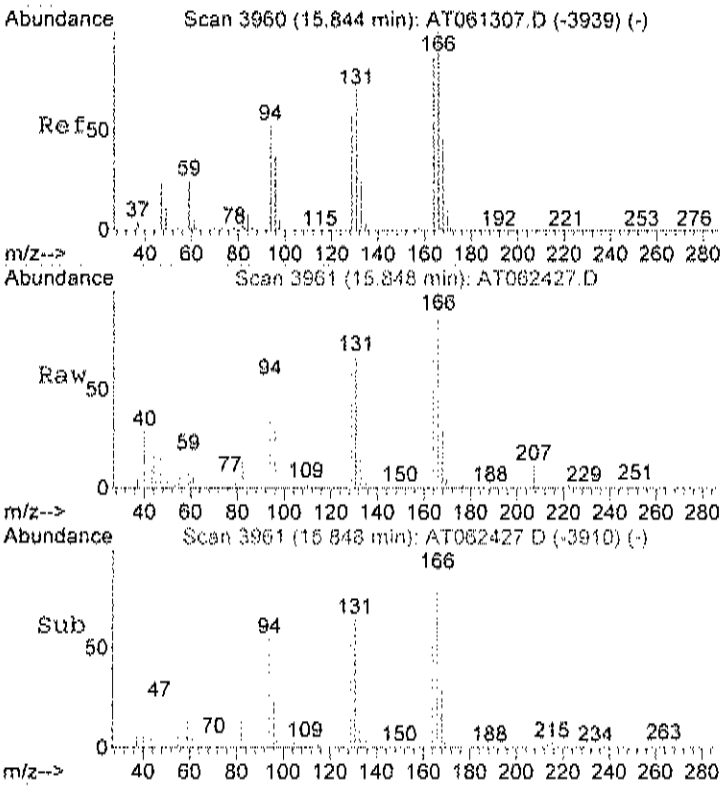


#52
Methyl Isobutyl Ketone
Concen: 0.23 ppb
RT: 13.83 min Scan# 3288
Delta R.T. 0.00 min
Lab File: AT062427.D
Acq: 25 Jun 2022 6:10 am

Tgt Ion: 43 Resp: 18706

Ion	Ratio	Lower	Upper
43	100		
57	27.6	9.3	49.3
58	36.0	22.0	62.0

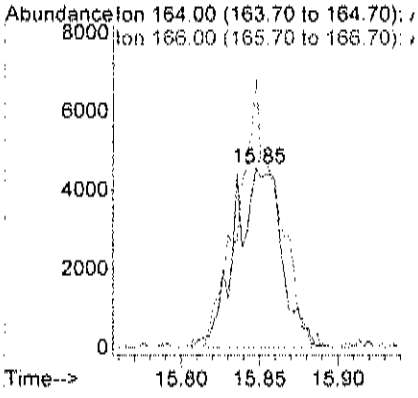


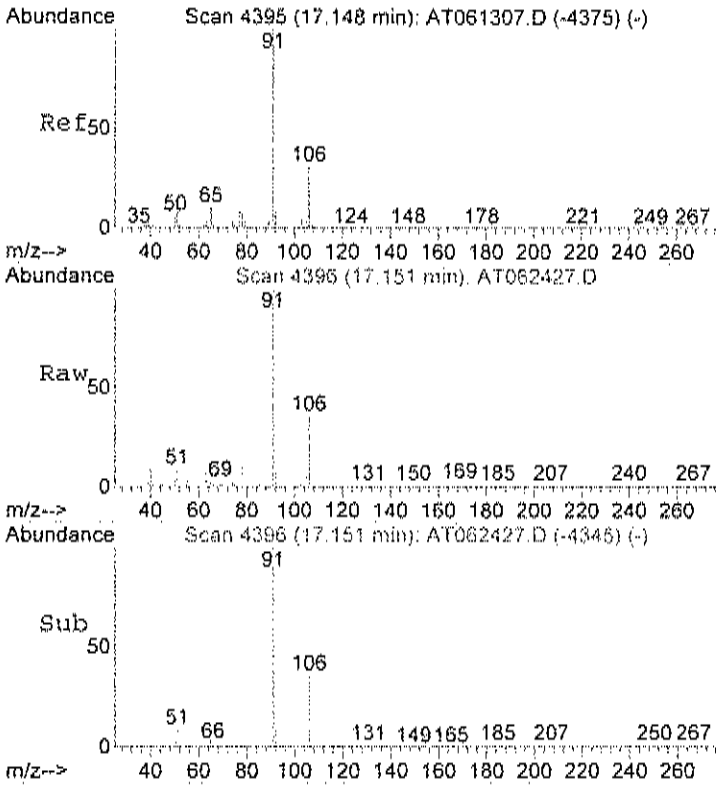


#56
Tetrachloroethylene
Concen: 0.13 ppb
RT: 15.85 min Scan# 3961
Delta R.T. 0.00 min
Lab File: AT062427.D
Acq: 25 Jun 2022 6:10 am

Tgt Ion:164 Resp: 9341

Ion	Ratio	Lower	Upper
164	100		
166	125.3	107.7	147.7

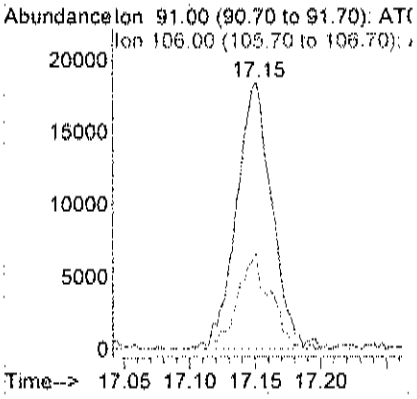


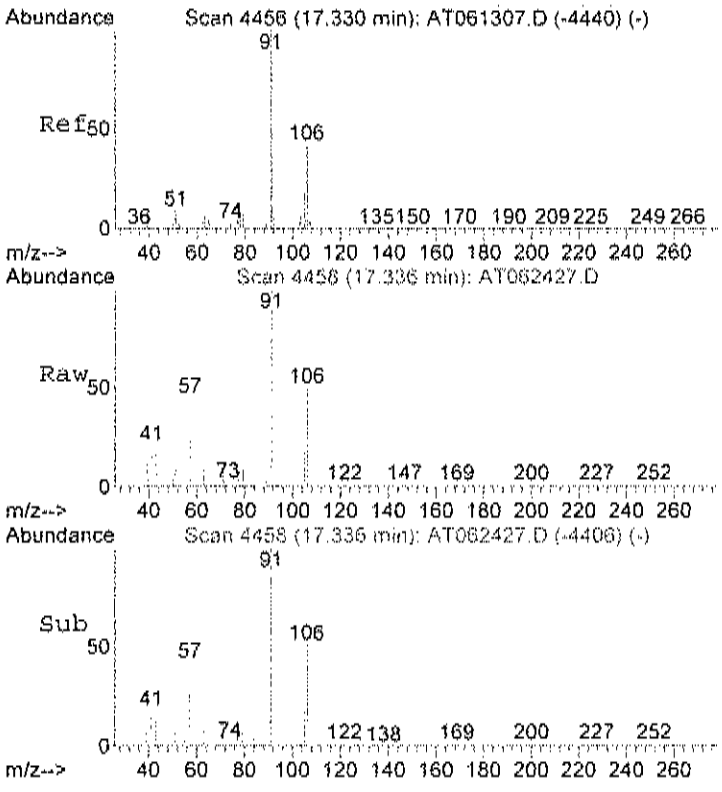


#58
Ethylbenzene
Concen: 0.17 ppb
RT: 17.15 min Scan# 4396
Delta R.T. 0.00 min
Lab File: AT062427.D
Acq: 25 Jun 2022 6:10 am

Tgt Ion: 91 Resp: 35090

Ion	Ratio	Lower	Upper
91	100		
106	32.8	11.5	51.5

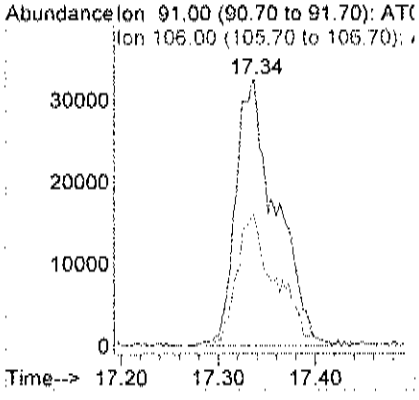


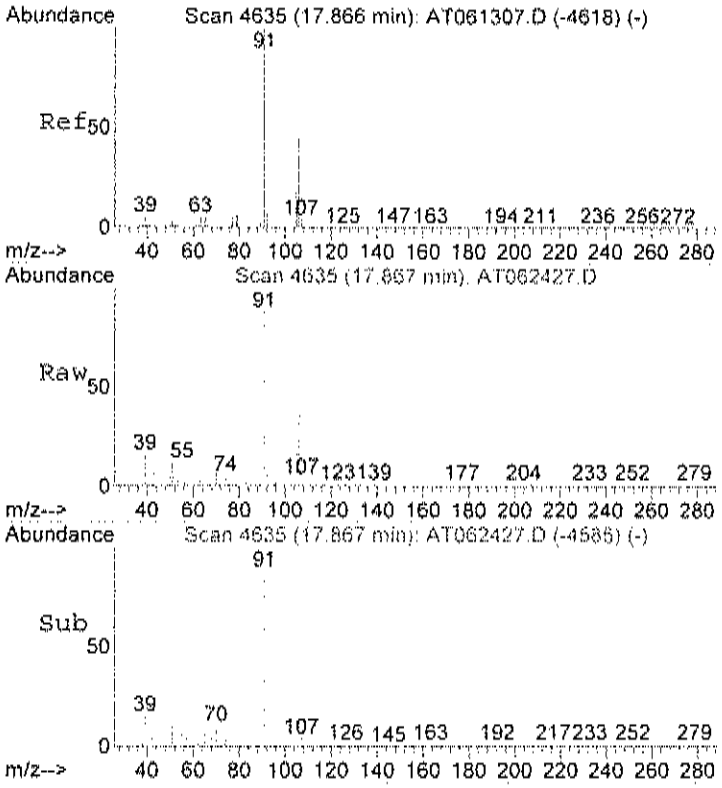


#59
m&p-xylene
Concen: 0.55 ppb
RT: 17.34 min Scan# 4458
Delta R.T. 0.01 min
Lab File: AT062427.D
Acq: 25 Jun 2022 6:10 am

Tgt Ion: 91 Resp: 94494

Ion	Ratio	Lower	Upper
91	100		
106	46.9	27.9	67.9

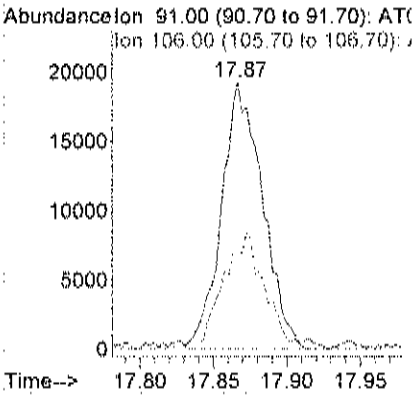


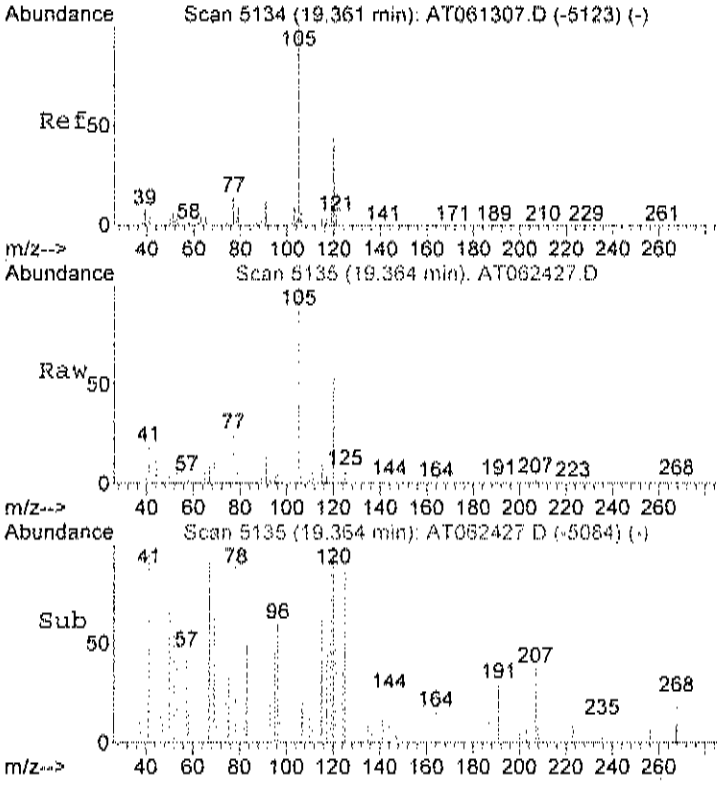


#63
o-xylene
Concen: 0.21 ppb
RT: 17.87 min Scan# 4635
Delta R.T. 0.00 min
Lab File: AT062427.D
Acq: 25 Jun 2022 6:10 am

Tgt Ion: 91 Resp: 37807

Ion	Ratio	Lower	Upper
91	100		
106	44.3	25.1	65.1

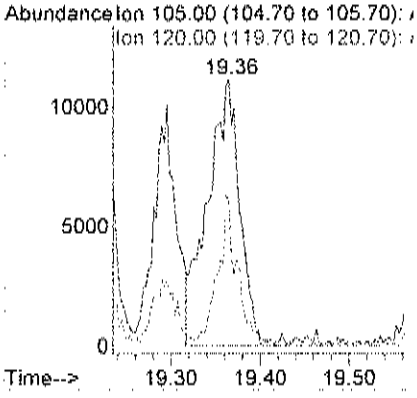


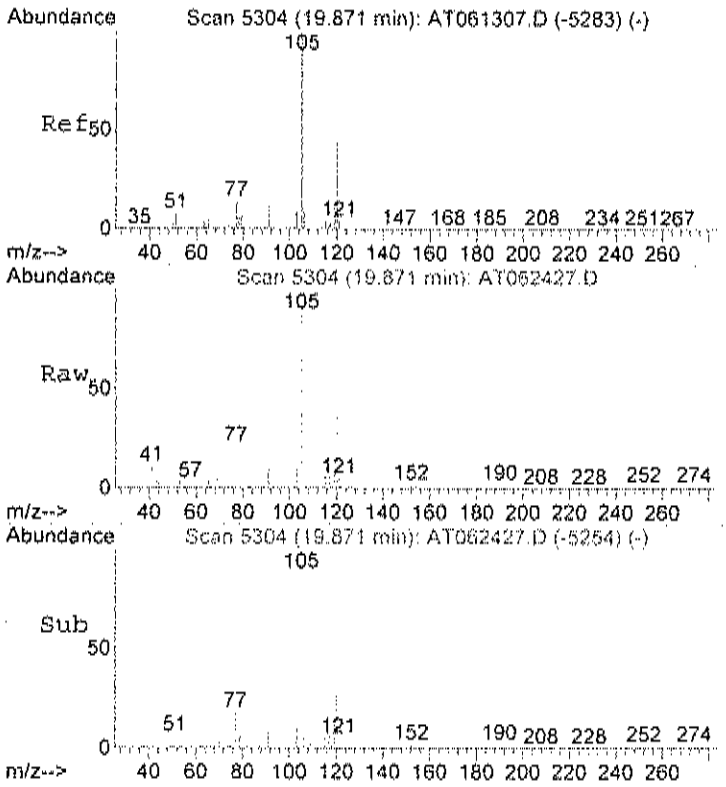


#70
1,3,5-trimethylbenzene
Concen: 0.14 ppb m
RT: 19.36 min Scan# 5135
Delta R.T. 0.00 min
Lab File: AT062427.D
Acq: 25 Jun 2022 6:10 am

Tgt Ion:105 Resp: 29034

Ion	Ratio	Lower	Upper
105	100		
120	32.8	26.2	66.2

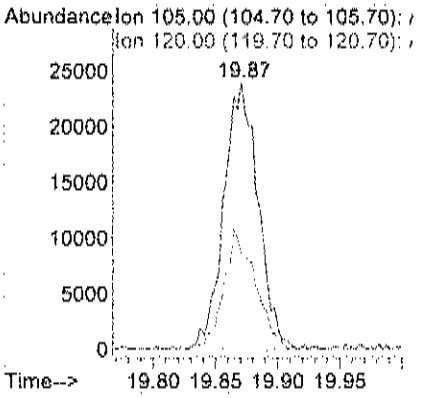




#71
1,2,4-trimethylbenzene
Concen: 0.22 ppb
RT: 19.87 min Scan# 5304
Delta R.T. 0.00 min
Lab File: AT062427.D
Acq: 25 Jun 2022 6:10 am

Tgt Ion:105 Resp: 46419

Ion	Ratio	Lower	Upper
105	100		
120	42.0	23.8	63.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062916.D Vial: 16
Acq On : 29 Jun 2022 8:47 pm Operator: RJP
Sample : C2206048-017A 10X Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 07:33:22 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.69	128	22253	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.00	114	90116	1.00	ppb	0.00
50) Chlorobenzene-d5	16.82	117	83886	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.61	95	51762	0.85	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 85.00%			
Target Compounds						Qvalue
15) Acetone	5.91	58	6477	0.50	ppb	# 32
23) Carbon disulfide	7.11	76	479777	5.70	ppb	100

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

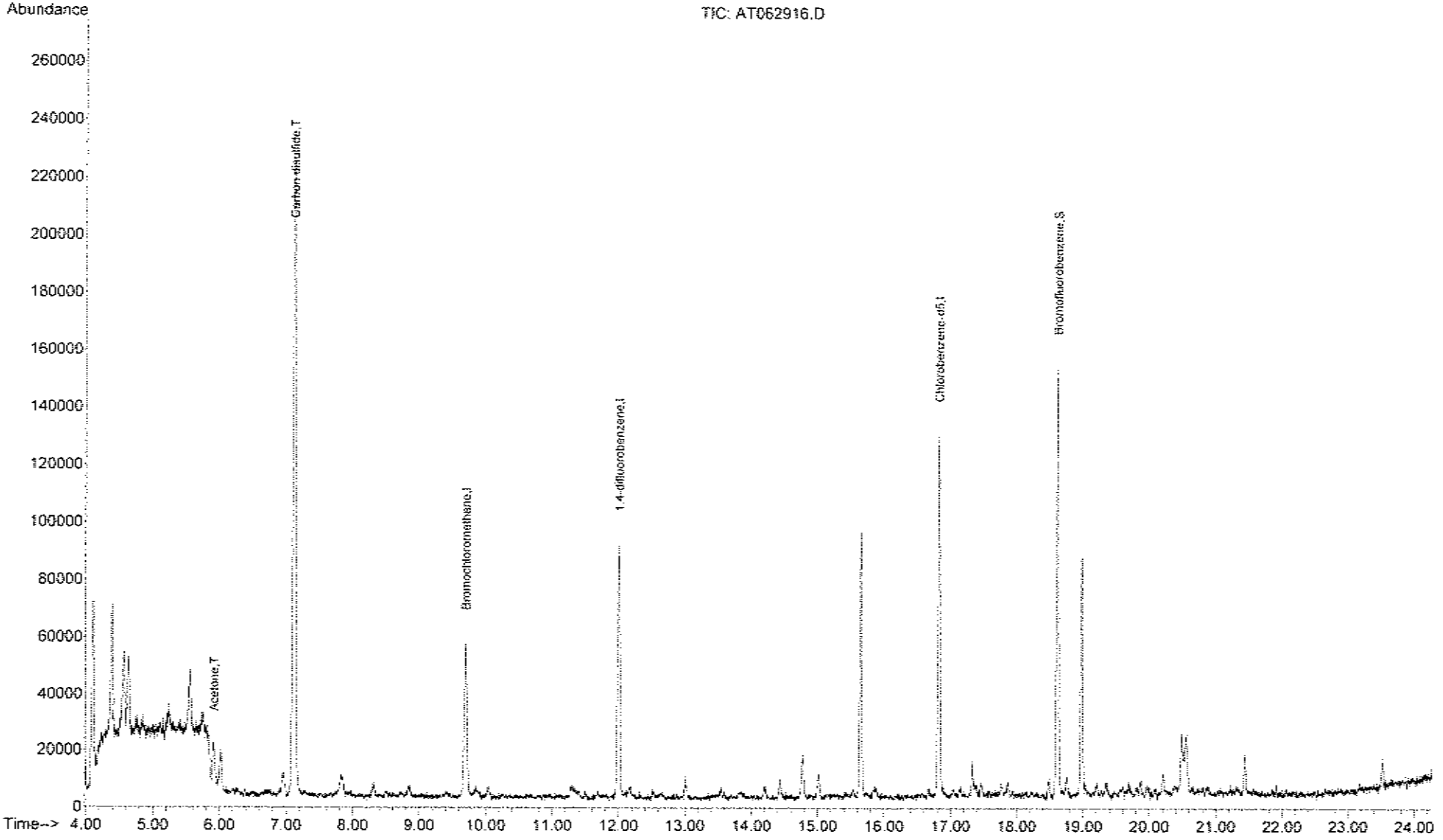
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062916.D
Acq On : 29 Jun 2022 8:47 pm
Sample : C2206048-017A 10X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 30 8:14 2022

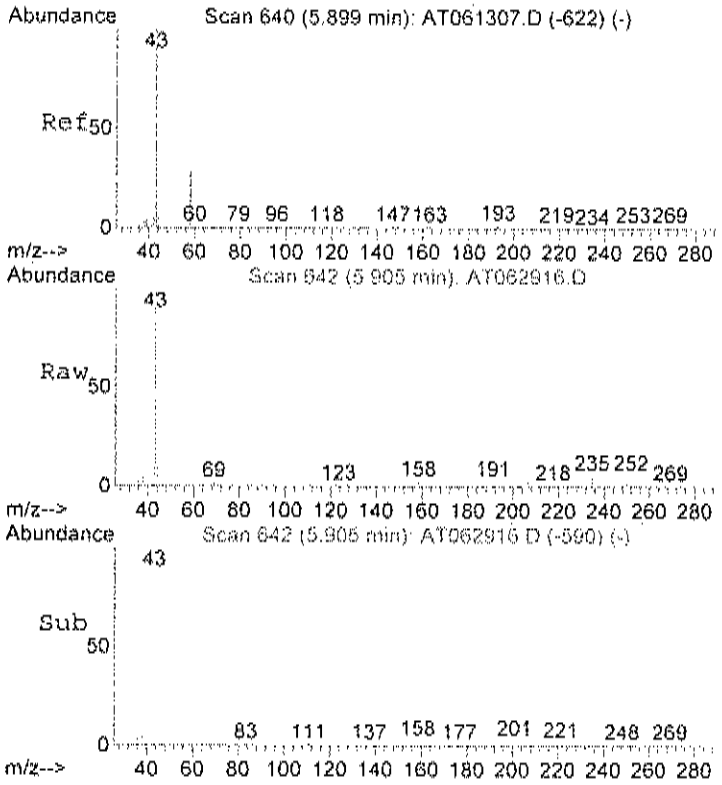
Vial: 16
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



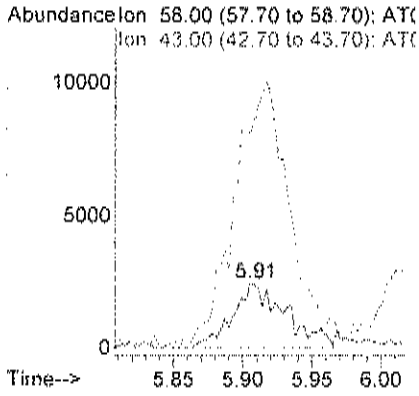
Centek/SanAir Laboratories

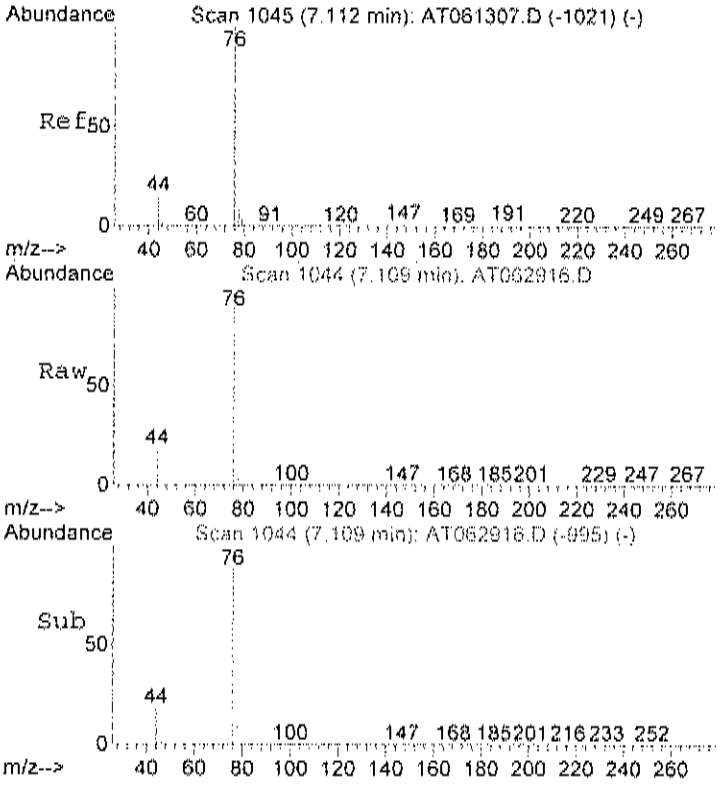


#15
Acetone
Concen: 0.50 ppb
RT: 5.91 min Scan# 642
Delta R.T. 0.01 min
Lab File: AT062916.D
Acq: 29 Jun 2022 8:47 pm

Tgt Ion: 58 Resp: 6477

Ion	Ratio	Lower	Upper
58	100		
43	431.8	268.9	328.9#

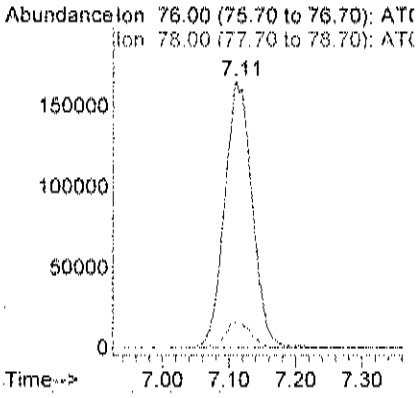




#23
Carbon disulfide
Concen: 5.70 ppb
RT: 7.11 min Scan# 1044
Delta R.T. -0.00 min
Lab File: AT062916.D
Acq: 29 Jun 2022 8:47 pm

Tgt Ion: 76 Resp: 479777

Ion	Ratio	Lower	Upper
76	100		
78	9.6	0.0	29.7



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062917.D Vial: 17
Acq On : 29 Jun 2022 9:29 pm Operator: RJP
Sample : C2206048-017A 40X Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 07:33:23 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

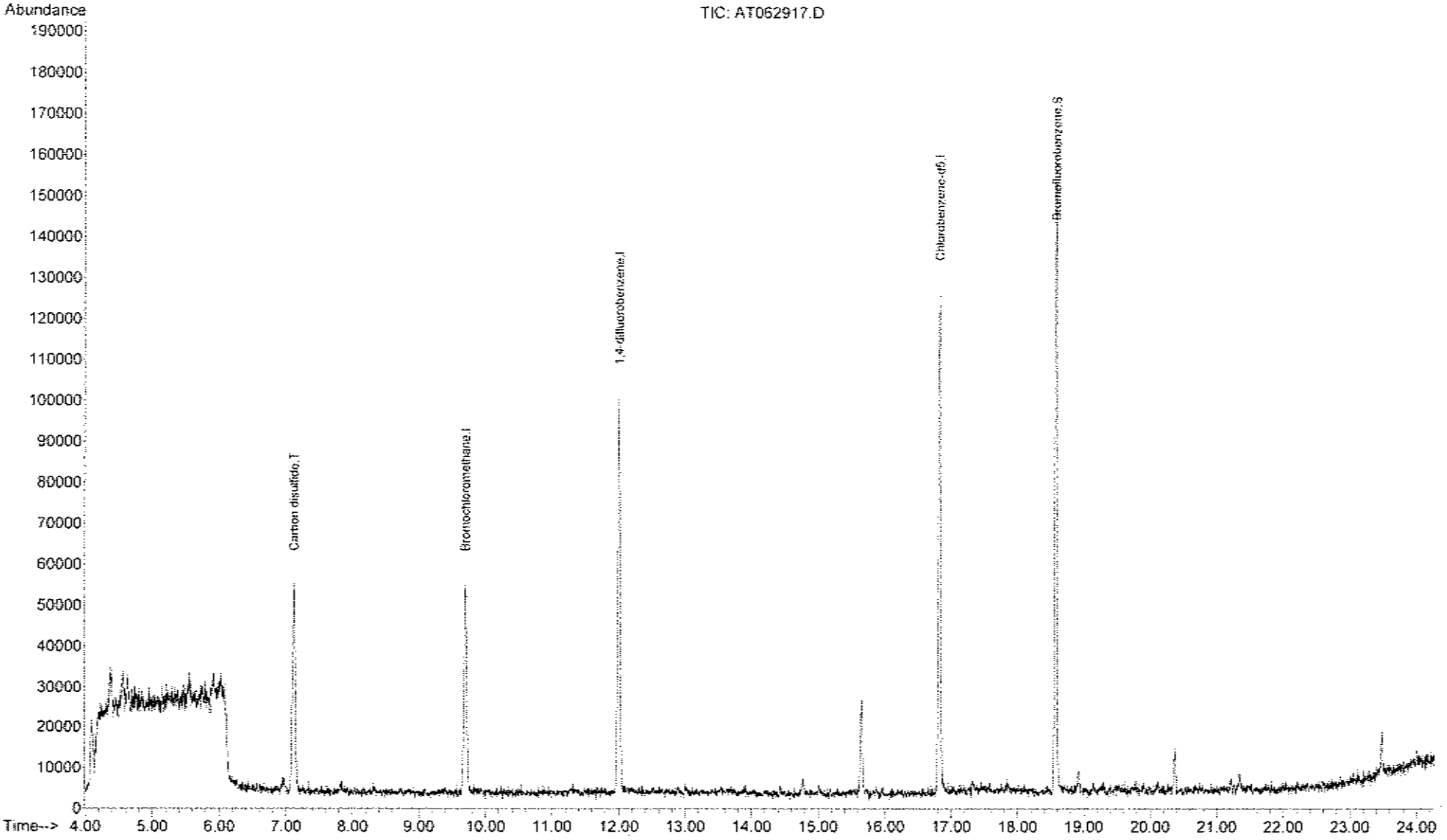
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.69	128	21158	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.00	114	96659	1.00	ppb	0.00
50) Chlorobenzene-d5	16.82	117	79842	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.57	95	52773	0.91	ppb	-0.04
Spiked Amount 1.000	Range 70 - 130		Recovery = 91.00%			
Target Compounds						Qvalue
23) Carbon disulfide	7.11	76	101403	1.27	ppb	99

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

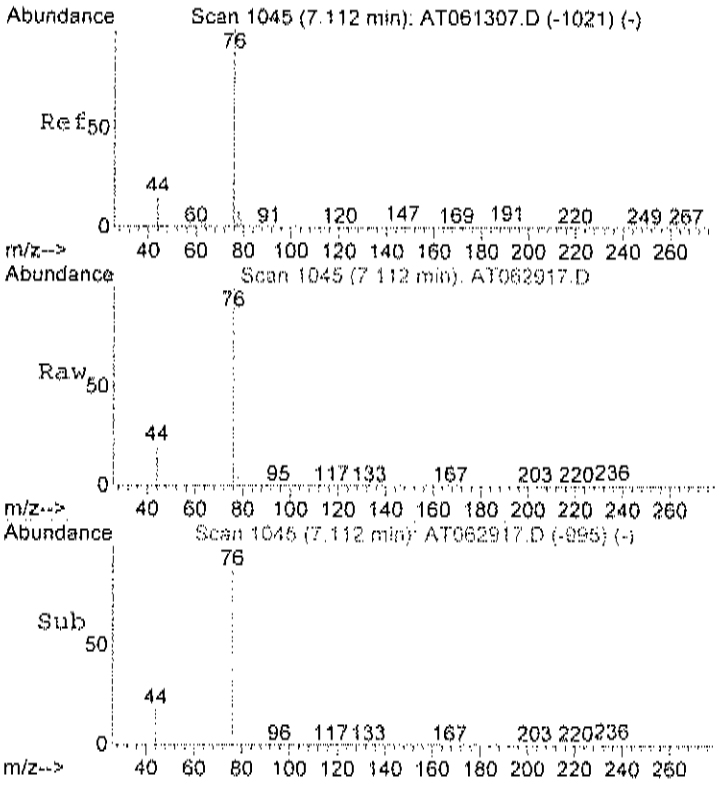
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062917.D Vial: 17
Acq On : 29 Jun 2022 9:29 pm Operator: RJP
Sample : C2206048-017A 40X Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 8:15 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



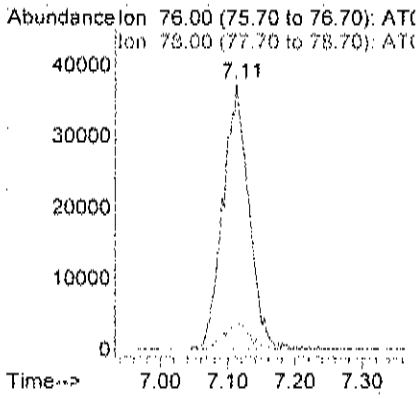
Centek/SanAir Laboratories



#23
Carbon disulfide
Concen: 1.27 ppb
RT: 7.11 min Scan# 1045
Delta R.T. -0.00 min
Lab File: AT062917.D
Acq: 29 Jun 2022 9:29 pm

Tgt Ion: 76 Resp: 101403

Ion	Ratio	Lower	Upper
76	100		
78	10.1	0.0	29.7



Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-018A

Client Sample ID: AS-1
Tag Number: 1182,453
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-1			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	6/24/2022 12:22:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,2,4-Trimethylbenzene	0.11	0.15	J	ppbV	1	6/24/2022 12:22:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/24/2022 12:22:00 PM
2,2,4-trimethylpentane	0.13	0.15	J	ppbV	1	6/24/2022 12:22:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Acetone	7.8	3.0		ppbV	10	6/25/2022 7:37:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Benzene	0.19	0.15		ppbV	1	6/24/2022 12:22:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Carbon tetrachloride	0.10	0.030		ppbV	1	6/24/2022 12:22:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Chloroform	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Chloromethane	0.46	0.15		ppbV	1	6/24/2022 12:22:00 PM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	6/24/2022 12:22:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Ethyl acetate	0.32	0.15		ppbV	1	6/24/2022 12:22:00 PM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-018A

Client Sample ID: AS-1
Tag Number: 1182,453
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Freon 11	0.24	0.15		ppbV	1	6/24/2022 12:22:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Freon 12	0.45	0.15		ppbV	1	6/24/2022 12:22:00 PM
Heptane	0.14	0.15	J	ppbV	1	6/24/2022 12:22:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Hexane	0.22	0.15		ppbV	1	6/24/2022 12:22:00 PM
Isopropyl alcohol	1.4	0.15		ppbV	1	6/24/2022 12:22:00 PM
m&p-Xylene	0.24	0.30	J	ppbV	1	6/24/2022 12:22:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 12:22:00 PM
Methyl Ethyl Ketone	0.40	0.30		ppbV	1	6/24/2022 12:22:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 12:22:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Methylene chloride	0.36	0.15		ppbV	1	6/24/2022 12:22:00 PM
o-Xylene	0.11	0.15	J	ppbV	1	6/24/2022 12:22:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Toluene	0.89	0.15		ppbV	1	6/24/2022 12:22:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Trichloroethene	< 0.030	0.030		ppbV	1	6/24/2022 12:22:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/24/2022 12:22:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	6/24/2022 12:22:00 PM
Surr: Bromofluorobenzene	91.0	47-124		%REC	1	6/24/2022 12:22:00 PM

Qualifiers:

- `*` Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-018A

Client Sample ID: AS-1
Tag Number: 1182,453
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 12:22:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/24/2022 12:22:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 12:22:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 12:22:00 PM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	6/24/2022 12:22:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/24/2022 12:22:00 PM
1,2,4-Trimethylbenzene	0.54	0.74	J	ug/m3	1	6/24/2022 12:22:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/24/2022 12:22:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 12:22:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 12:22:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/24/2022 12:22:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/24/2022 12:22:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/24/2022 12:22:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 12:22:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 12:22:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/24/2022 12:22:00 PM
2,2,4-trimethylpentane	0.61	0.70	J	ug/m3	1	6/24/2022 12:22:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/24/2022 12:22:00 PM
Acetone	19	7.1		ug/m3	10	6/25/2022 7:37:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/24/2022 12:22:00 PM
Benzene	0.61	0.48		ug/m3	1	6/24/2022 12:22:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/24/2022 12:22:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/24/2022 12:22:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/24/2022 12:22:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/24/2022 12:22:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	6/24/2022 12:22:00 PM
Carbon tetrachloride	0.63	0.19		ug/m3	1	6/24/2022 12:22:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/24/2022 12:22:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/24/2022 12:22:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	6/24/2022 12:22:00 PM
Chloromethane	0.95	0.31		ug/m3	1	6/24/2022 12:22:00 PM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	6/24/2022 12:22:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 12:22:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/24/2022 12:22:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/24/2022 12:22:00 PM
Ethyl acetate	1.2	0.54		ug/m3	1	6/24/2022 12:22:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	6/24/2022 12:22:00 PM
Freon 11	1.3	0.84		ug/m3	1	6/24/2022 12:22:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/24/2022 12:22:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/24/2022 12:22:00 PM

Qualifiers:

- `*` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-018A

Client Sample ID: AS-1
Tag Number: 1182,453
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: RJP
Freon 12	2.2	0.74		ug/m3	1	6/24/2022 12:22:00 PM
Heptane	0.57	0.61	J	ug/m3	1	6/24/2022 12:22:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/24/2022 12:22:00 PM
Hexane	0.78	0.53		ug/m3	1	6/24/2022 12:22:00 PM
Isopropyl alcohol	3.5	0.37		ug/m3	1	6/24/2022 12:22:00 PM
m&p-Xylene	1.0	1.3	J	ug/m3	1	6/24/2022 12:22:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 12:22:00 PM
Methyl Ethyl Ketone	1.2	0.88		ug/m3	1	6/24/2022 12:22:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 12:22:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/24/2022 12:22:00 PM
Methylene chloride	1.3	0.52		ug/m3	1	6/24/2022 12:22:00 PM
o-Xylene	0.48	0.65	J	ug/m3	1	6/24/2022 12:22:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/24/2022 12:22:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/24/2022 12:22:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/24/2022 12:22:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/24/2022 12:22:00 PM
Toluene	3.4	0.57		ug/m3	1	6/24/2022 12:22:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 12:22:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 12:22:00 PM
Trichloroethene	< 0.16	0.16		ug/m3	1	6/24/2022 12:22:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/24/2022 12:22:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/24/2022 12:22:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/24/2022 12:22:00 PM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062406.D Vial: 6
Acq On : 24 Jun 2022 12:22 pm Operator: RJP
Sample : C2206048-018A Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 24 12:49:30 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

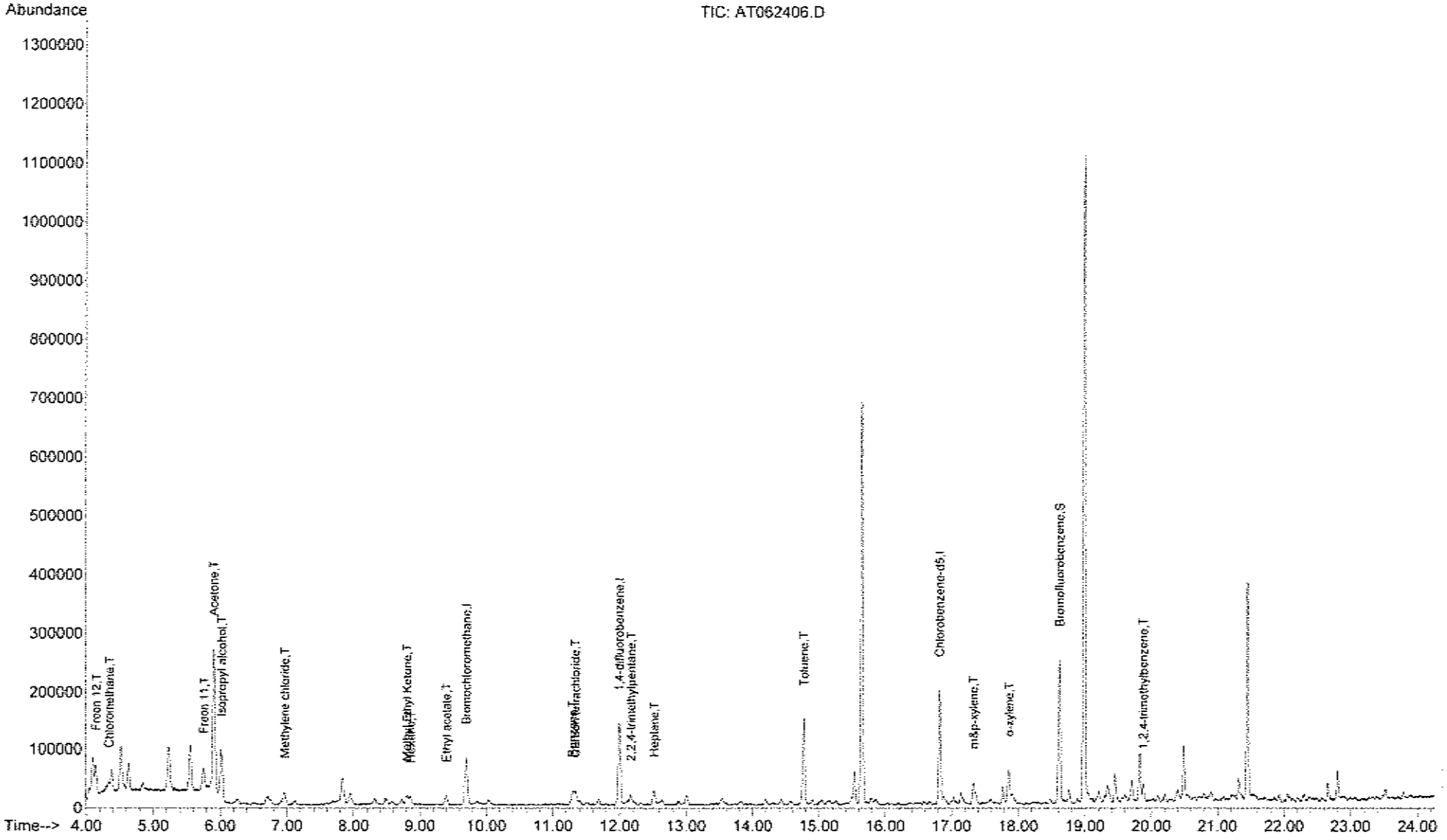
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.70	128	32368	1.00	ppb		0.00
35) 1,4-difluorobenzene	11.99	114	148101	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	134135	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.62	95	88811	0.91	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 91.00%				
Target Compounds							Qvalue
3) Freon 12	4.14	85	66937	0.45	ppb		99
4) Chloromethane	4.33	50	16769	0.46	ppb		75
14) Freon 11	5.75	101	44183	0.24	ppb		99
15) Acetone	5.91	58	123254	6.55	ppb	#	50
17) Isopropyl alcohol	6.02	45	77326	1.41	ppb	#	58
21) Methylene chloride	6.96	84	14915	0.36	ppb		97
28) Methyl Ethyl Ketone	8.80	72	6446	0.40	ppb	#	100
30) Hexane	8.86	57	10468m	0.22	ppb		
31) Ethyl acetate	9.39	43	23936	0.32	ppb		95
38) Carbon tetrachloride	11.34	117	10166	0.10	ppb		98
39) Benzene	11.30	78	19856	0.19	ppb		96
42) 2,2,4-trimethylpentane	12.17	57	17797	0.13	ppb		94
43) Heptane	12.52	43	7244	0.14	ppb	#	75
51) Toluene	14.77	92	70659	0.89	ppb		99
59) m&p-xylene	17.33	91	36686	0.24	ppb		99
63) o-xylene	17.87	91	17636	0.11	ppb		97
71) 1,2,4-trimethylbenzene	19.87	105	19315	0.11	ppb		100

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

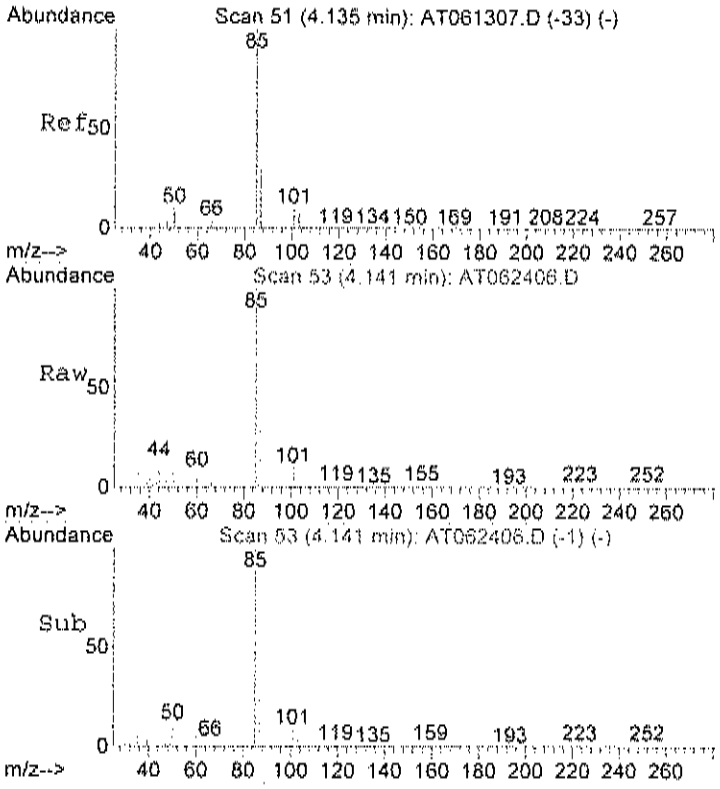
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062406.D Vial: 6
Acq On : 24 Jun 2022 12:22 pm Operator: RJP
Sample : C2206048-018A Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 13:33 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



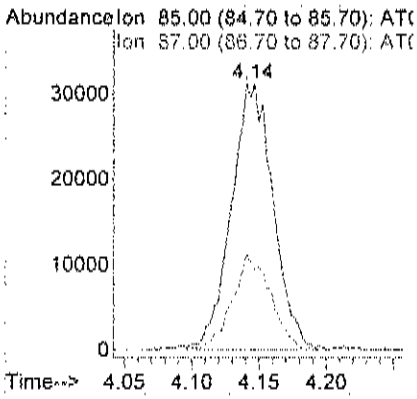
Centek/SanAir Laboratories

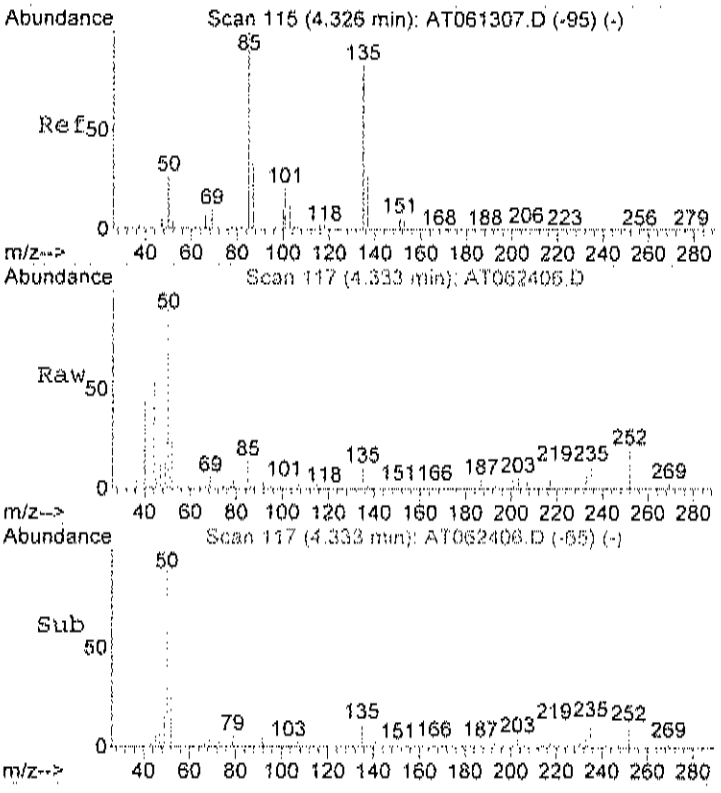


#3
Freon 12
Concen: 0.45 ppb
RT: 4.14 min Scan# 53
Delta R.T. 0.01 min
Lab File: AT062406.D
Acq: 24 Jun 2022 12:22 pm

Tgt Ion: 85 Resp: 66937

Ion	Ratio	Lower	Upper
85	100		
87	33.2	12.8	52.8

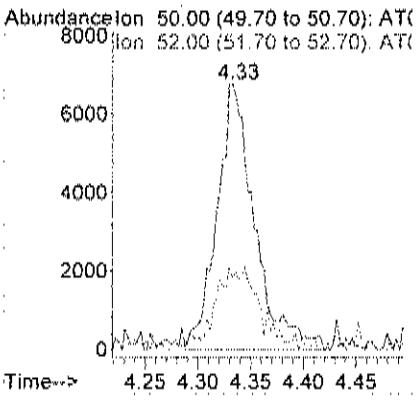


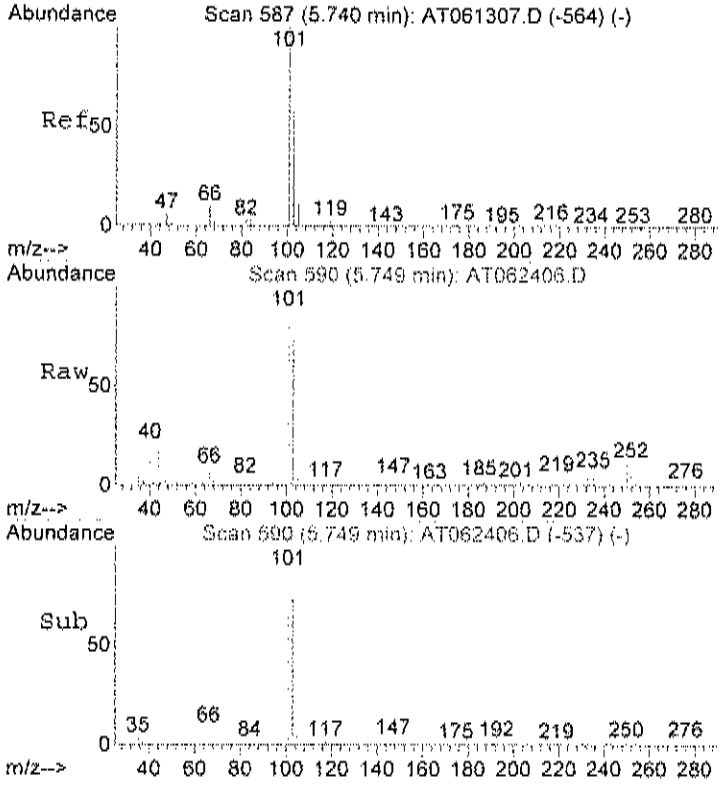


#4
Chloromethane
Concen: 0.46 ppb
RT: 4.33 min Scan# 117
Delta R.T. 0.01 min
Lab File: AT062406.D
Acq: 24 Jun 2022 12:22 pm

Tgt Ion: 50 Resp: 16769

Ion	Ratio	Lower	Upper
50	100		
52	34.6	2.7	42.7

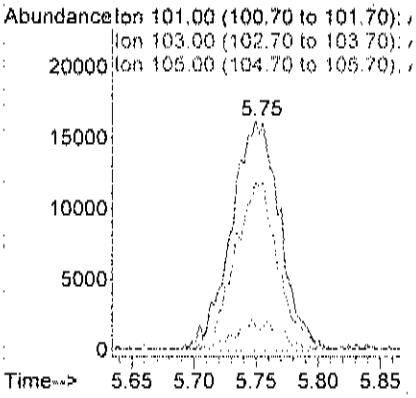


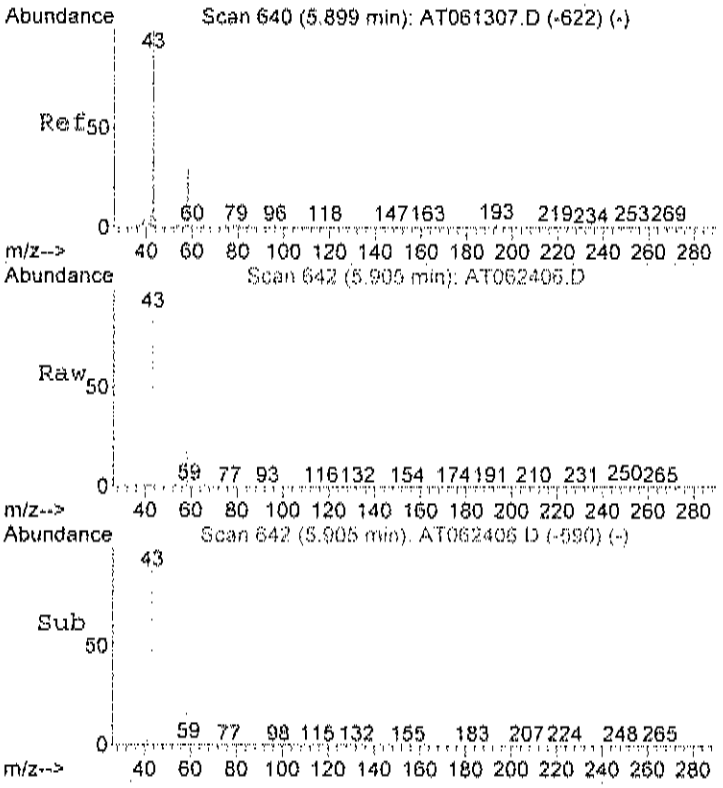


#14
Freon 11
Concen: 0.24 ppb
RT: 5.75 min Scan# 590
Delta R.T. 0.01 min
Lab File: AT062406.D
Acq: 24 Jun 2022 12:22 pm

Tgt Ion:101 Resp: 44183

Ion	Ratio	Lower	Upper
101	100		
103	67.0	46.3	86.3
105	12.0	0.0	31.2

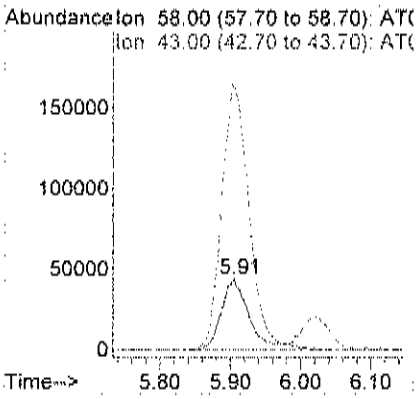


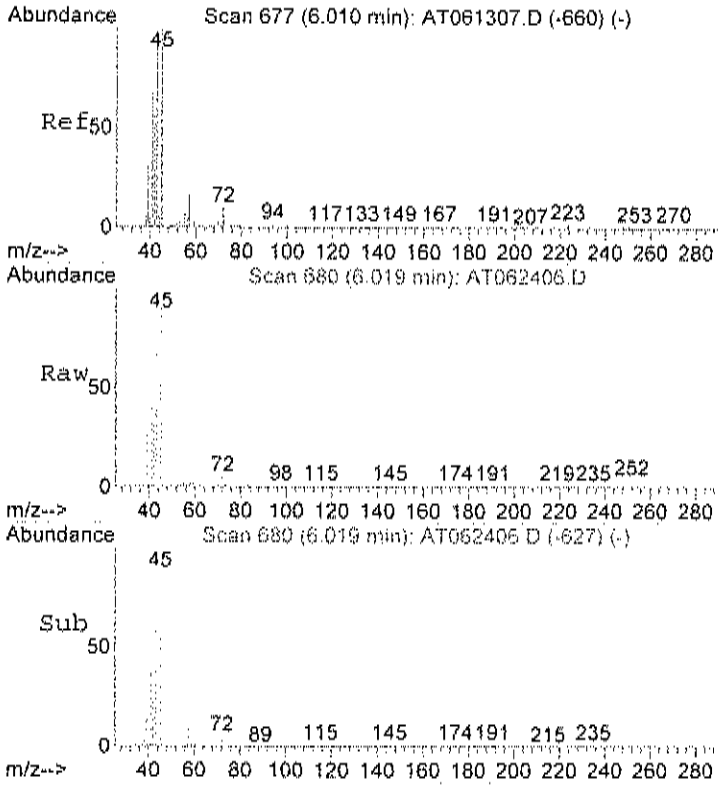


#15
Acetone
Concen: 6.55 ppb
RT: 5.91 min Scan# 642
Delta R.T. 0.01 min
Lab File: AT062406.D
Acq: 24 Jun 2022 12:22 pm

Tgt Ion: 58 Resp: 123254

Ion	Ratio	Lower	Upper
58	100		
43	397.2	268.9	328.9#

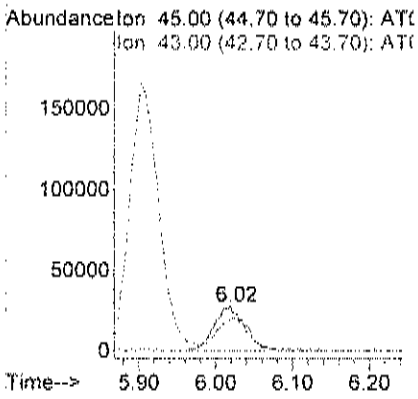


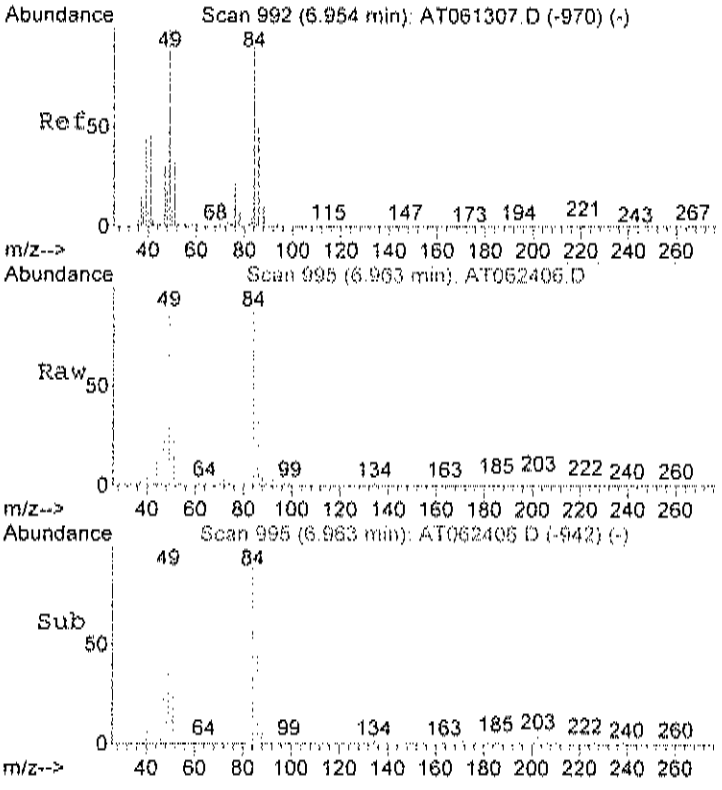


#17
Isopropyl alcohol
Concen: 1.41 ppb
RT: 6.02 min Scan# 680
Delta R.T. 0.01 min
Lab File: AT062406.D
Acq: 24 Jun 2022 12:22 pm

Tgt Ion: 45 Resp: 77326

Ion	Ratio	Lower	Upper
45	100		
43	70.9	96.2	136.2#

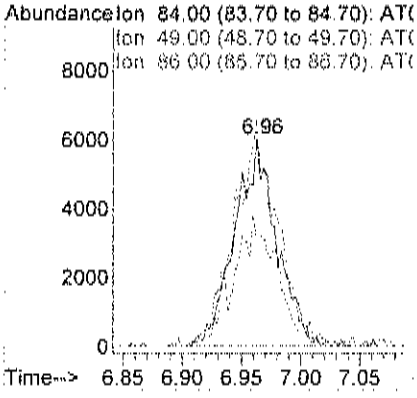


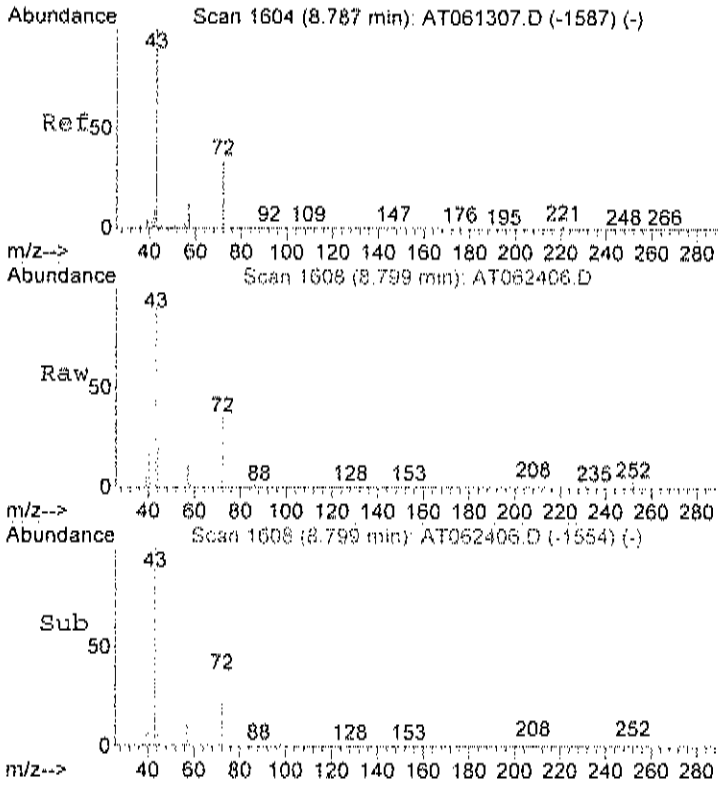


#21
Methylene chloride
Concen: 0.36 ppb
RT: 6.96 min Scan# 995
Delta R.T. 0.01 min
Lab File: AT062406.D
Acq: 24 Jun 2022 12:22 pm

Tgt Ion: 84 Resp: 14915

Ion	Ratio	Lower	Upper
84	100		
49	109.1	93.2	133.2
86	66.8	46.4	86.4

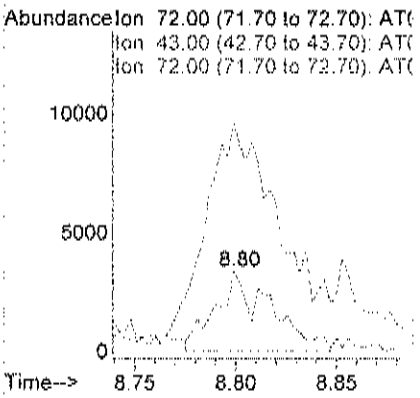


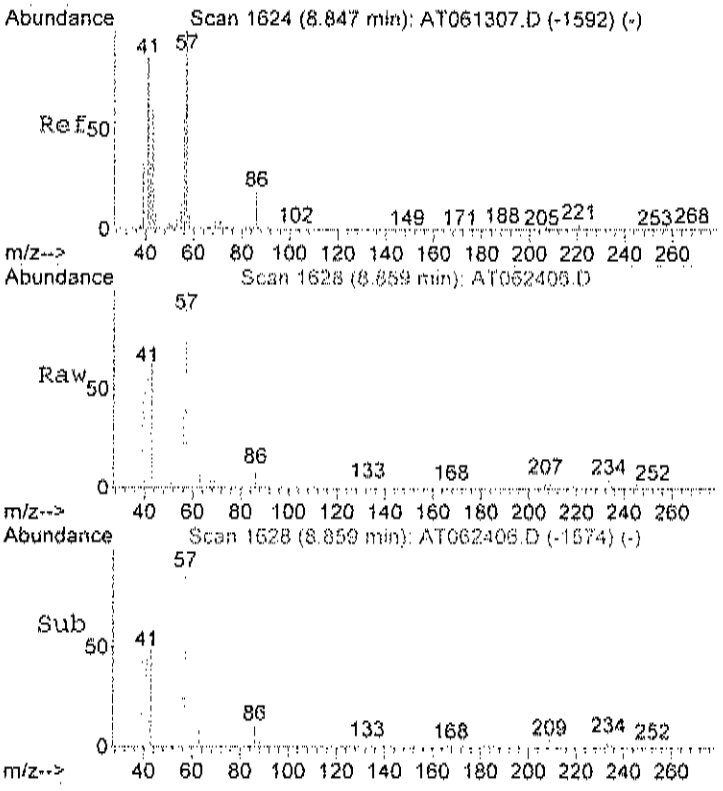


#28
Methyl Ethyl Ketone
Concen: 0.40 ppb
RT: 8.80 min Scan# 1608
Delta R.T. 0.01 min
Lab File: AT062406.D
Acq: 24 Jun 2022 12:22 pm

Tgt Ion: 72 Resp: 6446

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

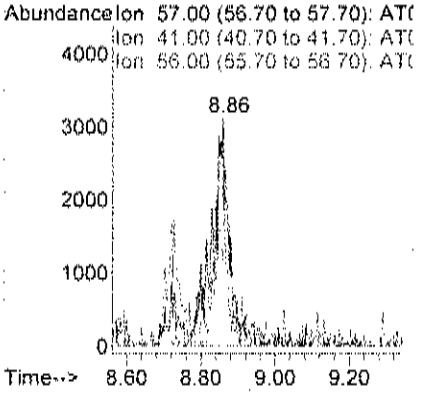


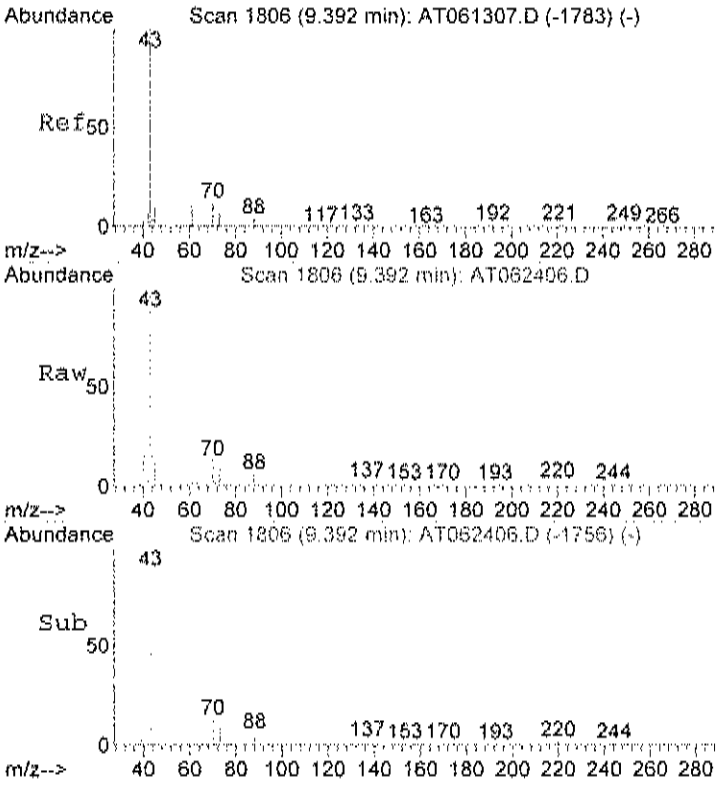


#30
Hexane
Concen: 0.22 ppb m
RT: 8.86 min Scan# 1628
Delta R.T. 0.01 min
Lab File: AT062406.D
Acq: 24 Jun 2022 12:22 pm

Tgt Ion: 57 Resp: 10468

Ion	Ratio	Lower	Upper
57	100		
41	62.0	58.1	98.1
56	40.4	28.7	68.7

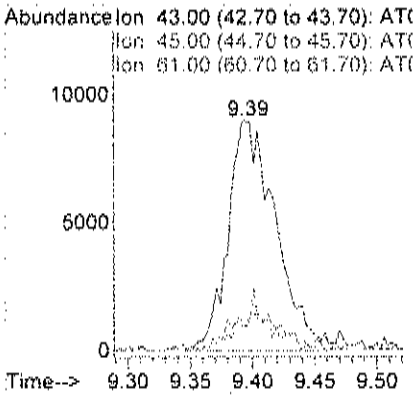


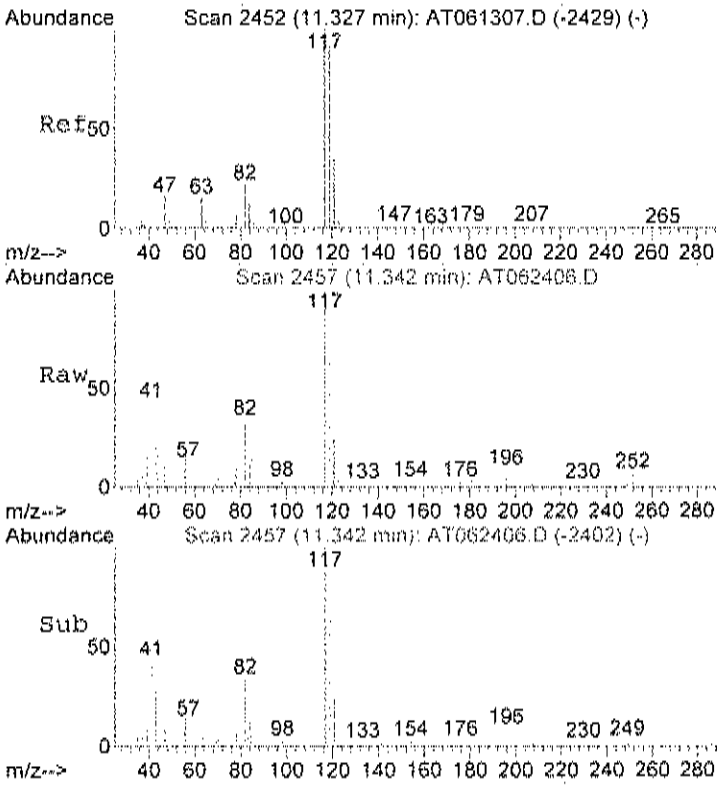


#31
Ethyl acetate
Concen: 0.32 ppb
RT: 9.39 min Scan# 1806
Delta R.T. 0.00 min
Lab File: AT062406.D
Acq: 24 Jun 2022 12:22 pm

Tgt Ion: 43 Resp: 23936

Ion	Ratio	Lower	Upper
43	100		
45	15.9	0.0	33.7
61	16.3	0.0	34.7

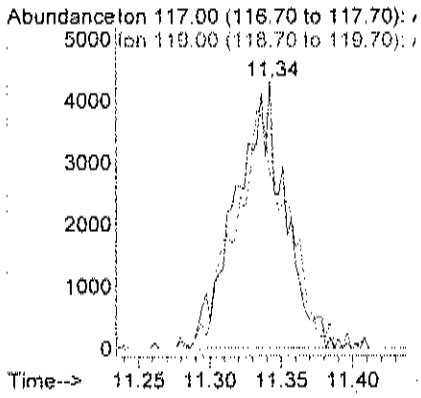


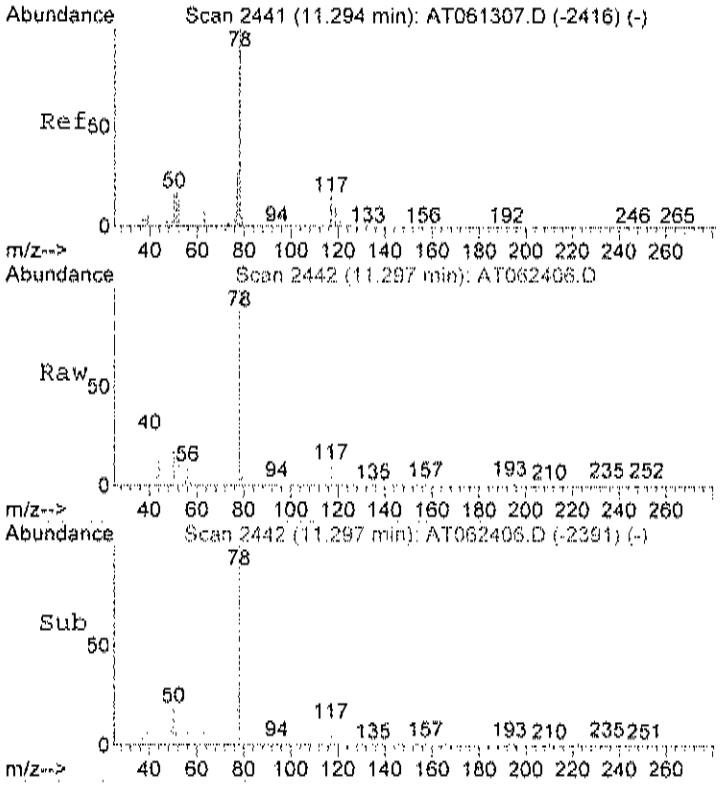


#38
Carbon tetrachloride
Concen: 0.10 ppb
RT: 11.34 min Scan# 2457
Delta R.T. 0.02 min
Lab File: AT062406.D
Acq: 24 Jun 2022 12:22 pm

Tgt Ion:117 Resp: 10166

Ion	Ratio	Lower	Upper
117	100		
119	95.6	77.2	117.2

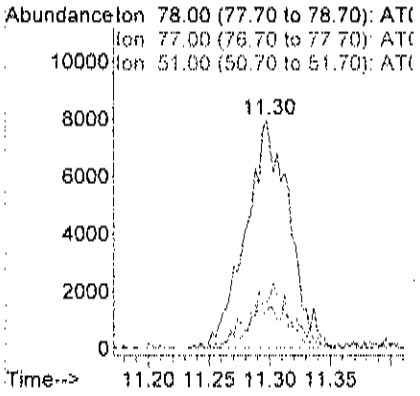


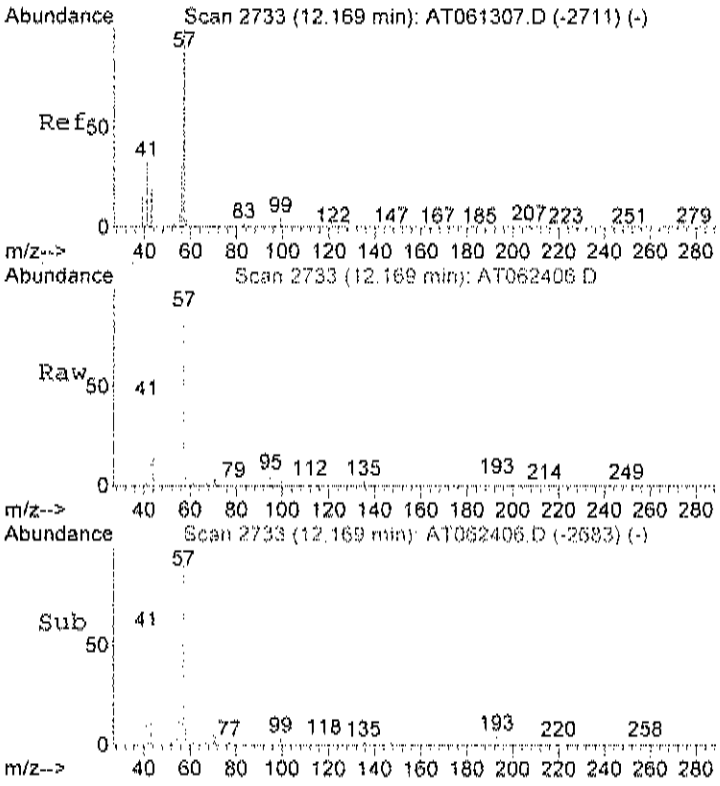


#39
Benzene
Concen: 0.19 ppb
RT: 11.30 min Scan# 2442
Delta R.T. 0.00 min
Lab File: AT062406.D
Acq: 24 Jun 2022 12:22 pm

Tgt Ion: 78 Resp: 19856

Ion	Ratio	Lower	Upper
78	100		
77	20.9	3.1	43.1
51	16.1	0.0	37.8

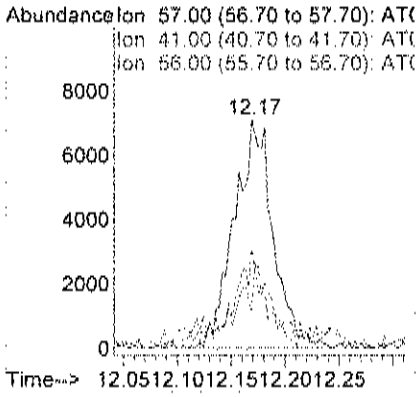


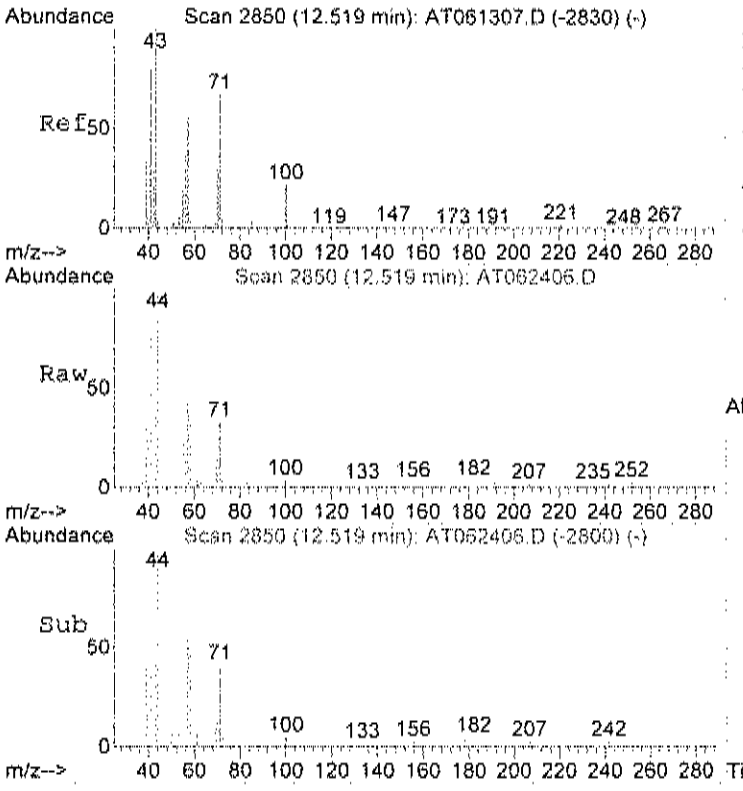


#42
2,2,4-trimethylpentane
Concen: 0.13 ppb
RT: 12.17 min Scan# 2733
Delta R.T. 0.00 min
Lab File: AT062406.D
Acq: 24 Jun 2022 12:22 pm

Tgt Ion: 57 Resp: 17797

Ion	Ratio	Lower	Upper
57	100		
41	36.9	15.3	55.3
56	25.1	10.1	50.1

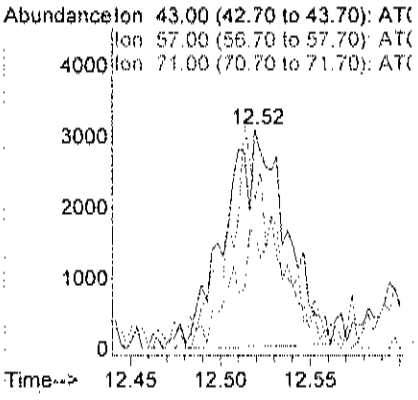


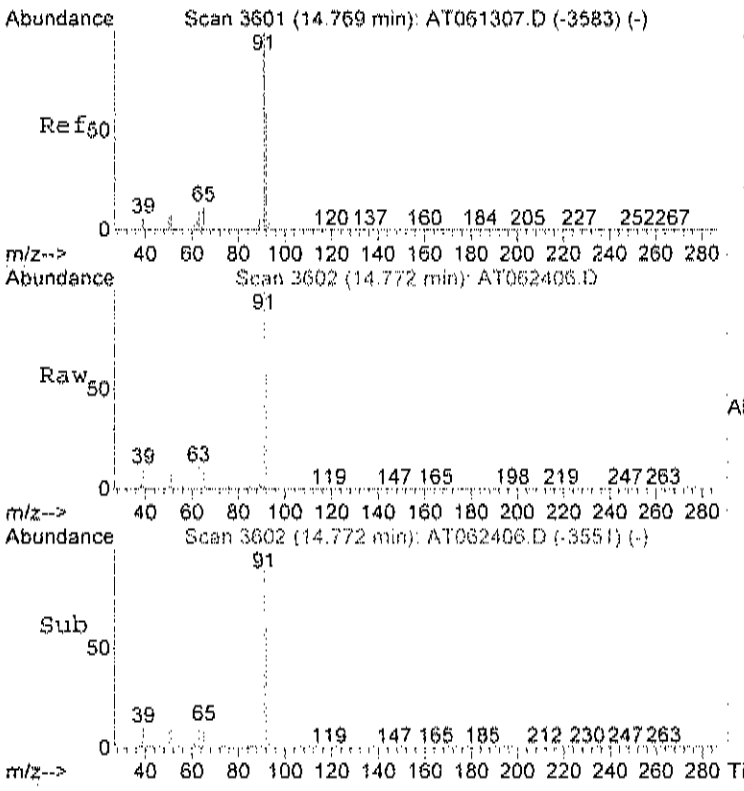


#43
Heptane
Concen: 0.14 ppb
RT: 12.52 min Scan# 2850
Delta R.T. 0.00 min
Lab File: AT062406.D
Acq: 24 Jun 2022 12:22 pm

Tgt Ion: 43 Resp: 7244

Ion	Ratio	Lower	Upper
43	100		
57	81.4	41.7	81.7
71	52.4	53.4	93.4#

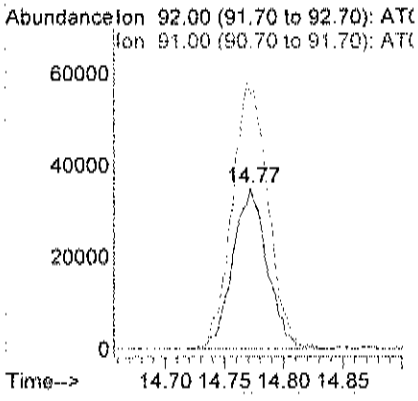


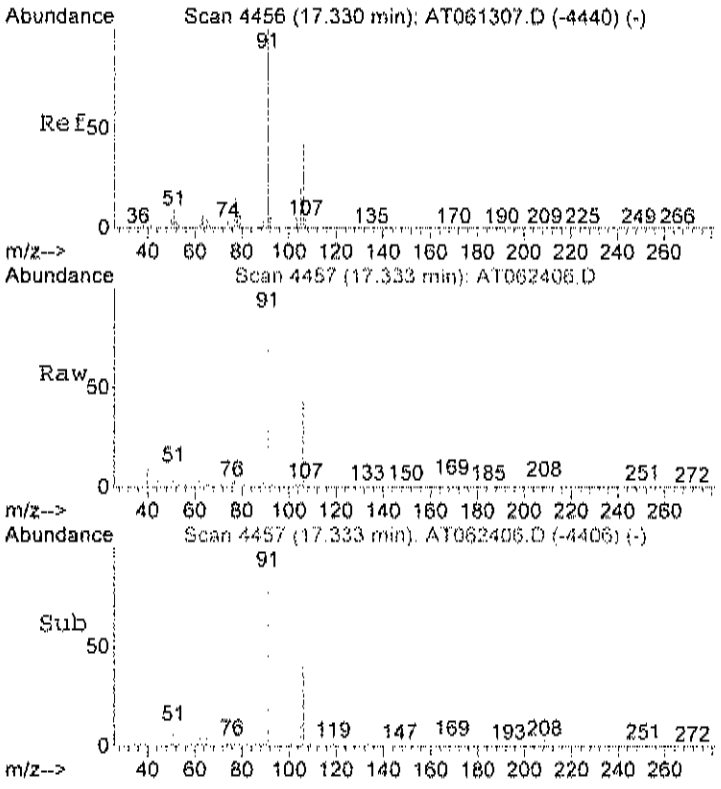


#51
Toluene
Concen: 0.89 ppb
RT: 14.77 min Scan# 3602
Delta R.T. 0.00 min
Lab File: AT062406.D
Acq: 24 Jun 2022 12:22 pm

Tgt Ion: 92 Resp: 70659

Ion	Ratio	Lower	Upper
92	100		
91	173.7	154.4	194.4

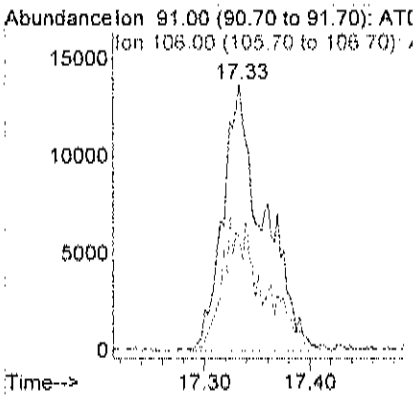


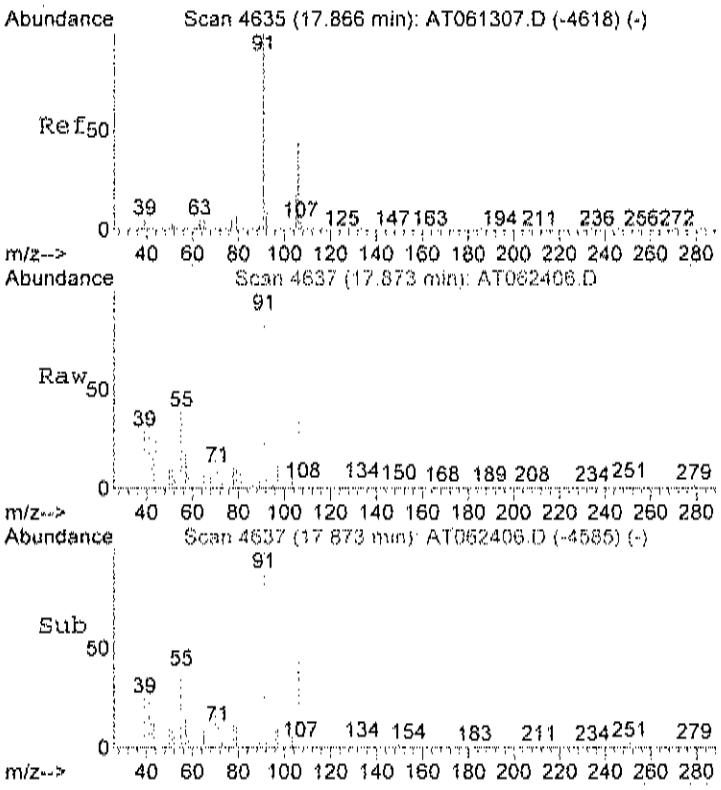


#59
m&p-xylene
Concen: 0.24 ppb
RT: 17.33 min Scan# 4457
Delta R.T. 0.00 min
Lab File: AT062406.D
Acq: 24 Jun 2022 12:22 pm

Tgt Ion: 91 Resp: 36686

Ion	Ratio	Lower	Upper
91	100		
106	48.6	27.9	67.9

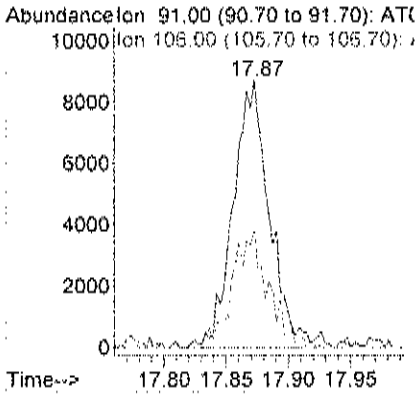


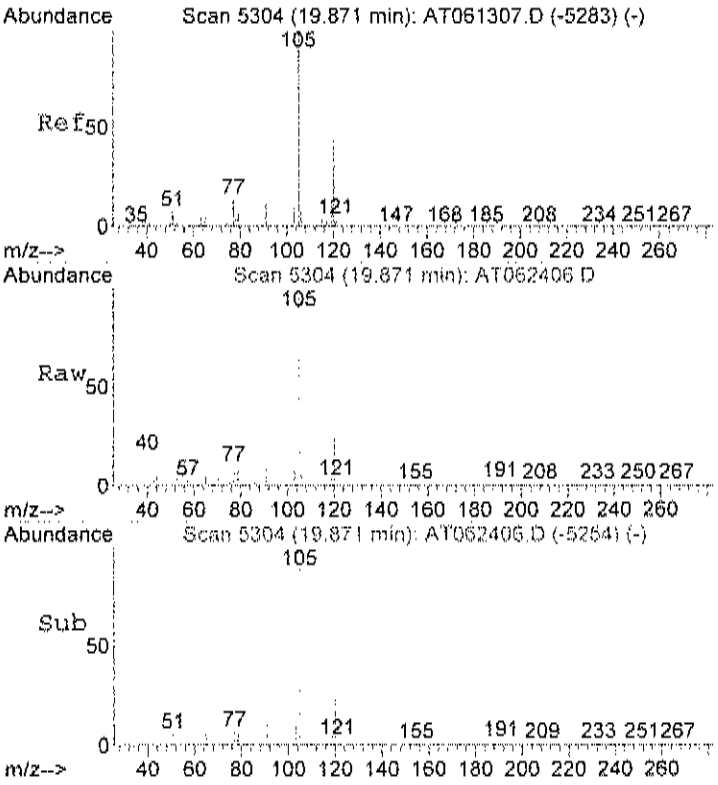


#63
o-xylene
Concen: 0.11 ppb
RT: 17.87 min Scan# 4637
Delta R.T. 0.01 min
Lab File: AT062406.D
Acq: 24 Jun 2022 12:22 pm

Tgt Ion: 91 Resp: 17636

Ion	Ratio	Lower	Upper
91	100		
106	42.9	25.1	65.1

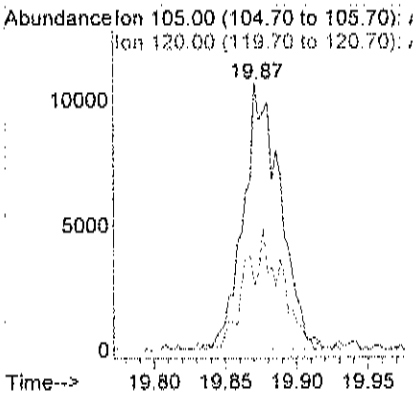




#71
1,2,4-trimethylbenzene
Concen: 0.11 ppb
RT: 19.87 min Scan# 5304
Delta R.T. 0.00 min
Lab File: AT062406.D
Acq: 24 Jun 2022 12:22 pm

Tgt Ion:105 Resp: 19315

Ion	Ratio	Lower	Upper
105	100		
120	43.9	23.8	63.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062429.D Vial: 28
Acq On : 25 Jun 2022 7:37 am Operator: RJP
Sample : C2206048-018A 10X Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 27 11:13:07 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.69	128	33515	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.00	114	147587	1.00	ppb	0.00
50) Chlorobenzene-d5	16.82	117	129730	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.61	95	82102	0.87	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 87.00%			
Target Compounds						Qvalue
15) Acetone	5.91	58	15186m	0.78	ppb	

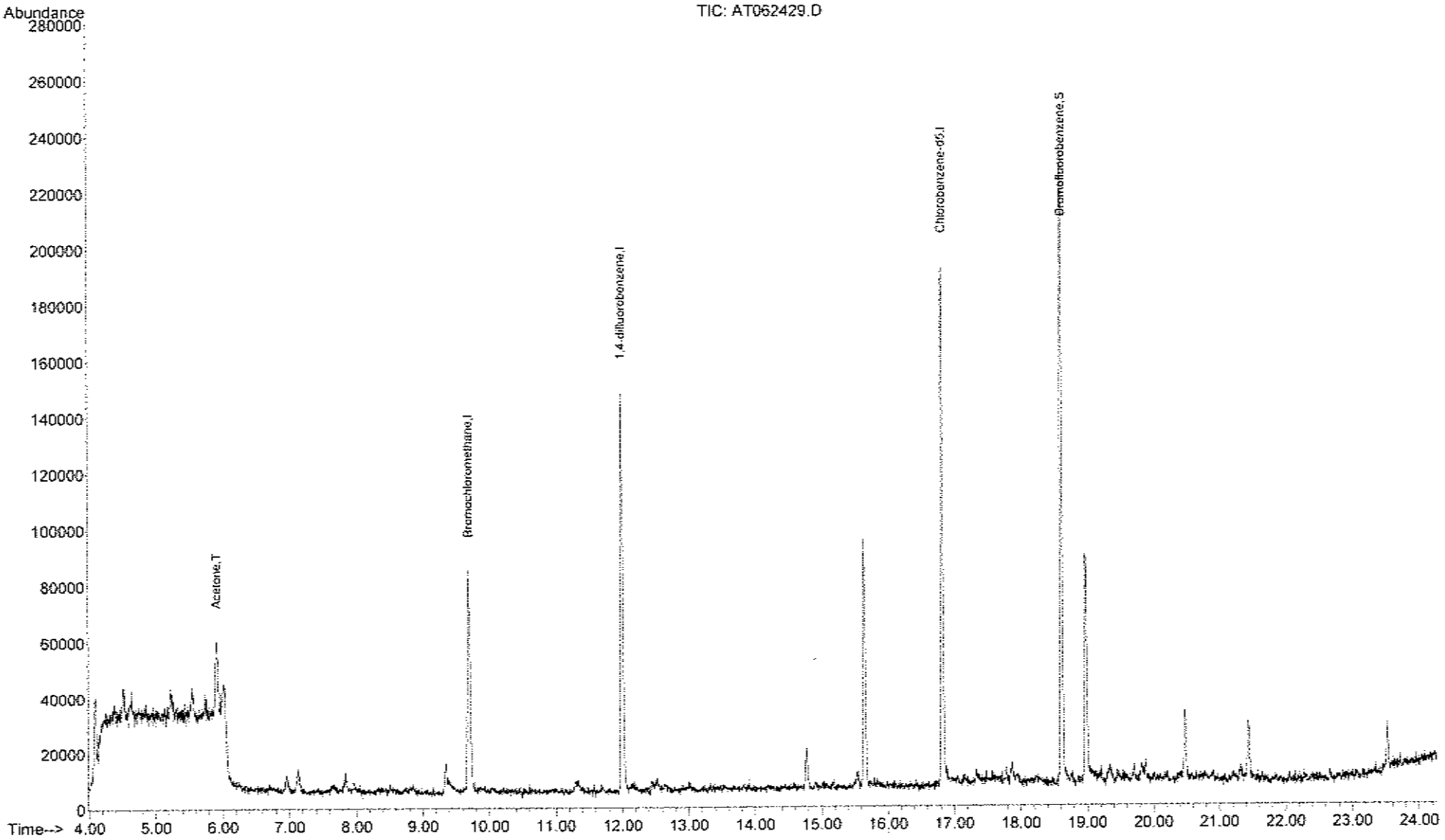
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062429.D
Acq On : 25 Jun 2022 7:37 am
Sample : C2206048-018A 10X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 29 11:18 2022

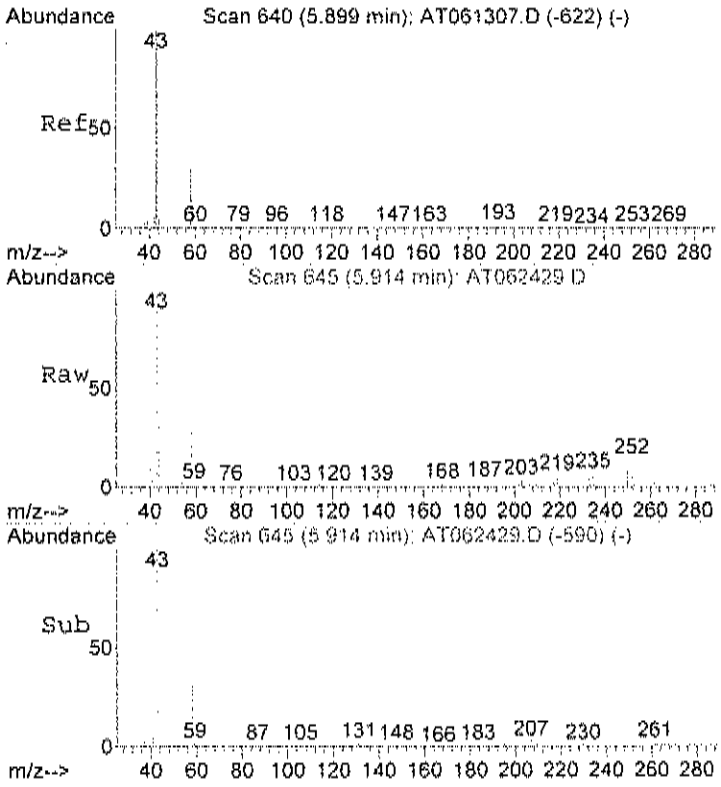
Vial: 28
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



AT062429.D A613_1UG.M Thu Jul 07 07:38:42 2022 MSD1

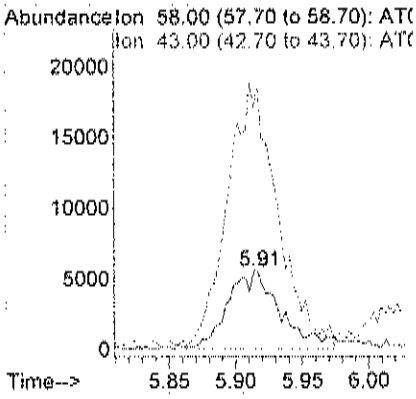
Centek/SanAir Laboratories



#15
Acetone
Concen: 0.78 ppb m
RT: 5.91 min Scan# 645
Delta R.T. 0.01 min
Lab File: AT062429.D
Acq: 25 Jun 2022 7:37 am

Tgt Ion: 58 Resp: 15186

Ion	Ratio	Lower	Upper
58	100		
43	316.2	268.9	328.9



Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-019A

Client Sample ID: AS-2
Tag Number: 85.1152
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-1			"Hg		6/23/2022
Lab Vacuum Out	-30			"Hg		6/23/2022
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	6/24/2022 1:06:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,2,4-Trimethylbenzene	0.11	0.15	J	ppbV	1	6/24/2022 1:06:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/24/2022 1:06:00 PM
2,2,4-trimethylpentane	0.13	0.15	J	ppbV	1	6/24/2022 1:06:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Acetone	7.2	3.0		ppbV	10	6/25/2022 8:20:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Benzene	0.26	0.15		ppbV	1	6/24/2022 1:06:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Carbon disulfide	0.10	0.15	J	ppbV	1	6/24/2022 1:06:00 PM
Carbon tetrachloride	0.10	0.030		ppbV	1	6/24/2022 1:06:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Chloroform	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Chloromethane	0.45	0.15		ppbV	1	6/24/2022 1:06:00 PM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	6/24/2022 1:06:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Ethyl acetate	0.36	0.15		ppbV	1	6/24/2022 1:06:00 PM

Qualifiers:

.	Results reported are not blank corrected
DL	Detection Limit
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
E	Estimated Value above quantitation range
J	Analyte detected below quantitation limit
ND	Not Detected at the Limit of Detection
SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-019A

Client Sample ID: AS-2
Tag Number: 85,1152
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.11	0.15	J	ppbV	1	6/24/2022 1:06:00 PM
Freon 11	0.25	0.15		ppbV	1	6/24/2022 1:06:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Freon 12	0.47	0.15		ppbV	1	6/24/2022 1:06:00 PM
Heptane	0.19	0.15		ppbV	1	6/24/2022 1:06:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Hexane	0.21	0.15		ppbV	1	6/24/2022 1:06:00 PM
Isopropyl alcohol	1.3	0.15		ppbV	1	6/24/2022 1:06:00 PM
m&p-Xylene	0.32	0.30		ppbV	1	6/24/2022 1:06:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 1:06:00 PM
Methyl Ethyl Ketone	0.43	0.30		ppbV	1	6/24/2022 1:06:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/24/2022 1:06:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Methylene chloride	0.36	0.15		ppbV	1	6/24/2022 1:06:00 PM
o-Xylene	0.13	0.15	J	ppbV	1	6/24/2022 1:06:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Toluene	0.97	0.15		ppbV	1	6/24/2022 1:06:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Trichloroethene	< 0.030	0.030		ppbV	1	6/24/2022 1:06:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/24/2022 1:06:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	6/24/2022 1:06:00 PM
Surr: Bromofluorobenzene	93.0	47-124		%REC	1	6/24/2022 1:06:00 PM

Qualifiers:

- . Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 07-Jul-22

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-019A

Client Sample ID: AS-2
Tag Number: 85,1152
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 1:06:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/24/2022 1:06:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/24/2022 1:06:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 1:06:00 PM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	6/24/2022 1:06:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/24/2022 1:06:00 PM
1,2,4-Trimethylbenzene	0.54	0.74	J	ug/m3	1	6/24/2022 1:06:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/24/2022 1:06:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 1:06:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/24/2022 1:06:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/24/2022 1:06:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/24/2022 1:06:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/24/2022 1:06:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 1:06:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/24/2022 1:06:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/24/2022 1:06:00 PM
2,2,4-trimethylpentane	0.61	0.70	J	ug/m3	1	6/24/2022 1:06:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/24/2022 1:06:00 PM
Acetone	17	7.1		ug/m3	10	6/25/2022 8:20:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/24/2022 1:06:00 PM
Benzene	0.83	0.48		ug/m3	1	6/24/2022 1:06:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/24/2022 1:06:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/24/2022 1:06:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/24/2022 1:06:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/24/2022 1:06:00 PM
Carbon disulfide	0.31	0.47	J	ug/m3	1	6/24/2022 1:06:00 PM
Carbon tetrachloride	0.63	0.19		ug/m3	1	6/24/2022 1:06:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/24/2022 1:06:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/24/2022 1:06:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	6/24/2022 1:06:00 PM
Chloromethane	0.93	0.31		ug/m3	1	6/24/2022 1:06:00 PM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	6/24/2022 1:06:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 1:06:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/24/2022 1:06:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/24/2022 1:06:00 PM
Ethyl acetate	1.3	0.54		ug/m3	1	6/24/2022 1:06:00 PM
Ethylbenzene	0.48	0.65	J	ug/m3	1	6/24/2022 1:06:00 PM
Freon 11	1.4	0.84		ug/m3	1	6/24/2022 1:06:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/24/2022 1:06:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/24/2022 1:06:00 PM

Qualifiers:

- . Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-019A

Client Sample ID: AS-2
Tag Number: 85,1152
Collection Date: 6/21/2022
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
Freon 12	2.3	0.74		ug/m3	1	6/24/2022 1:06:00 PM
Heptane	0.78	0.61		ug/m3	1	6/24/2022 1:06:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/24/2022 1:06:00 PM
Hexane	0.74	0.53		ug/m3	1	6/24/2022 1:06:00 PM
Isopropyl alcohol	3.2	0.37		ug/m3	1	6/24/2022 1:06:00 PM
m&p-Xylene	1.4	1.3		ug/m3	1	6/24/2022 1:06:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 1:06:00 PM
Methyl Ethyl Ketone	1.3	0.88		ug/m3	1	6/24/2022 1:06:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/24/2022 1:06:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/24/2022 1:06:00 PM
Methylene chloride	1.3	0.52		ug/m3	1	6/24/2022 1:06:00 PM
o-Xylene	0.56	0.65	J	ug/m3	1	6/24/2022 1:06:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/24/2022 1:06:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/24/2022 1:06:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/24/2022 1:06:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/24/2022 1:06:00 PM
Toluene	3.7	0.57		ug/m3	1	6/24/2022 1:06:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/24/2022 1:06:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/24/2022 1:06:00 PM
Trichloroethene	< 0.16	0.16		ug/m3	1	6/24/2022 1:06:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/24/2022 1:06:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/24/2022 1:06:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/24/2022 1:06:00 PM

Qualifiers:

*	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062407.D Vial: 7
Acq On : 24 Jun 2022 1:06 pm Operator: RJP
Sample : C2206048-019A Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 24 13:35:36 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

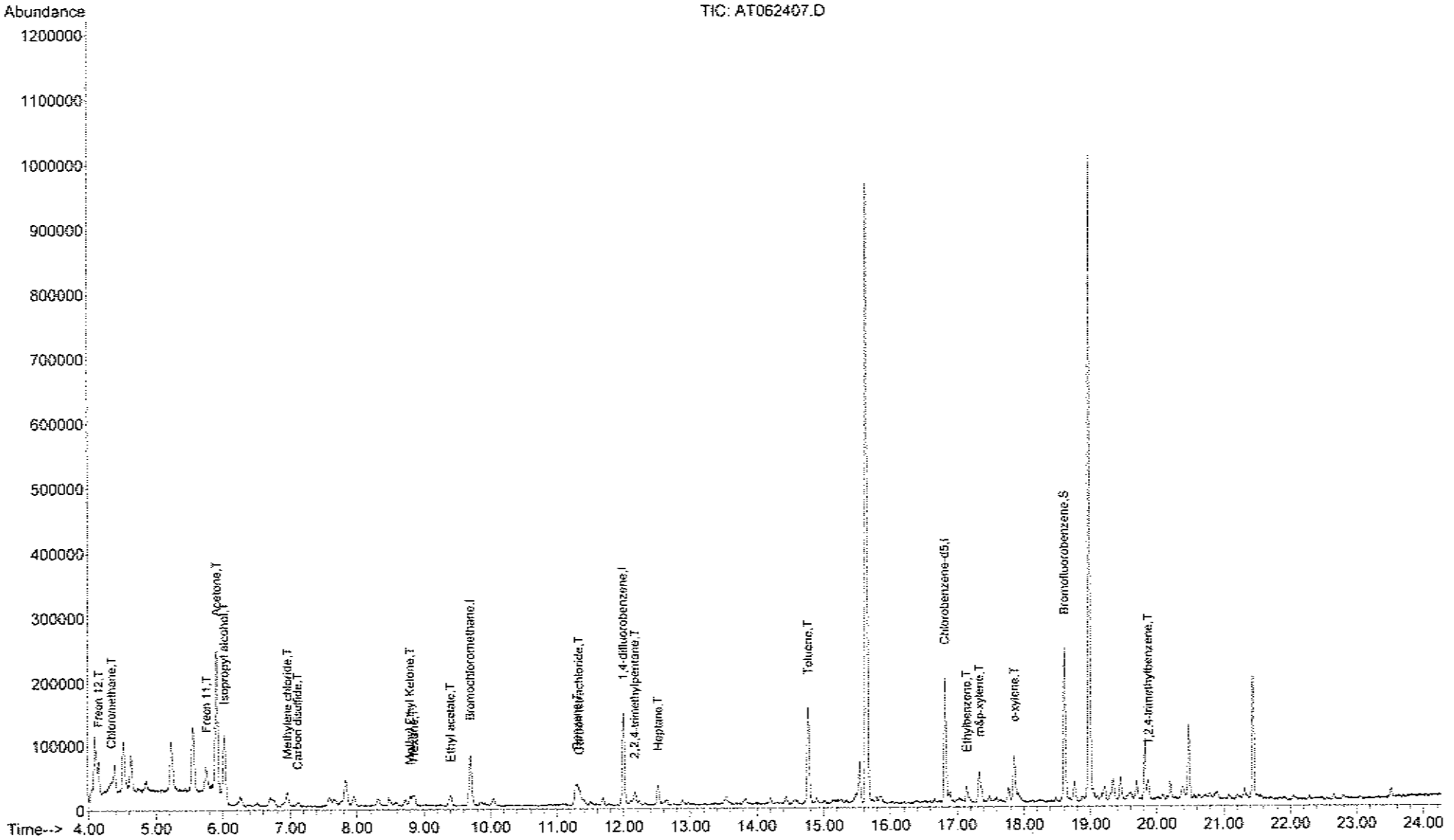
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.69	128	32107	1.00	ppb		0.00
35) 1,4-difluorobenzene	12.00	114	144309	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	130226	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	87422	0.93	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 93.00%				
Target Compounds							Qvalue
3) Freon 12	4.14	85	69555	0.47	ppb		99
4) Chloromethane	4.33	50	16149	0.45	ppb		75
14) Freon 11	5.75	101	45320	0.25	ppb		99
15) Acetone	5.91	58	114628	6.14	ppb	#	50
17) Isopropyl alcohol	6.02	45	71267	1.31	ppb	#	1
21) Methylene chloride	6.95	84	14725	0.36	ppb		94
23) Carbon disulfide	7.12	76	12371	0.10	ppb		96
28) Methyl Ethyl Ketone	8.78	72	6822	0.43	ppb	#	100
30) Hexane	8.86	57	10037	0.21	ppb		89
31) Ethyl acetate	9.39	43	26681	0.36	ppb		98
38) Carbon tetrachloride	11.33	117	9886	0.10	ppb		87
39) Benzene	11.29	78	27035	0.26	ppb		98
42) 2,2,4-trimethylpentane	12.17	57	18102	0.13	ppb		87
43) Heptane	12.52	43	9267	0.19	ppb	#	76
51) Toluene	14.77	92	74580	0.97	ppb		97
58) Ethylbenzene	17.14	91	20098	0.11	ppb		97
59) m&p-xylene	17.33	91	47005	0.32	ppb		97
63) o-xylene	17.87	91	20708	0.13	ppb		99
71) 1,2,4-trimethylbenzene	19.87	105	19577	0.11	ppb		95

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

Quantitation Report (QT Reviewed)

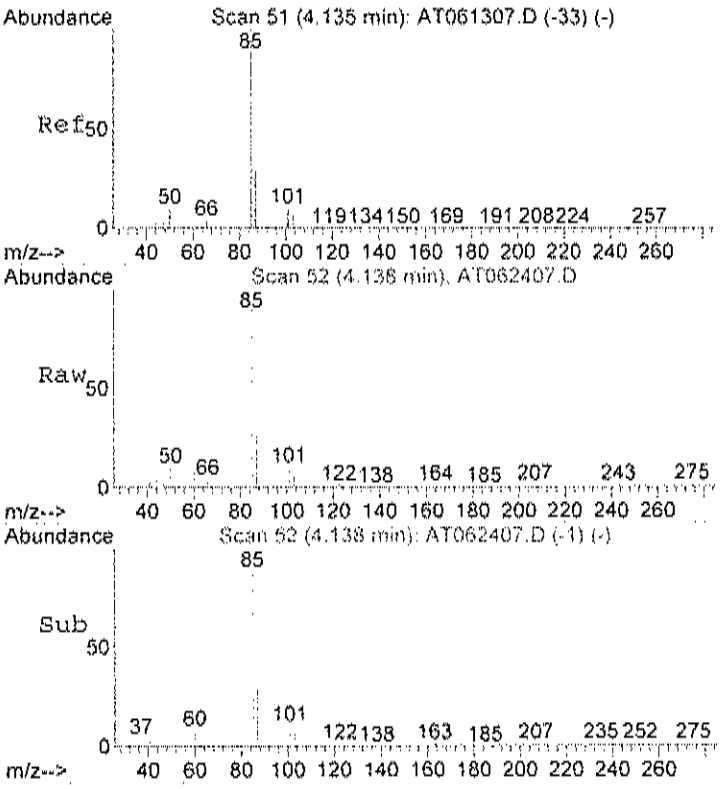
Data File : C:\HPCHEM\1\DATA\AT062407.D Vial: 7
Acq On : 24 Jun 2022 1:06 pm Operator: RJP
Sample : C2206048-019A Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 13:34 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



AT062407.D A613_1UG.M Thu Jul 07 07:34:13 2022 MSD1 Page 2

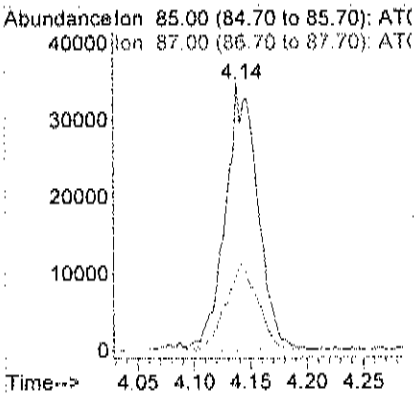
Centek/SanAir Laboratories

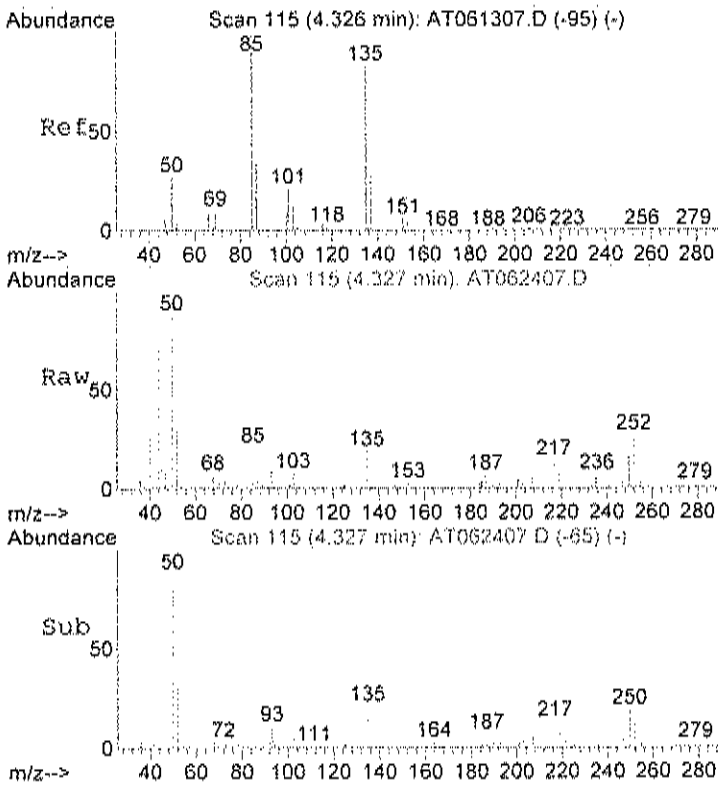


#3
Freon 12
Concen: 0.47 ppb
RT: 4.14 min Scan# 52
Delta R.T. 0.00 min
Lab File: AT062407.D
Acq: 24 Jun 2022 1:06 pm

Tgt Ion: 85 Resp: 69555

Ion	Ratio	Lower	Upper
85	100		
87	32.1	12.8	52.8

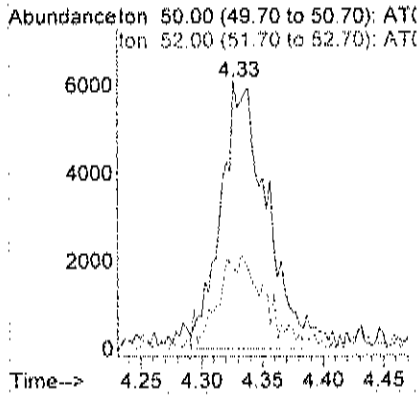


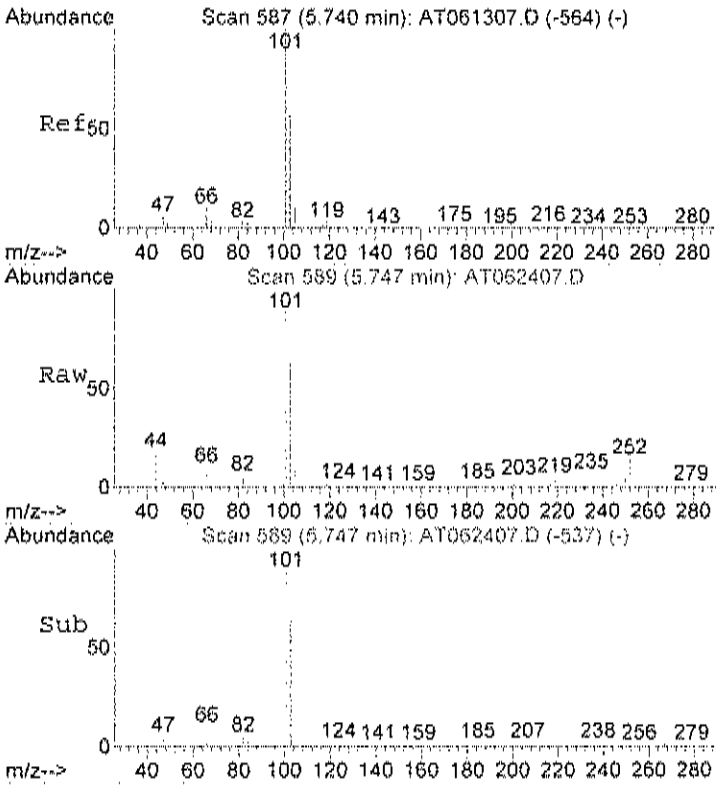


#4
Chloromethane
Concen: 0.45 ppb
RT: 4.33 min Scan# 115
Delta R.T. 0.00 min
Lab File: AT062407.D
Acq: 24 Jun 2022 1:06 pm

Tgt Ion: 50 Resp: 16149

Ion	Ratio	Lower	Upper
50	100		
52	34.9	2.7	42.7

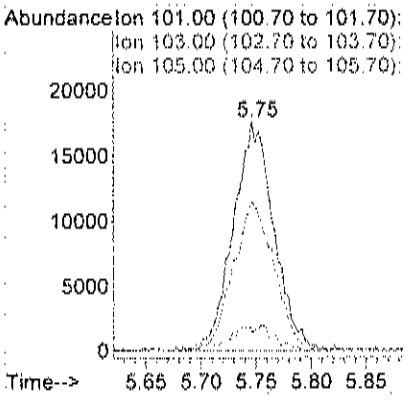


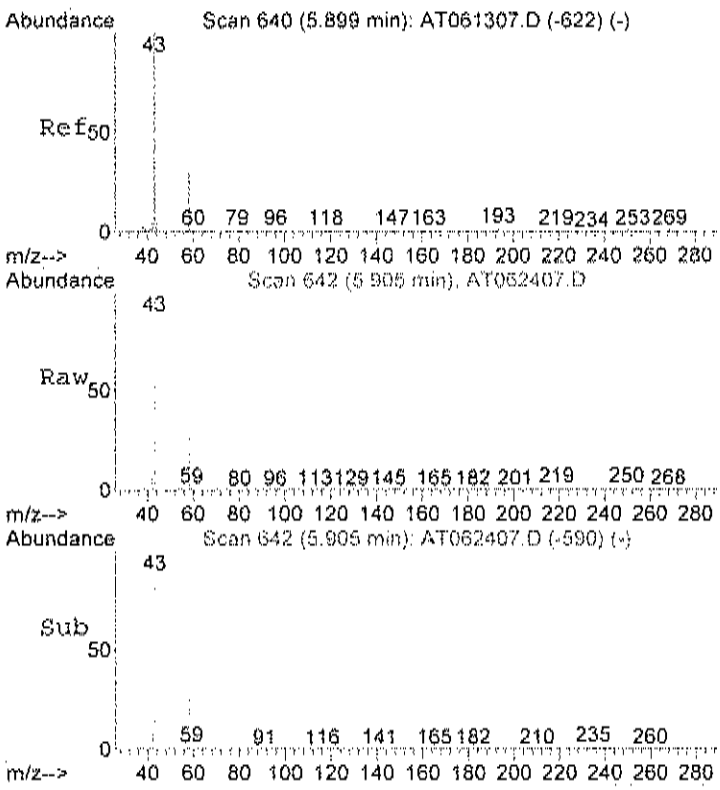


#14
Freon 11
Concen: 0.25 ppb
RT: 5.75 min Scan# 589
Delta R.T. 0.01 min
Lab File: AT062407.D
Acq: 24 Jun 2022 1:06 pm

Tgt Ion:101 Resp: 45320

Ion	Ratio	Lower	Upper
101	100		
103	65.9	46.3	86.3
105	11.7	0.0	31.2

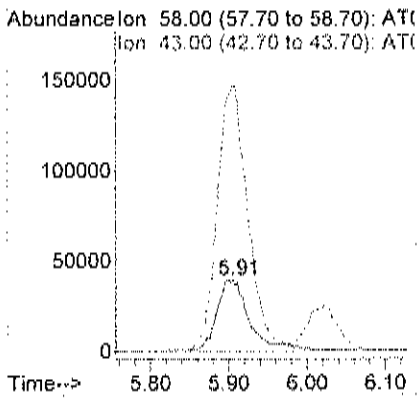


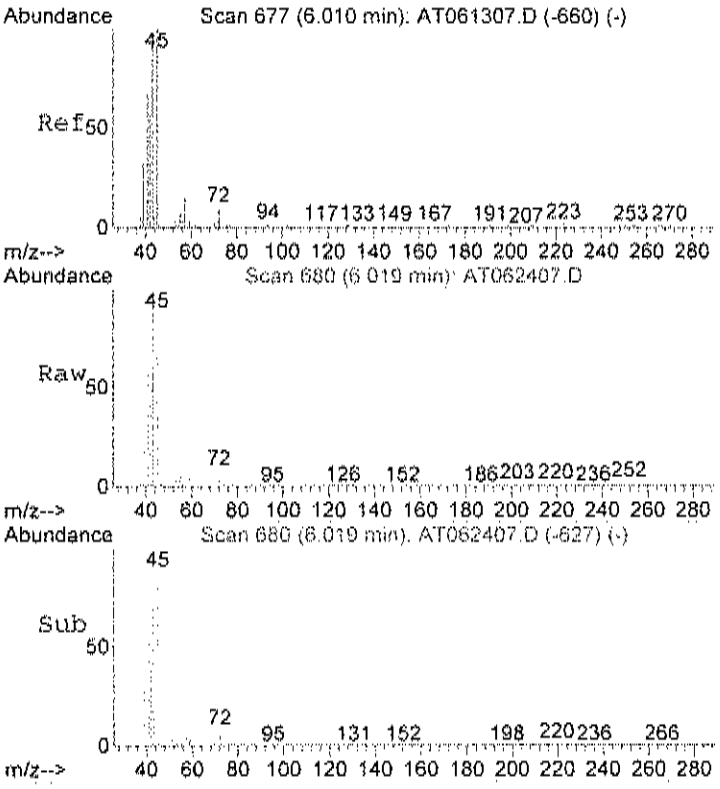


#15
Acetone
Concen: 6.14 ppb
RT: 5.91 min Scan# 642
Delta R.T. 0.01 min
Lab File: AT062407.D
Acq: 24 Jun 2022 1:06 pm

Tgt Ion: 58 Resp: 114628

Ion	Ratio	Lower	Upper
58	100		
43	396.5	268.9	328.9#

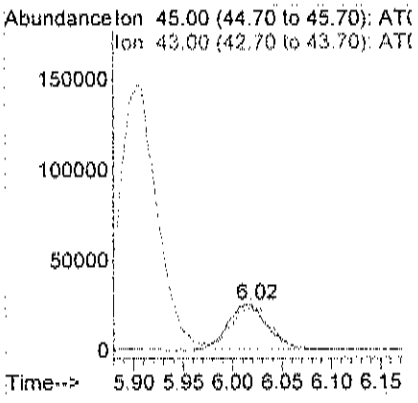


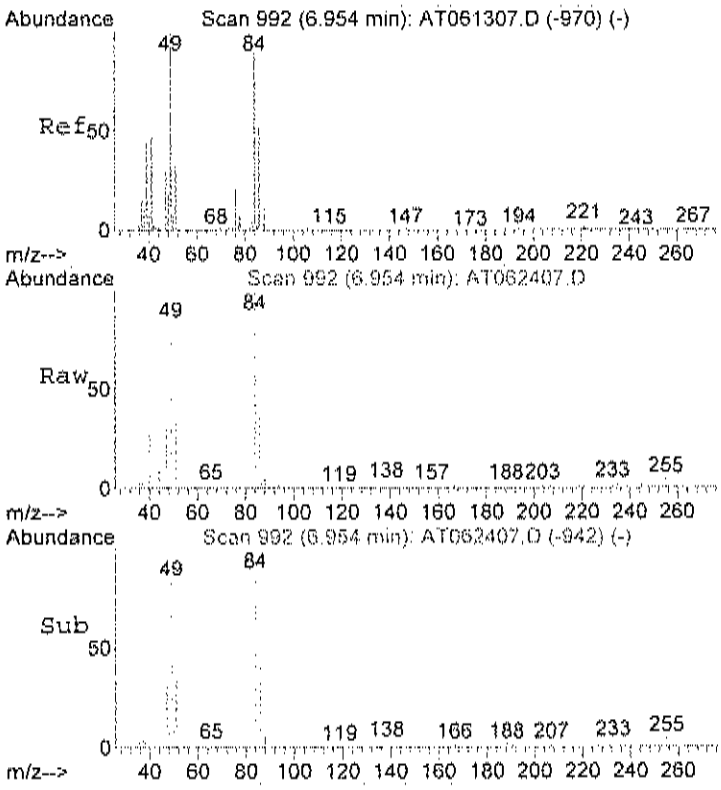


#17
Isopropyl alcohol
Concen: 1.31 ppb
RT: 6.02 min Scan# 680
Delta R.T. 0.01 min
Lab File: AT062407.D
Acq: 24 Jun 2022 1:06 pm

Tgt Ion: 45 Resp: 71267

Ion	Ratio	Lower	Upper
45	100		
43	0.0	96.2	136.2#

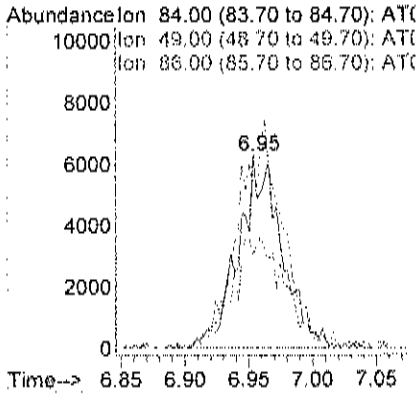


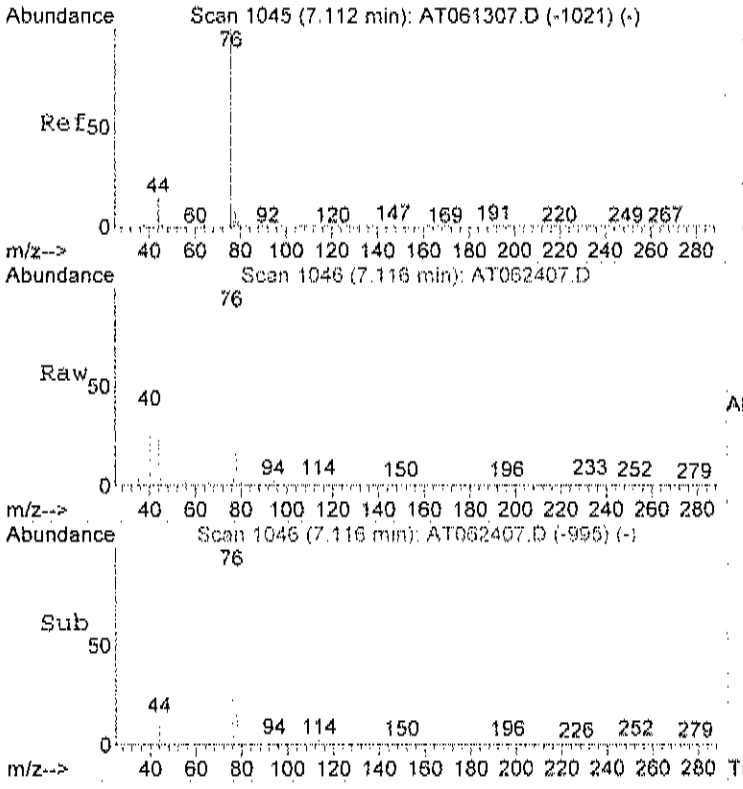


#21
Methylene chloride
Concen: 0.36 ppb
RT: 6.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: AT062407.D
Acq: 24 Jun 2022 1:06 pm

Tgt Ion: 84 Resp: 14725

Ion	Ratio	Lower	Upper
84	100		
49	121.4	93.2	133.2
86	69.1	46.4	86.4

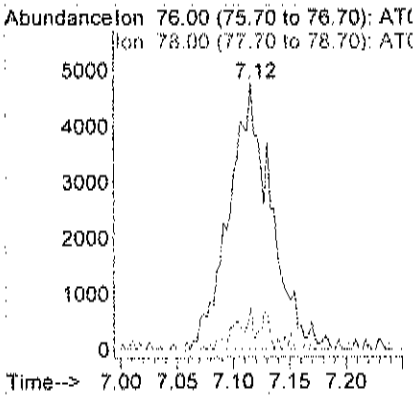


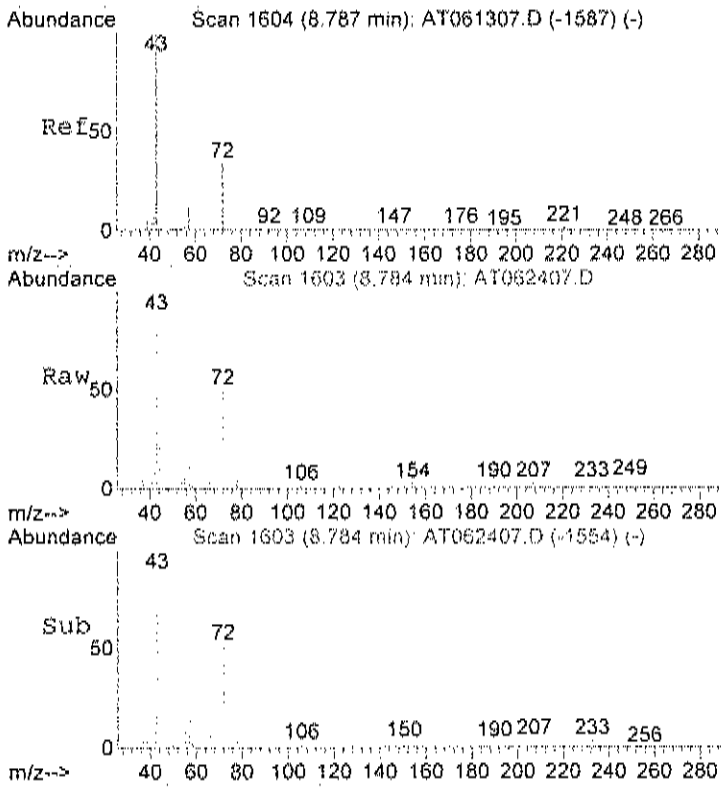


#23
Carbon disulfide
Concen: 0.10 ppb
RT: 7.12 min Scan# 1046
Delta R.T. 0.00 min
Lab File: AT062407.D
Acq: 24 Jun 2022 1:06 pm

Tgt Ion: 76 Resp: 12371

Ion	Ratio	Lower	Upper
76	100		
78	8.1	0.0	29.7

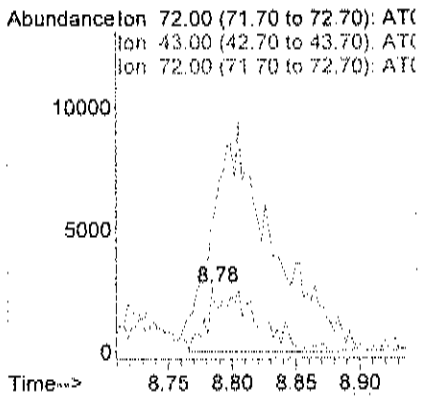


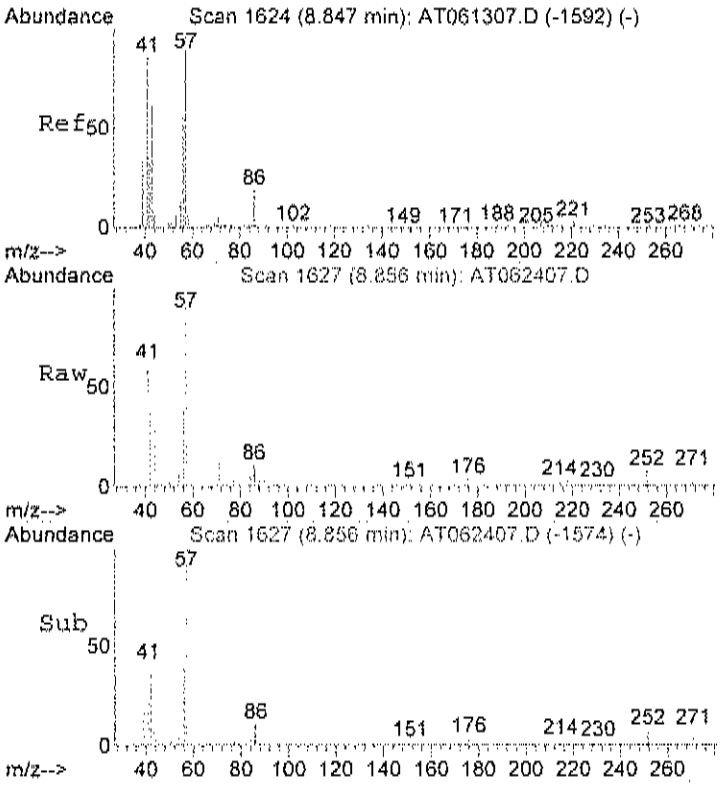


#28
Methyl Ethyl Ketone
Concen: 0.43 ppb
RT: 8.78 min Scan# 1603
Delta R.T. -0.00 min
Lab File: AT062407.D
Acq: 24 Jun 2022 1:06 pm

Tgt Ion: 72 Resp: 6822

Ion	Ratio	Lower	Upper
72	100		
43	451.7	0.0	20.0#
72	100.0	80.0	120.0

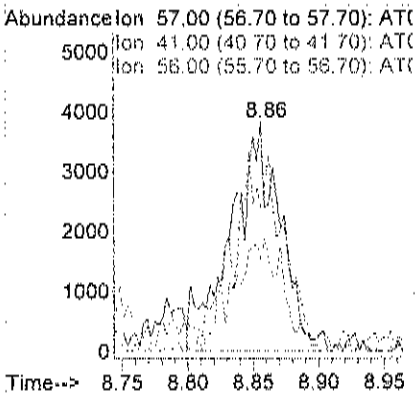


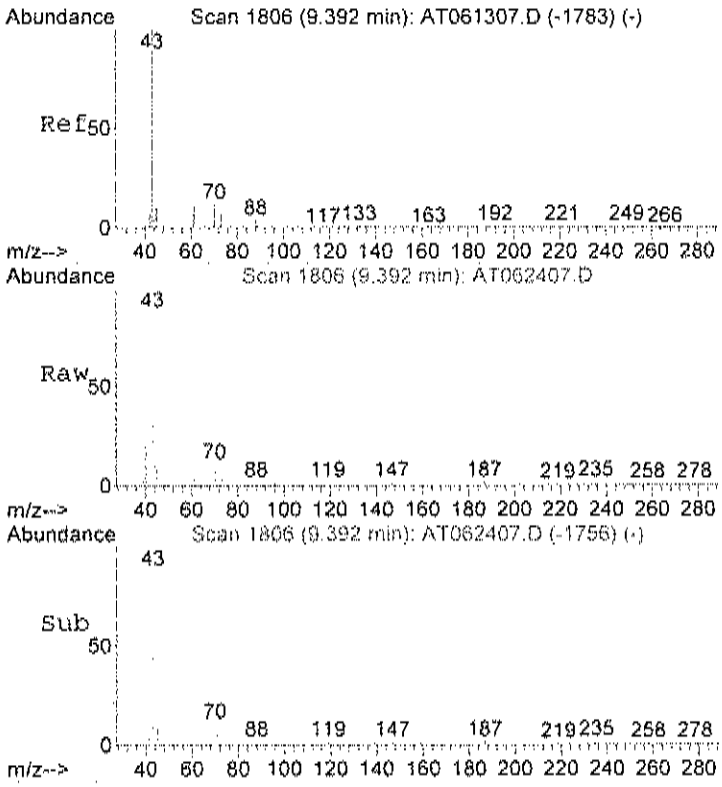


#30
Hexane
Concen: 0.21 ppb
RT: 8.86 min Scan# 1627
Delta R.T. 0.01 min
Lab File: AT062407.D
Acq: 24 Jun 2022 1:06 pm

Tgt Ion: 57 Resp: 10037

Ion	Ratio	Lower	Upper
57	100		
41	67.5	58.1	98.1
56	42.5	28.7	68.7

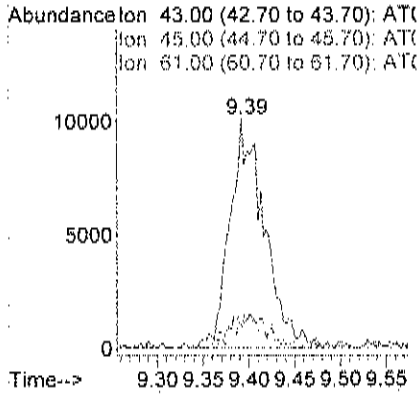


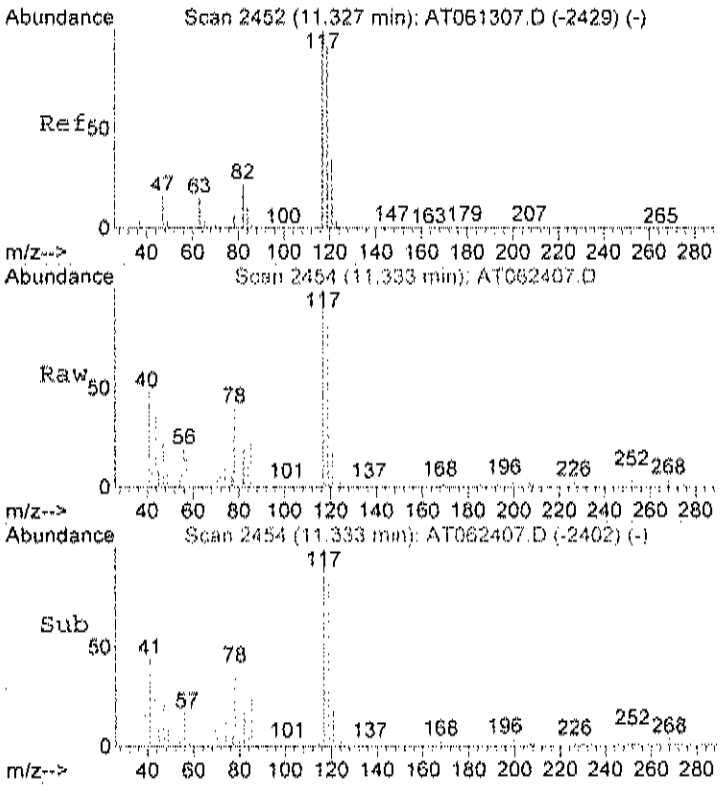


#31
Ethyl acetate
Concen: 0.36 ppb
RT: 9.39 min Scan# 1806
Delta R.T. 0.00 min
Lab File: AT062407.D
Acq: 24 Jun 2022 1:06 pm

Tgt Ion: 43 Resp: 26681

Ion	Ratio	Lower	Upper
43	100		
45	14.2	0.0	33.7
61	14.0	0.0	34.7

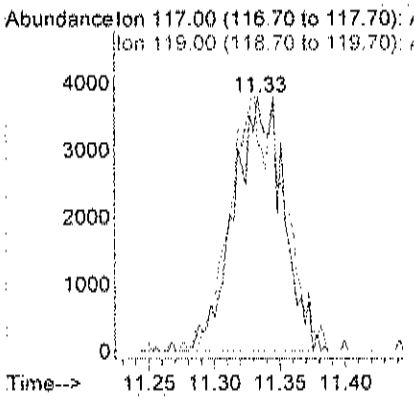


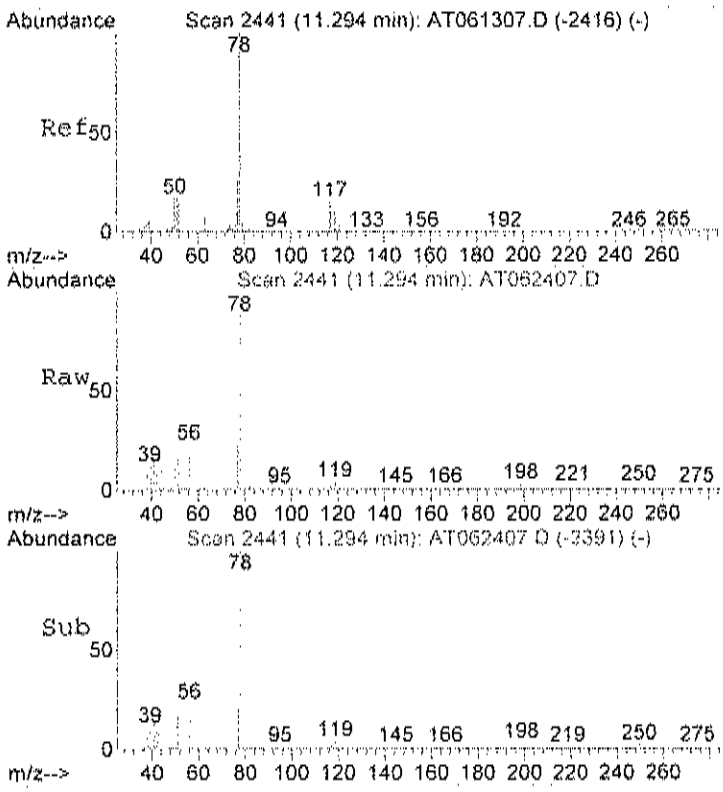


#38
Carbon tetrachloride
Concen: 0.10 ppb
RT: 11.33 min Scan# 2454
Delta R.T. 0.01 min
Lab File: AT062407.D
Acq: 24 Jun 2022 1:06 pm

Tgt Ion:117 Resp: 9886

Ion	Ratio	Lower	Upper
117	100		
119	109.6	77.2	117.2

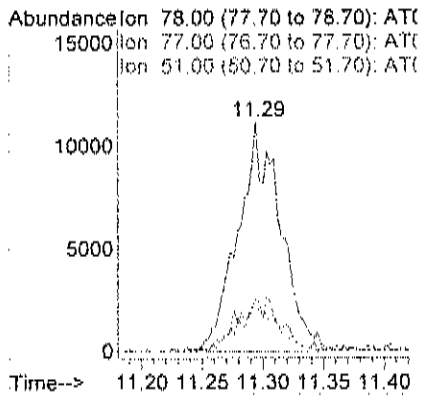


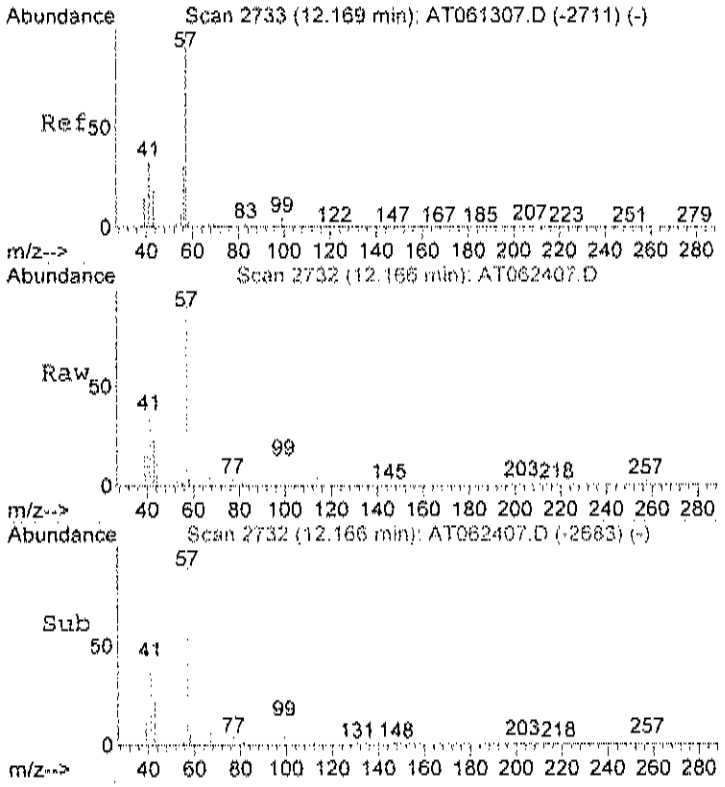


#39
Benzene
Concen: 0.26 ppb
RT: 11.29 min Scan# 2441
Delta R.T. 0.00 min
Lab File: AT062407.D
Acq: 24 Jun 2022 1:06 pm

Tgt Ion: 78 Resp: 27035

Ion	Ratio	Lower	Upper
78	100		
77	23.3	3.1	43.1
51	19.6	0.0	37.8

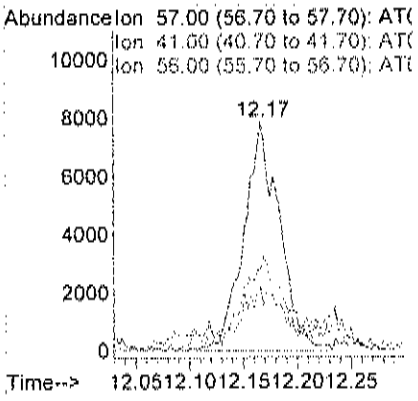


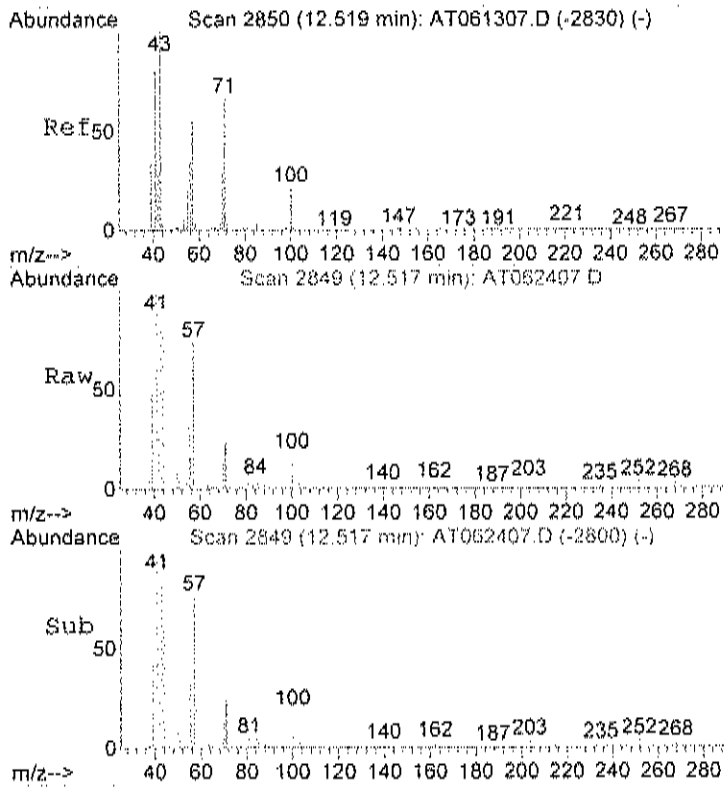


#42
2,2,4-trimethylpentane
Concen: 0.13 ppb
RT: 12.17 min Scan# 2732
Delta R.T. -0.00 min
Lab File: AT062407.D
Acq: 24 Jun 2022 1:06 pm

Tgt Ion: 57 Resp: 18102

Ion	Ratio	Lower	Upper
57	100		
41	41.8	15.3	55.3
56	21.8	10.1	50.1

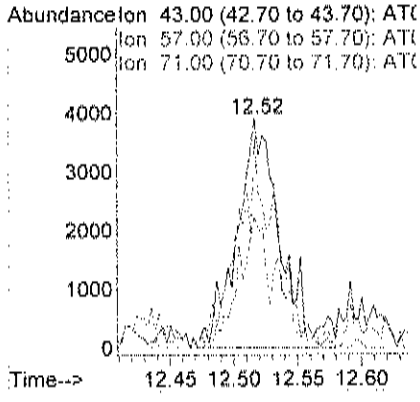


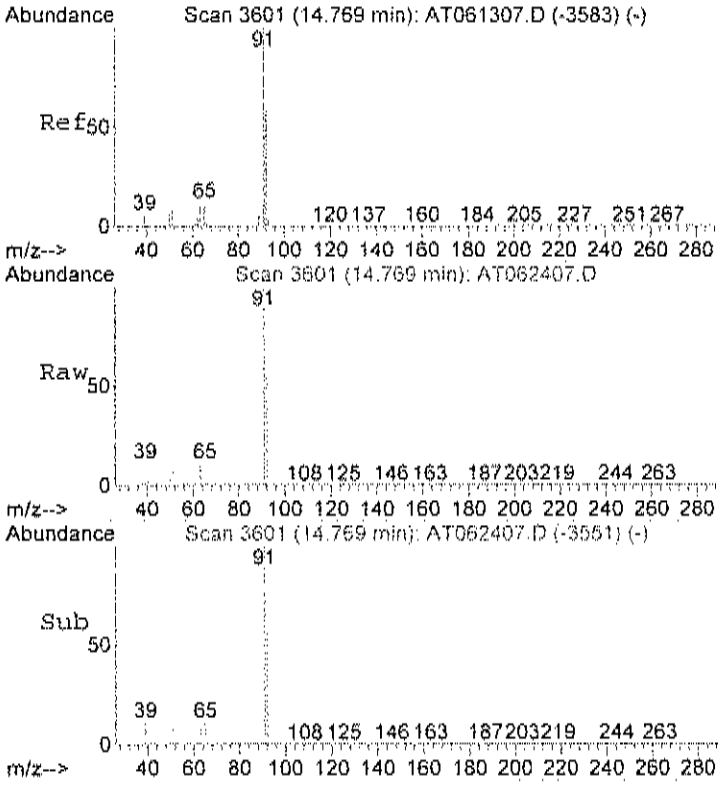


#43
Heptane
Concen: 0.19 ppb
RT: 12.52 min Scan# 2849
Delta R.T. -0.00 min
Lab File: AT062407.D
Acq: 24 Jun 2022 1:06 pm

Tgt Ion: 43 Resp: 9267

Ion	Ratio	Lower	Upper
43	100		
57	77.4	41.7	81.7
71	50.3	53.4	93.4#

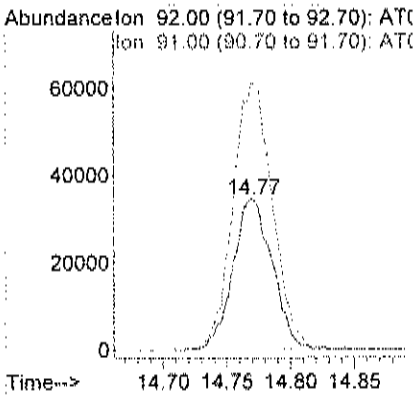


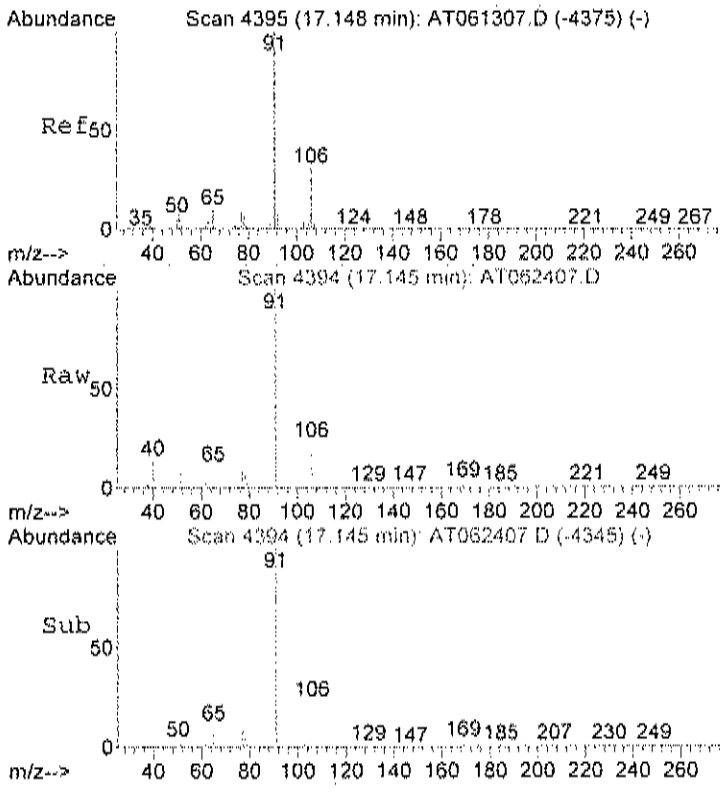


#51
Toluene
Concen: 0.97 ppb
RT: 14.77 min Scan# 3601
Delta R.T. 0.00 min
Lab File: AT062407.D
Acq: 24 Jun 2022 1:06 pm

Tgt Ion: 92 Resp: 74580

Ion	Ratio	Lower	Upper
92	100		
91	179.3	154.4	194.4

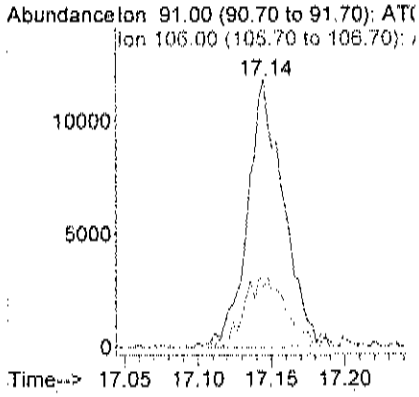


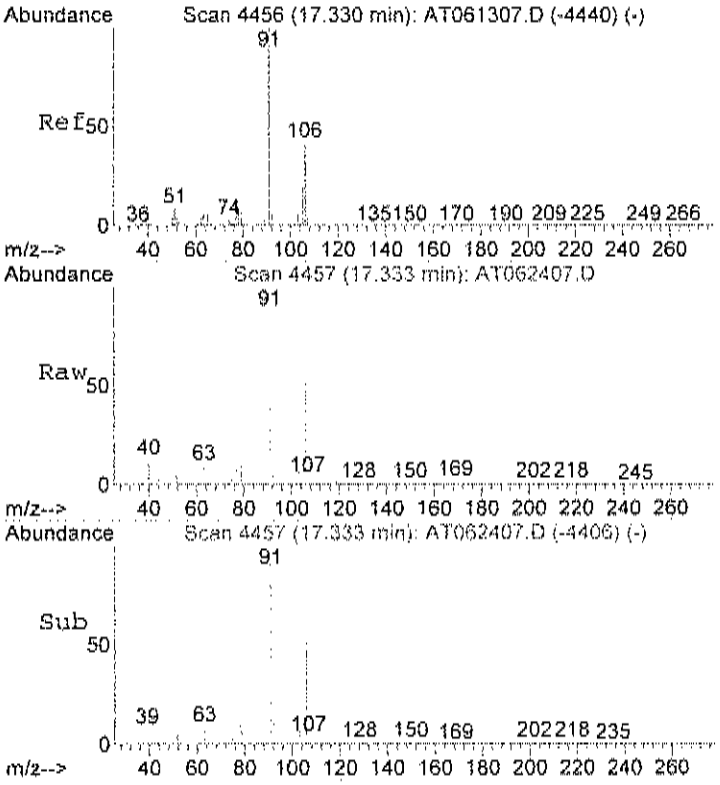


#58
Ethylbenzene
Concen: 0.11 ppb
RT: 17.14 min Scan# 4394
Delta R.T. -0.00 min
Lab File: AT062407.D
Acq: 24 Jun 2022 1:06 pm

Tgt Ion: 91 Resp: 20098

Ion	Ratio	Lower	Upper
91	100		
106	30.0	11.5	51.5

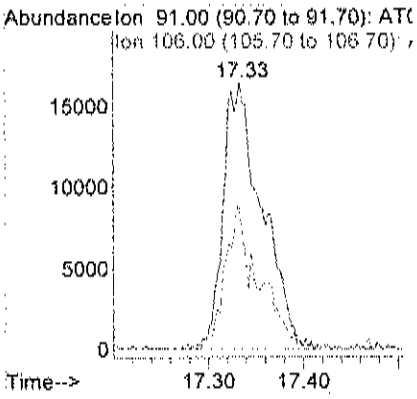


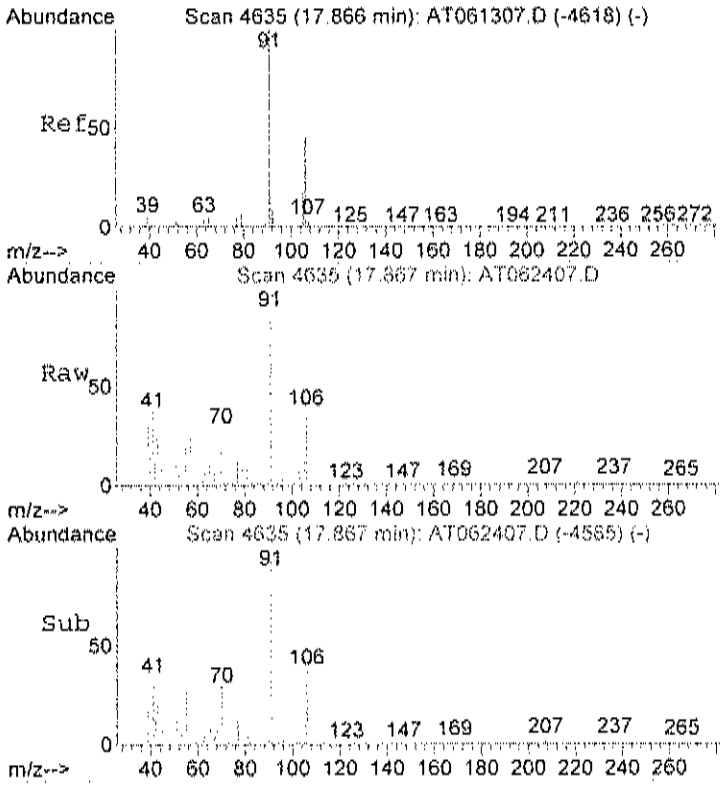


#59
m&p-xylene
Concen: 0.32 ppb
RT: 17.33 min Scan# 4457
Delta R.T. 0.00 min
Lab File: AT062407.D
Acq: 24 Jun 2022 1:06 pm

Tgt Ion: 91 Resp: 47005

Ion	Ratio	Lower	Upper
91	100		
106	45.9	27.9	67.9

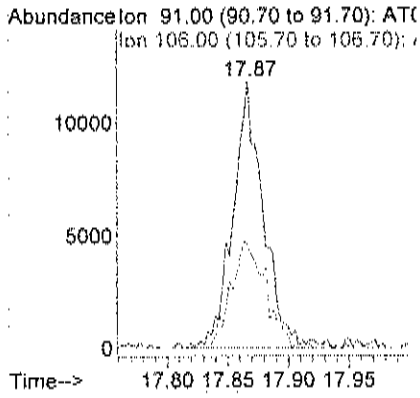


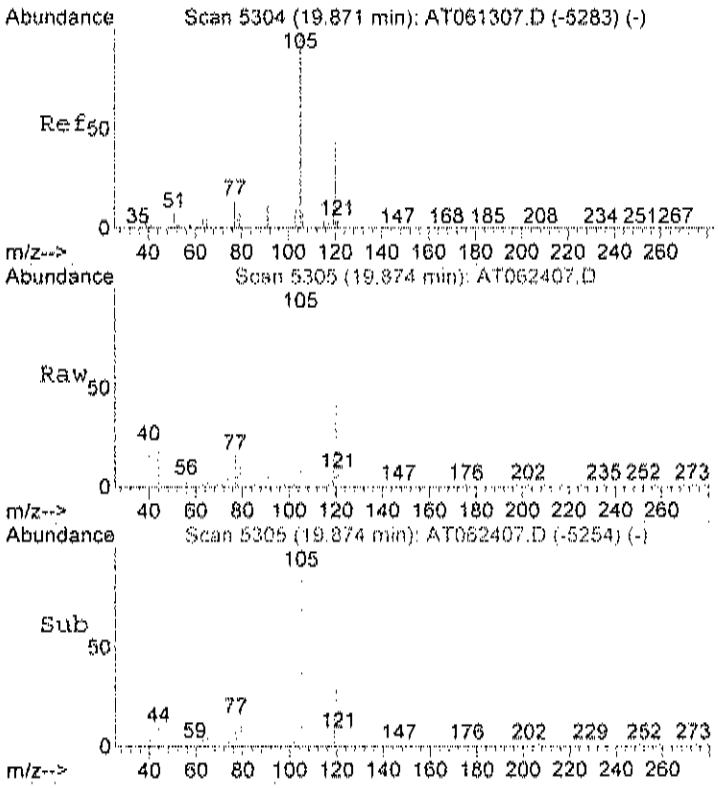


#63
o-xylene
Concen: 0.13 ppb
RT: 17.87 min Scan# 4635
Delta R.T. 0.00 min
Lab File: AT062407.D
Acq: 24 Jun 2022 1:06 pm

Tgt Ion: 91 Resp: 20708

Ion	Ratio	Lower	Upper
91	100		
106	45.7	25.1	65.1

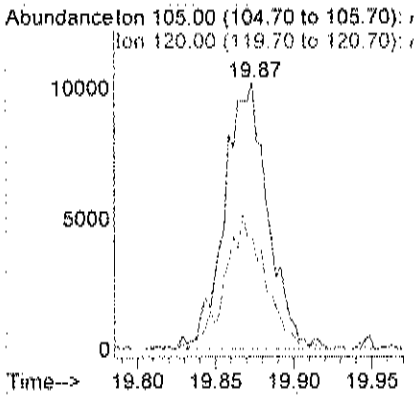




#71
1,2,4-trimethylbenzene
Concen: 0.11 ppb
RT: 19.87 min Scan# 5305
Delta R.T. 0.00 min
Lab File: AT062407.D
Acq: 24 Jun 2022 1:06 pm

Tgt Ion:105 Resp: 19577

Ion	Ratio	Lower	Upper
105	100		
120	47.3	23.8	63.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062430.D Vial: 29
Acq On : 25 Jun 2022 8:20 am Operator: RJP
Sample : C2206048-019A 10X Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 27 11:13:15 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.69	128	32400	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.00	114	138638	1.00	ppb	0.00
50) Chlorobenzene-d5	16.82	117	119924	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.57	95	76421	0.88	ppb	-0.04
Spiked Amount 1.000	Range 70 - 130		Recovery = 88.00%			
Target Compounds						Qvalue
15) Acetone	5.91	58	13653m	0.72	ppb	

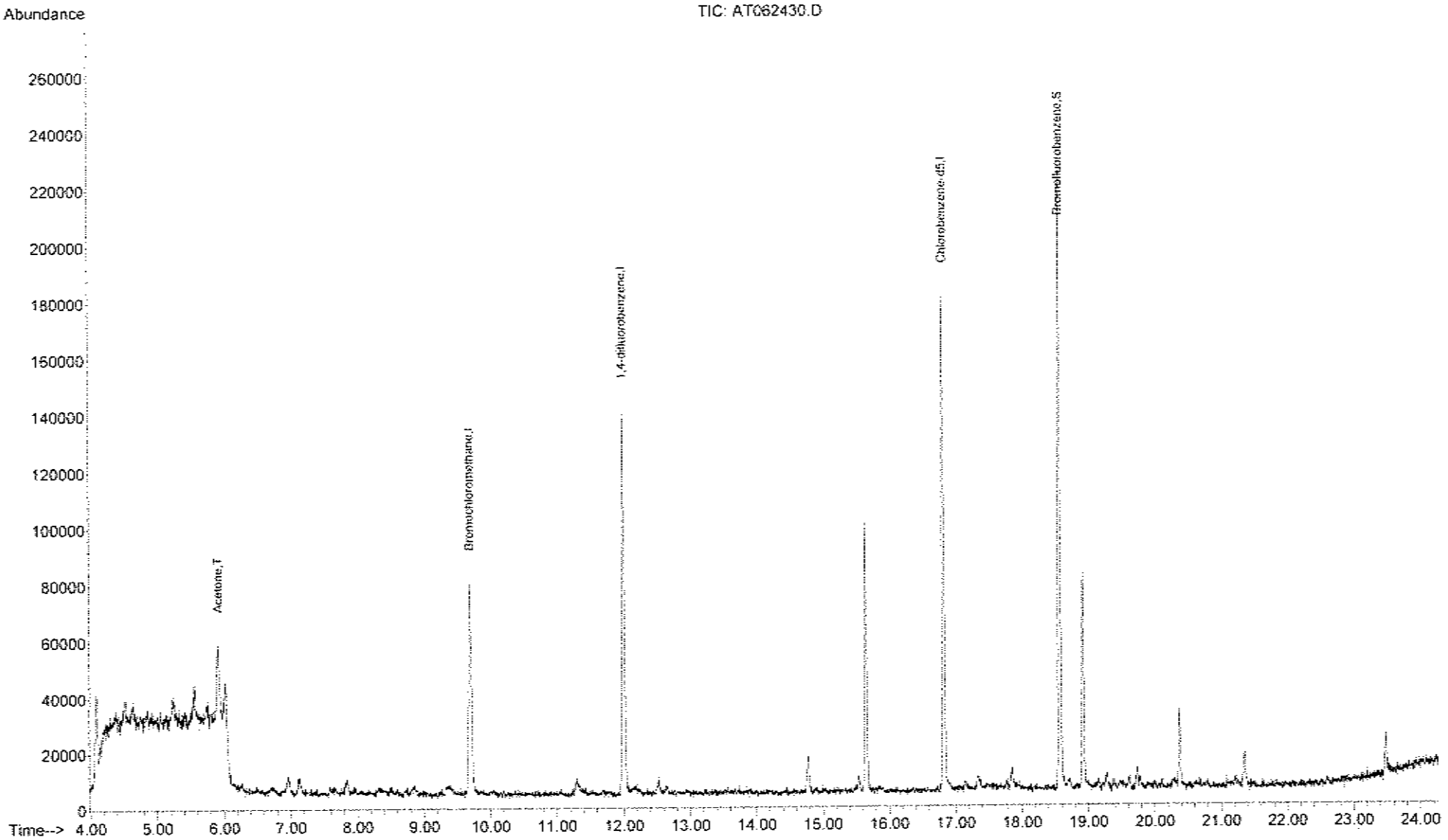
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

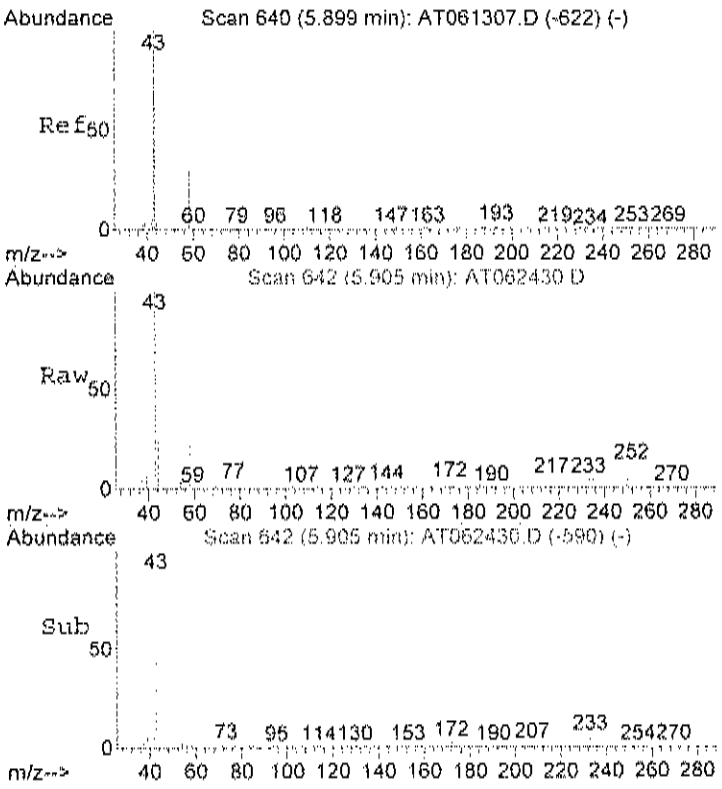
Data File : C:\HPCHEM\1\DATA\AT062430.D
Acq On : 25 Jun 2022 8:20 am
Sample : C2206048-019A 10X
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 29 11:18 2022

Vial: 29
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



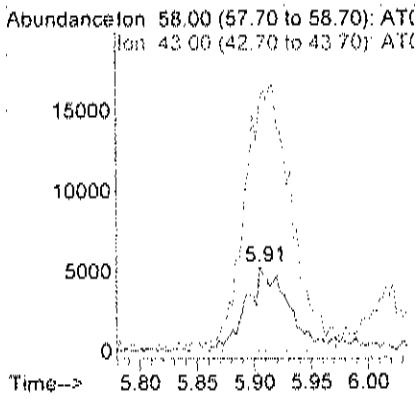
Centek/SanAir Laboratories



#15
Acetone
Concen: 0.72 ppb m
RT: 5.91 min Scan# 642
Delta R.T. 0.01 min
Lab File: AT062430.D
Acq: 25 Jun 2022 8:20 am

Tgt Ion: 58 Resp: 13653

Ion	Ratio	Lower	Upper
58	100		
43	385.4	268.9	328.9#



Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	TB-1
Lab Order:	C2206048	**Tag Number:**	158
Project:	IKEA Red Hook	**Collection Date:**	
Lab ID:	C2206048-020A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	+19			"Hg		6/23/2022
Lab Vacuum Out	+19			"Hg		6/23/2022
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	6/29/2022 3:21:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/29/2022 3:21:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Acetone	< 0.30	0.30		ppbV	1	6/29/2022 3:21:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Benzene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Bromoform	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Carbon tetrachloride	< 0.030	0.030		ppbV	1	6/29/2022 3:21:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Chloroform	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	6/29/2022 3:21:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Ethyl acetate	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	TB-1
Lab Order:	C2206048	**Tag Number:**	158
Project:	IKEA Red Hook	**Collection Date:**	
Lab ID:	C2206048-020A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Freon 11	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Freon 113	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Freon 114	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Freon 12	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Heptane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Hexane	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
m&p-Xylene	< 0.30	0.30		ppbV	1	6/29/2022 3:21:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/29/2022 3:21:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	6/29/2022 3:21:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/29/2022 3:21:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Propylene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Styrene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Toluene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Trichloroethene	< 0.030	0.030		ppbV	1	6/29/2022 3:21:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/29/2022 3:21:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	6/29/2022 3:21:00 AM
Surr: Bromofluorobenzene	79.0	47-124		%REC	1	6/29/2022 3:21:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT: SOIL MECHANICS
Lab Order: C2206048
Project: IKEA Red Hook
Lab ID: C2206048-020A

Client Sample ID: TB-1
Tag Number: 158
Collection Date:
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/29/2022 3:21:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/29/2022 3:21:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/29/2022 3:21:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/29/2022 3:21:00 AM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	6/29/2022 3:21:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/29/2022 3:21:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/29/2022 3:21:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/29/2022 3:21:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/29/2022 3:21:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/29/2022 3:21:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/29/2022 3:21:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/29/2022 3:21:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/29/2022 3:21:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/29/2022 3:21:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/29/2022 3:21:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/29/2022 3:21:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	6/29/2022 3:21:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/29/2022 3:21:00 AM
Acetone	< 0.71	0.71		ug/m3	1	6/29/2022 3:21:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/29/2022 3:21:00 AM
Benzene	< 0.48	0.48		ug/m3	1	6/29/2022 3:21:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/29/2022 3:21:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/29/2022 3:21:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/29/2022 3:21:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/29/2022 3:21:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	6/29/2022 3:21:00 AM
Carbon tetrachloride	< 0.19	0.19		ug/m3	1	6/29/2022 3:21:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/29/2022 3:21:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	6/29/2022 3:21:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	6/29/2022 3:21:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	6/29/2022 3:21:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	6/29/2022 3:21:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/29/2022 3:21:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/29/2022 3:21:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/29/2022 3:21:00 AM
Ethyl acetate	< 0.54	0.54		ug/m3	1	6/29/2022 3:21:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	6/29/2022 3:21:00 AM
Freon 11	< 0.84	0.84		ug/m3	1	6/29/2022 3:21:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/29/2022 3:21:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/29/2022 3:21:00 AM

Qualifiers:

*	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *07-Jul-22*

CLIENT:	SOIL MECHANICS	**Client Sample ID:**	TB-1
Lab Order:	C2206048	**Tag Number:**	158
Project:	IKEA Red Hook	**Collection Date:**	
Lab ID:	C2206048-020A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
Freon 12	< 0.74	0.74		ug/m3	1	6/29/2022 3:21:00 AM
Heptane	< 0.61	0.61		ug/m3	1	6/29/2022 3:21:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/29/2022 3:21:00 AM
Hexane	< 0.53	0.53		ug/m3	1	6/29/2022 3:21:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/29/2022 3:21:00 AM
m&p-Xylene	< 1.3	1.3		ug/m3	1	6/29/2022 3:21:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/29/2022 3:21:00 AM
Methyl Ethyl Ketone	< 0.88	0.88		ug/m3	1	6/29/2022 3:21:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/29/2022 3:21:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/29/2022 3:21:00 AM
Methylene chloride	< 0.52	0.52		ug/m3	1	6/29/2022 3:21:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	6/29/2022 3:21:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/29/2022 3:21:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/29/2022 3:21:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/29/2022 3:21:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/29/2022 3:21:00 AM
Toluene	< 0.57	0.57		ug/m3	1	6/29/2022 3:21:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/29/2022 3:21:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/29/2022 3:21:00 AM
Trichloroethene	< 0.16	0.16		ug/m3	1	6/29/2022 3:21:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/29/2022 3:21:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/29/2022 3:21:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/29/2022 3:21:00 AM

Qualifiers:

.	Results reported are not blank corrected
DL	Detection Limit
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
E	Estimated Value above quantitation range
J	Analyte detected below quantitation limit
ND	Not Detected at the Limit of Detection
SC	Sub-Contracted

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062827.D Vial: 19
Acq On : 29 Jun 2022 3:21 am Operator: RJP
Sample : C2206048-020A Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 29 07:10:13 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

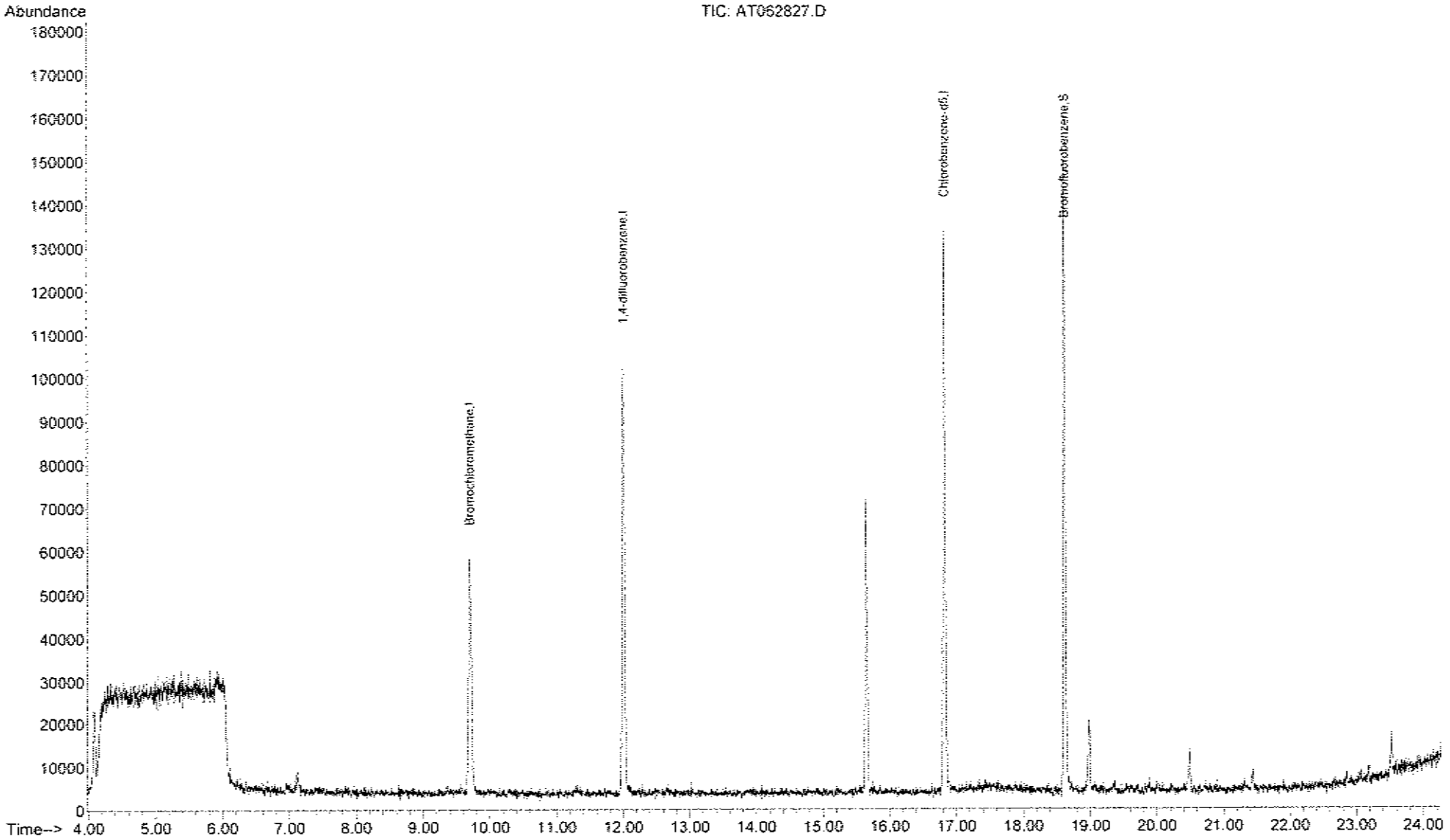
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.70	128	23908	1.00	ppb	0.02
35) 1,4-difluorobenzene	12.00	114	101034	1.00	ppb	0.00
50) Chlorobenzene-d5	16.82	117	88053	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.62	95	50411	0.79	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 79.00%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062827.D Vial: 19
Acq On : 29 Jun 2022 3:21 am Operator: RJP
Sample : C2206048-020A Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 8:28 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



Centek/SanAir Laboratories

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS DATA

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INITIAL CALIBRATION

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration

Calibration Files
2.0 =AT061304.D 1.50 =AT061305.D 1.25 =AT061306.D
1.0 =AT061307.D 0.75 =AT061308.D 0.50 =AT061309.D

		Compound	2.0	1.50	1.25	1.0	0.75	0.50	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)	T	Propylene	0.623	0.626	0.635	0.627	0.649	0.643	0.666	11.44
3)	T	Freon 12	4.362	4.556	4.665	4.589	4.604	4.643	4.608	2.59
4)	T	Chloromethane	1.060	1.068	1.084	1.102	1.108	1.153	1.128	5.82
5)	T	Freon 114	3.564	3.604	3.817	3.708	3.747	3.756	3.777	4.83
6)	T	Vinyl Chloride	0.976	0.972	1.031	0.994	1.034	1.075	1.086	10.70
7)	T	Butane	1.151	1.229	1.254	1.210	1.284	1.378	1.326	11.64
8)	T	1,3-butadiene	0.947	0.961	0.979	1.022	0.956	1.035	1.059	14.21
9)	T	Bromomethane	1.287	1.327	1.455	1.349	1.403	1.381	1.466	13.31
10)	T	Chloroethane	0.481	0.480	0.504	0.481	0.499	0.529	0.531	13.43
11)	T	Ethanol	0.322	0.331	0.364	0.380	0.346	0.353	0.363	8.50
12)	T	Acrolein	0.309	0.328	0.368	0.339	0.338	0.332	0.361	14.19
13)	T	Vinyl Bromide	1.384	1.458	1.508	1.458	1.529	1.453	1.523	7.91
14)	T	Freon 11	5.284	5.397	5.634	5.623	5.651	5.709	5.703	5.76
15)	T	Acetone	0.551	0.569	0.593	0.582	0.565	0.584	0.582	4.96
16)	T	Pentane	0.875	0.867	0.985	0.907	0.981	0.921	0.943	7.82
17)	T	Isopropyl alcoh	1.568	1.525	1.678	1.593	1.804	1.840	1.694	14.02
18)	T	1,1-dichloroeth	1.142	1.143	1.171	1.176	1.191	1.105	1.195	6.33
19)	T	Freon 113	2.752	2.810	2.864	2.856	2.930	2.779	2.845	2.71
20)	t	t-Butyl alcohol	1.979	1.902	1.978	1.956	2.014	1.894	1.898	5.88
21)	T	Methylene chlor	1.138	1.150	1.169	1.191	1.209	1.261	1.270	14.54
22)	T	Allyl chloride	1.116	1.136	1.112	1.150	1.181	1.103	1.139	2.48
23)	T	Carbon disulfid	3.267	3.359	3.525	3.448	3.595	3.789	3.781	16.63
24)	T	trans-1,2-dichl	1.722	1.709	1.777	1.781	1.730	1.729	1.734	1.71
25)	T	methyl tert-but	2.861	2.861	2.884	2.892	2.839	2.832	2.838	1.77
26)	T	1,1-dichloroeth	2.015	2.074	2.112	2.053	2.092	2.090	2.058	2.28
27)	T	Vinyl acetate	1.630	1.607	1.640	1.644	1.617	1.611	1.607	2.76
28)	T	Methyl Ethyl Ke	0.478	0.507	0.511	0.518	0.497	0.504	0.495	6.55
29)	T	cis-1,2-dichlor	1.633	1.628	1.711	1.678	1.677	1.684	1.658	2.54
30)	T	Hexane	1.560	1.555	1.596	1.566	1.530	1.453	1.483	8.70
31)	T	Ethyl acetate	2.347	2.269	2.389	2.350	2.338	2.350	2.334	1.68
32)	T	Chloroform	3.046	3.049	3.157	3.148	3.124	3.055	3.135	2.68
33)	T	Tetrahydrofuran	0.871	0.873	0.883	0.866	0.895	0.810	0.869	3.35
34)	T	1,2-dichloroeth	2.365	2.364	2.430	2.328	2.410	2.319	2.366	2.21
35)	I	1,4-difluorobenzene	----------ISTD----------							
36)	T	1,1,1-trichloro	0.619	0.635	0.623	0.625	0.638	0.629	0.626	1.16
37)	T	Cyclohexane	0.311	0.315	0.311	0.302	0.304	0.306	0.303	3.70
38)	T	Carbon tetrachl	0.663	0.682	0.673	0.665	0.667	0.682	0.666	6.71
39)	T	Benzene	0.720	0.729	0.726	0.736	0.717	0.733	0.719	3.82
40)	T	Methyl methacry	0.320	0.313	0.314	0.313	0.302	0.275	0.296	8.10
41)	T	1,4-dioxane	0.175	0.181	0.183	0.181	0.163	0.166	0.173	4.38
42)	T	2,2,4-trimethyl	0.969	0.989	0.973	0.951	0.963	0.911	0.945	3.74
43)	T	Heptane	0.347	0.353	0.350	0.347	0.345	0.332	0.338	4.88
44)	T	Trichloroethene	0.391	0.406	0.391	0.387	0.395	0.391	0.393	5.81
45)	T	1,2-dichloropro	0.242	0.243	0.234	0.237	0.233	0.232	0.236	2.99
46)	T	Bromodichlorome	0.687	0.704	0.716	0.697	0.712	0.688	0.694	3.14
47)	T	cis-1,3-dichlor	0.387	0.398	0.390	0.381	0.377	0.345	0.376	4.70
48)	T	trans-1,3-dichl	0.337	0.337	0.334	0.323	0.304	0.284	0.312	7.46
49)	T	1,1,2-trichloro	0.326	0.340	0.333	0.332	0.328	0.317	0.323	4.46
50)	I	Chlorobenzene-d5	----------ISTD----------							
51)	T	Toluene	0.594	0.576	0.625	0.635	0.605	0.593	0.591	5.28

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration

Calibration Files
2.0 =AT061304.D 1.50 =AT061305.D 1.25 =AT061306.D
1.0 =AT061307.D 0.75 =AT061308.D 0.50 =AT061309.D

		Compound	2.0	1.50	1.25	1.0	0.75	0.50	Avg	%RSD
52)	T	Methyl Isobutyl	0.554	0.542	0.558	0.565	0.542	0.518	0.528	7.08
53)	T	Dibromochlorome	0.751	0.744	0.778	0.741	0.764	0.735	0.747	2.30
54)	T	Methyl Butyl Ke	0.529	0.488	0.524	0.528	0.496	0.443	0.479	10.44
55)	T	1,2-dibromoetha	0.568	0.555	0.556	0.571	0.542	0.562	0.548	4.60
56)	T	Tetrachloroethy	0.460	0.453	0.472	0.476	0.449	0.463	0.457	2.65
57)	T	Chlorobenzene	0.871	0.866	0.877	0.891	0.890	0.850	0.862	3.10
58)	T	Ethylbenzene	1.406	1.401	1.429	1.447	1.386	1.370	1.366	6.63
59)	T	m&p-xylene	1.155	1.119	1.166	1.178	1.142	1.111	1.118	5.03
60)	T	Nonane	0.591	0.552	0.593	0.602	0.569	0.552	0.569	4.09
61)	T	Styrene	0.867	0.823	0.854	0.887	0.828	0.819	0.825	5.59
62)	T	Bromoform	0.675	0.650	0.691	0.700	0.678	0.674	0.666	4.23
63)	T	o-xylene	1.222	1.176	1.224	1.239	1.222	1.211	1.191	4.15
64)	T	Cumene	1.638	1.585	1.647	1.640	1.603	1.569	1.571	5.97
65)	S	Bromofluorobenz	0.737	0.730	0.758	0.760	0.741	0.743	0.725	3.95
66)	T	1,1,2,2-tetrach	0.715	0.687	0.724	0.742	0.727	0.703	0.705	4.76
67)	T	Propylbenzene	0.446	0.433	0.453	0.473	0.433	0.435	0.432	6.73
68)	T	2-Chlorotoluene	0.419	0.403	0.417	0.427	0.417	0.432	0.412	4.04
69)	T	4-ethyltoluene	1.635	1.571	1.622	1.659	1.564	1.532	1.548	6.69
70)	T	1,3,5-trimethyl	1.432	1.373	1.455	1.456	1.403	1.382	1.382	5.19
71)	T	1,2,4-trimethyl	1.415	1.362	1.430	1.434	1.379	1.301	1.345	6.61
72)	T	1,3-dichloroben	0.930	0.889	0.920	0.945	0.896	0.851	0.874	7.47
73)	T	benzyl chloride	0.555	0.513	0.536	0.536	0.501	0.467	0.490	11.90
74)	T	1,4-dichloroben	0.927	0.886	0.917	0.930	0.883	0.858	0.857	10.29
75)	T	1,2,3-trimethyl	1.456	1.406	1.462	1.462	1.447	1.365	1.380	8.02
76)	T	1,2-dichloroben	0.870	0.827	0.894	0.872	0.843	0.827	0.826	7.75
77)	T	1,2,4-trichloro	0.532	0.489	0.485	0.492	0.452	0.402	0.449	14.11
78)	T	Naphthalene	1.269	1.181	1.175	1.205	1.110	1.021	1.044	15.88
79)	T	Hexachloro-1,3-	0.775	0.743	0.769	0.774	0.781	0.759	0.751	4.33

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061304.D Vial: 7
Acq On : 13 Jun 2022 3:52 pm Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 07:28:13 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:27:56 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.69	128	49957	1.00	ppb		0.00
35) 1,4-difluorobenzene	11.99	114	232088	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	209141	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	154178	0.97	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97.00%				
Target Compounds							Qvalue
2) Propylene	4.08	41	62257	1.99	ppb		88
3) Freon 12	4.13	85	435789	1.90	ppb		100
4) Chloromethane	4.33	50	105896	1.92	ppb		97
5) Freon 114	4.33	85	356126	1.92	ppb		94
6) Vinyl Chloride	4.52	62	97543	1.96	ppb		98
7) Butane	4.62	43	115004	1.90	ppb		96
8) 1,3-butadiene	4.63	39	94655	1.85	ppb		97
9) Bromomethane	4.96	94	128622	1.91	ppb		99
10) Chloroethane	5.14	64	48031	2.00	ppb		99
11) Ethanol	5.22	45	32182m	1.82	ppb		
12) Acrolein	5.80	56	30865	1.82	ppb		95
13) Vinyl Bromide	5.47	106	138268	1.90	ppb		95
14) Freon 11	5.74	101	527910	1.88	ppb		100
15) Acetone	5.89	58	55012	1.89	ppb	#	79
16) Pentane	6.01	42	87453	1.93	ppb		94
17) Isopropyl alcohol	6.00	45	156705	1.89	ppb		94
18) 1,1-dichloroethene	6.49	96	114123	1.94	ppb		91
19) Freon 113	6.69	101	274991	1.93	ppb		95
20) t-Butyl alcohol	6.72	59	197775	2.02	ppb		97
21) Methylene chloride	6.95	84	113661	1.91	ppb		94
22) Allyl chloride	6.93	41	111474	1.94	ppb		85
23) Carbon disulfide	7.10	76	326409	1.89	ppb		99
24) trans-1,2-dichloroethene	7.89	61	172004	1.93	ppb		92
25) methyl tert-butyl ether	7.90	73	285852	1.99	ppb		86
26) 1,1-dichloroethane	8.31	63	201324	1.96	ppb		97
27) Vinyl acetate	8.29	43	162846	1.98	ppb		93
28) Methyl Ethyl Ketone	8.79	72	47776	1.84	ppb	#	100
29) cis-1,2-dichloroethene	9.24	61	163156	1.95	ppb		92
30) Hexane	8.85	57	155829	1.99	ppb		97
31) Ethyl acetate	9.39	43	234523	2.00	ppb		99
32) Chloroform	9.85	83	304306	1.94	ppb		97
33) Tetrahydrofuran	10.01	42	87002	2.01	ppb		88
34) 1,2-dichloroethane	10.96	62	236284	2.03	ppb		99
36) 1,1,1-trichloroethane	10.67	97	287493	1.98	ppb		99
37) Cyclohexane	11.38	56	144351	2.06	ppb	#	85
38) Carbon tetrachloride	11.33	117	307553	1.99	ppb		98
39) Benzene	11.29	78	334410	1.96	ppb		99
40) Methyl methacrylate	12.88	41	148570	2.04	ppb		94
41) 1,4-dioxane	12.89	88	81345	1.94	ppb		89
42) 2,2,4-trimethylpentane	12.16	57	449826	2.04	ppb		100
43) Heptane	12.51	43	161259	2.00	ppb		91
44) Trichloroethene	12.64	130	181638	2.02	ppb		97
45) 1,2-dichloropropane	12.75	63	112188	2.04	ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061304.D Vial: 7
Acq On : 13 Jun 2022 3:52 pm Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 07:28:13 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:27:56 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D
DataAcq Meth : 1UG_ENT

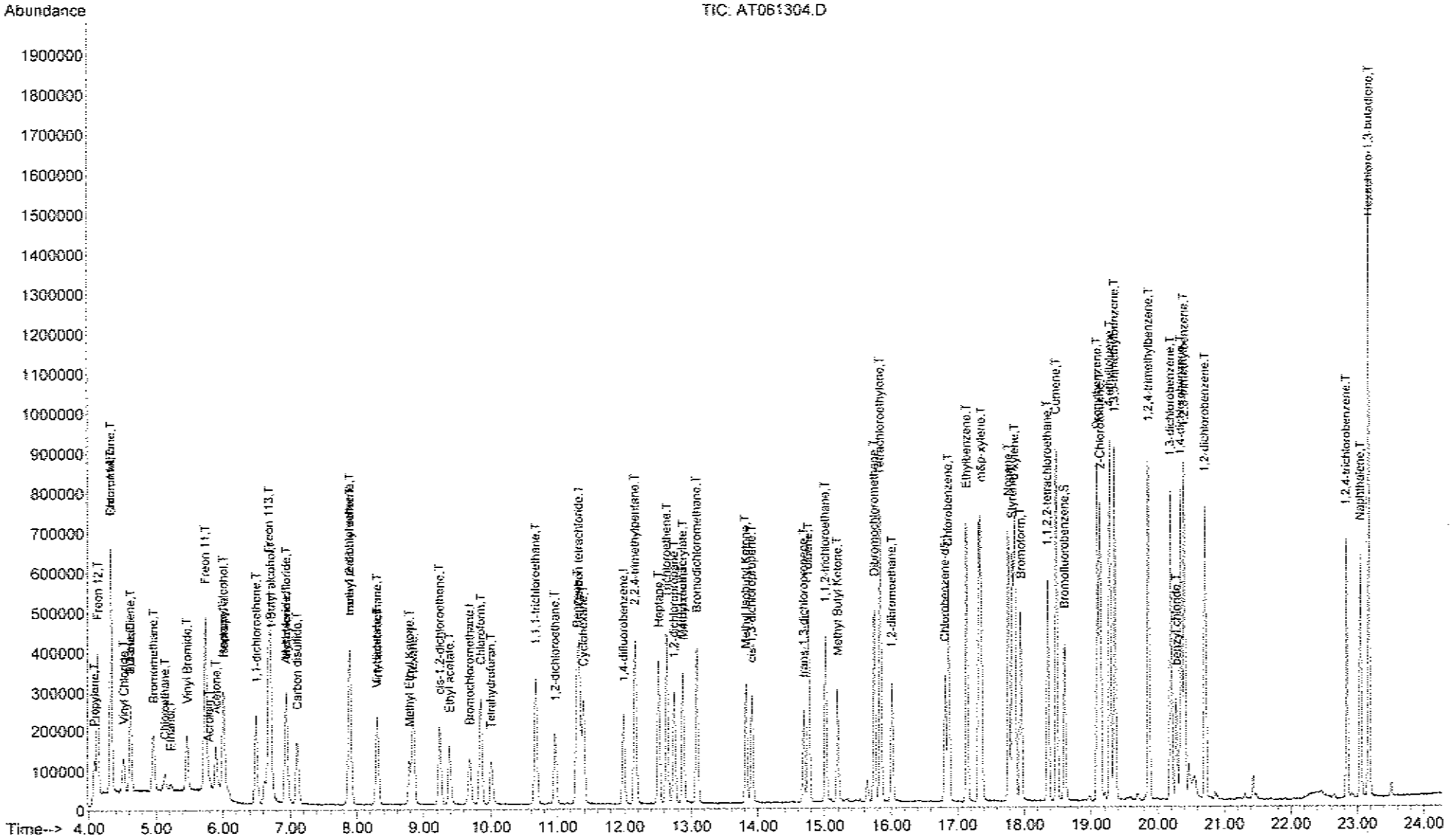
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	Bromodichloromethane	13.09	83	318810	1.97	ppb		99
47)	cis-1,3-dichloropropene	13.91	75	179711	2.03	ppb		98
48)	trans-1,3-dichloropropene	14.69	75	156527	2.09	ppb		98
49)	1,1,2-trichloroethane	15.02	97	151354	1.96	ppb		98
51)	Toluene	14.77	92	248642	1.87	ppb		99
52)	Methyl Isobutyl Ketone	13.83	43	231633	1.96	ppb		94
53)	Dibromochloromethane	15.75	129	314293	2.03	ppb		99
54)	Methyl Butyl Ketone	15.20	43	221317	2.00	ppb		95
55)	1,2-dibromoethane	16.02	107	237722	1.99	ppb		98
56)	Tetrachloroethylene	15.84	164	192227	1.93	ppb		99
57)	Chlorobenzene	16.87	112	364181	1.95	ppb		97
58)	Ethylbenzene	17.14	91	587923	1.94	ppb		100
59)	m&p-xylene	17.36	91	966480	3.91	ppb		98
60)	Nonane	17.77	43	247255	1.96	ppb		96
61)	Styrene	17.83	104	362674	1.95	ppb		98
62)	Bromoform	17.96	173	282395	1.93	ppb		99
63)	o-xylene	17.87	91	511255	1.97	ppb		99
64)	Cumene	18.49	105	685027	1.99	ppb		99
66)	1,1,2,2-tetrachloroethane	18.36	83	299103	1.92	ppb		99
67)	Propylbenzene	19.10	120	186627	1.88	ppb		89
68)	2-Chlorotoluene	19.14	126	175337	1.96	ppb	#	87
69)	4-ethyltoluene	19.29	105	683689	1.97	ppb		99
70)	1,3,5-trimethylbenzene	19.36	105	598814	1.96	ppb		99
71)	1,2,4-trimethylbenzene	19.87	105	591802	1.97	ppb		100
72)	1,3-dichlorobenzene	20.20	146	389209	1.97	ppb		99
73)	benzyl chloride	20.28	91	232122	2.07	ppb		99
74)	1,4-dichlorobenzene	20.35	146	387810	1.99	ppb		98
75)	1,2,3-trimethylbenzene	20.41	105	608937	1.99	ppb		99
76)	1,2-dichlorobenzene	20.72	146	364028	1.99	ppb		97
77)	1,2,4-trichlorobenzene	22.84	180	222649	2.16	ppb		95
78)	Naphthalene	23.05	128	530715	2.10	ppb		100
79)	Hexachloro-1,3-butadiene	23.17	225	324248	2.00	ppb		98

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061304.D Vial: 7
Acq On : 13 Jun 2022 3:52 pm Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 7:30 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D



Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061305.D Vial: 8
Acq On : 13 Jun 2022 4:39 pm Operator: RJP
Sample : A1UG_1.5 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 07:28:21 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:27:56 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.69	128	48653	1.00	ppb		0.00
35) 1,4-difluorobenzene	11.99	114	221185	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	210769	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	153895	0.96	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96.00%				
Target Compounds							Qvalue
2) Propylene	4.08	41	45679	1.50	ppb		95
3) Freon 12	4.13	85	332474	1.49	ppb		100
4) Chloromethane	4.33	50	77958	1.45	ppb		98
5) Freon 114	4.33	85	263000	1.46	ppb		97
6) Vinyl Chloride	4.52	62	70936	1.47	ppb		99
7) Butane	4.62	43	89706	1.52	ppb		99
8) 1,3-butadiene	4.62	39	70153	1.41	ppb		99
9) Bromomethane	4.96	94	96855	1.48	ppb		99
10) Chloroethane	5.13	64	35036	1.50	ppb		100
11) Ethanol	5.22	45	24182m	1.40	ppb		
12) Acrolein	5.80	56	23965m	1.45	ppb		
13) Vinyl Bromide	5.46	106	106373	1.50	ppb		95
14) Freon 11	5.74	101	393848	1.44	ppb		99
15) Acetone	5.90	58	41517	1.47	ppb	#	82
16) Pentane	6.01	42	63280	1.43	ppb		88
17) Isopropyl alcohol	6.00	45	111265	1.38	ppb		100
18) 1,1-dichloroethene	6.49	96	83437	1.46	ppb		92
19) Freon 113	6.69	101	205076	1.48	ppb		93
20) t-Butyl alcohol	6.72	59	138838	1.45	ppb		97
21) Methylene chloride	6.94	84	83894	1.45	ppb		93
22) Allyl chloride	6.93	41	82912	1.48	ppb		85
23) Carbon disulfide	7.10	76	245114	1.46	ppb		99
24) trans-1,2-dichloroethene	7.88	61	124697	1.44	ppb		94
25) methyl tert-butyl ether	7.90	73	208797	1.49	ppb		87
26) 1,1-dichloroethane	8.31	63	151389	1.52	ppb		96
27) Vinyl acetate	8.29	43	117268	1.47	ppb		96
28) Methyl Ethyl Ketone	8.79	72	36968	1.47	ppb	#	100
29) cis-1,2-dichloroethene	9.24	61	118775	1.45	ppb		93
30) Hexane	8.85	57	113485	1.49	ppb		98
31) Ethyl acetate	9.39	43	165613	1.45	ppb		98
32) Chloroform	9.85	83	222517	1.45	ppb		98
33) Tetrahydrofuran	10.00	42	63695	1.51	ppb		89
34) 1,2-dichloroethane	10.96	62	172551	1.52	ppb		99
36) 1,1,1-trichloroethane	10.67	97	210800	1.53	ppb		98
37) Cyclohexane	11.39	56	104644	1.57	ppb	#	83
38) Carbon tetrachloride	11.32	117	226198	1.54	ppb		98
39) Benzene	11.29	78	241767	1.49	ppb		95
40) Methyl methacrylate	12.88	41	103910	1.50	ppb		98
41) 1,4-dioxane	12.89	88	60137	1.51	ppb		91
42) 2,2,4-trimethylpentane	12.17	57	328267	1.56	ppb		98
43) Heptane	12.51	43	117166	1.53	ppb		90
44) Trichloroethene	12.64	130	134825	1.58	ppb		98
45) 1,2-dichloropropane	12.75	63	80700	1.54	ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061305.D Vial: 8
Acq On : 13 Jun 2022 4:39 pm Operator: RJP
Sample : A1UG_1.5 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 07:28:21 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:27:56 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D
DataAcq Meth : 1UG_ENT

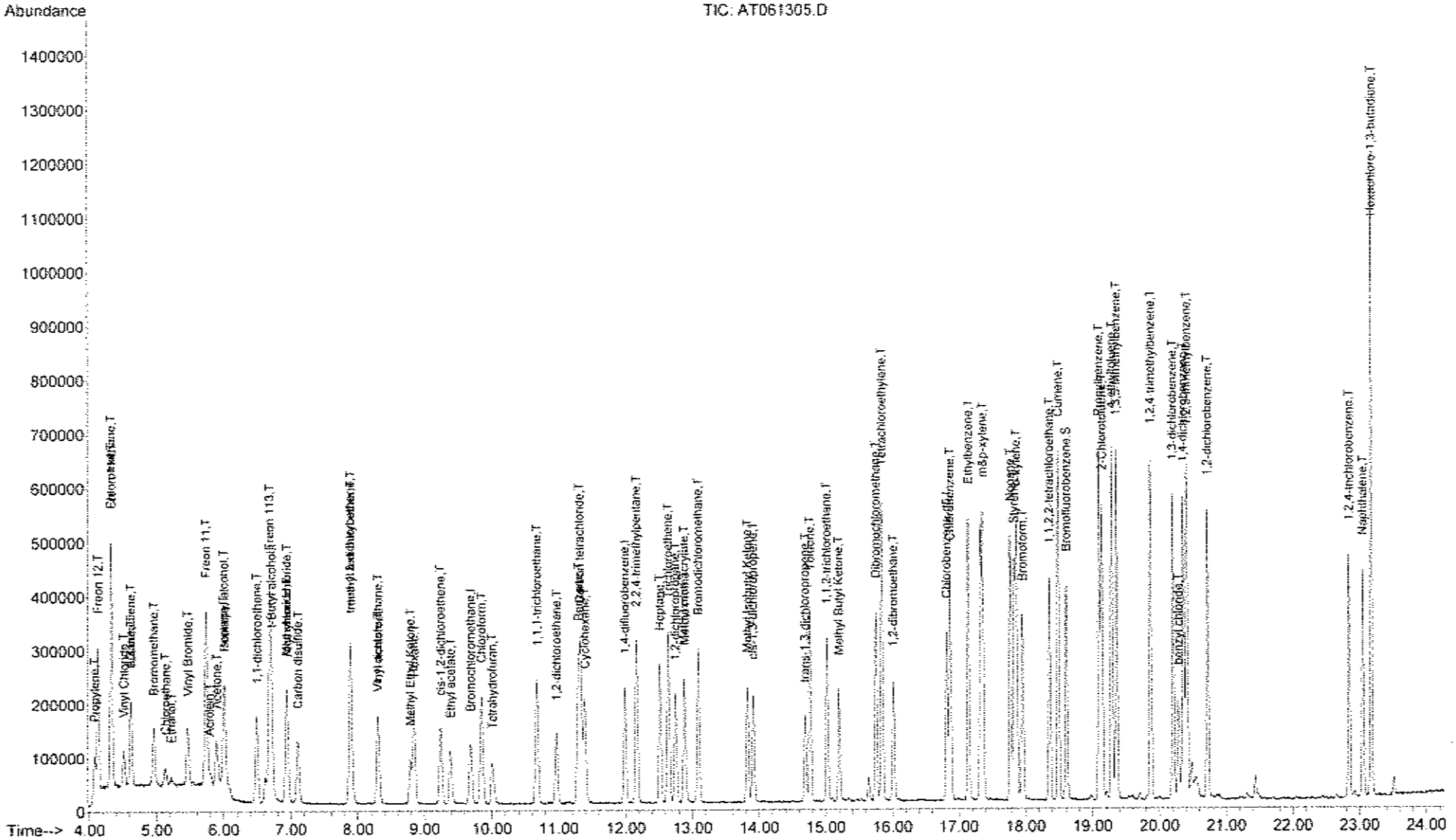
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	Bromodichloromethane	13.09	83	233520	1.51	ppb		100
47)	cis-1,3-dichloropropene	13.92	75	131930	1.57	ppb		98
48)	trans-1,3-dichloropropene	14.69	75	111887	1.57	ppb		99
49)	1,1,2-trichloroethane	15.02	97	112854	1.53	ppb		96
51)	Toluene	14.77	92	182248	1.36	ppb		97
52)	Methyl Isobutyl Ketone	13.83	43	171244	1.44	ppb		92
53)	Dibromochloromethane	15.75	129	235241	1.50	ppb		97
54)	Methyl Butyl Ketone	15.20	43	154140	1.38	ppb		98
55)	1,2-dibromoethane	16.02	107	175476	1.45	ppb		98
56)	Tetrachloroethylene	15.84	164	143104	1.43	ppb		99
57)	Chlorobenzene	16.87	112	273825	1.46	ppb		96
58)	Ethylbenzene	17.15	91	442802	1.45	ppb		98
59)	m&p-xylene	17.36	91	707726	2.84	ppb		98
60)	Nonane	17.77	43	174431	1.37	ppb		96
61)	Styrene	17.83	104	260167	1.39	ppb		95
62)	Bromoform	17.96	173	205580	1.39	ppb		98
63)	o-xylene	17.86	91	371746	1.42	ppb		99
64)	Cumene	18.49	105	501197	1.45	ppb		98
66)	1,1,2,2-tetrachloroethane	18.36	83	217190	1.39	ppb		99
67)	Propylbenzene	19.10	120	136905	1.37	ppb		92
68)	2-Chlorotoluene	19.15	126	127394	1.41	ppb	#	87
69)	4-ethyltoluene	19.29	105	496816	1.42	ppb		97
70)	1,3,5-trimethylbenzene	19.36	105	434196	1.41	ppb		98
71)	1,2,4-trimethylbenzene	19.87	105	430443	1.42	ppb		98
72)	1,3-dichlorobenzene	20.20	146	281028	1.41	ppb		99
73)	benzyl chloride	20.28	91	162338	1.43	ppb		100
74)	1,4-dichlorobenzene	20.36	146	280032	1.43	ppb		97
75)	1,2,3-trimethylbenzene	20.41	105	444366	1.44	ppb		99
76)	1,2-dichlorobenzene	20.72	146	261460	1.42	ppb		97
77)	1,2,4-trichlorobenzene	22.85	180	154502	1.49	ppb		97
78)	Naphthalene	23.05	128	373377	1.47	ppb		99
79)	Hexachloro-1,3-butadiene	23.18	225	235025	1.44	ppb		97

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061305.D Vial: 8
Acq On : 13 Jun 2022 4:39 pm Operator: RJP
Sample : A1UG_1.5 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 7:31 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D



Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061306.D Vial: 9
Acq On : 13 Jun 2022 5:23 pm Operator: RJP
Sample : A1UG_1.25 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 07:28:32 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:27:56 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.69	128	45728	1.00	ppb		0.00
35) 1,4-difluorobenzene	12.00	114	216523	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	194396	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	147414	1.00	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
2) Propylene	4.09	41	36315	1.27	ppb		96
3) Freon 12	4.14	85	266670	1.27	ppb		99
4) Chloromethane	4.34	50	61972	1.23	ppb		99
5) Freon 114	4.34	85	218190	1.29	ppb		95
6) Vinyl Chloride	4.53	62	58949	1.30	ppb		98
7) Butane	4.63	43	71670	1.30	ppb		98
8) 1,3-butadiene	4.63	39	55932	1.20	ppb		97
9) Bromomethane	4.96	94	83189	1.35	ppb		94
10) Chloroethane	5.14	64	28824	1.31	ppb		95
11) Ethanol	5.23	45	20808m	1.28	ppb		
12) Acrolein	5.81	56	21009m	1.36	ppb		
13) Vinyl Bromide	5.47	106	86209	1.29	ppb		99
14) Freon 11	5.74	101	322031	1.25	ppb		100
15) Acetone	5.91	58	33885	1.27	ppb		86
16) Pentane	6.02	42	56313	1.36	ppb		94
17) Isopropyl alcohol	6.02	45	95914	1.26	ppb		99
18) 1,1-dichloroethene	6.51	96	66955	1.25	ppb		90
19) Freon 113	6.69	101	163694	1.25	ppb		95
20) t-Butyl alcohol	6.72	59	113055	1.26	ppb		96
21) Methylene chloride	6.95	84	66836	1.23	ppb		92
22) Allyl chloride	6.94	41	63557	1.21	ppb		88
23) Carbon disulfide	7.12	76	201516	1.28	ppb		100
24) trans-1,2-dichloroethene	7.89	61	101596	1.25	ppb		93
25) methyl tert-butyl ether	7.90	73	164859	1.25	ppb		84
26) 1,1-dichloroethane	8.31	63	120709	1.29	ppb		97
27) Vinyl acetate	8.30	43	93751	1.25	ppb		94
28) Methyl Ethyl Ketone	8.79	72	29205	1.23	ppb	#	100
29) cis-1,2-dichloroethene	9.25	61	97789	1.27	ppb		92
30) Hexane	8.85	57	91241m	1.27	ppb		
31) Ethyl acetate	9.40	43	136529	1.27	ppb		97
32) Chloroform	9.85	83	180457	1.25	ppb		98
33) Tetrahydrofuran	10.01	42	50495	1.28	ppb		91
34) 1,2-dichloroethane	10.96	62	138921	1.30	ppb		99
36) 1,1,1-trichloroethane	10.68	97	168581	1.25	ppb		99
37) Cyclohexane	11.39	56	84101	1.29	ppb	#	85
38) Carbon tetrachloride	11.33	117	182105	1.26	ppb		100
39) Benzene	11.30	78	196497	1.23	ppb		98
40) Methyl methacrylate	12.88	41	85036	1.25	ppb		94
41) 1,4-dioxane	12.89	88	49442	1.27	ppb		91
42) 2,2,4-trimethylpentane	12.16	57	263444	1.28	ppb		98
43) Heptane	12.52	43	94759	1.26	ppb		89
44) Trichloroethene	12.65	130	105752	1.26	ppb		96
45) 1,2-dichloropropane	12.75	63	63414	1.23	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061306.D Vial: 9
Acq On : 13 Jun 2022 5:23 pm Operator: RJP
Sample : A1UG_1.25 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 07:28:32 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:27:56 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D
DataAcq Meth : 1UG_ENT

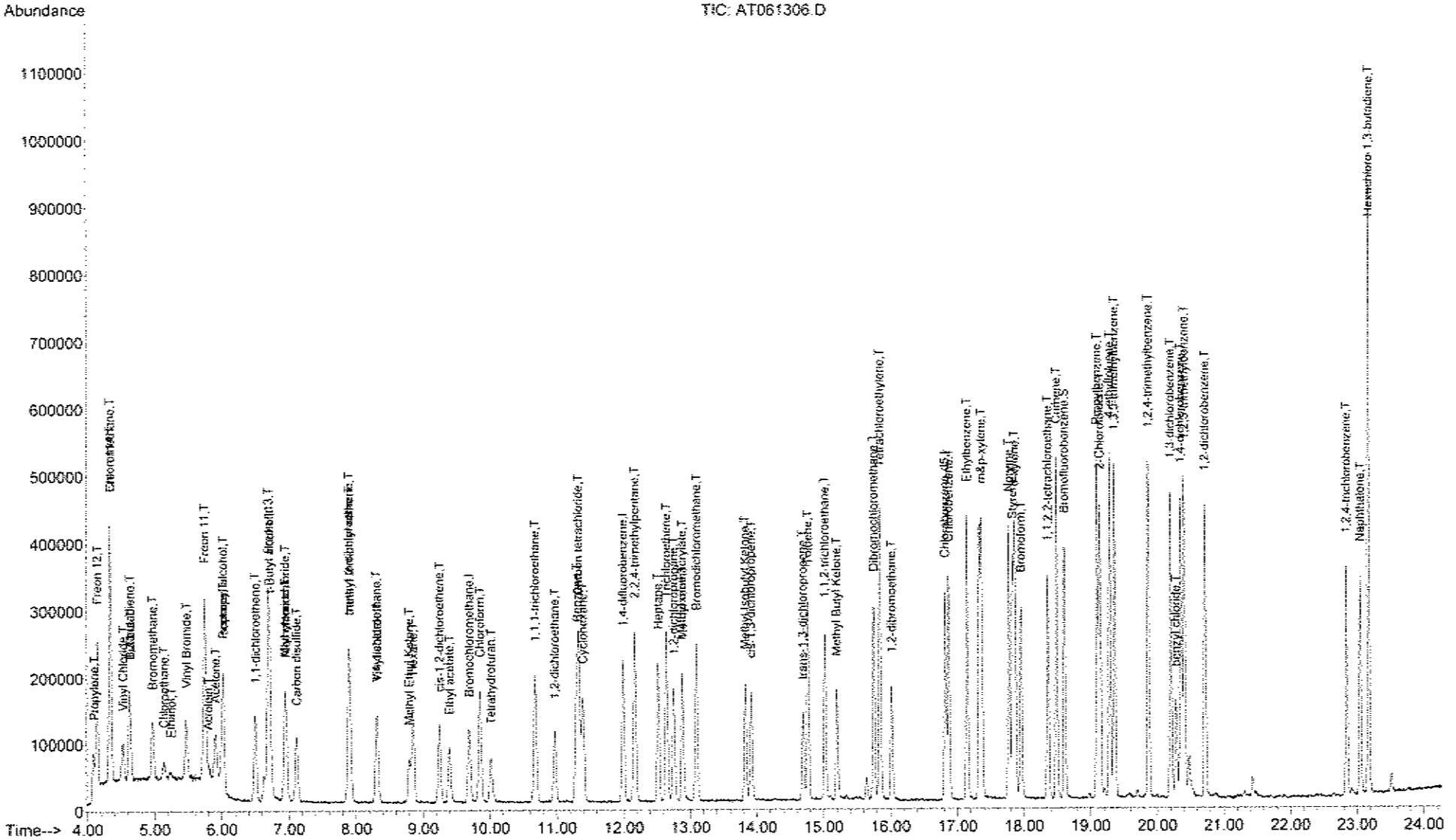
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	Bromodichloromethane	13.09	83	193764	1.28	ppb		100
47)	cis-1,3-dichloropropene	13.92	75	105570	1.28	ppb		98
48)	trans-1,3-dichloropropene	14.70	75	90294	1.29	ppb		97
49)	1,1,2-trichloroethane	15.02	97	90066	1.25	ppb		97
51)	Toluene	14.77	92	151848	1.23	ppb		98
52)	Methyl Isobutyl Ketone	13.83	43	135574	1.23	ppb		95
53)	Dibromochloromethane	15.75	129	188935	1.31	ppb		99
54)	Methyl Butyl Ketone	15.20	43	127436	1.24	ppb		95
55)	1,2-dibromoethane	16.02	107	135060	1.21	ppb		98
56)	Tetrachloroethylene	15.84	164	114655	1.24	ppb		97
57)	Chlorobenzene	16.87	112	213200	1.23	ppb		97
58)	Ethylbenzene	17.14	91	347334	1.23	ppb		98
59)	m&p-xylene	17.36	91	566446	2.47	ppb		97
60)	Nonane	17.77	43	144098	1.23	ppb		94
61)	Styrene	17.83	104	207439	1.20	ppb		95
62)	Bromoform	17.96	173	167836	1.23	ppb		99
63)	o-xylene	17.87	91	297313	1.23	ppb		99
64)	Cumene	18.49	105	400112	1.25	ppb		98
66)	1,1,2,2-tetrachloroethane	18.36	83	175847	1.22	ppb		99
67)	Propylbenzene	19.09	120	110105	1.20	ppb		94
68)	2-Chlorotoluene	19.14	126	101440	1.22	ppb	#	87
69)	4-ethyltoluene	19.29	105	394208	1.22	ppb		98
70)	1,3,5-trimethylbenzene	19.36	105	353641	1.25	ppb		98
71)	1,2,4-trimethylbenzene	19.86	105	347571	1.24	ppb		98
72)	1,3-dichlorobenzene	20.20	146	223482	1.21	ppb		98
73)	benzyl chloride	20.28	91	130159	1.25	ppb		100
74)	1,4-dichlorobenzene	20.36	146	222929	1.23	ppb		98
75)	1,2,3-trimethylbenzene	20.41	105	355349	1.25	ppb		98
76)	1,2-dichlorobenzene	20.72	146	217261	1.28	ppb		96
77)	1,2,4-trichlorobenzene	22.84	180	117849	1.23	ppb		96
78)	Naphthalene	23.05	128	285499	1.22	ppb		99
79)	Hexachloro-1,3-butadiene	23.17	225	186745	1.24	ppb		97

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061306.D Vial: 9
Acq On : 13 Jun 2022 5:23 pm Operator: RJP
Sample : A1UG_1.25 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 7:32 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D



Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061307.D Vial: 10
Acq On : 13 Jun 2022 6:07 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 07:28:02 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:27:56 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.69	128	46305	1.00	ppb		0.00
35) 1,4-difluorobenzene	12.00	114	216770	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	188124	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	143014	1.00	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
2) Propylene	4.08	41	29021	1.00	ppb		94
3) Freon 12	4.13	85	212493	1.00	ppb		100
4) Chloromethane	4.33	50	51014	1.00	ppb		99
5) Freon 114	4.33	85	171707	1.00	ppb		97
6) Vinyl Chloride	4.52	62	46050	1.00	ppb		98
7) Butane	4.62	43	56033	1.00	ppb		96
8) 1,3-butadiene	4.62	39	47311	1.00	ppb		98
9) Bromomethane	4.96	94	62447	1.00	ppb		100
10) Chloroethane	5.14	64	22253	1.00	ppb		94
11) Ethanol	5.22	45	17598m	1.07	ppb		
12) Acrolein	5.80	56	15686	1.00	ppb		100
13) Vinyl Bromide	5.47	106	67519	1.00	ppb		94
14) Freon 11	5.74	101	260361	1.00	ppb		98
15) Acetone	5.90	58	26957	1.00	ppb	#	82
16) Pentane	6.01	42	41996	1.00	ppb		87
17) Isopropyl alcohol	6.01	45	73783	0.96	ppb		97
18) 1,1-dichloroethene	6.50	96	54439	1.00	ppb		92
19) Freon 113	6.69	101	132258	1.00	ppb		94
20) t-Butyl alcohol	6.73	59	90575	1.00	ppb		95
21) Methylene chloride	6.95	84	55145	1.00	ppb		94
22) Allyl chloride	6.93	41	53244	1.00	ppb		85
23) Carbon disulfide	7.11	76	159670	1.00	ppb		99
24) trans-1,2-dichloroethene	7.89	61	82489	1.00	ppb		91
25) methyl tert-butyl ether	7.90	73	133917	1.00	ppb		87
26) 1,1-dichloroethane	8.31	63	95042	1.00	ppb		97
27) Vinyl acetate	8.30	43	76123	1.00	ppb		94
28) Methyl Ethyl Ketone	8.79	72	24005	1.00	ppb	#	100
29) cis-1,2-dichloroethene	9.25	61	77703	1.00	ppb		92
30) Hexane	8.85	57	72528	1.00	ppb		97
31) Ethyl acetate	9.39	43	108825	1.00	ppb		99
32) Chloroform	9.86	83	145760	1.00	ppb		97
33) Tetrahydrofuran	10.02	42	40099	1.00	ppb		90
34) 1,2-dichloroethane	10.97	62	107801	1.00	ppb		99
36) 1,1,1-trichloroethane	10.68	97	135431	1.00	ppb		97
37) Cyclohexane	11.38	56	65401	1.00	ppb	#	85
38) Carbon tetrachloride	11.33	117	144157	1.00	ppb		99
39) Benzene	11.29	78	159440	1.00	ppb		99
40) Methyl methacrylate	12.88	41	67954	1.00	ppb		94
41) 1,4-dioxane	12.89	88	39129	1.00	ppb		92
42) 2,2,4-trimethylpentane	12.17	57	206058	1.00	ppb		97
43) Heptane	12.52	43	75225	1.00	ppb		91
44) Trichloroethene	12.65	130	83830	1.00	ppb		94
45) 1,2-dichloropropane	12.75	63	51463	1.00	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061307.D Vial: 10
Acq On : 13 Jun 2022 6:07 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 07:28:02 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:27:56 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D
DataAcq Meth : 1UG_ENT

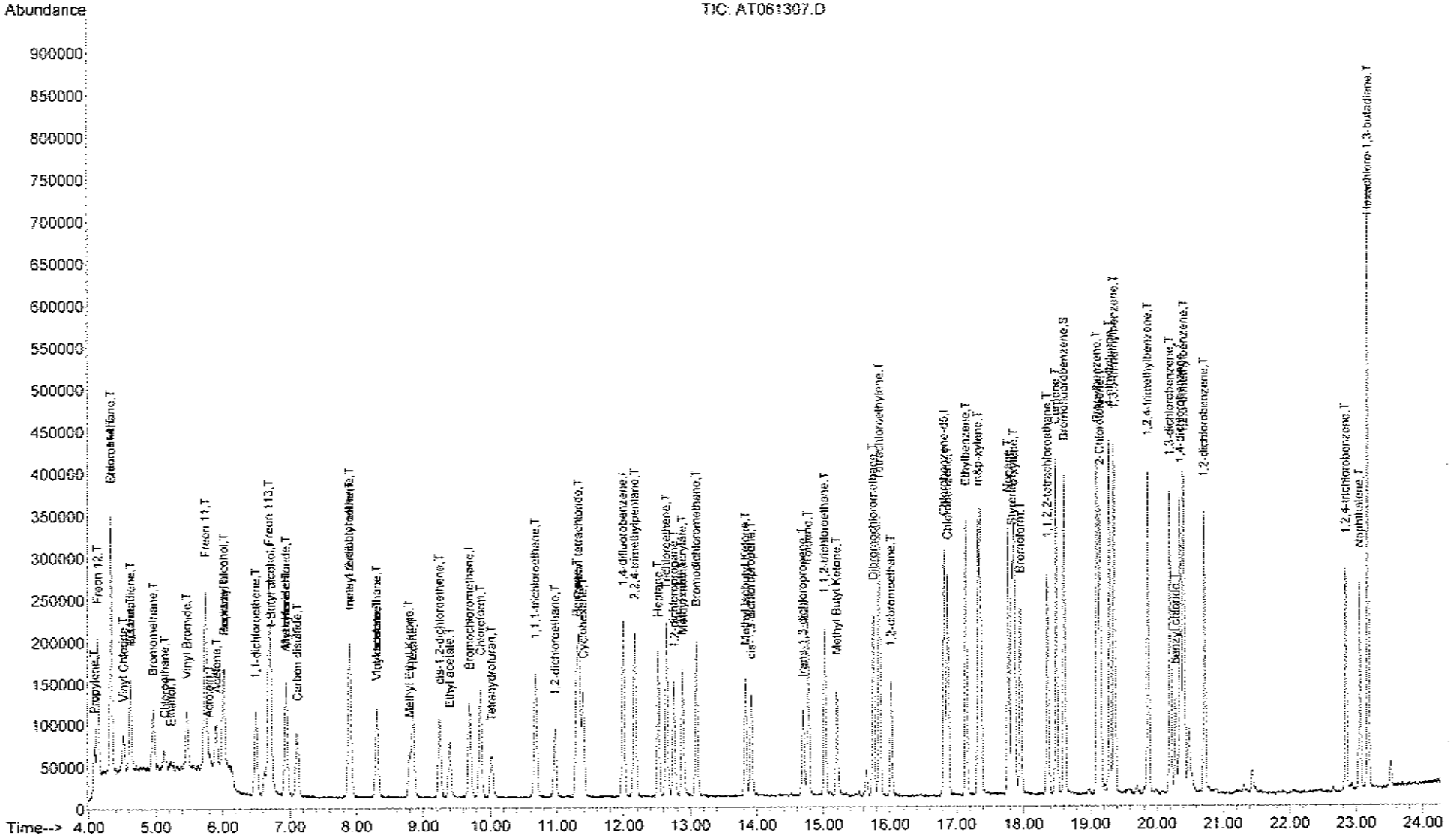
	Compound	R.T.	Qlon	Response	Conc	Unit		Qvalue
46)	Bromodichloromethane	13.09	83	151095	1.00	ppb		99
47)	cis-1,3-dichloropropene	13.92	75	82527	1.00	ppb		97
48)	trans-1,3-dichloropropene	14.70	75	69971	1.00	ppb		98
49)	1,1,2-trichloroethane	15.02	97	72072	1.00	ppb		98
51)	Toluene	14.77	92	119409	1.00	ppb		99
52)	Methyl Isobutyl Ketone	13.83	43	106276	1.00	ppb		95
53)	Dibromochloromethane	15.75	129	139342	1.00	ppb		98
54)	Methyl Butyl Ketone	15.20	43	99298	1.00	ppb		94
55)	1,2-dibromoethane	16.02	107	107478	1.00	ppb		100
56)	Tetrachloroethylene	15.84	164	89460	1.00	ppb		95
57)	Chlorobenzene	16.87	112	167558	1.00	ppb		97
58)	Ethylbenzene	17.15	91	272129	1.00	ppb		99
59)	m&p-xylene	17.33	91	443375	2.00	ppb		98
60)	Nonane	17.78	43	113248	1.00	ppb		93
61)	Styrene	17.83	104	166819	1.00	ppb		100
62)	Bromoform	17.96	173	131652	1.00	ppb		99
63)	o-xylene	17.87	91	233063	1.00	ppb		98
64)	Cumene	18.49	105	308580	1.00	ppb		99
66)	1,1,2,2-tetrachloroethane	18.36	83	139665	1.00	ppb		99
67)	Propylbenzene	19.10	120	88923	1.00	ppb		100
68)	2-Chlorotoluene	19.15	126	80257	1.00	ppb	#	90
69)	4-ethyltoluene	19.29	105	312171	1.00	ppb		97
70)	1,3,5-trimethylbenzene	19.36	105	273893	1.00	ppb		100
71)	1,2,4-trimethylbenzene	19.87	105	269763	1.00	ppb		99
72)	1,3-dichlorobenzene	20.20	146	177744	1.00	ppb		98
73)	benzyl chloride	20.28	91	100838	1.00	ppb		99
74)	1,4-dichlorobenzene	20.36	146	175014	1.00	ppb		98
75)	1,2,3-trimethylbenzene	20.41	105	275059	1.00	ppb		99
76)	1,2-dichlorobenzene	20.72	146	164114	1.00	ppb		97
77)	1,2,4-trichlorobenzene	22.84	180	92622	1.00	ppb		96
78)	Naphthalene	23.05	128	226730	1.00	ppb		99
79)	Hexachloro-1,3-butadiene	23.18	225	145597	1.00	ppb		95

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061307.D Vial: 10
Acq On : 13 Jun 2022 6:07 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 7:32 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D



Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061308.D Vial: 11
Acq On : 13 Jun 2022 6:50 pm Operator: RJP
Sample : A1UG_0.75 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 07:28:47 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:27:56 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.70	128	44568	1.00	ppb		0.00
35) 1,4-difluorobenzene	12.00	114	208594	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	186558	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.62	95	138281	0.97	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97.00%				
Target Compounds							Qvalue
2) Propylene	4.09	41	21702	0.78	ppb		93
3) Freon 12	4.14	85	153887	0.75	ppb		100
4) Chloromethane	4.33	50	37026	0.75	ppb		95
5) Freon 114	4.34	85	125248	0.76	ppb		95
6) Vinyl Chloride	4.53	62	34568	0.78	ppb		99
7) Butane	4.63	43	42904	0.80	ppb		99
8) 1,3-butadiene	4.63	39	31950	0.70	ppb		93
9) Bromomethane	4.97	94	46910	0.78	ppb		97
10) Chloroethane	5.14	64	16676	0.78	ppb		98
11) Ethanol	5.22	45	11560	0.73	ppb		95
12) Acrolein	5.81	56	11303	0.75	ppb		98
13) Vinyl Bromide	5.47	106	51117	0.79	ppb		96
14) Freon 11	5.75	101	188894	0.75	ppb		99
15) Acetone	5.91	58	18889m	0.73	ppb		
16) Pentane	6.01	42	32778	0.81	ppb		97
17) Isopropyl alcohol	6.01	45	60298	0.81	ppb		87
18) 1,1-dichloroethene	6.50	96	39800	0.76	ppb		93
19) Freon 113	6.70	101	97936	0.77	ppb		93
20) t-Butyl alcohol	6.73	59	67332	0.77	ppb		96
21) Methylene chloride	6.96	84	40422	0.76	ppb		93
22) Allyl chloride	6.95	41	39460	0.77	ppb		86
23) Carbon disulfide	7.11	76	120157	0.78	ppb		98
24) trans-1,2-dichloroethene	7.89	61	57836	0.73	ppb		94
25) methyl tert-butyl ether	7.91	73	94895	0.74	ppb		85
26) 1,1-dichloroethane	8.32	63	69911	0.76	ppb		98
27) Vinyl acetate	8.30	43	54063	0.74	ppb		93
28) Methyl Ethyl Ketone	8.80	72	16627	0.72	ppb	#	100
29) cis-1,2-dichloroethene	9.25	61	56057	0.75	ppb		90
30) Hexane	8.85	57	51140m	0.73	ppb		
31) Ethyl acetate	9.40	43	78161	0.75	ppb		98
32) Chloroform	9.86	83	104438	0.74	ppb		99
33) Tetrahydrofuran	10.03	42	29926	0.78	ppb		90
34) 1,2-dichloroethane	10.97	62	80565	0.78	ppb		100
36) 1,1,1-trichloroethane	10.68	97	99883	0.77	ppb		99
37) Cyclohexane	11.39	56	47512	0.75	ppb	#	85
38) Carbon tetrachloride	11.34	117	104380	0.75	ppb		98
39) Benzene	11.30	78	112199	0.73	ppb		95
40) Methyl methacrylate	12.88	41	47249	0.72	ppb		97
41) 1,4-dioxane	12.90	88	25496	0.68	ppb		84
42) 2,2,4-trimethylpentane	12.17	57	150646	0.76	ppb		98
43) Heptane	12.52	43	53962	0.75	ppb		89
44) Trichloroethene	12.65	130	61781	0.77	ppb		97
45) 1,2-dichloropropane	12.76	63	36413	0.74	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061308.D Vial: 11
Acq On : 13 Jun 2022 6:50 pm Operator: RJP
Sample : A1UG_0.75 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 07:28:47 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:27:56 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D
DataAcq Meth : 1UG_ENT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	Bromodichloromethane	13.09	83	111320	0.77	ppb		98
47)	cis-1,3-dichloropropene	13.91	75	59044	0.74	ppb		97
48)	trans-1,3-dichloropropene	14.70	75	47630	0.71	ppb		96
49)	1,1,2-trichloroethane	15.03	97	51271	0.74	ppb		99
51)	Toluene	14.77	92	84594	0.71	ppb		100
52)	Methyl Isobutyl Ketone	13.83	43	75799	0.72	ppb		93
53)	Dibromochloromethane	15.75	129	106943	0.77	ppb		96
54)	Methyl Butyl Ketone	15.20	43	69428	0.70	ppb		99
55)	1,2-dibromoethane	16.02	107	75784	0.71	ppb		99
56)	Tetrachloroethylene	15.84	164	62801	0.71	ppb		100
57)	Chlorobenzene	16.87	112	124555	0.75	ppb		96
58)	Ethylbenzene	17.15	91	193858	0.72	ppb		99
59)	m&p-xylene	17.36	91	319672	1.45	ppb		97
60)	Nonane	17.78	43	79632	0.71	ppb		94
61)	Styrene	17.83	104	115888	0.70	ppb		95
62)	Bromoform	17.96	173	94889	0.73	ppb		100
63)	o-xylene	17.87	91	170937	0.74	ppb		96
64)	Cumene	18.49	105	224315	0.73	ppb		98
66)	1,1,2,2-tetrachloroethane	18.36	83	101664	0.73	ppb		99
67)	Propylbenzene	19.10	120	60521	0.69	ppb		88
68)	2-Chlorotoluene	19.15	126	58331	0.73	ppb	#	91
69)	4-ethyltoluene	19.29	105	218830	0.71	ppb		100
70)	1,3,5-trimethylbenzene	19.36	105	196257	0.72	ppb		100
71)	1,2,4-trimethylbenzene	19.87	105	192889	0.72	ppb		98
72)	1,3-dichlorobenzene	20.21	146	125429	0.71	ppb		99
73)	benzyl chloride	20.28	91	70109	0.70	ppb		99
74)	1,4-dichlorobenzene	20.36	146	123479	0.71	ppb		99
75)	1,2,3-trimethylbenzene	20.41	105	202478	0.74	ppb		97
76)	1,2-dichlorobenzene	20.72	146	117965	0.72	ppb		98
77)	1,2,4-trichlorobenzene	22.85	180	63295	0.69	ppb		95
78)	Naphthalene	23.05	128	155338	0.69	ppb		99
79)	Hexachloro-1,3-butadiene	23.17	225	109342	0.76	ppb		98

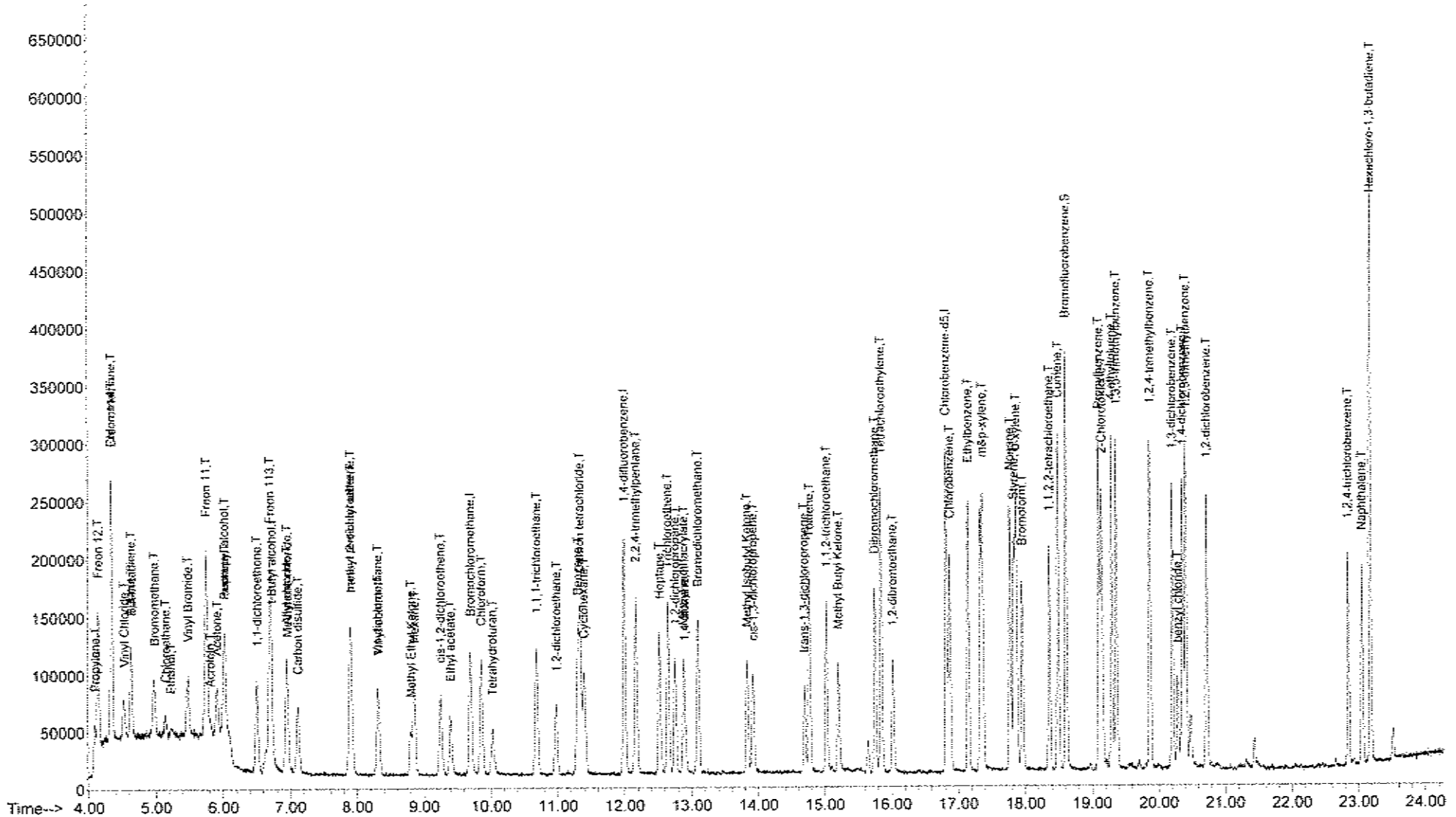
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061308.D Vial: 11
Acq On : 13 Jun 2022 6:50 pm Operator: RJP
Sample : A1UG_0.75 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 7:33 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D

Abundance TIC: AT061308.D



AT061308.D A613_1UG.M Thu Jul 07 07:55:28 2022 MSD1 Page 3

Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061309.D Vial: 12
Acq On : 13 Jun 2022 7:32 pm Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 07:29:00 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:27:56 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.69	128	44413	1.00	ppb		0.00
35) 1,4-difluorobenzene	12.00	114	202546	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	179460	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	133260	0.97	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97.00%				
Target Compounds							Qvalue
2) Propylene	4.10	41	14276	0.51	ppb		97
3) Freon 12	4.14	85	103114	0.51	ppb		99
4) Chloromethane	4.34	50	25607	0.52	ppb		100
5) Freon 114	4.34	85	83403	0.51	ppb		95
6) Vinyl Chloride	4.52	62	23865	0.54	ppb		98
7) Butane	4.63	43	30600	0.57	ppb		99
8) 1,3-butadiene	4.63	39	22975	0.51	ppb		96
9) Bromomethane	4.97	94	30658	0.51	ppb		98
10) Chloroethane	5.14	64	11751	0.55	ppb		89
11) Ethanol	5.22	45	7843	0.50	ppb	#	71
12) Acrolein	5.80	56	7372	0.49	ppb		97
13) Vinyl Bromide	5.47	106	32255	0.50	ppb		95
14) Freon 11	5.75	101	126773	0.51	ppb		98
15) Acetone	5.91	58	12959	0.50	ppb	#	57
16) Pentane	6.02	42	20450	0.51	ppb		85
17) Isopropyl alcohol	6.02	45	40870	0.55	ppb		91
18) 1,1-dichloroethene	6.50	96	24530	0.47	ppb	#	85
19) Freon 113	6.70	101	61708	0.49	ppb		95
20) t-Butyl alcohol	6.73	59	42052	0.48	ppb		98
21) Methylene chloride	6.96	84	27999	0.53	ppb		95
22) Allyl chloride	6.94	41	24504	0.48	ppb		88
23) Carbon disulfide	7.11	76	84145	0.55	ppb		100
24) trans-1,2-dichloroethene	7.89	61	38396	0.49	ppb		95
25) methyl tert-butyl ether	7.91	73	62892	0.49	ppb		84
26) 1,1-dichloroethane	8.31	63	46419	0.51	ppb		99
27) Vinyl acetate	8.30	43	35784	0.49	ppb		98
28) Methyl Ethyl Ketone	8.80	72	11199	0.49	ppb	#	100
29) cis-1,2-dichloroethene	9.25	61	37393	0.50	ppb		91
30) Hexane	8.85	57	32257	0.46	ppb		91
31) Ethyl acetate	9.40	43	52183	0.50	ppb		97
32) Chloroform	9.85	83	67838	0.49	ppb		100
33) Tetrahydrofuran	10.03	42	17987	0.47	ppb		96
34) 1,2-dichloroethane	10.98	62	51490	0.50	ppb		98
36) 1,1,1-trichloroethane	10.68	97	63661	0.50	ppb		98
37) Cyclohexane	11.40	56	31021	0.51	ppb	#	84
38) Carbon tetrachloride	11.33	117	69109	0.51	ppb		100
39) Benzene	11.30	78	74232	0.50	ppb		96
40) Methyl methacrylate	12.89	41	27818	0.44	ppb		96
41) 1,4-dioxane	12.90	88	16861	0.46	ppb		85
42) 2,2,4-trimethylpentane	12.17	57	92270	0.48	ppb		97
43) Heptane	12.52	43	33603	0.48	ppb		89
44) Trichloroethene	12.65	130	39614	0.51	ppb		96
45) 1,2-dichloropropane	12.76	63	23458	0.49	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061309.D Vial: 12
Acq On : 13 Jun 2022 7:32 pm Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 07:29:00 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:27:56 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D
DataAcq Meth : 1UG_ENT

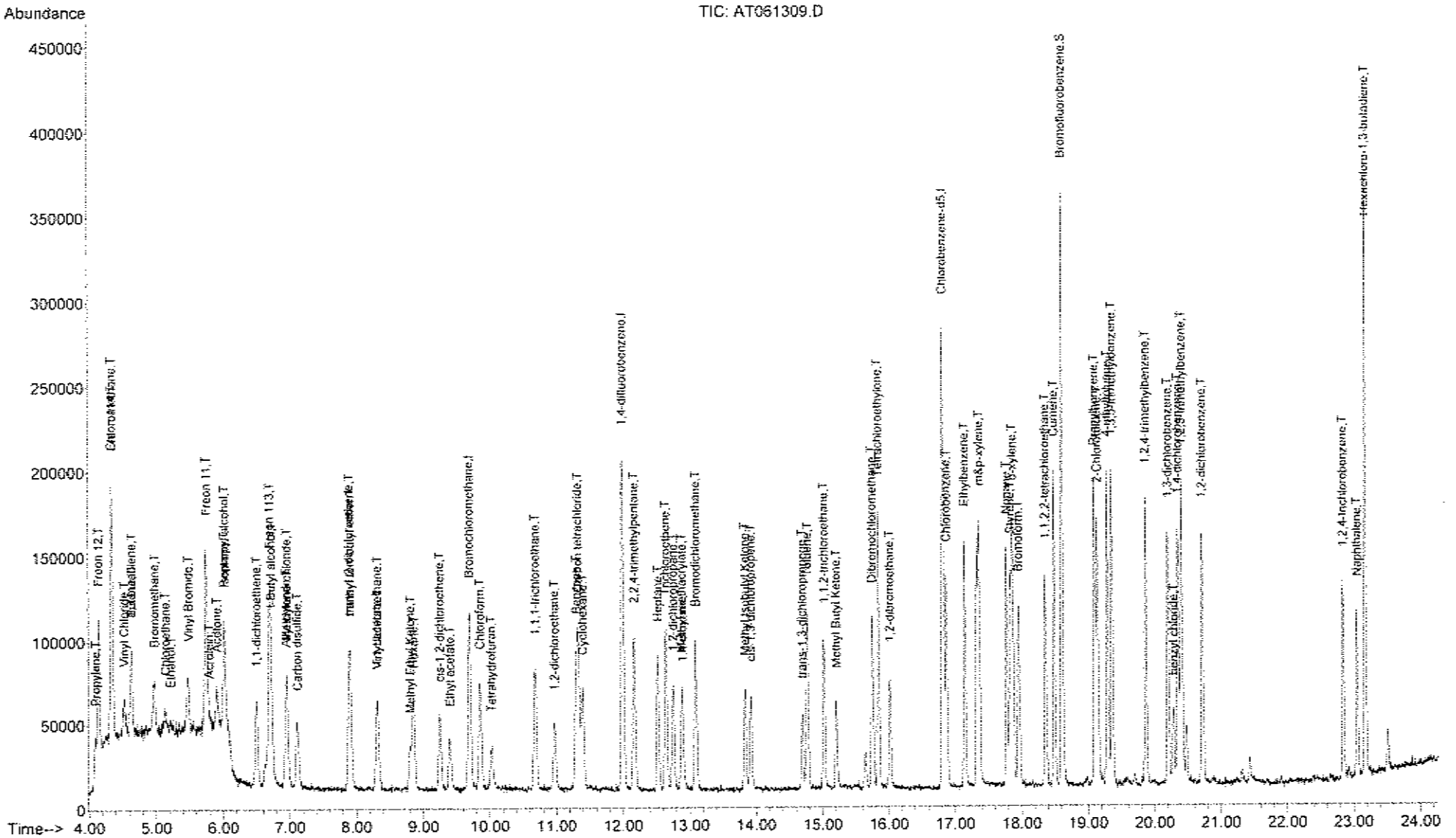
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
46)	Bromodichloromethane	13.09	83	69690	0.49 ppb	100
47)	cis-1,3-dichloropropene	13.92	75	34917	0.45 ppb	94
48)	trans-1,3-dichloropropene	14.69	75	28752	0.44 ppb	92
49)	1,1,2-trichloroethane	15.02	97	32085	0.48 ppb	98
51)	Toluene	14.77	92	53245	0.47 ppb	100
52)	Methyl Isobutyl Ketone	13.84	43	46463	0.46 ppb	95
53)	Dibromochloromethane	15.76	129	65931	0.50 ppb	98
54)	Methyl Butyl Ketone	15.21	43	39733	0.42 ppb	93
55)	1,2-dibromoethane	16.02	107	50384	0.49 ppb	97
56)	Tetrachloroethylene	15.85	164	41549	0.49 ppb	97
57)	Chlorobenzene	16.88	112	76293	0.48 ppb	94
58)	Ethylbenzene	17.15	91	122940	0.47 ppb	98
59)	m&p-xylene	17.36	91	199340	0.94 ppb	99
60)	Nonane	17.77	43	49507	0.46 ppb	93
61)	Styrene	17.83	104	73488	0.46 ppb	94
62)	Bromoform	17.96	173	60465	0.48 ppb	99
63)	o-xylene	17.87	91	108701	0.49 ppb	99
64)	Cumene	18.49	105	140790	0.48 ppb	98
66)	1,1,2,2-tetrachloroethane	18.36	83	63108	0.47 ppb	98
67)	Propylbenzene	19.10	120	39057	0.46 ppb	94
68)	2-Chlorotoluene	19.14	126	38790	0.51 ppb	97
69)	4-ethyltoluene	19.29	105	137439	0.46 ppb	98
70)	1,3,5-trimethylbenzene	19.36	105	124035	0.47 ppb	98
71)	1,2,4-trimethylbenzene	19.87	105	116749	0.45 ppb	98
72)	1,3-dichlorobenzene	20.20	146	76333	0.45 ppb	98
73)	benzyl chloride	20.28	91	41944	0.44 ppb	97
74)	1,4-dichlorobenzene	20.36	146	76998	0.46 ppb	99
75)	1,2,3-trimethylbenzene	20.41	105	122515	0.47 ppb	100
76)	1,2-dichlorobenzene	20.72	146	74244	0.47 ppb	96
77)	1,2,4-trichlorobenzene	22.84	180	36033	0.41 ppb	100
78)	Naphthalene	23.05	128	91621	0.42 ppb	99
79)	Hexachloro-1,3-butadiene	23.17	225	68091	0.49 ppb	96

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061309.D Vial: 12
Acq On : 13 Jun 2022 7:32 pm Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 7:29 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D



Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061310.D Vial: 13
Acq On : 13 Jun 2022 8:13 pm Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 07:29:17 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:27:56 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.70	128	41406	1.00	ppb		0.01
35) 1,4-difluorobenzene	12.00	114	188898	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	172515	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	123207	0.94	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94.00%				
Target Compounds							Qvalue
2) Propylene	4.10	41	8404	0.32	ppb		99
3) Freon 12	4.14	85	58026	0.31	ppb		99
4) Chloromethane	4.34	50	15247	0.33	ppb		83
5) Freon 114	4.34	85	47988	0.31	ppb		96
6) Vinyl Chloride	4.53	62	14043	0.34	ppb		100
7) Butane	4.63	43	19568	0.39	ppb	#	71
8) 1,3-butadiene	4.63	39	14937	0.35	ppb		94
9) Bromomethane	4.98	94	20839	0.37	ppb		85
10) Chloroethane	5.15	64	7402	0.37	ppb		93
11) Ethanol	5.25	45	5110	0.35	ppb	#	62
12) Acrolein	5.81	56	5186	0.37	ppb		99
13) Vinyl Bromide	5.47	106	20349	0.34	ppb		98
14) Freon 11	5.75	101	74622	0.32	ppb		98
15) Acetone	5.92	58	7013	0.29	ppb	#	41
16) Pentane	6.02	42	11419	0.30	ppb		83
17) Isopropyl alcohol	6.02	45	17221	0.25	ppb	#	73
18) 1,1-dichloroethene	6.50	96	14090	0.29	ppb		91
19) Freon 113	6.70	101	34682	0.29	ppb		94
20) t-Butyl alcohol	6.74	59	21622	0.27	ppb		92
21) Methylene chloride	6.96	84	16704	0.34	ppb		92
22) Allyl chloride	6.94	41	14577	0.31	ppb		85
23) Carbon disulfide	7.12	76	50326	0.35	ppb		97
24) trans-1,2-dichloroethene	7.90	61	21141	0.29	ppb		94
25) methyl tert-butyl ether	7.91	73	34001	0.29	ppb		81
26) 1,1-dichloroethane	8.31	63	24443	0.29	ppb		98
27) Vinyl acetate	8.30	43	19900	0.29	ppb		77
28) Methyl Ethyl Ketone	8.80	72	5231	0.24	ppb	#	100
29) cis-1,2-dichloroethene	9.25	61	20470	0.29	ppb		93
30) Hexane	8.86	57	17390	0.27	ppb		90
31) Ethyl acetate	9.40	43	28333	0.29	ppb		96
32) Chloroform	9.85	83	40077	0.31	ppb		96
33) Tetrahydrofuran	10.03	42	10566	0.29	ppb	#	83
34) 1,2-dichloroethane	10.97	62	28435	0.29	ppb		93
36) 1,1,1-trichloroethane	10.68	97	35204	0.30	ppb		100
37) Cyclohexane	11.40	56	16094	0.28	ppb		85
38) Carbon tetrachloride	11.33	117	39671	0.32	ppb		98
39) Benzene	11.30	78	41934	0.30	ppb		98
40) Methyl methacrylate	12.89	41	14814	0.25	ppb		99
41) 1,4-dioxane	12.91	88	9716	0.28	ppb		88
42) 2,2,4-trimethylpentane	12.17	57	51827	0.29	ppb		95
43) Heptane	12.52	43	18409	0.28	ppb		90
44) Trichloroethene	12.65	130	21351	0.29	ppb		92
45) 1,2-dichloropropane	12.76	63	13736	0.31	ppb		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061310.D Vial: 13
Acq On : 13 Jun 2022 8:13 pm Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 07:29:17 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:27:56 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D
DataAcq Meth : 1UG_ENT

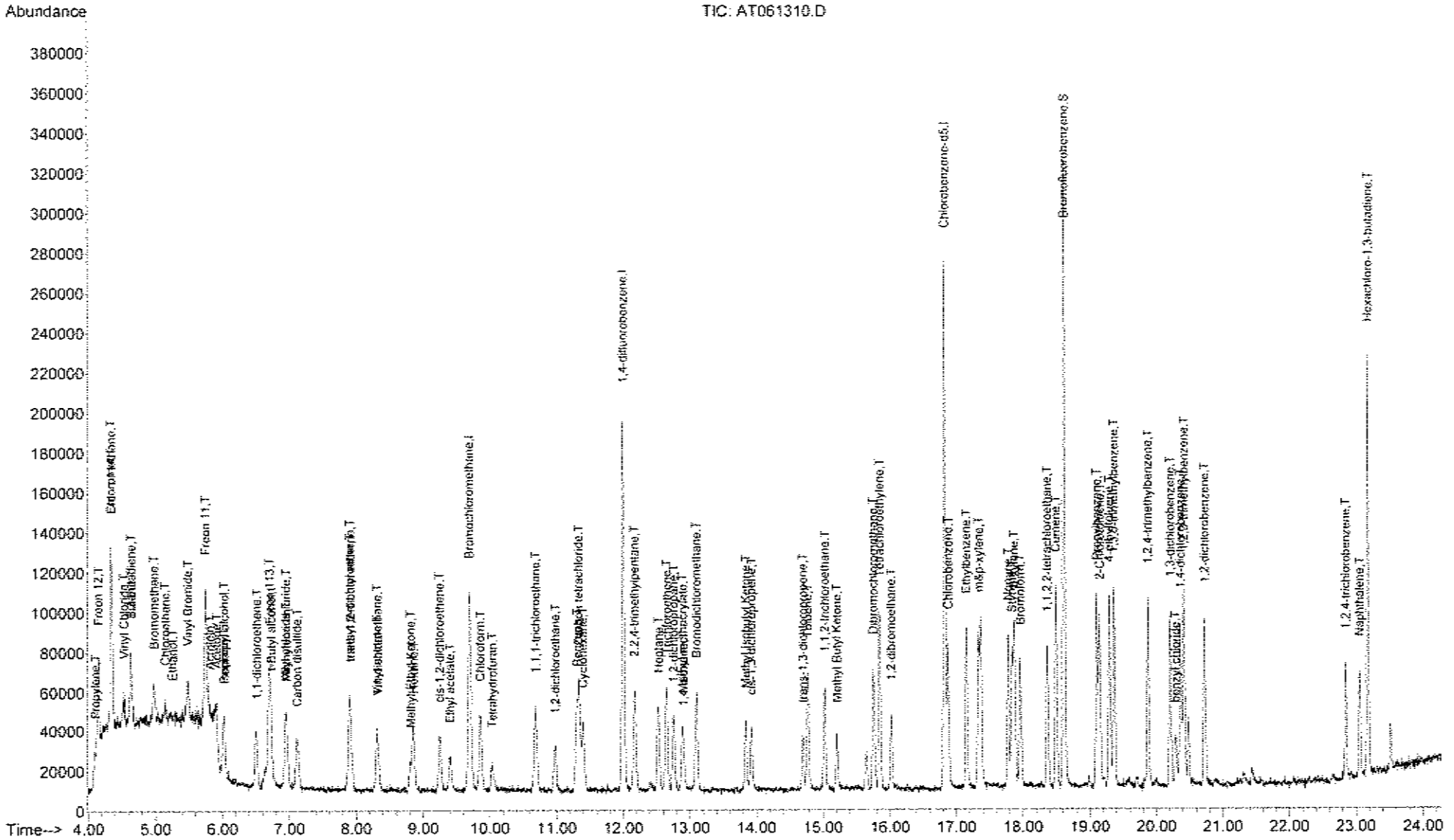
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	Bromodichloromethane	13.09	83	39970	0.30	ppb	97
47)	cis-1,3-dichloropropene	13.92	75	21199	0.29	ppb	97
48)	trans-1,3-dichloropropene	14.70	75	16976	0.28	ppb	98
49)	1,1,2-trichloroethane	15.02	97	17912	0.29	ppb	99
51)	Toluene	14.78	92	28277	0.26	ppb	95
52)	Methyl Isobutyl Ketone	13.83	43	24343	0.25	ppb	95
53)	Dibromochloromethane	15.75	129	38512	0.30	ppb	99
54)	Methyl Butyl Ketone	15.21	43	21803	0.24	ppb	90
55)	1,2-dibromoethane	16.02	107	27682	0.28	ppb	97
56)	Tetrachloroethylene	15.84	164	23101	0.28	ppb	98
57)	Chlorobenzene	16.88	112	42979	0.28	ppb	94
58)	Ethylbenzene	17.15	91	69048	0.28	ppb	95
59)	m&p-xylene	17.33	91	110192	0.54	ppb	97
60)	Nonane	17.78	43	28032	0.27	ppb	88
61)	Styrene	17.84	104	40389	0.26	ppb	97
62)	Bromoform	17.96	173	33397	0.28	ppb	96
63)	o-xylene	17.87	91	58340	0.27	ppb	100
64)	Cumene	18.49	105	78769	0.28	ppb	98
66)	1,1,2,2-tetrachloroethane	18.36	83	36748	0.29	ppb	99
67)	Propylbenzene	19.11	120	20413	0.25	ppb	82
68)	2-Chlorotoluene	19.15	126	20615	0.28	ppb	96
69)	4-ethyltoluene	19.29	105	75166	0.26	ppb	100
70)	1,3,5-trimethylbenzene	19.36	105	66269	0.26	ppb	97
71)	1,2,4-trimethylbenzene	19.87	105	64396	0.26	ppb	99
72)	1,3-dichlorobenzene	20.21	146	41706	0.26	ppb	98
73)	benzyl chloride	20.29	91	21223	0.23	ppb	97
74)	1,4-dichlorobenzene	20.36	146	40285	0.25	ppb	97
75)	1,2,3-trimethylbenzene	20.41	105	66688	0.26	ppb	98
76)	1,2-dichlorobenzene	20.72	146	40116	0.27	ppb	96
77)	1,2,4-trichlorobenzene	22.85	180	20860	0.25	ppb	90
78)	Naphthalene	23.05	128	47443	0.23	ppb	98
79)	Hexachloro-1,3-butadiene	23.17	225	37346	0.28	ppb	94

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061310.D Vial: 13
Acq On : 13 Jun 2022 8:13 pm Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 7:29 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D



Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061311.D Vial: 14
Acq On : 13 Jun 2022 8:56 pm Operator: RJP
Sample : A1UG_0.15 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 07:29:30 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:27:56 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.70	128	38638	1.00	ppb		0.02
35) 1,4-difluorobenzene	12.00	114	186969	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	166237	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	119848	0.95	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%				
Target Compounds							Qvalue
2) Propylene	4.09	41	4926	0.20	ppb		74
3) Freon 12	4.15	85	27661	0.16	ppb		92
4) Chloromethane	4.34	50	7068	0.17	ppb		71
5) Freon 114	4.34	85	24081	0.17	ppb		97
6) Vinyl Chloride	4.54	62	6502	0.17	ppb		90
7) Butane	4.62	43	8865	0.19	ppb	#	93
8) 1,3-butadiene	4.64	39	7942	0.20	ppb		96
9) Bromomethane	4.97	94	10707	0.21	ppb		84
10) Chloroethane	5.14	64	3937	0.21	ppb	#	78
11) Ethanol	5.25	45	2283m	0.17	ppb		
12) Acrolein	5.82	56	2658m	0.20	ppb		
13) Vinyl Bromide	5.48	106	10188	0.18	ppb		93
14) Freon 11	5.75	101	36625	0.17	ppb		97
15) Acetone	5.91	58	3738	0.17	ppb	#	22
16) Pentane	6.03	42	6330	0.18	ppb		88
17) Isopropyl alcohol	6.02	45	12486	0.19	ppb		84
18) 1,1-dichloroethene	6.50	96	7774	0.17	ppb		98
19) Freon 113	6.70	101	17243	0.16	ppb		94
20) t-Butyl alcohol	6.73	59	9958	0.13	ppb	#	79
21) Methylene chloride	6.96	84	9825	0.21	ppb	#	84
22) Allyl chloride	6.95	41	6615	0.15	ppb		82
23) Carbon disulfide	7.11	76	30193m	0.23	ppb		
24) trans-1,2-dichloroethene	7.89	61	9979	0.14	ppb		96
25) methyl tert-butyl ether	7.92	73	16228	0.15	ppb		82
26) 1,1-dichloroethane	8.32	63	11922	0.15	ppb		98
27) Vinyl acetate	8.30	43	8716	0.14	ppb		89
28) Methyl Ethyl Ketone	8.82	72	3009	0.15	ppb	#	100
29) cis-1,2-dichloroethene	9.25	61	9076	0.14	ppb		94
30) Hexane	8.86	57	6999	0.12	ppb	#	72
31) Ethyl acetate	9.40	43	13593	0.15	ppb		94
32) Chloroform	9.87	83	18961	0.16	ppb		100
33) Tetrahydrofuran	10.04	42	5236	0.16	ppb		83
34) 1,2-dichloroethane	10.97	62	14057	0.16	ppb		100
36) 1,1,1-trichloroethane	10.69	97	17369	0.15	ppb		98
37) Cyclohexane	11.39	56	8074	0.14	ppb	#	64
38) Carbon tetrachloride	11.34	117	18871	0.15	ppb		100
39) Benzene	11.30	78	18343	0.13	ppb		95
40) Methyl methacrylate	12.88	41	7497	0.13	ppb	#	94
41) 1,4-dioxane	12.91	88	4681	0.14	ppb		99
42) 2,2,4-trimethylpentane	12.17	57	24974	0.14	ppb		94
43) Heptane	12.52	43	8551	0.13	ppb		95
44) Trichloroethene	12.65	130	11269	0.16	ppb		94
45) 1,2-dichloropropane	12.77	63	6233	0.14	ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061311.D Vial: 14
Acq On : 13 Jun 2022 8:56 pm Operator: RJP
Sample : A1UG_0.15 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 07:29:30 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:27:56 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D
DataAcq Meth : 1UG_ENT

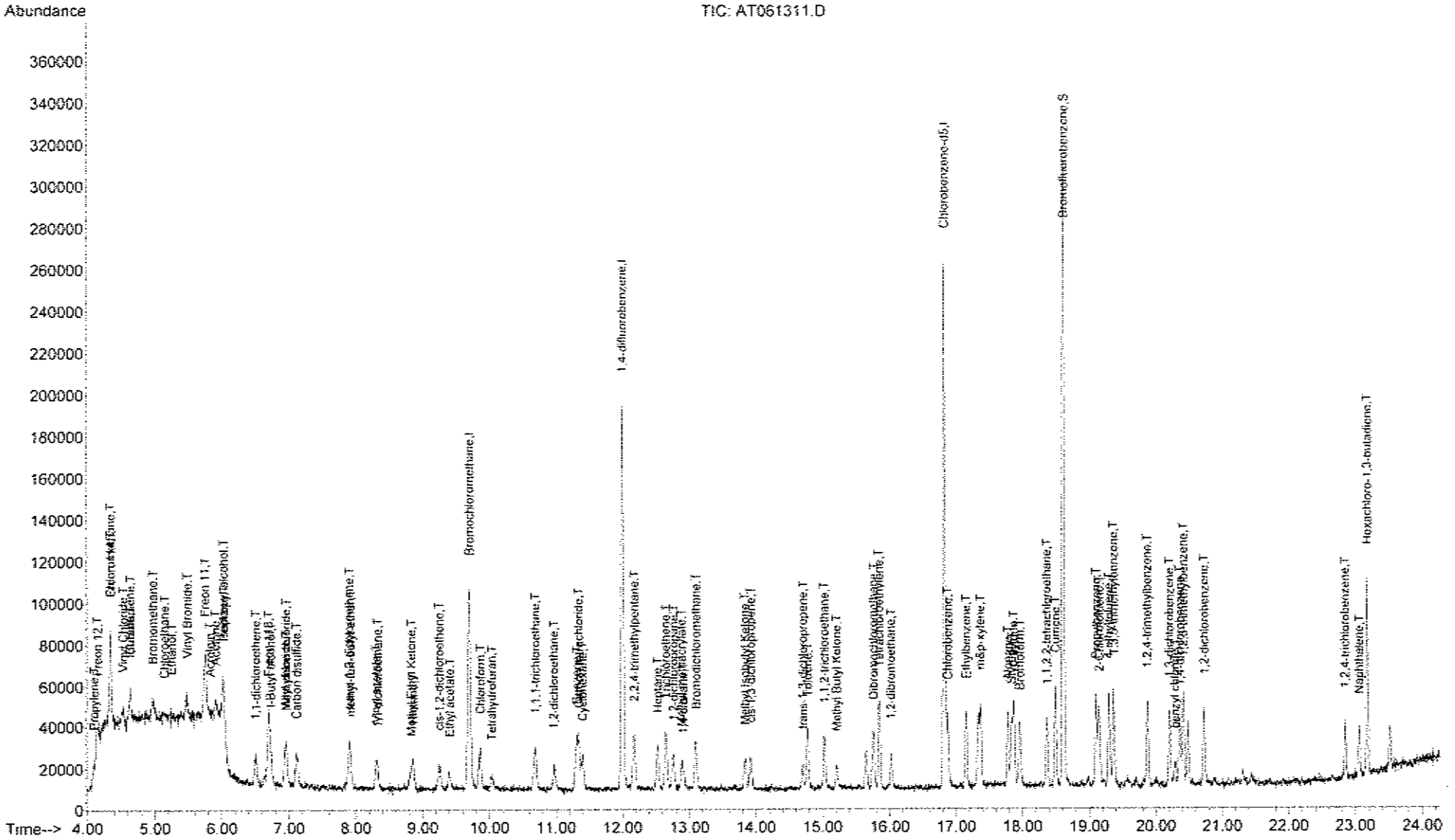
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	Bromodichloromethane	13.10	83	18143	0.14	ppb	94
47)	cis-1,3-dichloropropene	13.92	75	9988m	0.14	ppb	
48)	trans-1,3-dichloropropene	14.70	75	7886	0.13	ppb	94
49)	1,1,2-trichloroethane	15.03	97	8237	0.13	ppb	95
51)	Toluene	14.78	92	13822	0.13	ppb	99
52)	Methyl Isobutyl Ketone	13.83	43	11789	0.13	ppb	90
53)	Dibromochloromethane	15.76	129	18007	0.15	ppb	100
54)	Methyl Butyl Ketone	15.20	43	10088m	0.11	ppb	
55)	1,2-dibromoethane	16.02	107	12302	0.13	ppb	90
56)	Tetrachloroethylene	15.85	164	11021	0.14	ppb	96
57)	Chlorobenzene	16.88	112	20406	0.14	ppb	97
58)	Ethylbenzene	17.15	91	28909	0.12	ppb	95
59)	m&p-xylene	17.36	91	50446	0.26	ppb	100
60)	Nonane	17.78	43	13764m	0.14	ppb	
61)	Styrene	17.84	104	18570	0.13	ppb	100
62)	Bromoform	17.96	173	15281	0.13	ppb	98
63)	o-xylene	17.87	91	27596	0.13	ppb	100
64)	Cumene	18.49	105	34008	0.12	ppb	98
66)	1,1,2,2-tetrachloroethane	18.36	83	15777	0.13	ppb	93
67)	Propylbenzene	19.10	120	9607	0.12	ppb	95
68)	2-Chlorotoluene	19.15	126	9509	0.13	ppb	96
69)	4-ethyltoluene	19.30	105	33645	0.12	ppb	100
70)	1,3,5-trimethylbenzene	19.36	105	31745	0.13	ppb	95
71)	1,2,4-trimethylbenzene	19.86	105	29858	0.13	ppb	98
72)	1,3-dichlorobenzene	20.21	146	18883	0.12	ppb	95
73)	benzyl chloride	20.29	91	10012m	0.11	ppb	
74)	1,4-dichlorobenzene	20.36	146	16854m	0.11	ppb	
75)	1,2,3-trimethylbenzene	20.41	105	28690	0.12	ppb	95
76)	1,2-dichlorobenzene	20.72	146	17344	0.12	ppb	98
77)	1,2,4-trichlorobenzene	22.84	180	8455	0.10	ppb	92
78)	Naphthalene	23.05	128	19573	0.10	ppb	97
79)	Hexachloro-1,3-butadiene	23.18	225	17134	0.13	ppb	94

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061311.D Vial: 14
Acq On : 13 Jun 2022 8:56 pm Operator: RJP
Sample : A1UG_0.15 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 7:36 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D



Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061312.D Vial: 15
Acq On : 13 Jun 2022 9:38 pm Operator: RJP
Sample : A1UG_0.10 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 07:29:42 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:27:56 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D
DataAcq Meth : 1UG_ENT

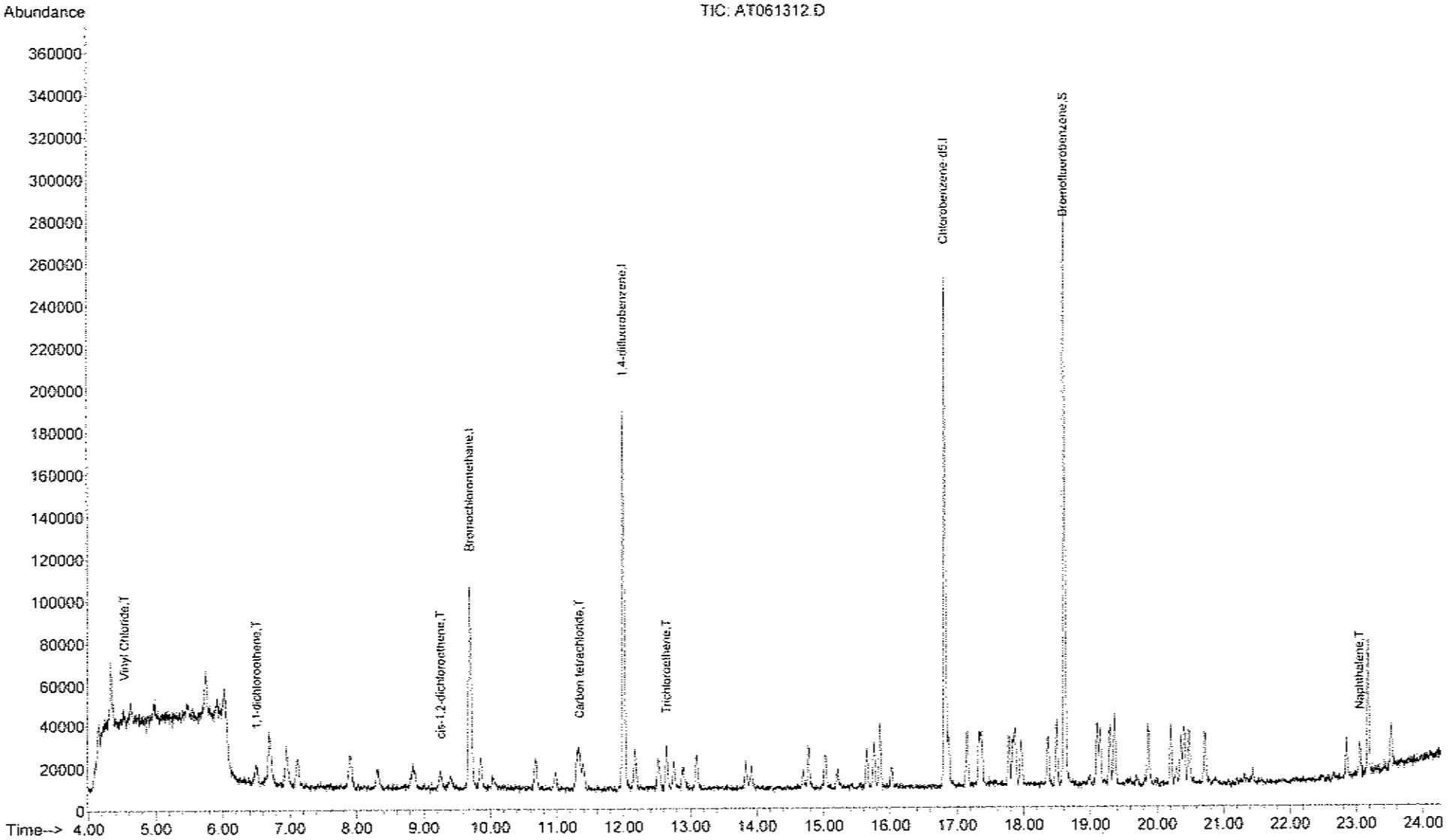
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.69	128	40732	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.00	114	179739	1.00	ppb	0.00
50) Chlorobenzene-d5	16.82	117	160902	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.61	95	112698	0.92	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 92.00%			
Target Compounds						Qvalue
6) Vinyl Chloride	4.54	62	4753	0.12	ppb	83
18) 1,1-dichloroethene	6.51	96	5141m	0.11	ppb	
29) cis-1,2-dichloroethene	9.26	61	6772	0.10	ppb	89
38) Carbon tetrachloride	11.35	117	12918	0.11	ppb	94
44) Trichloroethene	12.65	130	7775	0.11	ppb	98
78) Naphthalene	23.05	128	14352m	0.07	ppb	

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061312.D Vial: 15
Acq On : 13 Jun 2022 9:38 pm Operator: RJP
Sample : A1UG_0.10 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 7:38 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D



Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061313.D Vial: 16
Acq On : 13 Jun 2022 10:20 pm Operator: RJP
Sample : A1UG_0.04 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 07:29:56 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:27:56 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D
DataAcq Meth : 1UG_ENT

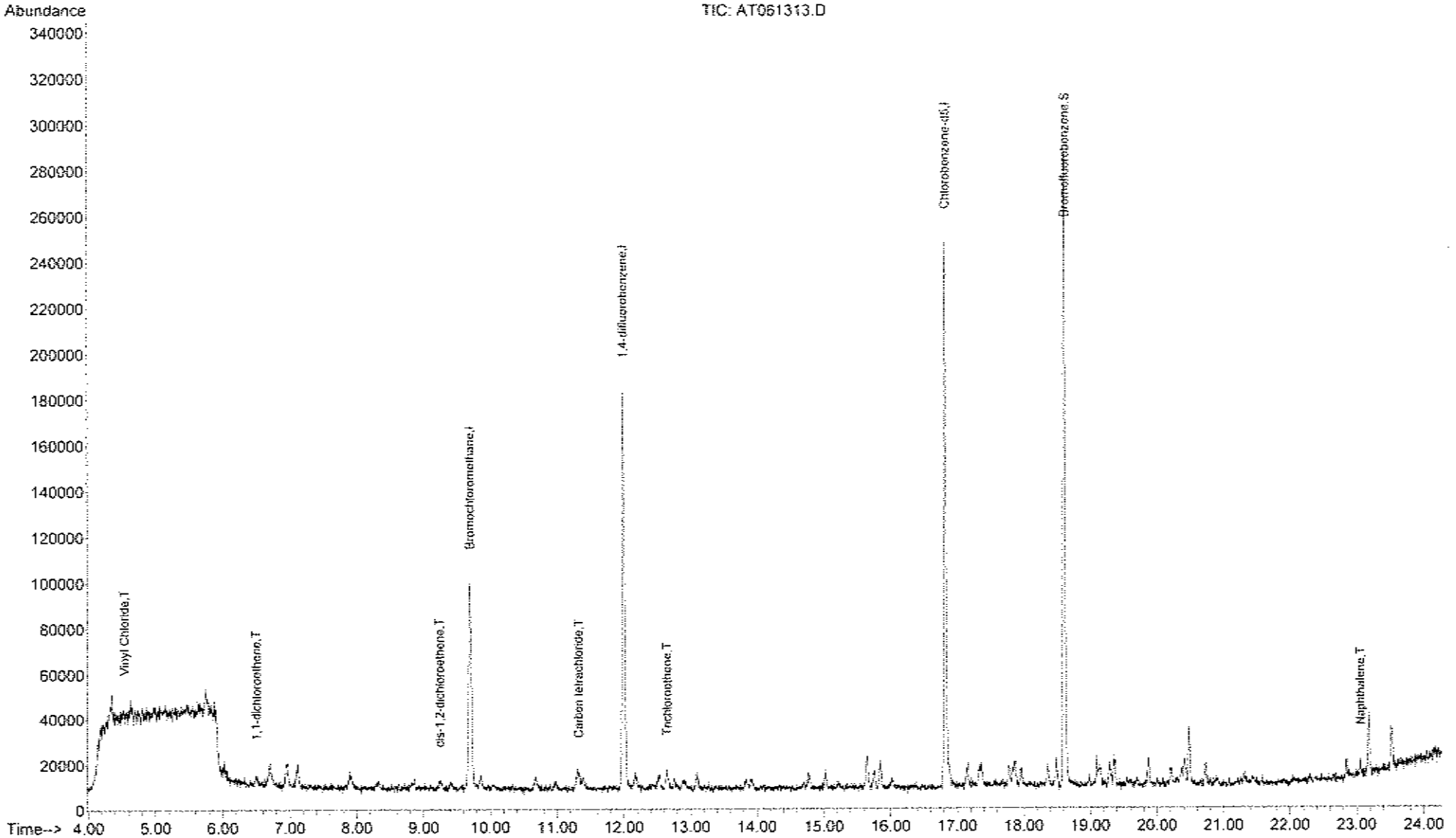
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.70	128	39022	1.00	ppb	0.02
35) 1,4-difluorobenzene	12.00	114	176262	1.00	ppb	0.00
50) Chlorobenzene-d5	16.82	117	157485	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.61	95	110770	0.92	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 92.00%			
Target Compounds						Qvalue
6) Vinyl Chloride	4.54	62	2115m	0.05	ppb	
18) 1,1-dichloroethene	6.50	96	1999	0.04	ppb	# 1
29) cis-1,2-dichloroethene	9.24	61	2650m	0.04	ppb	
38) Carbon tetrachloride	11.33	117	4631	0.04	ppb	98
44) Trichloroethene	12.65	130	2911m	0.04	ppb	
78) Naphthalene	23.05	128	5603m	0.03	ppb	

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061313.D Vial: 16
Acq On : 13 Jun 2022 10:20 pm Operator: RJP
Sample : A1UG_0.04 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 7:39 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D



Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061314.D Vial: 17
Acq On : 13 Jun 2022 11:01 pm Operator: RJP
Sample : A1UG_0.03 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 07:30:10 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:27:56 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D
DataAcq Meth : 1UG_ENT

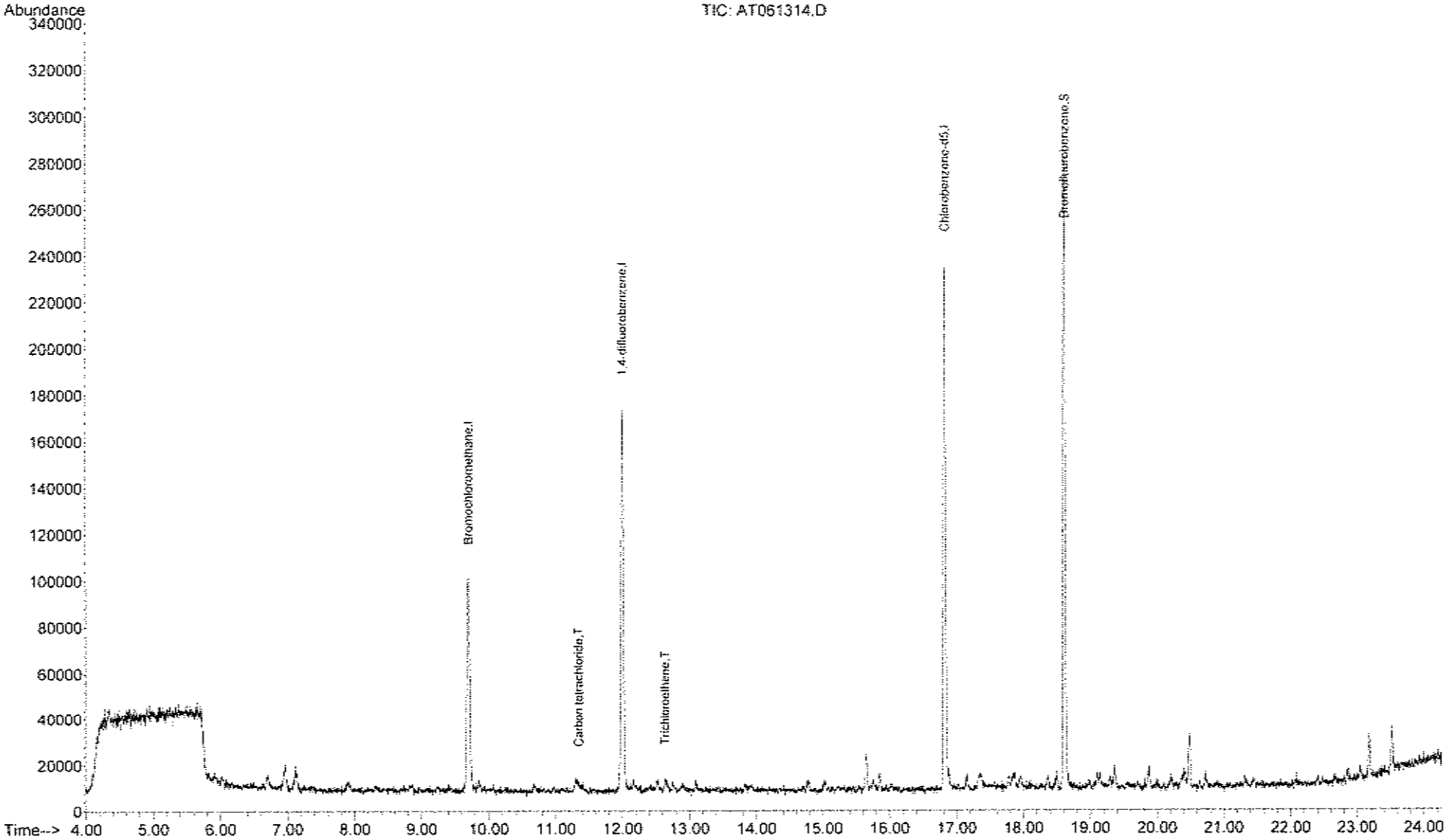
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.69	128	37054	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.00	114	170829	1.00	ppb	0.00
50) Chlorobenzene-d5	16.82	117	155683	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.62	95	103170	0.87	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 87.00%			
Target Compounds						Qvalue
38) Carbon tetrachloride	11.34	117	2779m	0.02	ppb	
44) Trichloroethene	12.64	130	1748	0.03	ppb	# 47

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT061314.D Vial: 17
Acq On : 13 Jun 2022 11:01 pm Operator: RJP
Sample : A1UG_0.03 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 7:40 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AT061307.D



Centek/SanAir Laboratories

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CALIBRATION VERIFICATION

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AT062402.D Vial: 2
Acq On : 24 Jun 2022 9:20 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	80	0.01
2	T	Propylene	0.666	0.802	-20.4	102	0.02
3	T	Freon 12	4.608	3.789	17.8	66	0.00
4	T	Chloromethane	1.128	0.993	12.0	72	0.01
5	T	Freon 114	3.777	3.552	6.0	77	0.00
6	T	Vinyl Chloride	1.086	0.921	15.2	74	0.00
7	T	Butane	1.326	1.043	21.3	69	0.00
8	T	1,3-butadiene	1.059	0.849	19.8	67	0.00
9	T	Bromomethane	1.466	1.359	7.3	81	0.00
10	T	Chloroethane	0.531	0.442	16.8	74	0.00
11	T	Ethanol	0.363	0.315	13.2	66	0.02
12	T	Acrolein	0.361	0.319	11.6	75	0.00
13	T	Vinyl Bromide	1.523	1.497	1.7	82	0.00
14	T	Freon 11	5.703	5.296	7.1	75	0.00
15	T	Acetone	0.582	0.429	26.3	59	0.00
16	T	Pentane	0.943	0.709	24.8	63	0.00
17	T	Isopropyl alcohol	1.694	1.229	27.4	62	0.00
18	T	1,1-dichloroethene	1.195	0.926	22.5	63	0.00
19	T	Freon 113	2.845	2.410	15.3	68	0.00
20	t	t-Butyl alcohol	1.898	1.431	24.6	59	0.00
21	T	Methylene chloride	1.270	0.901	29.1	61	0.01
22	T	Allyl chloride	1.139	0.857	24.8	60	0.01
23	T	Carbon disulfide	3.781	2.684	29.0	62	0.00
24	T	trans-1,2-dichloroethene	1.734	1.363	21.4	61	0.00
25	T	methyl tert-butyl ether	2.838	2.563	9.7	71	0.01
26	T	1,1-dichloroethane	2.058	1.570	23.7	61	0.00
27	T	Vinyl acetate	1.607	1.303	18.9	63	0.01
28	T	Methyl Ethyl Ketone	0.495	0.390	21.2	60	0.00
29	T	cis-1,2-dichloroethene	1.658	1.269	23.5	61	0.00
30	T	Hexane	1.483	1.126	24.1	58	0.00
31	T	Ethyl acetate	2.334	1.774	24.0	60	0.00
32	T	Chloroform	3.135	2.624	16.3	67	0.00
33	T	Tetrahydrofuran	0.869	0.679	21.9	63	0.00
34	T	1,2-dichloroethane	2.366	1.957	17.3	67	0.00
35	I	1,4-difluorobenzene	1.000	1.000	0.0	80	0.00
36	T	1,1,1-trichloroethane	0.626	0.661	-5.6	85	0.00
37	T	Cyclohexane	0.303	0.220	27.4	59	0.00
38	T	Carbon tetrachloride	0.666	0.821	-23.3	99	0.00
39	T	Benzene	0.719	0.544	24.3	59	0.00
40	T	Methyl methacrylate	0.296	0.246	16.9	63	0.00
41	T	1,4-dioxane	0.173	0.123	28.9	55	0.00
42	T	2,2,4-trimethylpentane	0.945	0.697	26.2	59	0.00
43	T	Heptane	0.338	0.298	11.8	69	0.00
44	T	Trichloroethene	0.393	0.333	15.3	69	0.00
45	T	1,2-dichloropropane	0.236	0.175	25.8	59	0.00
46	T	Bromodichloromethane	0.694	0.629	9.4	72	0.00
47	T	cis-1,3-dichloropropene	0.376	0.354	5.9	75	0.00
48	T	trans-1,3-dichloropropene	0.312	0.349	-11.9	87	0.00
49	T	1,1,2-trichloroethane	0.323	0.284	12.1	69	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AT062402.D Vial: 2
Acq On : 24 Jun 2022 9:20 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	T	Toluene	0.591	0.504	14.7	63	0.00
52	T	Methyl Isobutyl Ketone	0.528	0.436	17.4	62	0.00
53	T	Dibromochloromethane	0.747	0.797	-6.7	86	0.00
54	T	Methyl Butyl Ketone	0.479	0.416	13.2	63	0.00
55	T	1,2-dibromoethane	0.548	0.520	5.1	73	0.00
56	T	Tetrachloroethylene	0.457	0.419	8.3	70	0.00
57	T	Chlorobenzene	0.862	0.740	14.2	66	0.00
58	T	Ethylbenzene	1.366	1.160	15.1	64	0.00
59	T	m&p-xylene	1.118	0.948	15.2	64	0.00
60	T	Nonane	0.569	0.407	28.5	54	-0.01
61	T	Styrene	0.825	0.709	14.1	64	0.00
62	T	Bromoform	0.666	0.779	-17.0	89	-0.02
63	T	o-xylene	1.191	1.001	16.0	65	0.00
64	T	Cumene	1.571	1.377	12.3	67	-0.03
65	S	Bromofluorobenzene	0.725	0.720	0.7	76	-0.04
66	T	1,1,2,2-tetrachloroethane	0.705	0.598	15.2	64	-0.04
67	T	Propylbenzene	0.432	0.386	10.6	65	-0.06
68	T	2-Chlorotoluene	0.412	0.355	13.8	67	-0.07
69	T	4-ethyltoluene	1.548	1.335	13.8	64	-0.07
70	T	1,3,5-trimethylbenzene	1.382	1.215	12.1	67	-0.07
71	T	1,2,4-trimethylbenzene	1.345	1.183	12.0	66	-0.09
72	T	1,3-dichlorobenzene	0.874	0.822	5.9	70	-0.10
73	T	benzyl chloride	0.490	0.623	-27.1	93	-0.10
74	T	1,4-dichlorobenzene	0.857	0.806	6.0	69	-0.11
75	T	1,2,3-trimethylbenzene	1.380	1.209	12.4	66	-0.11
76	T	1,2-dichlorobenzene	0.826	0.778	5.8	71	-0.11
77	T	1,2,4-trichlorobenzene	0.449	0.497	-10.7	81	-0.06
78	T	Naphthalene	1.044	1.197	-14.7	79	-0.05
79	T	Hexachloro-1,3-butadiene	0.751	0.789	-5.1	81	-0.05

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062402.D Vial: 2
Acq On : 24 Jun 2022 9:20 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 24 10:40:24 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.70	128	37064	1.00	ppb		0.01
35) 1,4-difluorobenzene	12.00	114	173918	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	150345	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.57	95	108271	0.99	ppb		-0.04
Spiked Amount 1.000	Range 70 - 130		Recovery = 99.00%				
Target Compounds							Qvalue
2) Propylene	4.10	41	29718	1.20	ppb		98
3) Freon 12	4.14	85	140423	0.82	ppb		99
4) Chloromethane	4.34	50	36812	0.88	ppb		99
5) Freon 114	4.34	85	131664	0.94	ppb		98
6) Vinyl Chloride	4.53	62	34149	0.85	ppb		99
7) Butane	4.63	43	38674	0.79	ppb		99
8) 1,3-butadiene	4.63	39	31476	0.80	ppb		90
9) Bromomethane	4.97	94	50387	0.93	ppb		99
10) Chloroethane	5.14	64	16372	0.83	ppb	#	86
11) Ethanol	5.24	45	11672m	0.87	ppb		
12) Acrolein	5.81	56	11839m	0.88	ppb		
13) Vinyl Bromide	5.47	106	55489	0.98	ppb		96
14) Freon 11	5.75	101	196283	0.93	ppb		98
15) Acetone	5.91	58	15904	0.74	ppb	#	56
16) Pentane	6.01	42	26277	0.75	ppb		96
17) Isopropyl alcohol	6.01	45	45560m	0.73	ppb		
18) 1,1-dichloroethene	6.50	96	34321	0.78	ppb		92
19) Freon 113	6.70	101	89337	0.85	ppb		97
20) t-Butyl alcohol	6.73	59	53048	0.75	ppb		97
21) Methylene chloride	6.97	84	33413m	0.71	ppb		
22) Allyl chloride	6.94	41	31773m	0.75	ppb		
23) Carbon disulfide	7.11	76	99486	0.71	ppb		98
24) trans-1,2-dichloroethene	7.89	61	50507	0.79	ppb		96
25) methyl tert-butyl ether	7.91	73	94992	0.90	ppb		98
26) 1,1-dichloroethane	8.31	63	58197	0.76	ppb		99
27) Vinyl acetate	8.31	43	48311	0.81	ppb		96
28) Methyl Ethyl Ketone	8.79	72	14473	0.79	ppb	#	100
29) cis-1,2-dichloroethene	9.25	61	47044	0.77	ppb		97
30) Hexane	8.85	57	41722m	0.76	ppb		
31) Ethyl acetate	9.40	43	65770	0.76	ppb		99
32) Chloroform	9.86	83	97251	0.84	ppb		98
33) Tetrahydrofuran	10.02	42	25155m	0.78	ppb		
34) 1,2-dichloroethane	10.97	62	72543	0.83	ppb		100
36) 1,1,1-trichloroethane	10.68	97	114920	1.06	ppb		99
37) Cyclohexane	11.39	56	38346	0.73	ppb		92
38) Carbon tetrachloride	11.33	117	142810	1.23	ppb		99
39) Benzene	11.29	78	94580	0.76	ppb		98
40) Methyl methacrylate	12.88	41	42759	0.83	ppb		96
41) 1,4-dioxane	12.90	88	21333	0.71	ppb		99
42) 2,2,4-trimethylpentane	12.16	57	121266	0.74	ppb		98
43) Heptane	12.53	43	51783m	0.88	ppb		
44) Trichloroethene	12.65	130	57875	0.85	ppb		99
45) 1,2-dichloropropane	12.75	63	30504	0.74	ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062402.D Vial: 2
Acq On : 24 Jun 2022 9:20 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 24 10:40:24 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

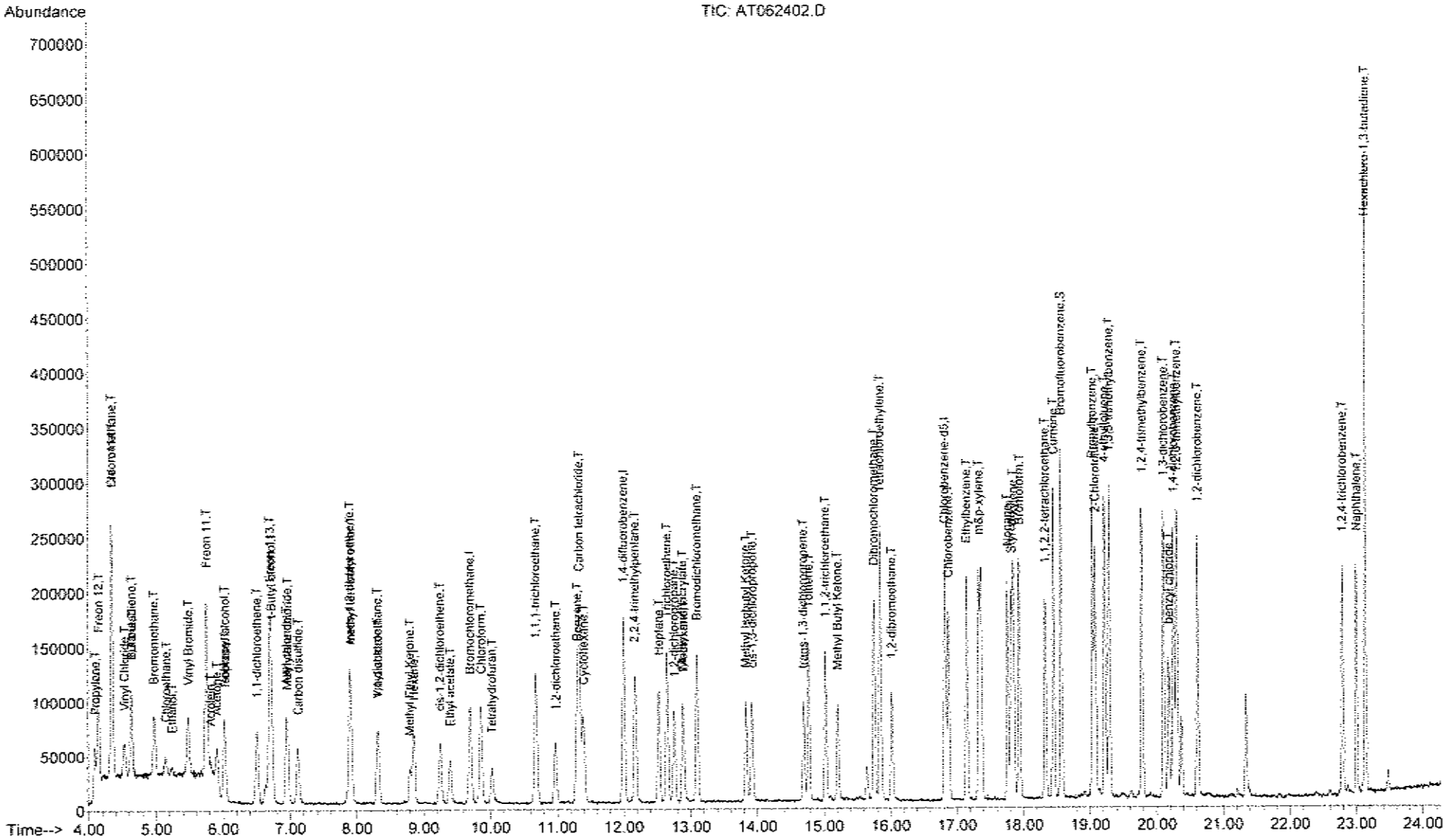
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	Bromodichloromethane	13.09	83	109400	0.91	ppb	99
47)	cis-1,3-dichloropropene	13.92	75	61627	0.94	ppb	97
48)	trans-1,3-dichloropropene	14.69	75	60630	1.12	ppb	87
49)	1,1,2-trichloroethane	15.02	97	49415	0.88	ppb	94
51)	Toluene	14.77	92	75726	0.85	ppb	99
52)	Methyl Isobutyl Ketone	13.83	43	65582	0.83	ppb	95
53)	Dibromochloromethane	15.75	129	119816	1.07	ppb	98
54)	Methyl Butyl Ketone	15.20	43	62486	0.87	ppb	98
55)	1,2-dibromoethane	16.02	107	78162	0.95	ppb	95
56)	Tetrachloroethylene	15.84	164	63046	0.92	ppb	100
57)	Chlorobenzene	16.88	112	111256	0.86	ppb	99
58)	Ethylbenzene	17.15	91	174472	0.85	ppb	100
59)	m&p-xylene	17.33	91	284910	1.69	ppb	98
60)	Nonane	17.76	43	61240m	0.72	ppb	
61)	Styrene	17.82	104	106644	0.86	ppb	97
62)	Bromoform	17.94	173	117168	1.17	ppb	100
63)	o-xylene	17.86	91	150478	0.84	ppb	99
64)	Cumene	18.46	105	207003	0.88	ppb	98
66)	1,1,2,2-tetrachloroethane	18.33	83	89898	0.85	ppb	98
67)	Propylbenzene	19.04	120	58012	0.89	ppb	100
68)	2-Chlorotoluene	19.08	126	53438	0.86	ppb	96
69)	4-ethyltoluene	19.22	105	200746m	0.86	ppb	
70)	1,3,5-trimethylbenzene	19.29	105	182609	0.88	ppb	98
71)	1,2,4-trimethylbenzene	19.78	105	177826	0.88	ppb	99
72)	1,3-dichlorobenzene	20.10	146	123610m	0.94	ppb	
73)	benzyl chloride	20.18	91	93625m	1.27	ppb	
74)	1,4-dichlorobenzene	20.25	146	121188	0.94	ppb	99
75)	1,2,3-trimethylbenzene	20.30	105	181790	0.88	ppb	99
76)	1,2-dichlorobenzene	20.61	146	116971	0.94	ppb	98
77)	1,2,4-trichlorobenzene	22.79	180	74743	1.11	ppb	94
78)	Naphthalene	23.00	128	179969	1.15	ppb	99
79)	Hexachloro-1,3-butadiene	23.13	225	118589	1.05	ppb	97

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062402.D Vial: 2
Acq On : 24 Jun 2022 9:20 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 12:58 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



Centek/SanAir Laboratories

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AT062702.D Vial: 2
Acq On : 27 Jun 2022 9:14 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	82	0.00
2	T	Propylene	0.666	0.814	-22.2	106	0.00
3	T	Freon 12	4.608	4.139	10.2	74	0.00
4	T	Chloromethane	1.128	1.096	2.8	81	0.00
5	T	Freon 114	3.777	3.817	-1.1	84	0.00
6	T	Vinyl Chloride	1.086	1.076	0.9	88	0.00
7	T	Butane	1.326	1.218	8.1	82	0.00
8	T	1,3-butadiene	1.059	0.952	10.1	76	0.00
9	T	Bromomethane	1.466	1.498	-2.2	91	0.00
10	T	Chloroethane	0.531	0.559	-5.3	95	0.00
11	T	Ethanol	0.363	0.344	5.2	74	0.02
12	T	Acrolein	0.361	0.237	34.3#	57	0.01
13	T	Vinyl Bromide	1.523	1.525	-0.1	86	0.00
14	T	Freon 11	5.703	4.582	19.7	67	0.00
15	T	Acetone	0.582	0.430	26.1	60	0.01
16	T	Pentane	0.943	0.666	29.4	60	0.00
17	T	Isopropyl alcohol	1.694	1.272	24.9	65	0.00
18	T	1,1-dichloroethene	1.195	1.015	15.1	71	0.00
19	T	Freon 113	2.845	2.533	11.0	73	0.00
20	t	t-Butyl alcohol	1.898	1.751	7.7	73	0.00
21	T	Methylene chloride	1.270	1.141	10.2	78	0.00
22	T	Allyl chloride	1.139	0.811	28.8	58	0.00
23	T	Carbon disulfide	3.781	3.025	20.0	72	0.00
24	T	trans-1,2-dichloroethene	1.734	1.397	19.4	64	0.00
25	T	methyl tert-butyl ether	2.838	2.759	2.8	78	0.00
26	T	1,1-dichloroethane	2.058	1.701	17.3	68	0.00
27	T	Vinyl acetate	1.607	1.292	19.6	64	0.00
28	T	Methyl Ethyl Ketone	0.495	0.431	12.9	68	0.00
29	T	cis-1,2-dichloroethene	1.658	1.264	23.8	62	0.00
30	T	Hexane	1.483	1.153	22.3	60	0.00
31	T	Ethyl acetate	2.334	1.770	24.2	62	0.00
32	T	Chloroform	3.135	2.796	10.8	73	0.00
33	T	Tetrahydrofuran	0.869	0.667	23.2	63	0.00
34	T	1,2-dichloroethane	2.366	1.986	16.1	70	0.00
35	I	1,4-difluorobenzene	1.000	1.000	0.0	79	0.00
36	T	1,1,1-trichloroethane	0.626	0.758	-21.1	95	0.00
37	T	Cyclohexane	0.303	0.228	24.8	59	0.00
38	T	Carbon tetrachloride	0.666	0.808	-21.3	95	0.00
39	T	Benzene	0.719	0.605	15.9	65	0.00
40	T	Methyl methacrylate	0.296	0.249	15.9	62	0.00
41	T	1,4-dioxane	0.173	0.142	17.9	62	0.00
42	T	2,2,4-trimethylpentane	0.945	0.711	24.8	59	0.00
43	T	Heptane	0.338	0.244	27.8	55	0.00
44	T	Trichloroethene	0.393	0.380	3.3	77	0.00
45	T	1,2-dichloropropane	0.236	0.182	22.9	60	0.00
46	T	Bromodichloromethane	0.694	0.667	3.9	75	0.00
47	T	cis-1,3-dichloropropene	0.376	0.372	1.1	77	0.00
48	T	trans-1,3-dichloropropene	0.312	0.373	-19.6	91	0.00
49	T	1,1,2-trichloroethane	0.323	0.284	12.1	67	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AT062702.D Vial: 2
Acq On : 27 Jun 2022 9:14 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	T	Toluene	0.591	0.515	12.9	65	0.00
52	T	Methyl Isobutyl Ketone	0.528	0.390	26.1	55	0.00
53	T	Dibromochloromethane	0.747	0.870	-16.5	94	0.00
54	T	Methyl Butyl Ketone	0.479	0.392	18.2	59	0.00
55	T	1,2-dibromoethane	0.548	0.558	-1.8	78	0.00
56	T	Tetrachloroethylene	0.457	0.468	-2.4	79	0.00
57	T	Chlorobenzene	0.862	0.803	6.8	72	0.00
58	T	Ethylbenzene	1.366	1.235	9.6	68	0.00
59	T	m&p-xylene	1.118	1.022	8.6	69	0.03
60	T	Nonane	0.569	0.437	23.2	58	0.00
61	T	Styrene	0.825	0.769	6.8	69	-0.02
62	T	Bromoform	0.666	0.856	-28.5	98	-0.02
63	T	o-xylene	1.191	1.061	10.9	68	-0.01
64	T	Cumene	1.571	1.431	8.9	70	-0.02
65	S	Bromofluorobenzene	0.725	0.701	3.3	74	-0.02
66	T	1,1,2,2-tetrachloroethane	0.705	0.610	13.5	66	-0.02
67	T	Propylbenzene	0.432	0.409	5.3	69	-0.02
68	T	2-Chlorotoluene	0.412	0.389	5.6	73	-0.02
69	T	4-ethyltoluene	1.548	1.436	7.2	69	-0.02
70	T	1,3,5-trimethylbenzene	1.382	1.331	3.7	73	-0.01
71	T	1,2,4-trimethylbenzene	1.345	1.270	5.6	71	-0.02
72	T	1,3-dichlorobenzene	0.874	0.880	-0.7	74	-0.01
73	T	benzyl chloride	0.490	0.626	-27.8	93	-0.01
74	T	1,4-dichlorobenzene	0.857	0.905	-5.6	78	-0.02
75	T	1,2,3-trimethylbenzene	1.380	1.303	5.6	71	-0.01
76	T	1,2-dichlorobenzene	0.826	0.845	-2.3	77	0.00
77	T	1,2,4-trichlorobenzene	0.449	0.542	-20.7	88	0.00
78	T	Naphthalene	1.044	1.187	-13.7	79	0.00
79	T	Hexachloro-1,3-butadiene	0.751	0.849	-13.0	88	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062702.D Vial: 2
Acq On : 27 Jun 2022 9:14 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 07:18:21 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.69	128	37869	1.00	ppb		0.00
35) 1,4-difluorobenzene	11.99	114	170350	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	150256	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.59	95	105404	0.97	ppb		-0.02
Spiked Amount 1.000	Range 70 - 130		Recovery = 97.00%				
Target Compounds							Qvalue
2) Propylene	4.08	41	30817m	1.22	ppb		
3) Freon 12	4.14	85	156745	0.90	ppb		98
4) Chloromethane	4.33	50	41508	0.97	ppb		98
5) Freon 114	4.33	85	144533	1.01	ppb		98
6) Vinyl Chloride	4.52	62	40746	0.99	ppb		99
7) Butane	4.62	43	46116	0.92	ppb		96
8) 1,3-butadiene	4.63	39	36051	0.90	ppb		93
9) Bromomethane	4.97	94	56709	1.02	ppb		100
10) Chloroethane	5.13	64	21171	1.05	ppb		96
11) Ethanol	5.23	45	13026m	0.95	ppb		
12) Acrolein	5.81	56	8990	0.66	ppb		93
13) Vinyl Bromide	5.47	106	57739	1.00	ppb		99
14) Freon 11	5.74	101	173507	0.80	ppb		99
15) Acetone	5.91	58	16300	0.74	ppb	#	60
16) Pentane	6.02	42	25223	0.71	ppb		88
17) Isopropyl alcohol	6.01	45	48155	0.75	ppb		90
18) 1,1-dichloroethene	6.50	96	38423	0.85	ppb		96
19) Freon 113	6.70	101	95934	0.89	ppb		98
20) t-Butyl alcohol	6.72	59	66313	0.92	ppb		99
21) Methylene chloride	6.95	84	43203	0.90	ppb		99
22) Allyl chloride	6.93	41	30714	0.71	ppb		98
23) Carbon disulfide	7.11	76	114559	0.80	ppb		100
24) trans-1,2-dichloroethene	7.89	61	52908	0.81	ppb		98
25) methyl tert-butyl ether	7.90	73	104493	0.97	ppb		100
26) 1,1-dichloroethane	8.31	63	64401	0.83	ppb		97
27) Vinyl acetate	8.30	43	48912	0.80	ppb		99
28) Methyl Ethyl Ketone	8.78	72	16335	0.87	ppb	#	100
29) cis-1,2-dichloroethene	9.24	61	47859	0.76	ppb		100
30) Hexane	8.85	57	43655	0.78	ppb		100
31) Ethyl acetate	9.39	43	67033	0.76	ppb		99
32) Chloroform	9.85	83	105870	0.89	ppb		100
33) Tetrahydrofuran	10.02	42	25254m	0.77	ppb		
34) 1,2-dichloroethane	10.96	62	75215	0.84	ppb		99
36) 1,1,1-trichloroethane	10.67	97	129185	1.21	ppb		97
37) Cyclohexane	11.38	56	38823	0.75	ppb		89
38) Carbon tetrachloride	11.33	117	137638m	1.21	ppb		
39) Benzene	11.29	78	102988	0.84	ppb		100
40) Methyl methacrylate	12.88	41	42386	0.84	ppb		99
41) 1,4-dioxane	12.89	88	24247	0.82	ppb		97
42) 2,2,4-trimethylpentane	12.17	57	121156	0.75	ppb		96
43) Heptane	12.52	43	41514	0.72	ppb		96
44) Trichloroethene	12.64	130	64796	0.97	ppb		99
45) 1,2-dichloropropane	12.75	63	31045	0.77	ppb		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062702.D Vial: 2
Acq On : 27 Jun 2022 9:14 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 07:18:21 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

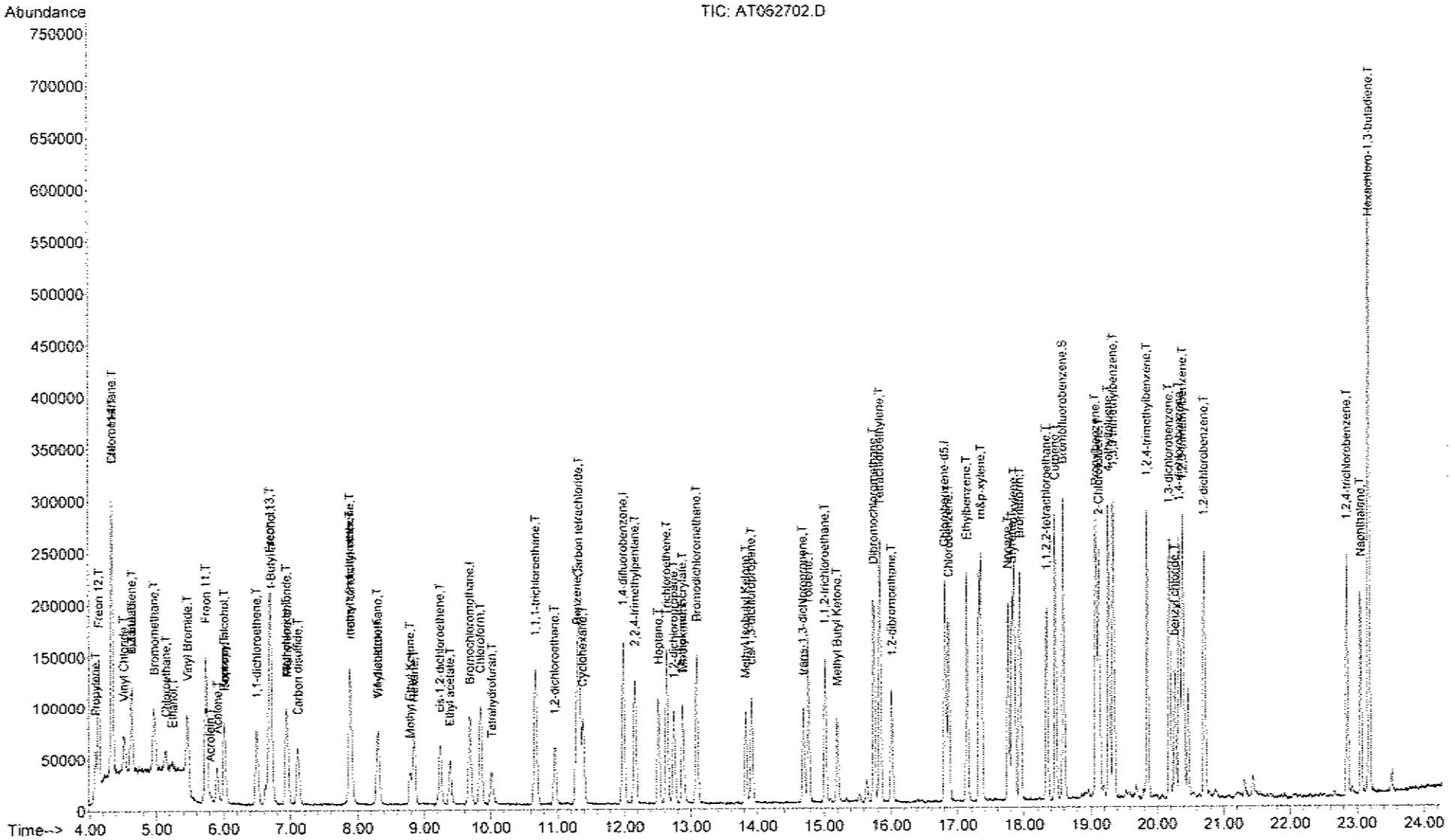
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	Bromodichloromethane	13.09	83	113695	0.96	ppb	96
47)	cis-1,3-dichloropropene	13.91	75	63406	0.99	ppb	99
48)	trans-1,3-dichloropropene	14.69	75	63625	1.20	ppb	99
49)	1,1,2-trichloroethane	15.01	97	48417	0.88	ppb	99
51)	Toluene	14.77	92	77445	0.87	ppb	97
52)	Methyl Isobutyl Ketone	13.83	43	58639	0.74	ppb	96
53)	Dibromochloromethane	15.75	129	130775	1.16	ppb	99
54)	Methyl Butyl Ketone	15.20	43	58853	0.82	ppb	98
55)	1,2-dibromoethane	16.02	107	83782	1.02	ppb	98
56)	Tetrachloroethylene	15.84	164	70311	1.02	ppb	100
57)	Chlorobenzene	16.87	112	120629	0.93	ppb	98
58)	Ethylbenzene	17.14	91	185574	0.90	ppb	99
59)	m&p-xylene	17.36	91	307048	1.83	ppb	99
60)	Nonane	17.77	43	65686m	0.77	ppb	
61)	Styrene	17.82	104	115578	0.93	ppb	97
62)	Bromoform	17.94	173	128582	1.29	ppb	97
63)	o-xylene	17.85	91	159398	0.89	ppb	100
64)	Cumene	18.47	105	215009	0.91	ppb	98
66)	1,1,2,2-tetrachloroethane	18.34	83	91600	0.86	ppb	98
67)	Propylbenzene	19.08	120	61496	0.95	ppb	96
68)	2-Chlorotoluene	19.13	126	58432	0.94	ppb	95
69)	4-ethyltoluene	19.27	105	215714	0.93	ppb	98
70)	1,3,5-trimethylbenzene	19.35	105	199925	0.96	ppb	97
71)	1,2,4-trimethylbenzene	19.85	105	190890	0.94	ppb	100
72)	1,3-dichlorobenzene	20.19	146	132184	1.01	ppb	99
73)	benzyl chloride	20.27	91	94053m	1.28	ppb	
74)	1,4-dichlorobenzene	20.34	146	136021	1.06	ppb	97
75)	1,2,3-trimethylbenzene	20.39	105	195715	0.94	ppb	99
76)	1,2-dichlorobenzene	20.72	146	127021	1.02	ppb	99
77)	1,2,4-trichlorobenzene	22.85	180	81435	1.21	ppb	98
78)	Naphthalene	23.06	128	178428	1.14	ppb	100
79)	Hexachloro-1,3-butadiene	23.18	225	127571	1.13	ppb	100

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062702.D Vial: 2
Acq On : 27 Jun 2022 9:14 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 7:27 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062802.D Vial: 2
Acq On : 28 Jun 2022 9:23 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 09:48:39 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.70	128	25289	1.00	ppb		0.01
35) 1,4-difluorobenzene	11.99	114	116158	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	99146	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.62	95	72149	1.00	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
2) Propylene	4.08	41	21247	1.26	ppb		99
3) Freon 12	4.14	85	119140	1.02	ppb		99
4) Chloromethane	4.34	50	32168	1.13	ppb		98
5) Freon 114	4.34	85	117807	1.23	ppb		97
6) Vinyl Chloride	4.53	62	31084	1.13	ppb		99
7) Butane	4.63	43	34504	1.03	ppb		95
8) 1,3-butadiene	4.63	39	27598	1.03	ppb		92
9) Bromomethane	4.97	94	44489	1.20	ppb		96
10) Chloroethane	5.14	64	14475	1.08	ppb		98
11) Ethanol	5.23	45	7270	0.79	ppb		87
12) Acrolein	5.81	56	10309	1.13	ppb		94
13) Vinyl Bromide	5.47	106	48892	1.27	ppb		97
14) Freon 11	5.75	101	179840	1.25	ppb		98
15) Acetone	5.91	58	15665	1.07	ppb	#	79
16) Pentane	6.02	42	25940	1.09	ppb		92
17) Isopropyl alcohol	6.01	45	44615	1.04	ppb		98
18) 1,1-dichloroethene	6.50	96	26962	0.89	ppb		94
19) Freon 113	6.70	101	65005	0.90	ppb		99
20) t-Butyl alcohol	6.73	59	42310	0.88	ppb		94
21) Methylene chloride	6.95	84	23305	0.73	ppb		98
22) Allyl chloride	6.95	41	20997	0.73	ppb		98
23) Carbon disulfide	7.12	76	73265	0.77	ppb		98
24) trans-1,2-dichloroethene	7.89	61	36902	0.84	ppb		95
25) methyl tert-butyl ether	7.91	73	69981	0.97	ppb		99
26) 1,1-dichloroethane	8.32	63	44725	0.86	ppb		99
27) Vinyl acetate	8.31	43	32998	0.81	ppb		96
28) Methyl Ethyl Ketone	8.80	72	10321	0.83	ppb	#	100
29) cis-1,2-dichloroethene	9.25	61	33695	0.80	ppb		98
30) Hexane	8.85	57	26923	0.72	ppb		86
31) Ethyl acetate	9.40	43	47881	0.81	ppb		96
32) Chloroform	9.86	83	75903	0.96	ppb		98
33) Tetrahydrofuran	10.02	42	17098m	0.78	ppb		
34) 1,2-dichloroethane	10.98	62	56836	0.95	ppb		99
36) 1,1,1-trichloroethane	10.68	97	90383	1.24	ppb		99
37) Cyclohexane	11.39	56	26942	0.77	ppb	#	83
38) Carbon tetrachloride	11.33	117	100428m	1.30	ppb		
39) Benzene	11.31	78	71340	0.85	ppb		91
40) Methyl methacrylate	12.89	41	30605	0.89	ppb		98
41) 1,4-dioxane	12.89	88	16991	0.84	ppb		93
42) 2,2,4-trimethylpentane	12.17	57	85718	0.78	ppb		95
43) Heptane	12.52	43	28013	0.71	ppb		98
44) Trichloroethene	12.65	130	42430	0.93	ppb		96
45) 1,2-dichloropropane	12.76	63	22076	0.81	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062802.D Vial: 2
Acq On : 28 Jun 2022 9:23 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 09:48:39 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

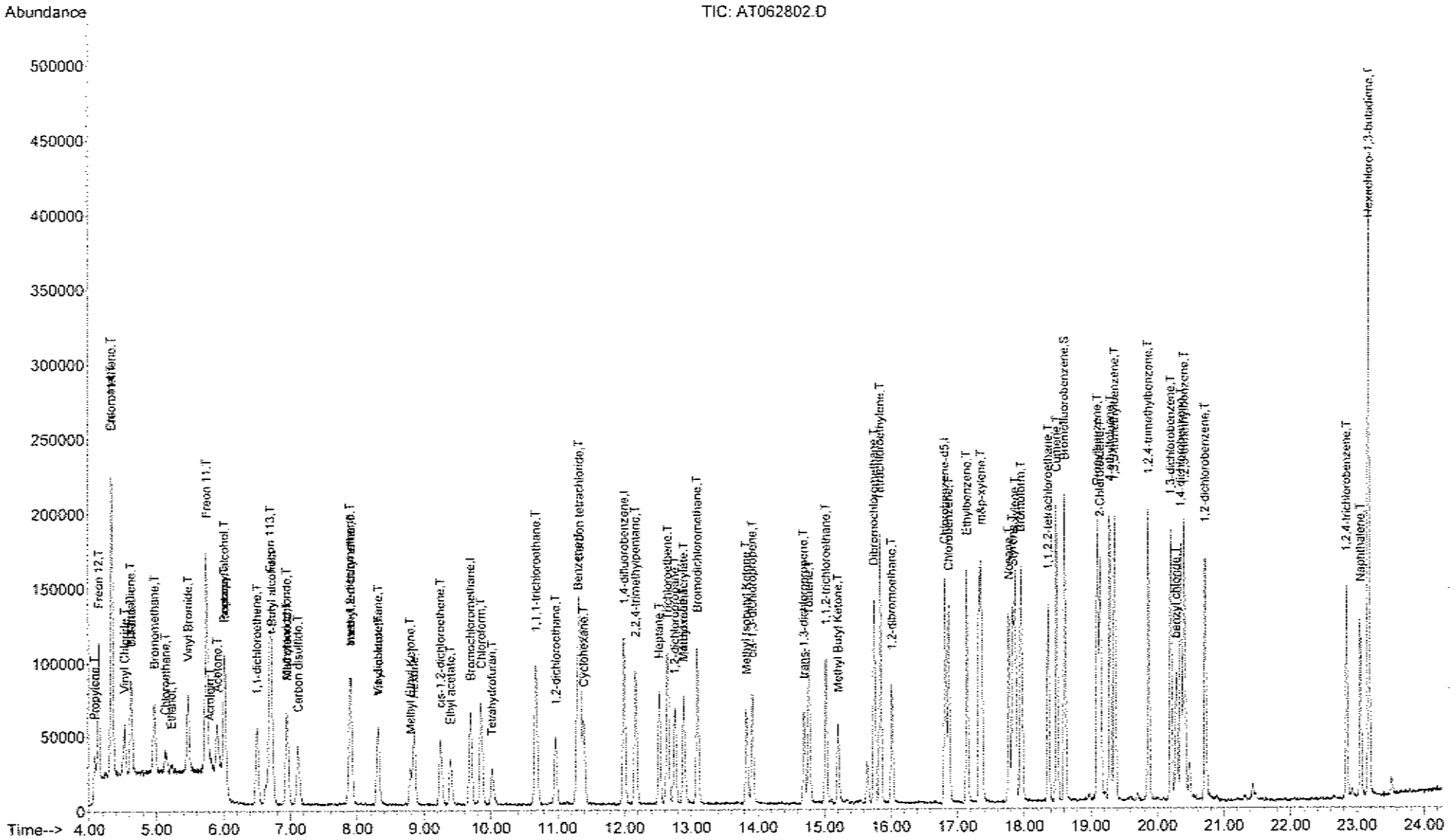
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	Bromodichloromethane	13.09	83	86062	1.07	ppb	96
47)	cis-1,3-dichloropropene	13.92	75	44437	1.02	ppb	99
48)	trans-1,3-dichloropropene	14.69	75	43281	1.19	ppb	98
49)	1,1,2-trichloroethane	15.03	97	32904	0.88	ppb	99
51)	Toluene	14.77	92	51860	0.88	ppb	98
52)	Methyl Isobutyl Ketone	13.83	43	42470	0.81	ppb	95
53)	Dibromochloromethane	15.76	129	90268	1.22	ppb	98
54)	Methyl Butyl Ketone	15.20	43	36243	0.76	ppb	96
55)	1,2-dibromoethane	16.02	107	57628	1.06	ppb	98
56)	Tetrachloroethylene	15.85	164	44194	0.97	ppb	95
57)	Chlorobenzene	16.88	112	81642	0.96	ppb	99
58)	Ethylbenzene	17.15	91	128478	0.95	ppb	98
59)	m&p-xylene	17.37	91	210190	1.90	ppb	97
60)	Nonane	17.78	43	40086	0.71	ppb	99
61)	Styrene	17.83	104	76319	0.93	ppb	95
62)	Bromoform	17.96	173	82565m	1.25	ppb	
63)	o-xylene	17.87	91	108119	0.92	ppb	98
64)	Cumene	18.50	105	145378	0.93	ppb	98
66)	1,1,2,2-tetrachloroethane	18.36	83	63056	0.90	ppb	99
67)	Propylbenzene	19.10	120	39775	0.93	ppb	94
68)	2-Chlorotoluene	19.14	126	39452	0.97	ppb	97
69)	4-ethyltoluene	19.29	105	145755	0.95	ppb	98
70)	1,3,5-trimethylbenzene	19.36	105	129623	0.95	ppb	99
71)	1,2,4-trimethylbenzene	19.87	105	122710	0.92	ppb	99
72)	1,3-dichlorobenzene	20.21	146	86787	1.00	ppb	97
73)	benzyl chloride	20.28	91	63223m	1.30	ppb	
74)	1,4-dichlorobenzene	20.36	146	87229	1.03	ppb	97
75)	1,2,3-trimethylbenzene	20.41	105	126916	0.93	ppb	100
76)	1,2-dichlorobenzene	20.72	146	81723	1.00	ppb	98
77)	1,2,4-trichlorobenzene	22.84	180	49965	1.12	ppb	92
78)	Naphthalene	23.05	128	109635	1.06	ppb	100
79)	Hexachloro-1,3-butadiene	23.17	225	81758	1.10	ppb	98

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062802.D Vial: 2
Acq On : 28 Jun 2022 9:23 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 12:53 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



Centek/SanAir Laboratories

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AT062904.D Vial: 4
Acq On : 29 Jun 2022 11:50 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	49#	0.00
2	T	Propylene	0.666	0.493	26.0	39#	0.00
3	T	Freon 12	4.608	4.992	-8.3	53	0.00
4	T	Chloromethane	1.128	1.423	-26.2	63	0.00
5	T	Freon 114	3.777	4.657	-23.3	62	0.00
6	T	Vinyl Chloride	1.086	1.345	-23.8	66	0.00
7	T	Butane	1.326	1.394	-5.1	57	0.00
8	T	1,3-butadiene	1.059	1.219	-15.1	59	0.00
9	T	Bromomethane	1.466	1.899	-29.5	69	0.00
10	T	Chloroethane	0.531	0.616	-16.0	63	0.00
11	T	Ethanol	0.363	0.329	9.4	42#	0.00
12	T	Acrolein	0.361	0.424	-17.5	61	0.00
13	T	Vinyl Bromide	1.523	1.996	-31.1#	67	0.00
14	T	Freon 11	5.703	6.987	-22.5	61	0.00
15	T	Acetone	0.582	0.648	-11.3	55	0.00
16	T	Pentane	0.943	1.102	-16.9	60	-0.01
17	T	Isopropyl alcohol	1.694	1.888	-11.5	58	-0.01
18	T	1,1-dichloroethene	1.195	1.133	5.2	47#	-0.01
19	T	Freon 113	2.845	2.831	0.5	49#	0.00
20	t	t-Butyl alcohol	1.898	1.815	4.4	46#	0.00
21	T	Methylene chloride	1.270	0.958	24.6	40#	0.00
22	T	Allyl chloride	1.139	0.854	25.0	36#	0.00
23	T	Carbon disulfide	3.781	3.064	19.0	44#	-0.01
24	T	trans-1,2-dichloroethene	1.734	1.519	12.4	42#	-0.01
25	T	methyl tert-butyl ether	2.838	2.865	-1.0	49#	0.00
26	T	1,1-dichloroethane	2.058	1.938	5.8	46#	0.00
27	T	Vinyl acetate	1.607	1.371	14.7	41#	0.00
28	T	Methyl Ethyl Ketone	0.495	0.445	10.1	42#	0.00
29	T	cis-1,2-dichloroethene	1.658	1.450	12.5	42#	0.00
30	T	Hexane	1.483	1.058	28.7	33#	0.00
31	T	Ethyl acetate	2.334	1.946	16.6	41#	0.00
32	T	Chloroform	3.135	3.213	-2.5	50	-0.01
33	T	Tetrahydrofuran	0.869	0.647	25.5	37#	-0.02
34	T	1,2-dichloroethane	2.366	2.435	-2.9	51	-0.01
35	I	1,4-difluorobenzene	1.000	1.000	0.0	46#	-0.01
36	T	1,1,1-trichloroethane	0.626	0.816	-30.4#	60	-0.01
37	T	Cyclohexane	0.303	0.244	19.5	37#	0.01
38	T	Carbon tetrachloride	0.666	1.126	-69.1#	78	0.00
39	T	Benzene	0.719	0.671	6.7	42#	-0.01
40	T	Methyl methacrylate	0.296	0.276	6.8	41#	0.00
41	T	1,4-dioxane	0.173	0.169	2.3	43#	0.00
42	T	2,2,4-trimethylpentane	0.945	0.791	16.3	38#	0.00
43	T	Heptane	0.338	0.240	29.0	32#	0.00
44	T	Trichloroethene	0.393	0.403	-2.5	48#	0.00
45	T	1,2-dichloropropane	0.236	0.203	14.0	39#	0.00
46	T	Bromodichloromethane	0.694	0.808	-16.4	53	0.00
47	T	cis-1,3-dichloropropene	0.376	0.417	-10.9	50	0.00
48	T	trans-1,3-dichloropropene	0.312	0.376	-20.5	54	-0.01
49	T	1,1,2-trichloroethane	0.323	0.338	-4.6	47#	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AT062904.D Vial: 4
Acq On : 29 Jun 2022 11:50 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	T	Toluene	0.591	0.567	4.1	43#	0.00
52	T	Methyl Isobutyl Ketone	0.528	0.384	27.3	33#	0.00
53	T	Dibromochloromethane	0.747	0.906	-21.3	59	0.00
54	T	Methyl Butyl Ketone	0.479	0.365	23.8	33#	0.00
55	T	1,2-dibromoethane	0.548	0.628	-14.6	53	0.00
56	T	Tetrachloroethylene	0.457	0.510	-11.6	52	0.00
57	T	Chlorobenzene	0.862	0.899	-4.3	49#	0.00
58	T	Ethylbenzene	1.366	1.342	1.8	45#	0.00
59	T	m&p-xylene	1.118	1.127	-0.8	46#	0.03
60	T	Nonane	0.569	0.415	27.1	33#	-0.02
61	T	Styrene	0.825	0.868	-5.2	47#	-0.02
62	T	Bromoform	0.666	1.021	-53.3#	70	-0.03
63	T	o-xylene	1.191	1.244	-4.5	48#	-0.01
64	T	Cumene	1.571	1.650	-5.0	48#	-0.04
65	S	Bromofluorobenzene	0.725	0.691	4.7	44#	-0.05
66	T	1,1,2,2-tetrachloroethane	0.705	0.705	0.0	46#	-0.04
67	T	Propylbenzene	0.432	0.474	-9.7	48#	-0.07
68	T	2-Chlorotoluene	0.412	0.464	-12.6	52	-0.07
69	T	4-ethyltoluene	1.548	1.597	-3.2	46#	-0.08
70	T	1,3,5-trimethylbenzene	1.382	1.419	-2.7	47#	-0.08
71	T	1,2,4-trimethylbenzene	1.345	1.339	0.4	45#	-0.10
72	T	1,3-dichlorobenzene	0.874	1.055	-20.7	54	-0.10
73	T	benzyl chloride	0.490	0.790	-61.2#	71	-0.11
74	T	1,4-dichlorobenzene	0.857	1.038	-21.1	54	-0.11
75	T	1,2,3-trimethylbenzene	1.380	1.436	-4.1	47#	-0.11
76	T	1,2-dichlorobenzene	0.826	0.977	-18.3	54	-0.12
77	T	1,2,4-trichlorobenzene	0.449	0.560	-24.7	55	-0.05
78	T	Naphthalene	1.044	1.307	-25.2	52	-0.05
79	T	Hexachloro-1,3-butadiene	0.751	0.952	-26.8	59	-0.06

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062904.D Vial: 4
Acq On : 29 Jun 2022 11:50 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 07:33:10 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.69	128	22745	1.00	ppb		0.00
35) 1,4-difluorobenzene	11.99	114	99706	1.00	ppb		-0.01
50) Chlorobenzene-d5	16.81	117	90451	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.56	95	62509	0.95	ppb		-0.05
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%				
Target Compounds							Qvalue
2) Propylene	4.08	41	11212m	0.74	ppb		
3) Freon 12	4.13	85	113532	1.08	ppb		99
4) Chloromethane	4.32	50	32372	1.26	ppb		99
5) Freon 114	4.32	85	105929m	1.23	ppb		
6) Vinyl Chloride	4.52	62	30597	1.24	ppb		100
7) Butane	4.61	43	31703	1.05	ppb		95
8) 1,3-butadiene	4.62	39	27724	1.15	ppb		99
9) Bromomethane	4.96	94	43198m	1.30	ppb		
10) Chloroethane	5.13	64	14009	1.16	ppb		97
11) Ethanol	5.22	45	7476	0.91	ppb	#	72
12) Acrolein	5.80	56	9644	1.17	ppb		94
13) Vinyl Bromide	5.47	106	45396m	1.31	ppb		
14) Freon 11	5.73	101	158927m	1.23	ppb		
15) Acetone	5.90	58	14747m	1.11	ppb		
16) Pentane	6.00	42	25065	1.17	ppb	#	3
17) Isopropyl alcohol	6.00	45	42939	1.11	ppb	#	1
18) 1,1-dichloroethene	6.49	96	25772	0.95	ppb		93
19) Freon 113	6.69	101	64391	1.00	ppb		99
20) t-Butyl alcohol	6.72	59	41284	0.96	ppb		93
21) Methylene chloride	6.95	84	21799	0.75	ppb		99
22) Allyl chloride	6.92	41	19430	0.75	ppb		99
23) Carbon disulfide	7.10	76	69696	0.81	ppb		100
24) trans-1,2-dichloroethene	7.88	61	34547	0.88	ppb		99
25) methyl tert-butyl ether	7.90	73	65169	1.01	ppb		100
26) 1,1-dichloroethane	8.30	63	44082	0.94	ppb		99
27) Vinyl acetate	8.29	43	31193	0.85	ppb		100
28) Methyl Ethyl Ketone	8.79	72	10132	0.90	ppb	#	100
29) cis-1,2-dichloroethene	9.24	61	32988	0.87	ppb		98
30) Hexane	8.84	57	24061	0.71	ppb	#	82
31) Ethyl acetate	9.39	43	44264	0.83	ppb		99
32) Chloroform	9.84	83	73078	1.02	ppb		99
33) Tetrahydrofuran	10.00	42	14725m	0.74	ppb		
34) 1,2-dichloroethane	10.96	62	55384	1.03	ppb		99
36) 1,1,1-trichloroethane	10.67	97	81335m	1.30	ppb		
37) Cyclohexane	11.39	56	24314	0.81	ppb	#	76
38) Carbon tetrachloride	11.32	117	112242	1.69	ppb		99
39) Benzene	11.28	78	66898	0.93	ppb		98
40) Methyl methacrylate	12.88	41	27558	0.93	ppb		97
41) 1,4-dioxane	12.89	88	16823	0.97	ppb		100
42) 2,2,4-trimethylpentane	12.16	57	78830	0.84	ppb		93
43) Heptane	12.51	43	23977	0.71	ppb		98
44) Trichloroethene	12.64	130	40197	1.03	ppb		96
45) 1,2-dichloropropane	12.75	63	20232	0.86	ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062904.D Vial: 4
Acq On : 29 Jun 2022 11:50 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 07:33:10 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

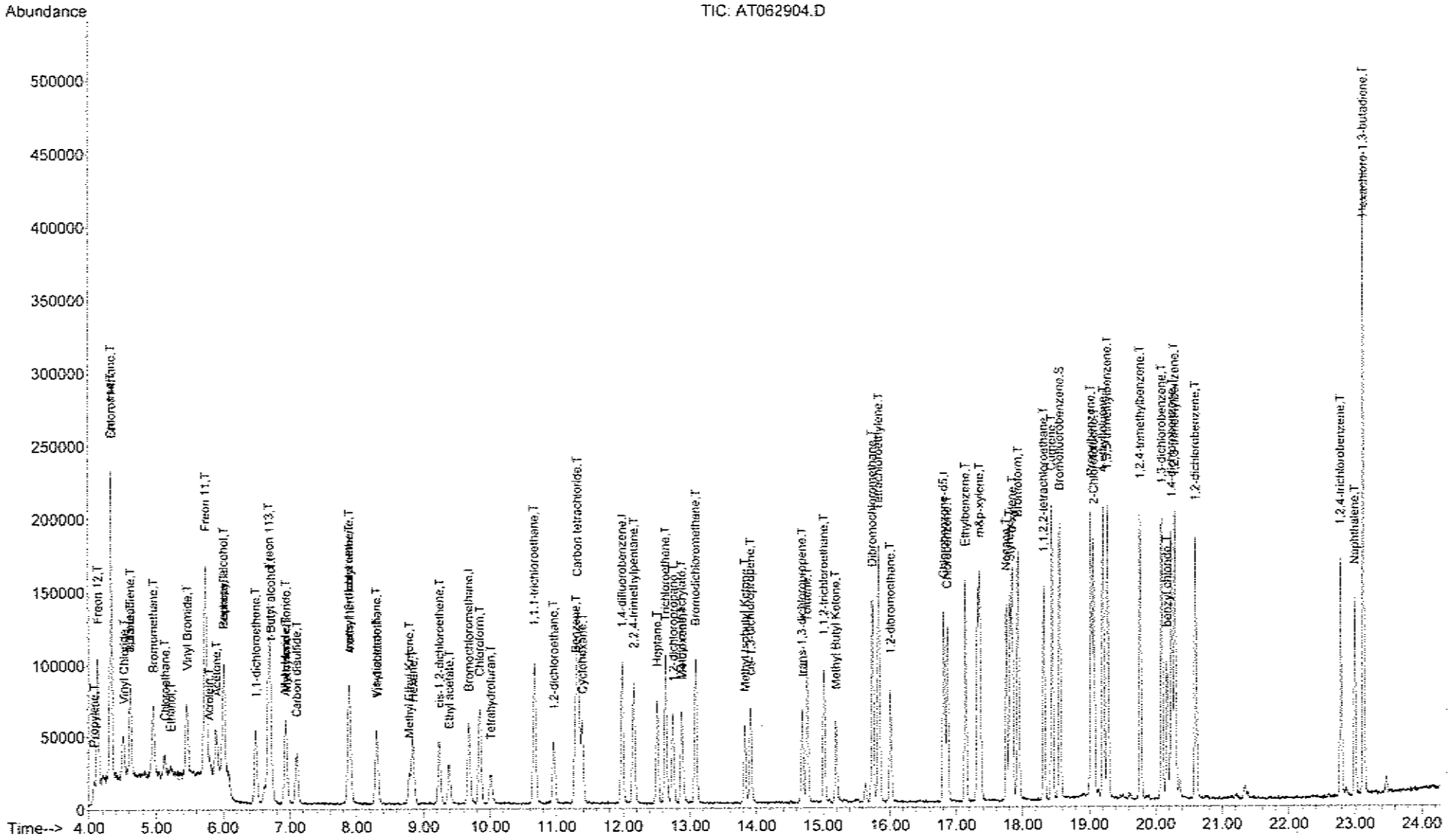
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	Bromodichloromethane	13.09	83	80603	1.16	ppb		100
47)	cis-1,3-dichloropropene	13.92	75	41623	1.11	ppb		99
48)	trans-1,3-dichloropropene	14.68	75	37489m	1.20	ppb		
49)	1,1,2-trichloroethane	15.02	97	33683	1.05	ppb		97
51)	Toluene	14.76	92	51252	0.96	ppb		99
52)	Methyl Isobutyl Ketone	13.83	43	34698	0.73	ppb		95
53)	Dibromochloromethane	15.75	129	81990m	1.21	ppb		
54)	Methyl Butyl Ketone	15.20	43	33043	0.76	ppb		98
55)	1,2-dibromoethane	16.02	107	56840	1.15	ppb		96
56)	Tetrachloroethylene	15.84	164	46106	1.11	ppb		99
57)	Chlorobenzene	16.87	112	81284	1.04	ppb		96
58)	Ethylbenzene	17.14	91	121421	0.98	ppb		99
59)	m&p-xylene	17.36	91	203893	2.02	ppb		98
60)	Nonane	17.76	43	37497	0.73	ppb		96
61)	Styrene	17.82	104	78497	1.05	ppb		98
62)	Bromoform	17.93	173	92339	1.53	ppb		97
63)	o-xylene	17.85	91	112547	1.04	ppb		99
64)	Cumene	18.45	105	149213	1.05	ppb		98
66)	1,1,2,2-tetrachloroethane	18.33	83	63725	1.00	ppb		97
67)	Propylbenzene	19.03	120	42834	1.10	ppb		91
68)	2-Chlorotoluene	19.07	126	41966	1.13	ppb	#	83
69)	4-ethyltoluene	19.21	105	144470m	1.03	ppb		
70)	1,3,5-trimethylbenzene	19.28	105	128321	1.03	ppb		99
71)	1,2,4-trimethylbenzene	19.77	105	121139	1.00	ppb		99
72)	1,3-dichlorobenzene	20.10	146	95400m	1.21	ppb		
73)	benzyl chloride	20.17	91	71465	1.61	ppb		98
74)	1,4-dichlorobenzene	20.25	146	93927	1.21	ppb		99
75)	1,2,3-trimethylbenzene	20.29	105	129876	1.04	ppb		98
76)	1,2-dichlorobenzene	20.60	146	88363	1.18	ppb		99
77)	1,2,4-trichlorobenzene	22.79	180	50685m	1.25	ppb		
78)	Naphthalene	23.00	128	118200	1.25	ppb		98
79)	Hexachloro-1,3-butadiene	23.12	225	86065m	1.27	ppb		

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062904.D Vial: 4
Acq On : 29 Jun 2022 11:50 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 7:50 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



Centek/SanAir Laboratories

GC/MS VOLATILES-WHOLE AIR

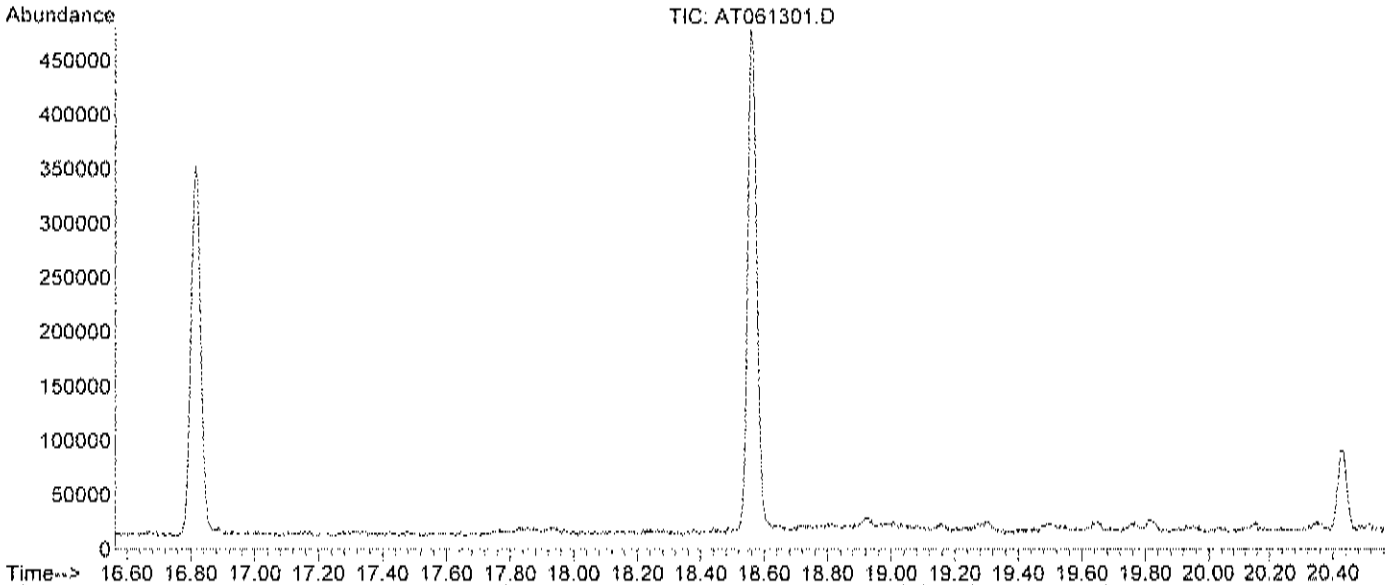
METHOD TO-15

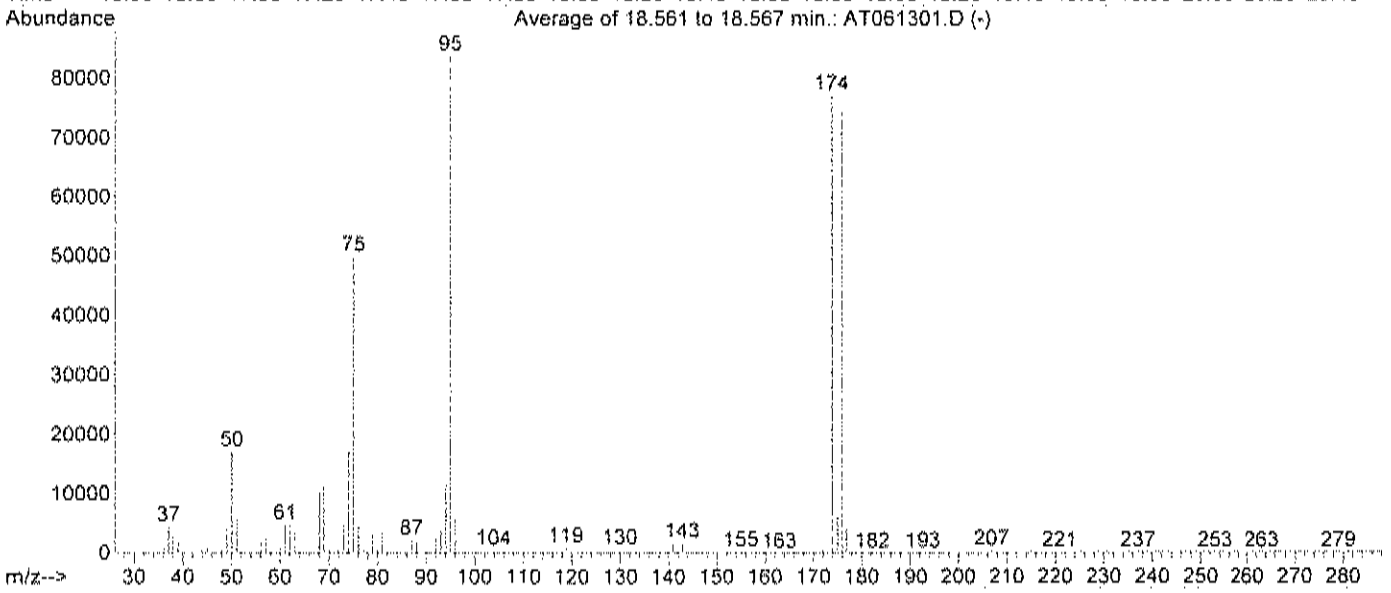
RAW DATA

BFB

Data File : C:\HPCHEM\1\DATA\AT061301.D
Acq On : 13 Jun 2022 12:49 pm
Sample : BFB1UG
Misc : A613_1UG
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00





Spectrum Information: Average of 18.561 to 18.567 min.

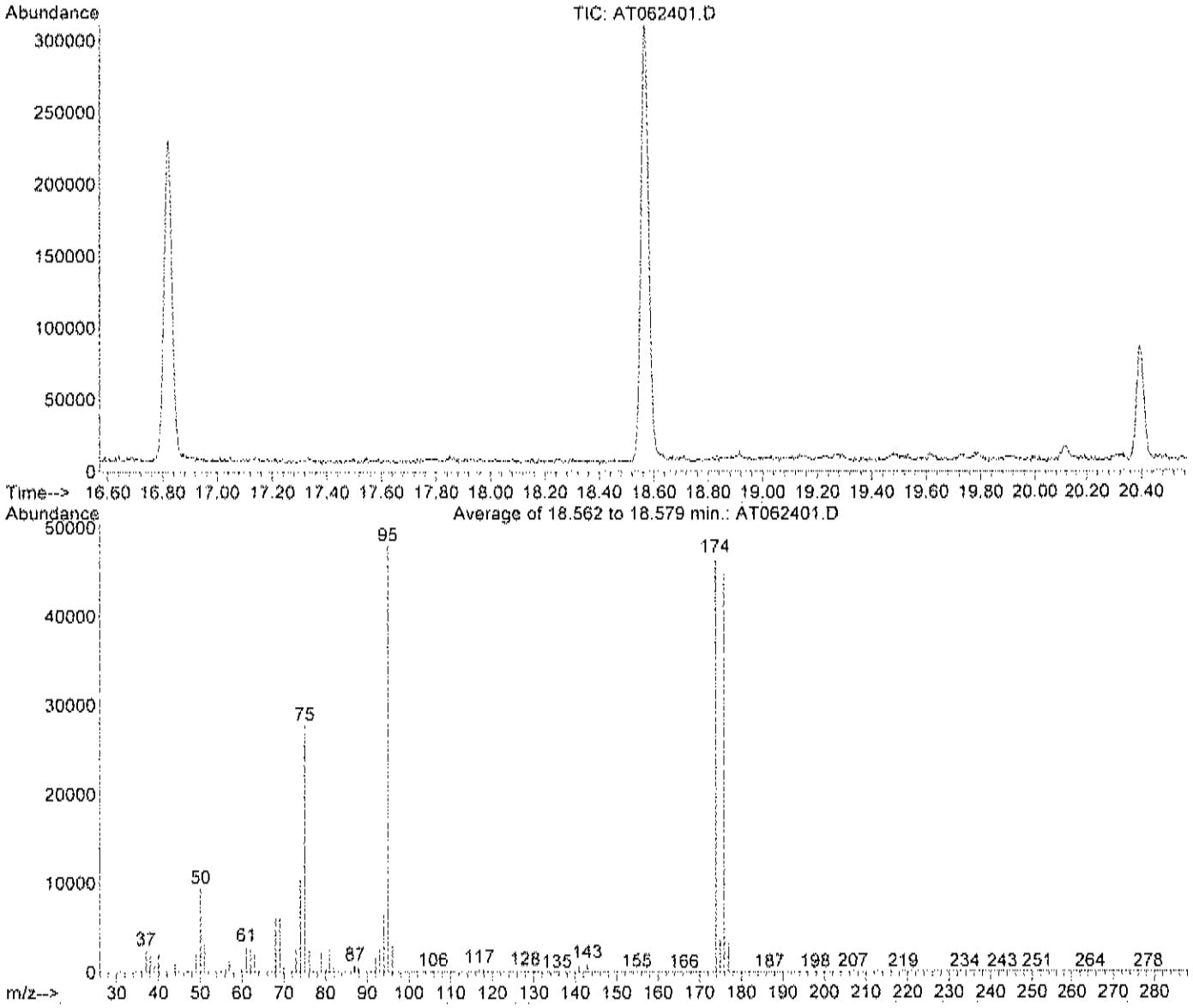
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.5	17194	PASS
75	95	30	66	59.6	49936	PASS
95	95	100	100	100.0	83768	PASS
96	95	5	9	6.8	5685	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	92.0	77106	PASS
175	174	4	9	7.9	6064	PASS
176	174	95	101	96.3	74280	PASS
177	176	5	9	6.0	4483	PASS

AT061301.D A613_1UG.M Thu Jul 07 07:54:32 2022 MSD1

BFB

Data File : C:\HPCHEM\1\DATA\AT062401.D
Acq On : 24 Jun 2022 7:49 am
Sample : BFB1UG
Misc : A613_1UG
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 1
Operator: RJP
Inst : MSD #1
Multiplr: 1.00



Spectrum Information: Average of 18.562 to 18.579 min.

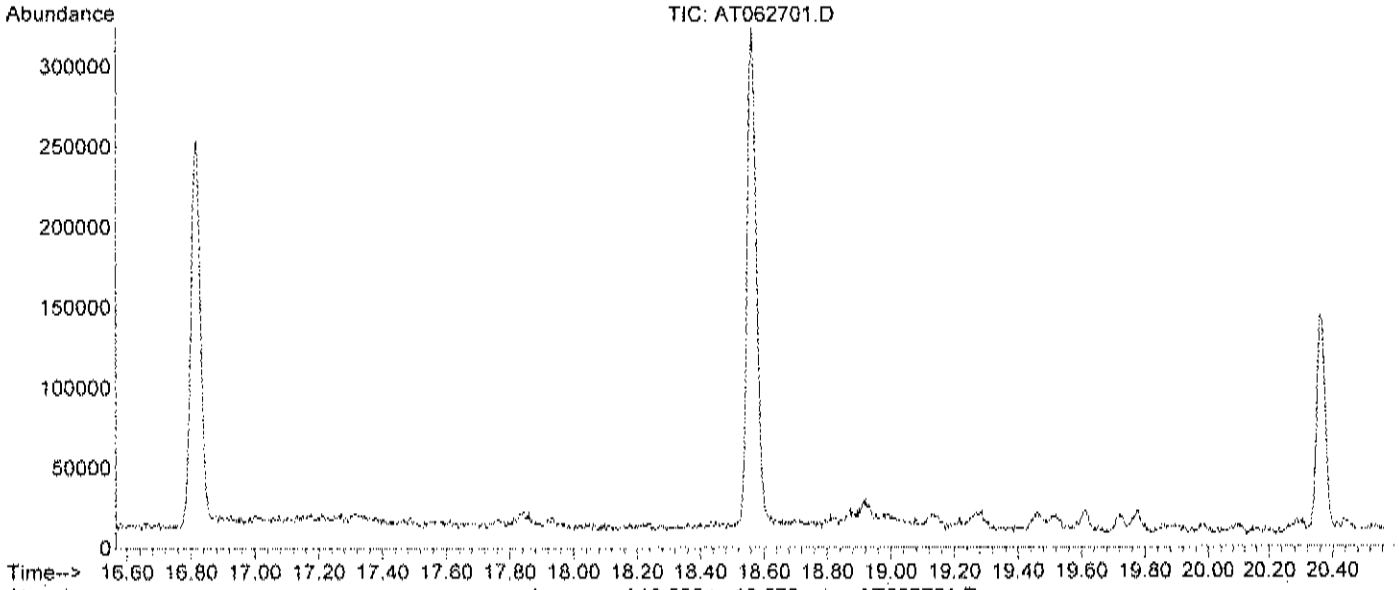
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.9	9538	PASS
75	95	30	66	58.1	27886	PASS
95	95	100	100	100.0	47992	PASS
96	95	5	9	6.5	3143	PASS
173	174	0.00	2	0.1	50	PASS
174	95	50	120	97.3	46684	PASS
175	174	4	9	7.5	3497	PASS
176	174	95	101	96.7	45163	PASS
177	176	5	9	7.2	3261	PASS

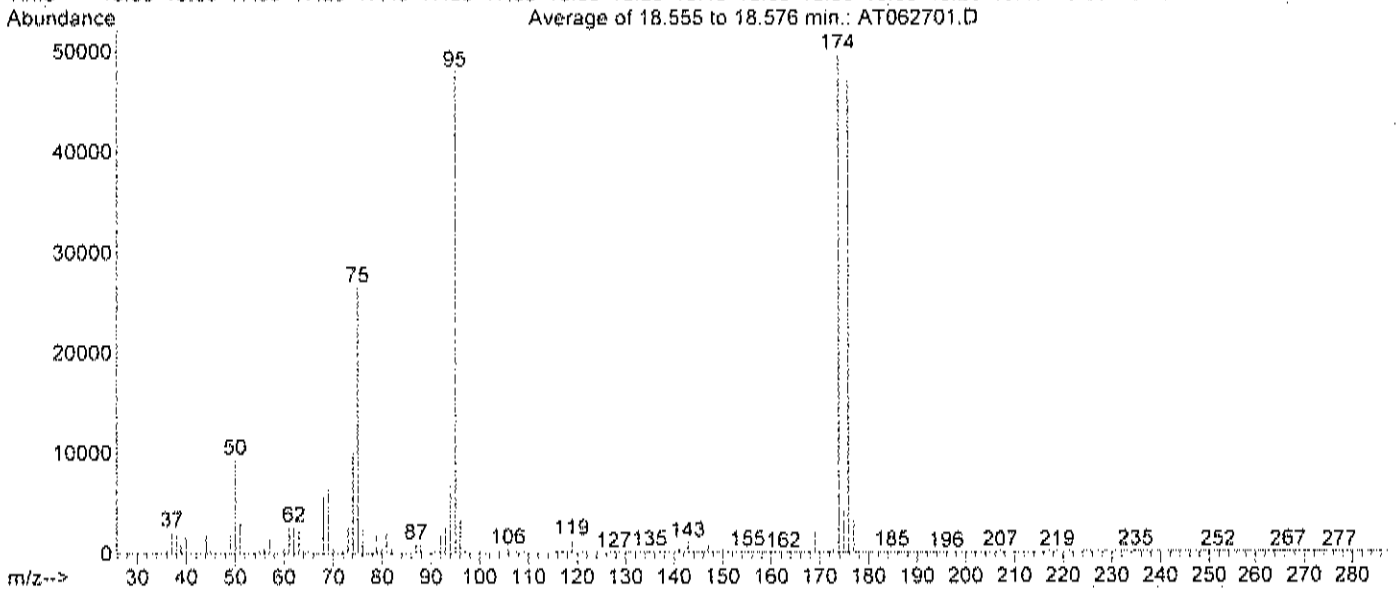
AT062401.D A613_1UG.M Thu Jul 07 07:56:32 2022 MSD1

BFB

Data File : C:\HPCHEM\1\DATA\AT062701.D
Acq On : 27 Jun 2022 8:22 am
Sample : BFB1UG
Misc : A613_1UG
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 1
Operator: RJP
Inst : MSD #1
Multiplr: 1.00





Spectrum Information: Average of 18.555 to 18.576 min.

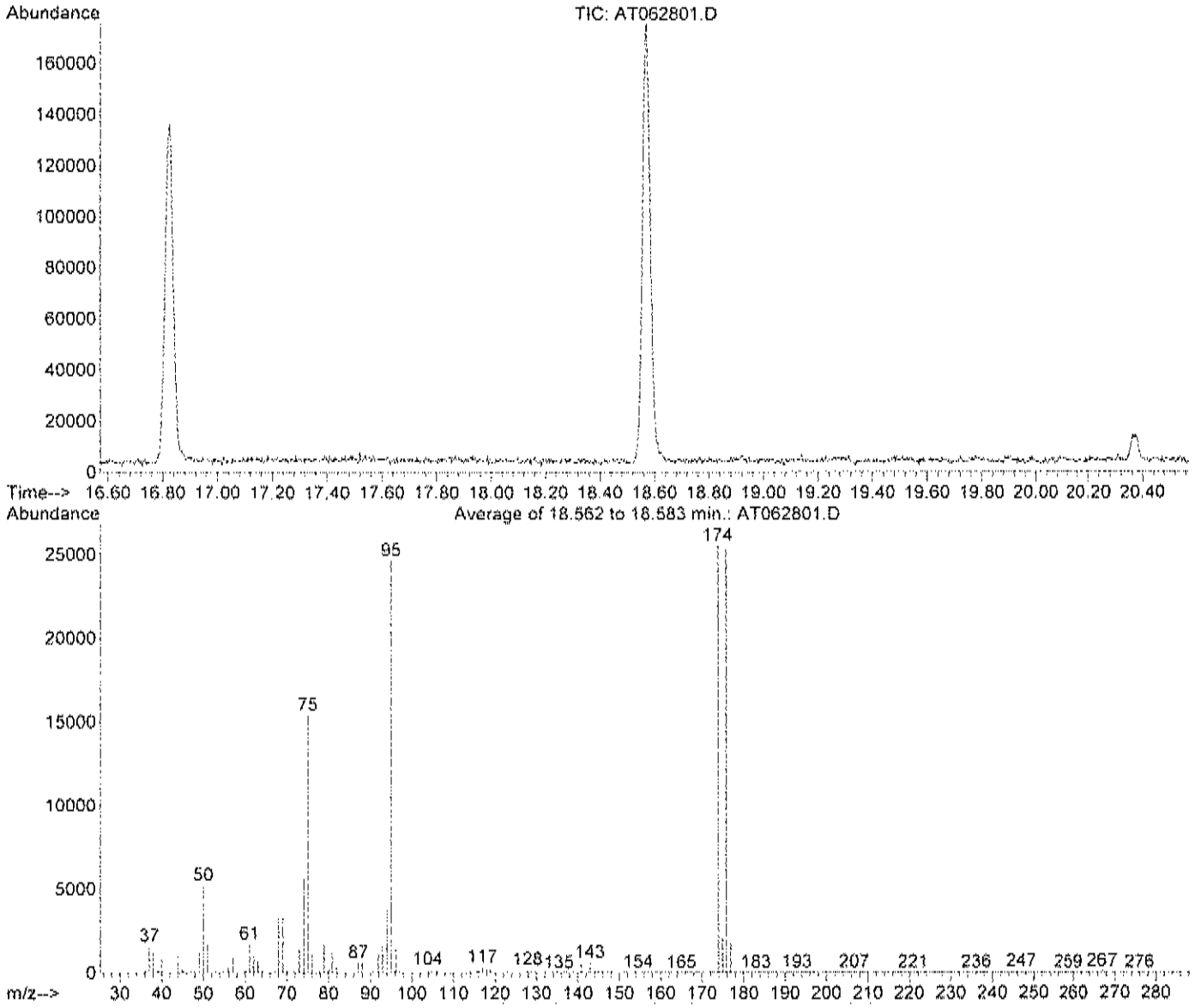
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.5	9372	PASS
75	95	30	66	55.2	26532	PASS
95	95	100	100	100.0	48030	PASS
96	95	5	9	7.0	3343	PASS
173	174	0.00	2	0.9	425	PASS
174	95	50	120	103.3	49627	PASS
175	174	4	9	8.2	4082	PASS
176	174	95	101	95.4	47340	PASS
177	176	5	9	7.0	3311	PASS

AT062701.D A613_1UG.M Thu Jul 07 07:59:49 2022 MSD1

BFB

Data File : C:\HPCHEM\1\DATA\AT062801.D
Acq On : 28 Jun 2022 8:33 am
Sample : BFB1UG
Misc : A613_1UG
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 1
Operator: RJP
Inst : MSD #1
Multiplr: 1.00



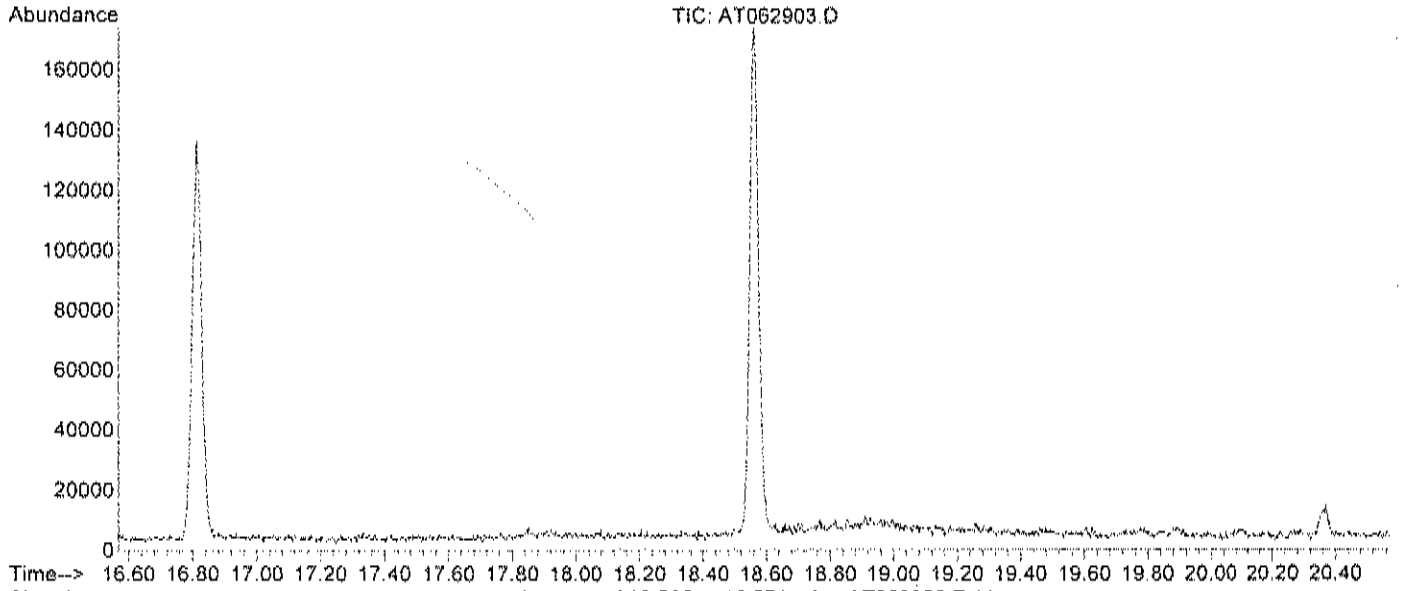
Spectrum Information: Average of 18.562 to 18.583 min.

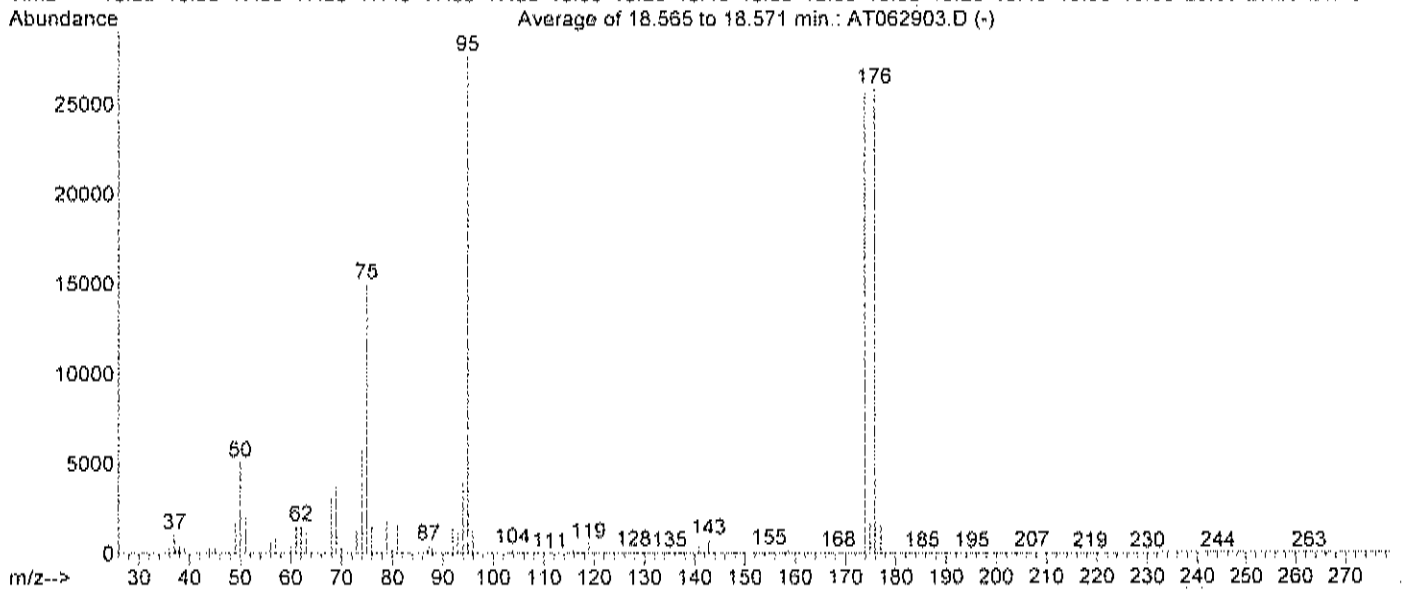
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.3	5256	PASS
75	95	30	66	62.7	15443	PASS
95	95	100	100	100.0	24642	PASS
96	95	5	9	5.9	1466	PASS
173	174	0.00	2	0.5	117	PASS
174	95	50	120	103.6	25534	PASS
175	174	4	9	7.9	2024	PASS
176	174	95	101	99.4	25377	PASS
177	176	5	9	7.1	1807	PASS

AT062801.D A613_1UG.M Thu Jul 07 08:02:08 2022 MSD1

BFB

Data File : C:\HPCHEM\1\DATA\AT062903.D Vial: 3
Acq On : 29 Jun 2022 10:57 am Operator: RJP
Sample : BFB1UG Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration





Spectrum Information: Average of 18.565 to 18.571 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.4	5111	PASS
75	95	30	66	54.3	15045	PASS
95	95	100	100	100.0	27722	PASS
96	95	5	9	5.6	1548	PASS
173	174	0.00	2	0.6	144	PASS
174	95	50	120	92.7	25690	PASS
175	174	4	9	6.6	1701	PASS
176	174	95	101	100.8	25906	PASS
177	176	5	9	6.2	1617	PASS

AT062903.D A613_1UG.M Thu Jul 07 08:04:11 2022 MSD1

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW QC DATA

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 0.20_NYS

Sample ID: **AMB1UG-062422** SampType: **MBLK** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **19132**
Client ID: **ZZZZZ** Batch ID: **R19132** TestNo: **TO-15** Analysis Date: **6/24/2022** SeqNo: **218342**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.040	0.040									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Centek/SanAir Laboratories

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 0.20_NYS

Sample ID: **AMB1UG-062422** SampType: **MBLK** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **19132**
Client ID: **ZZZZZ** Batch ID: **R19132** TestNo: **TO-15** Analysis Date: **6/24/2022** SeqNo: **218342**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.030	0.030									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.040	0.040									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.15	0.15									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	0.6900	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Sample ID: **AMB1UG-062422** SampType: **MBLK** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **19132**
Client ID: **ZZZZZ** Batch ID: **R19132** TestNo: **TO-15** Analysis Date: **6/24/2022** SeqNo: **218342**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.030	0.030									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.040	0.040									

Sample ID: **AMB1UG-062822** SampType: **MBLK** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **19134**
Client ID: **ZZZZZ** Batch ID: **R19134** TestNo: **TO-15** Analysis Date: **6/28/2022** SeqNo: **218382**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.040	0.040									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 0.20_NYS

Sample ID: AMB1UG-062822	SampType: MBLK	TestCode: 0.20_NYS	Units: ppbV	Prep Date:		RunNo: 19134	
Client ID: ZZZZZ	Batch ID: R19134	TestNo: TO-15		Analysis Date: 6/28/2022		SeqNo: 218382	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.030	0.030									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.040	0.040									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.15	0.15									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Centek/SanAir Laboratories

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 0.20_NYS

Sample ID: AMB1UG-062822	SampType: MBLK	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 19134
Client ID: ZZZZZ	Batch ID: R19134	TestNo: TO-15		Analysis Date: 6/28/2022	SeqNo: 218382

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	0.5900	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.030	0.030									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.040	0.040									

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Centek/SanAir Laboratories

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: **AMB1UG-062722** SampType: **MBLK** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **19133**
Client ID: **ZZZZZ** Batch ID: **R19133** TestNo: **TO-15** Analysis Date: **6/27/2022** SeqNo: **218368**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									

Qualifiers:
- . Results reported are not blank corrected
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: **AMB1UG-062722** SampType: **MBLK** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **19133**
Client ID: **ZZZZZ** Batch ID: **R19133** TestNo: **TO-15** Analysis Date: **6/27/2022** SeqNo: **218368**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.15	0.15									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									

Qualifiers:
- `-` Results reported are not blank corrected
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Centek/SanAir Laboratories

Sample ID: AMB1UG-062722	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 19133
Client ID: ZZZZZ	Batch ID: R19133	TestNo: TO-15		Analysis Date: 6/27/2022	SeqNo: 218368

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	< 0.15	0.15									

Sample ID: AMB1UG-062922	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 19135
Client ID: ZZZZZ	Batch ID: R19135	TestNo: TO-15		Analysis Date: 6/29/2022	SeqNo: 218405

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: AMB1UG-062922	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 19135
Client ID: ZZZZZ	Batch ID: R19135	TestNo: TO-15		Analysis Date: 6/29/2022	SeqNo: 218405

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.15	0.15									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									

Qualifiers:

- `-` Results reported are not blank corrected
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- DL Detection Limit
- J Analyte detected below quantitation limit
- S Spike Recovery outside accepted recovery limits
- E Estimated Value above quantitation range
- ND Not Detected at the Limit of Detection

Centek/SanAir Laboratories

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: **AMB1UG-062922** SampType: **MBLK** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **19135**
Client ID: **ZZZZZ** Batch ID: **R19135** TestNo: **TO-15** Analysis Date: **6/29/2022** SeqNo: **218405**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Qualifiers:
. Results reported are not blank corrected
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
DL Detection Limit
J Analyte detected below quantitation limit
S Spike Recovery outside accepted recovery limits
E Estimated Value above quantitation range
ND Not Detected at the Limit of Detection

Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062404.D Vial: 4
Acq On : 24 Jun 2022 10:50 am Operator: RJP
Sample : AMB1UG-062422 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 24 11:29:42 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.70	128	34972	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.00	114	157383	1.00	ppb	0.00
50) Chlorobenzene-d5	16.82	117	139011	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.57	95	89164	0.89	ppb	-0.04
Spiked Amount 1.000	Range 70 - 130		Recovery = 89.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AT062404.D A613_1UG.M Thu Jul 07 07:44:20 2022 MSD1 Page 1

Quantitation Report (QT Reviewed)

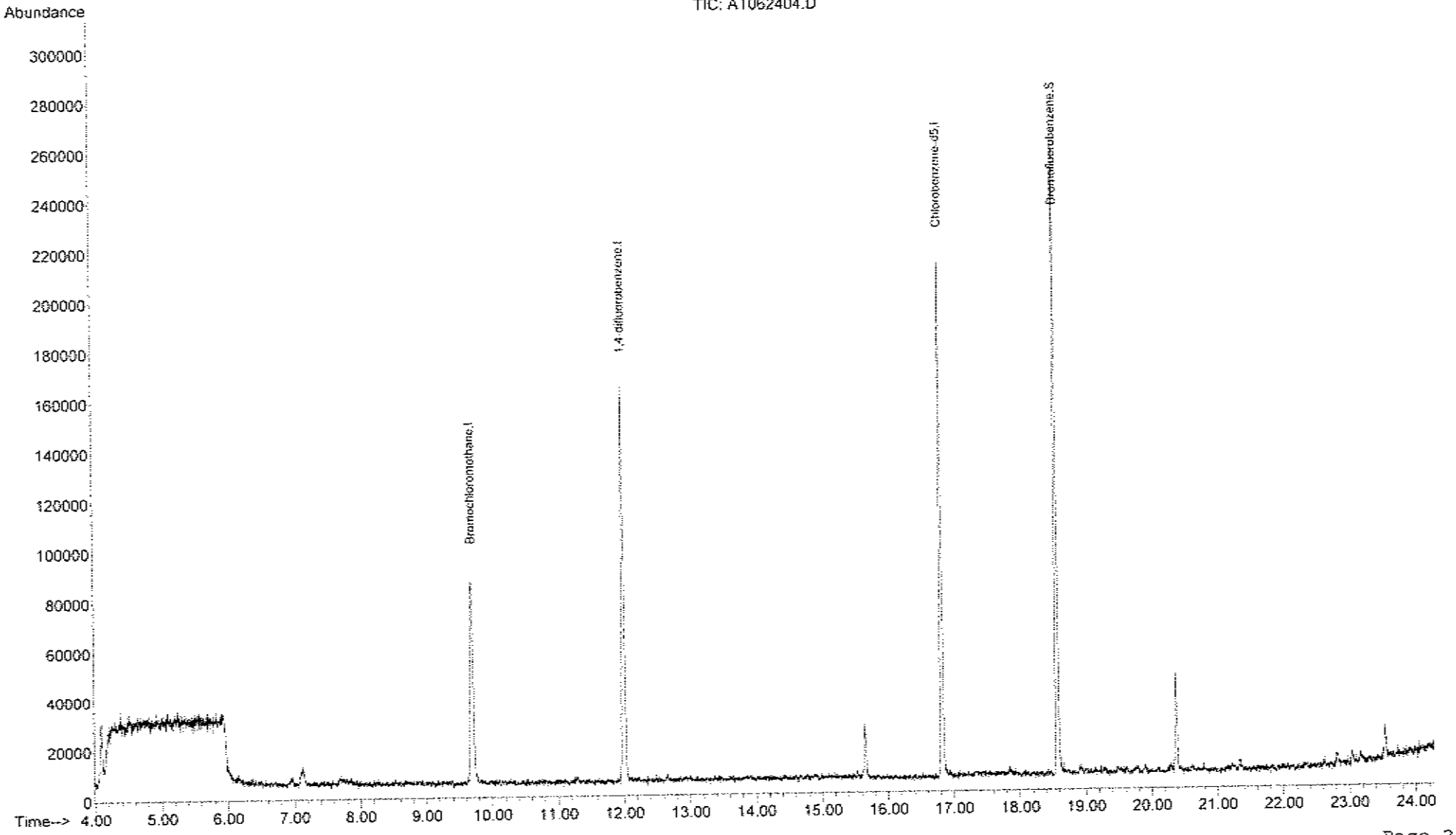
Data File : C:\HPCHEM\1\DATA\AT062404.D
Acq On : 24 Jun 2022 10:50 am
Sample : AMB1UG-062422
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 28 12:59 2022

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration

TIC: AT062404.D



AT062404.D A613_1UG.M Thu Jul 07 07:44:21 2022 MSD1

Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062804.D Vial: 4
Acq On : 28 Jun 2022 10:47 am Operator: RJP
Sample : AMB1UG-062822 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 11:18:58 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

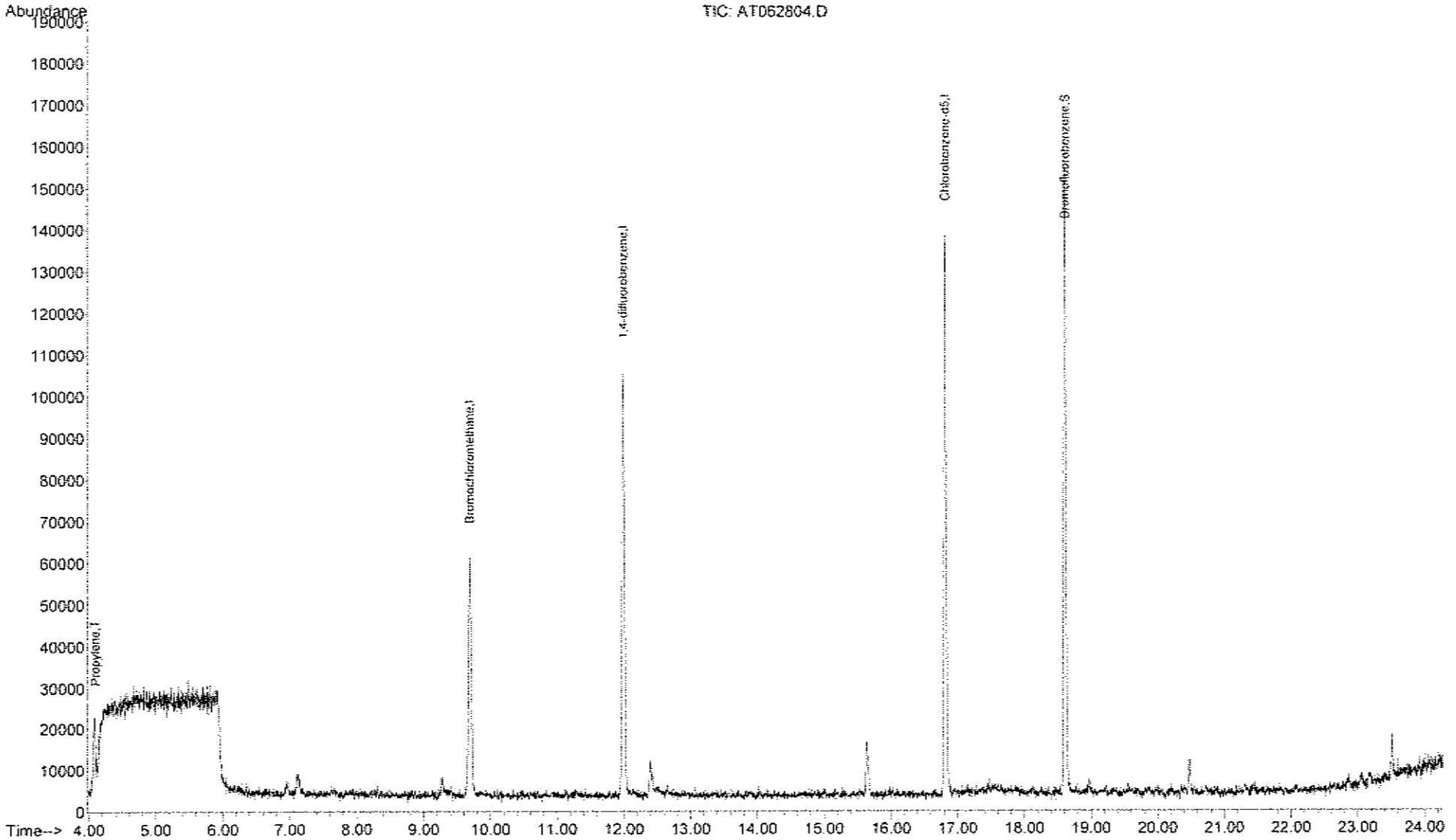
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.69	128	23672	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.00	114	104814	1.00	ppb	0.00
50) Chlorobenzene-d5	16.82	117	90080	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.61	95	52058	0.80	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 80.00%			
Target Compounds						Qvalue
2) Propylene	4.09	41	9243m	0.59	ppb	

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062804.D Vial: 4
Acq On : 28 Jun 2022 10:47 am Operator: RJP
Sample : AMB1UG-062822 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 29 7:39 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062704.D Vial: 4
Acq On : 27 Jun 2022 10:38 am Operator: RJP
Sample : AMB1UG-062722 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 07:18:23 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

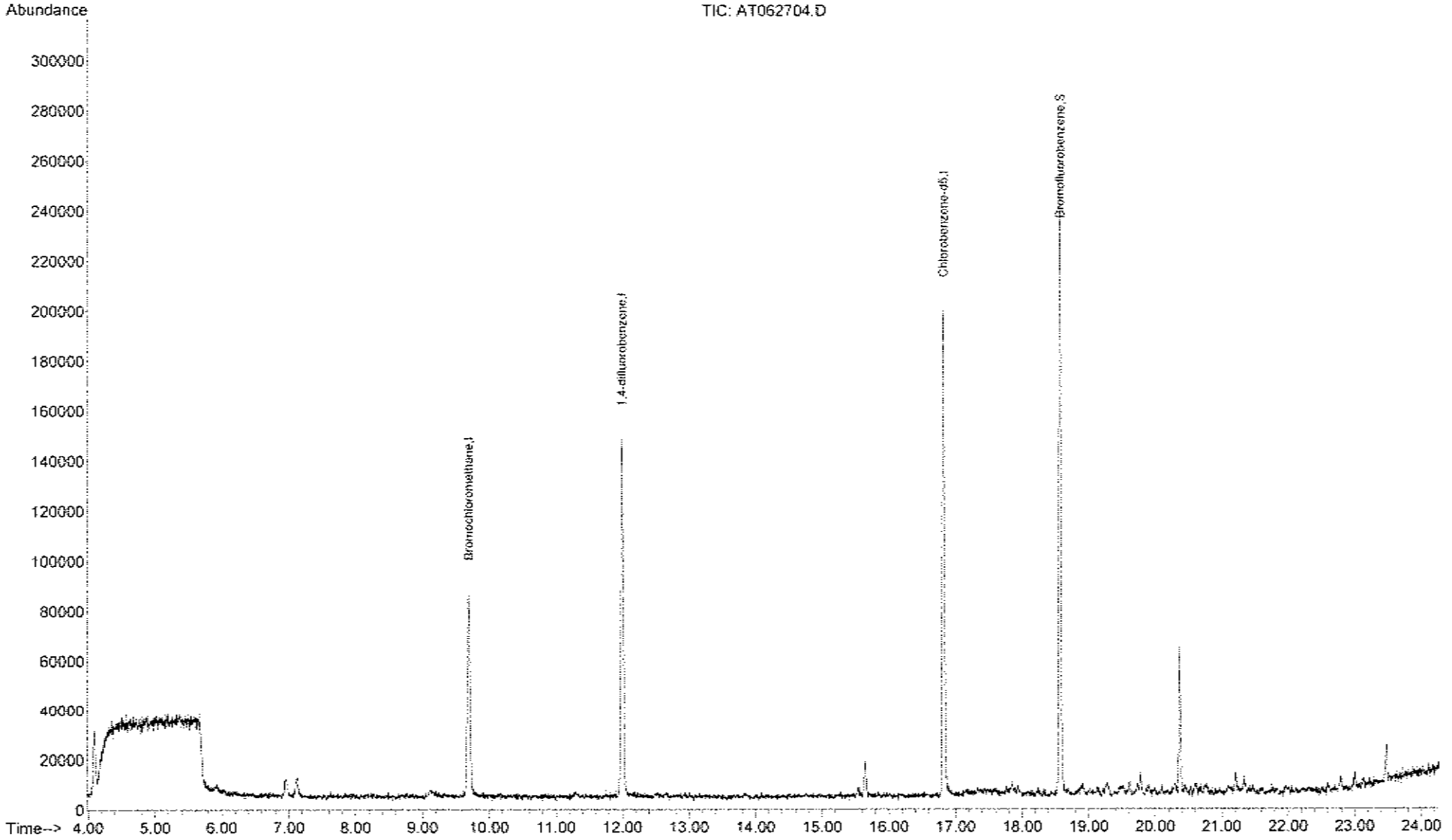
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.70	128	35284	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.00	114	153480	1.00	ppb	0.00
50) Chlorobenzene-d5	16.82	117	136101	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.56	95	87499	0.89	ppb	-0.05
Spiked Amount 1.000	Range 70 - 130		Recovery = 89.00%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062704.D Vial: 4
Acq On : 27 Jun 2022 10:38 am Operator: RJP
Sample : AMB1UG-062722 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 7:29 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



AT062704.D A613_1UG.M Thu Jul 07 07:44:40 2022 MSD1 Page 2

Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062906.D Vial: 6
Acq On : 29 Jun 2022 1:34 pm Operator: RJP
Sample : AMB1UG-062922 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 07:33:12 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

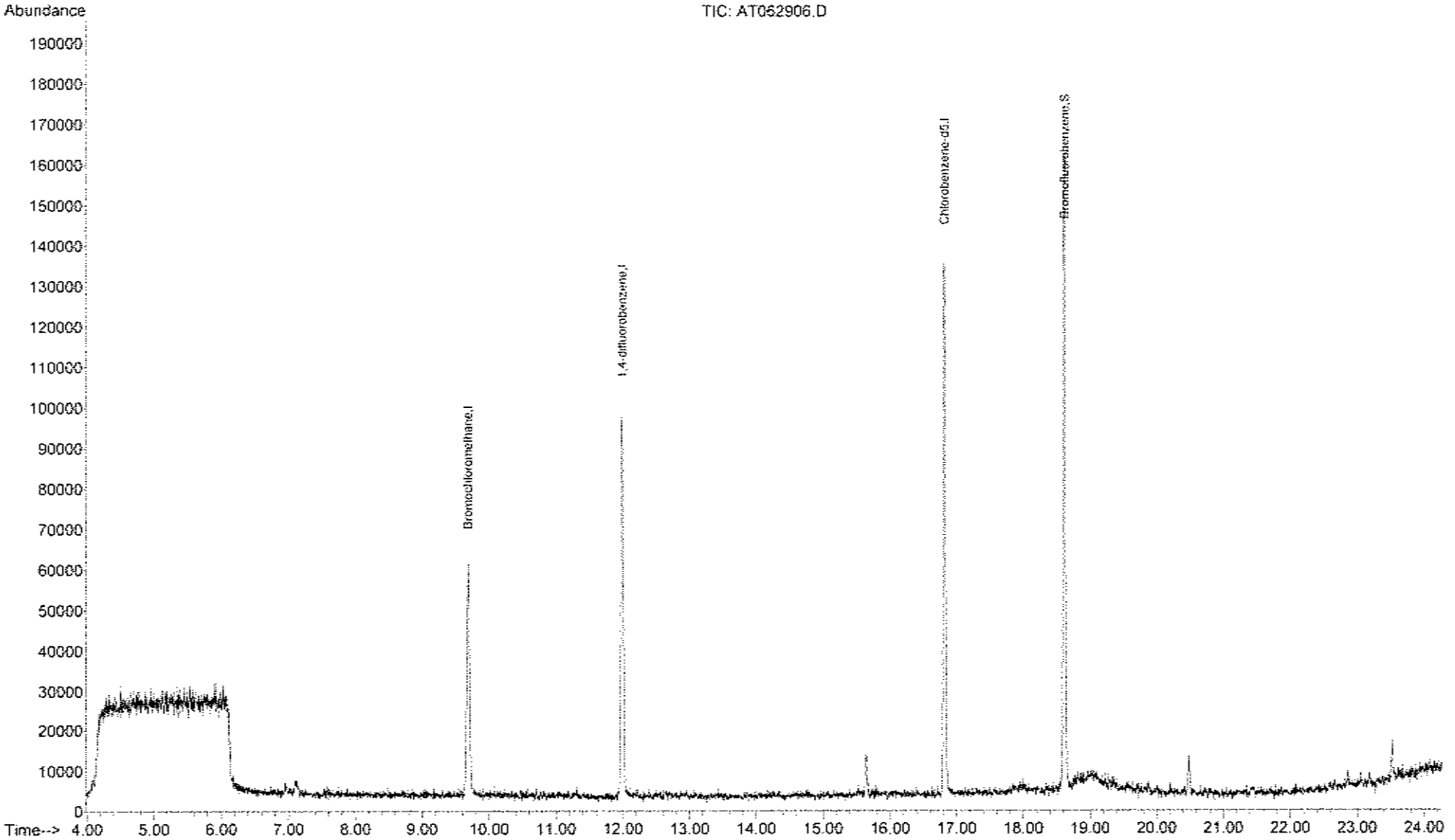
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.69	128	24333	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.00	114	97108	1.00	ppb	0.00
50) Chlorobenzene-d5	16.82	117	90506	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.62	95	55428	0.85	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 85.00%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062906.D Vial: 6
Acq On : 29 Jun 2022 1:34 pm Operator: RJP
Sample : AMB1UG-062922 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 7:52 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



Centek/SanAir Laboratories

CENTEK LABORATORIES, LLC

Date: *07-Jul-22*

ANALYTICAL QC SUMMARY REPORT

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 0.20_NYS

Sample ID: **ALCS1UG-062422** SampType: **LCS** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **19132**
Client ID: **ZZZZZ** Batch ID: **R19132** TestNo: **TO-15** Analysis Date: **6/24/2022** SeqNo: **218343**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.450	0.15	1	0	145	91.3	127				S
1,1,2,2-Tetrachloroethane	1.180	0.15	1	0	118	78.7	121				
1,1,2-Trichloroethane	1.110	0.15	1	0	111	88.1	136				
1,1-Dichloroethane	1.040	0.15	1	0	104	86.1	123				
1,1-Dichloroethene	1.040	0.040	1	0	104	70	94				S
1,2,4-Trichlorobenzene	1.680	0.15	1	0	168	76.7	112				S
1,2,4-Trimethylbenzene	1.220	0.15	1	0	122	74.3	123				
1,2-Dibromoethane	1.260	0.15	1	0	126	80.4	125				S
1,2-Dichlorobenzene	1.350	0.15	1	0	135	79.5	143				
1,2-Dichloroethane	1.090	0.15	1	0	109	70.9	133				
1,2-Dichloropropane	1.070	0.15	1	0	107	91	134				
1,3,5-Trimethylbenzene	1.190	0.15	1	0	119	77.4	138				
1,3-butadiene	1.120	0.15	1	0	112	71	144				
1,3-Dichlorobenzene	1.290	0.15	1	0	129	84.7	128				S
1,4-Dichlorobenzene	1.340	0.15	1	0	134	77.9	131				S
1,4-Dioxane	1.440	0.30	1	0	144	60.9	133				S
2,2,4-trimethylpentane	1.030	0.15	1	0	103	86.9	126				
4-ethyltoluene	1.220	0.15	1	0	122	77.5	133				
Acetone	1.200	0.30	1	0	120	46.7	165				
Allyl chloride	0.9100	0.15	1	0	91.0	86.6	117				
Benzene	1.060	0.15	1	0	106	88.9	122				
Benzyl chloride	1.940	0.15	1	0	194	73.6	120				S
Bromodichloromethane	1.220	0.15	1	0	122	84.3	133				
Bromoform	1.550	0.15	1	0	155	44.6	149				S
Bromomethane	1.200	0.15	1	0	120	78.7	144				

Qualifiers:
- . Results reported are not blank corrected
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Sample ID: ALCS1UG-062422 SampType: LCS TestCode: 0.20_NYS Units: ppbV Prep Date: RunNo: 19132
Client ID: ZZZZZ Batch ID: R19132 TestNo: TO-15 Analysis Date: 6/24/2022 SeqNo: 218343

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.9200	0.15	1	0	92.0	76.9	109				
Carbon tetrachloride	1.650	0.030	1	0	165	71	120				S
Chlorobenzene	1.180	0.15	1	0	118	82.6	121				
Chloroethane	1.140	0.15	1	0	114	67.1	146				
Chloroform	1.140	0.15	1	0	114	82.5	125				
Chloromethane	1.230	0.15	1	0	123	71.1	154				
cis-1,2-Dichloroethene	1.020	0.040	1	0	102	71.2	112				
cis-1,3-Dichloropropene	1.310	0.15	1	0	131	90.3	137				
Cyclohexane	1.000	0.15	1	0	100	87	122				
Dibromochloromethane	1.430	0.15	1	0	143	62.8	132				S
Ethyl acetate	1.220	0.15	1	0	122	86.9	134				
Ethylbenzene	1.170	0.15	1	0	117	76.9	123				
Freon 11	1.240	0.15	1	0	124	54.4	150				
Freon 113	1.110	0.15	1	0	111	83.4	124				
Freon 114	1.240	0.15	1	0	124	70.2	133				
Freon 12	1.110	0.15	1	0	111	86.3	135				
Heptane	0.9500	0.15	1	0	95.0	86.5	137				
Hexachloro-1,3-butadiene	1.480	0.15	1	0	148	78.7	120				S
Hexane	0.9200	0.15	1	0	92.0	77.3	128				
Isopropyl alcohol	1.120	0.15	1	0	112	80.2	122				
m&p-Xylene	2.340	0.30	2	0	117	77.9	132				
Methyl Butyl Ketone	1.710	0.30	1	0	171	69.4	131				S
Methyl Ethyl Ketone	1.260	0.30	1	0	126	71.5	117				S
Methyl Isobutyl Ketone	1.400	0.30	1	0	140	63.5	141				
Methyl tert-butyl ether	1.190	0.15	1	0	119	80.8	113				S
Methylene chloride	0.8700	0.15	1	0	87.0	87.8	123				S
o-Xylene	1.150	0.15	1	0	115	80.5	139				
Propylene	1.440	0.15	1	0.69	75.0	73.8	124				B
Styrene	1.200	0.15	1	0	120	82.7	138				
Tetrachloroethylene	1.210	0.15	1	0	121	85.9	122				
Tetrahydrofuran	1.080	0.15	1	0	108	65.5	134				

Qualifiers:
. Results reported are not blank corrected
DL Detection Limit
E Estimated Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Centek/SanAir Laboratories

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 0.20_NYS

Sample ID: **ALCS1UG-062422** SampType: **LCS** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **19132**
Client ID: **ZZZZZ** Batch ID: **R19132** TestNo: **TO-15** Analysis Date: **6/24/2022** SeqNo: **218343**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.140	0.15	1	0	114	77.8	127				
trans-1,2-Dichloroethene	1.040	0.15	1	0	104	83.3	116				
trans-1,3-Dichloropropene	1.600	0.15	1	0	160	84.8	134				S
Trichloroethene	1.200	0.030	1	0	120	79.3	117				S
Vinyl acetate	0.9700	0.15	1	0	97.0	70.5	101				
Vinyl Bromide	1.290	0.15	1	0	129	81.4	142				
Vinyl chloride	1.170	0.040	1	0	117	70.4	138				

Sample ID: **ALCS1UG-062822** SampType: **LCS** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **19134**
Client ID: **ZZZZZ** Batch ID: **R19134** TestNo: **TO-15** Analysis Date: **6/28/2022** SeqNo: **218383**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.210	0.15	1	0	121	91.3	127				
1,1,2,2-Tetrachloroethane	0.8300	0.15	1	0	83.0	78.7	121				
1,1,2-Trichloroethane	0.8400	0.15	1	0	84.0	88.1	136				S
1,1-Dichloroethane	0.8200	0.15	1	0	82.0	86.1	123				S
1,1-Dichloroethene	0.7900	0.040	1	0	79.0	70	94				
1,2,4-Trichlorobenzene	1.010	0.15	1	0	101	76.7	112				
1,2,4-Trimethylbenzene	0.8700	0.15	1	0	87.0	74.3	123				
1,2-Dibromoethane	0.9400	0.15	1	0	94.0	80.4	125				
1,2-Dichlorobenzene	0.9600	0.15	1	0	96.0	79.5	143				
1,2-Dichloroethane	0.9000	0.15	1	0	90.0	70.9	133				
1,2-Dichloropropane	0.7700	0.15	1	0	77.0	91	134				S
1,3,5-Trimethylbenzene	0.8800	0.15	1	0	88.0	77.4	138				
1,3-butadiene	1.020	0.15	1	0	102	71	144				
1,3-Dichlorobenzene	0.9100	0.15	1	0	91.0	84.7	128				
1,4-Dichlorobenzene	0.9700	0.15	1	0	97.0	77.9	131				
1,4-Dioxane	0.9300	0.30	1	0	93.0	60.9	133				
2,2,4-trimethylpentane	0.7200	0.15	1	0	72.0	86.9	126				S
4-ethyltoluene	0.8700	0.15	1	0	87.0	77.5	133				

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 0.20_NYS

Sample ID: ALCS1UG-062822 SampType: LCS TestCode: 0.20_NYS Units: ppbV Prep Date: RunNo: 19134
Client ID: ZZZZZ Batch ID: R19134 TestNo: TO-15 Analysis Date: 6/28/2022 SeqNo: 218383

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	1.100	0.30	1	0	110	46.7	165				
Allyl chloride	0.7400	0.15	1	0	74.0	86.6	117				S
Benzene	0.8200	0.15	1	0	82.0	88.9	122				S
Benzyl chloride	1.300	0.15	1	0	130	73.6	120				S
Bromodichloromethane	1.000	0.15	1	0	100	84.3	133				
Bromoform	1.210	0.15	1	0	121	44.6	149				
Bromomethane	1.120	0.15	1	0	112	78.7	144				
Carbon disulfide	0.7200	0.15	1	0	72.0	76.9	109				S
Carbon tetrachloride	1.300	0.030	1	0	130	71	120				S
Chlorobenzene	0.8600	0.15	1	0	86.0	82.6	121				
Chloroethane	1.060	0.15	1	0	106	67.1	146				
Chloroform	0.9200	0.15	1	0	92.0	82.5	125				
Chloromethane	1.090	0.15	1	0	109	71.1	154				
cis-1,2-Dichloroethene	0.8000	0.040	1	0	80.0	71.2	112				
cis-1,3-Dichloropropene	0.9700	0.15	1	0	97.0	90.3	137				
Cyclohexane	0.7200	0.15	1	0	72.0	87	122				S
Dibromochloromethane	1.110	0.15	1	0	111	62.6	132				
Ethyl acetate	0.7900	0.15	1	0	79.0	86.9	134				S
Ethylbenzene	0.8700	0.15	1	0	87.0	76.9	123				
Freon 11	1.170	0.15	1	0	117	54.4	150				
Freon 113	0.9000	0.15	1	0	90.0	83.4	124				
Freon 114	1.160	0.15	1	0	116	70.2	133				
Freon 12	0.9300	0.15	1	0	93.0	86.3	135				
Heptane	0.8900	0.15	1	0	89.0	86.5	137				
Hexachloro-1,3-butadiene	1.080	0.15	1	0	108	78.7	120				
Hexane	0.7600	0.15	1	0	76.0	77.3	128				S
Isopropyl alcohol	0.8400	0.15	1	0	84.0	80.2	122				
m&p-Xylene	1.750	0.30	2	0	87.5	77.9	132				
Methyl Butyl Ketone	0.9300	0.30	1	0	93.0	69.4	131				
Methyl Ethyl Ketone	0.7800	0.30	1	0	78.0	71.5	117				
Methyl Isobutyl Ketone	0.8400	0.30	1	0	84.0	53.5	141				

Qualifiers:
. Results reported are not blank corrected
DL Detection Limit
E Estimated Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 0.20_NYS

Sample ID: ALCS1UG-062822	SampType: LCS	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 19134
Client ID: ZZZZZ	Batch ID: R19134	TestNo: TO-15		Analysis Date: 6/28/2022	SeqNo: 218383

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.9000	0.15	1	0	90.0	80.8	113				
Methylene chloride	0.6800	0.15	1	0	68.0	87.8	123				S
o-Xylene	0.8600	0.15	1	0	86.0	80.5	139				
Propylene	1.180	0.15	1	0.59	59.0	73.8	124				BS
Styrene	0.8500	0.15	1	0	85.0	82.7	138				
Tetrachloroethylene	0.9100	0.15	1	0	91.0	85.9	122				
Tetrahydrofuran	0.7400	0.15	1	0	74.0	65.5	134				
Toluene	0.8300	0.15	1	0	83.0	77.8	127				
trans-1,2-Dichloroethene	0.7900	0.15	1	0	79.0	83.3	116				S
trans-1,3-Dichloropropene	1.110	0.15	1	0	111	84.8	134				
Trichloroethene	0.9300	0.030	1	0	93.0	79.3	117				
Vinyl acetate	0.7500	0.15	1	0	75.0	70.5	101				
Vinyl Bromide	1.210	0.15	1	0	121	81.4	142				
Vinyl chloride	1.090	0.040	1	0	109	70.4	138				

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Centek/SanAir Laboratories

Sample ID: **ALCS1UG-062722** SampType: **LCS** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **19133**
Client ID: **ZZZZZ** Batch ID: **R19133** TestNo: **TO-15** Analysis Date: **6/27/2022** SeqNo: **218369**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.540	0.15	1	0	154	65.1	164				
1,1,2,2-Tetrachloroethane	1.020	0.15	1	0	102	71	129				
1,1,2-Trichloroethane	1.160	0.15	1	0	116	69.5	134				
1,1-Dichloroethane	1.040	0.15	1	0	104	74.1	116				
1,1-Dichloroethene	1.050	0.15	1	0	105	68.6	109				
1,2,4-Trichlorobenzene	1.810	0.15	1	0	181	49	144				S
1,2,4-Trimethylbenzene	1.180	0.15	1	0	118	68.7	126				
1,2-Dibromoethane	1.260	0.15	1	0	126	72.5	134				
1,2-Dichlorobenzene	1.330	0.15	1	0	133	75.1	133				
1,2-Dichloroethane	1.080	0.15	1	0	108	74.3	120				
1,2-Dichloropropane	1.040	0.15	1	0	104	64	135				
1,3,5-Trimethylbenzene	1.160	0.15	1	0	116	76.6	132				
1,3-butadiene	1.100	0.15	1	0	110	64.4	144				
1,3-Dichlorobenzene	1.280	0.15	1	0	128	77.9	127				S
1,4-Dichlorobenzene	1.280	0.15	1	0	128	79.3	128				
1,4-Dioxane	1.520	0.30	1	0	152	66.6	133				S
2,2,4-trimethylpentane	0.9800	0.15	1	0	98.0	68.2	120				
4-ethyltoluene	1.170	0.15	1	0	117	76.5	127				
Acetone	0.9900	0.30	1	0	99.0	49.8	156				
Allyl chloride	0.9100	0.15	1	0	91.0	61.9	116				
Benzene	1.080	0.15	1	0	108	72.1	124				
Benzyl chloride	1.860	0.15	1	0	186	28.8	224				
Bromodichloromethane	1.270	0.15	1	0	127	69.3	145				
Bromoform	1.380	0.15	1	0	138	46.1	162				
Bromomethane	1.280	0.15	1	0	128	71.4	140				
Carbon disulfide	0.9200	0.15	1	0	92.0	70.2	112				
Carbon tetrachloride	1.580	0.15	1	0	158	44.9	182				
Chlorobenzene	1.170	0.15	1	0	117	76.6	119				
Chloroethane	1.270	0.15	1	0	127	66	145				
Chloroform	1.130	0.15	1	0	113	79.3	116				
Chloromethane	1.210	0.15	1	0	121	66.4	148				

Qualifiers:
. Results reported are not blank corrected
DL Detection Limit
E Estimated Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Centek/SanAir Laboratories

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCS1UG-062722	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 19133
Client ID: ZZZZZ	Batch ID: R19133	TestNo: TO-15		Analysis Date: 6/27/2022	SeqNo: 218369

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,2-Dichloroethene	0.9600	0.15	1	0	96.0	65.4	110				
cis-1,3-Dichloropropene	1.300	0.15	1	0	130	63.7	150				
Cyclohexane	0.9700	0.15	1	0	97.0	69.6	116				
Dibromochloromethane	1.310	0.15	1	0	131	66.7	145				
Ethyl acetate	1.140	0.15	1	0	114	66.5	122				
Ethylbenzene	1.110	0.15	1	0	111	73.4	117				
Freon 11	1.050	0.15	1	0	105	79.8	140				
Freon 113	1.130	0.15	1	0	113	79.5	115				
Freon 114	1.320	0.15	1	0	132	74.6	140				
Freon 12	1.100	0.15	1	0	110	73.7	134				
Heptane	0.9200	0.15	1	0	92.0	65.1	120				
Hexachloro-1,3-butadiene	1.510	0.15	1	0	151	68.8	142				S
Hexane	0.9900	0.15	1	0	99.0	63.1	115				
Isopropyl alcohol	1.010	0.15	1	0	101	57.6	143				
m&p-Xylene	2.270	0.30	2	0	114	77.7	123				
Methyl Butyl Ketone	1.420	0.30	1	0	142	65	121				S
Methyl Ethyl Ketone	1.230	0.30	1	0	123	66.9	115				S
Methyl Isobutyl Ketone	1.150	0.30	1	0	115	63.2	123				
Methyl tert-butyl ether	1.210	0.15	1	0	121	54	140				
Methylene chloride	0.9800	0.15	1	0	98.0	68.3	121				
o-Xylene	1.090	0.15	1	0	109	74.9	134				
Propylene	1.330	0.15	1	0	133	58	124				S
Styrene	1.160	0.15	1	0	116	75.3	130				
Tetrachloroethylene	1.240	0.15	1	0	124	77.1	125				
Tetrahydrofuran	0.9700	0.15	1	0	97.0	58	117				
Toluene	1.100	0.15	1	0	110	72.8	121				
trans-1,2-Dichloroethene	1.020	0.15	1	0	102	72.5	110				
trans-1,3-Dichloropropene	1.480	0.15	1	0	148	43.4	181				
Trichloroethene	1.230	0.15	1	0	123	62.5	127				
Vinyl acetate	0.9600	0.15	1	0	96.0	52.9	123				
Vinyl Bromide	1.300	0.15	1	0	130	72.4	140				

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Centek/SanAir Laboratories

Sample ID: ALCS1UG-062722	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 19133
Client ID: ZZZZZ	Batch ID: R19133	TestNo: TO-15		Analysis Date: 6/27/2022	SeqNo: 218369

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.230	0.15	1	0	123	65.2	139				

Sample ID: ALCS1UG-062922	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 19135
Client ID: ZZZZZ	Batch ID: R19135	TestNo: TO-15		Analysis Date: 6/29/2022	SeqNo: 218406

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.270	0.15	1	0	127	65.1	164				
1,1,2,2-Tetrachloroethane	0.8900	0.15	1	0	89.0	71	129				
1,1,2-Trichloroethane	0.9200	0.15	1	0	92.0	69.5	134				
1,1-Dichloroethane	0.8100	0.15	1	0	81.0	74.1	116				
1,1-Dichloroethene	0.8400	0.15	1	0	84.0	68.6	109				
1,2,4-Trichlorobenzene	1.140	0.15	1	0	114	49	144				
1,2,4-Trimethylbenzene	0.8500	0.15	1	0	85.0	68.7	126				
1,2-Dibromoethane	0.9900	0.15	1	0	99.0	72.5	134				
1,2-Dichlorobenzene	1.060	0.15	1	0	106	75.1	133				
1,2-Dichloroethane	0.8600	0.15	1	0	86.0	74.3	120				
1,2-Dichloropropane	0.7700	0.15	1	0	77.0	64	135				
1,3,5-Trimethylbenzene	0.9400	0.15	1	0	94.0	76.6	132				
1,3-butadiene	1.020	0.15	1	0	102	64.4	144				
1,3-Dichlorobenzene	1.030	0.15	1	0	103	77.9	127				
1,4-Dichlorobenzene	1.080	0.15	1	0	108	79.3	128				
1,4-Dioxane	0.9800	0.30	1	0	98.0	66.6	133				
2,2,4-trimethylpentane	0.7200	0.15	1	0	72.0	68.2	120				
4-ethyltoluene	0.9000	0.15	1	0	90.0	76.5	127				
Acetone	1.250	0.30	1	0	125	49.8	156				
Allyl chloride	0.7300	0.15	1	0	73.0	61.9	116				
Benzene	0.8200	0.15	1	0	82.0	72.1	124				
Benzyl chloride	1.330	0.15	1	0	133	28.8	224				
Bromodichloromethane	1.050	0.15	1	0	105	69.3	145				
Bromoform	1.170	0.15	1	0	117	46.1	162				

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Centek/SanAir Laboratories

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: **ALCS1UG-062922** SampType: **LCS** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **19135**
Client ID: **ZZZZZ** Batch ID: **R19135** TestNo: **TO-15** Analysis Date: **6/29/2022** SeqNo: **218406**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromomethane	1.180	0.15	1	0	118	71.4	140				
Carbon disulfide	0.7300	0.15	1	0	73.0	70.2	112				
Carbon tetrachloride	1.410	0.15	1	0	141	44.9	182				
Chlorobenzene	0.8900	0.15	1	0	89.0	76.6	119				
Chloroethane	1.170	0.15	1	0	117	66	145				
Chloroform	0.9000	0.15	1	0	90.0	79.3	116				
Chloromethane	1.180	0.15	1	0	118	66.4	148				
cis-1,2-Dichloroethene	0.7100	0.15	1	0	71.0	65.4	110				
cis-1,3-Dichloropropene	1.000	0.15	1	0	100	63.7	150				
Cyclohexane	0.7100	0.15	1	0	71.0	69.6	116				
Dibromochloromethane	1.150	0.15	1	0	115	66.7	145				
Ethyl acetate	0.7900	0.15	1	0	79.0	66.5	122				
Ethylbenzene	0.8400	0.15	1	0	84.0	73.4	117				
Freon 11	1.260	0.15	1	0	126	79.8	140				
Freon 113	0.9300	0.15	1	0	93.0	79.5	115				
Freon 114	1.250	0.15	1	0	125	74.6	140				
Freon 12	1.000	0.15	1	0	100	73.7	134				
Heptane	0.8900	0.15	1	0	89.0	65.1	120				
Hexachloro-1,3-butadiene	1.220	0.15	1	0	122	68.8	142				
Hexane	0.7600	0.15	1	0	76.0	63.1	115				
Isopropyl alcohol	1.050	0.15	1	0	105	57.6	143				
m&p-Xylene	1.800	0.30	2	0	90.0	77.7	123				
Methyl Butyl Ketone	0.8100	0.30	1	0	81.0	65	121				
Methyl Ethyl Ketone	0.8100	0.30	1	0	81.0	66.9	115				
Methyl Isobutyl Ketone	0.7000	0.30	1	0	70.0	63.2	123				
Methyl tert-butyl ether	0.8700	0.15	1	0	87.0	54	140				
Methylene chloride	0.7000	0.15	1	0	70.0	68.3	121				
o-Xylene	0.9400	0.15	1	0	94.0	74.9	134				
Propylene	0.6500	0.15	1	0	65.0	58	124				
Styrene	0.9400	0.15	1	0	94.0	75.3	130				
Tetrachloroethylene	1.010	0.15	1	0	101	77.1	125				

Qualifiers:
- `.` Results reported are not blank corrected
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Centek/SanAir Laboratories

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCS1UG-062922	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 19135
Client ID: ZZZZZ	Batch ID: R19135	TestNo: TO-15		Analysis Date: 6/29/2022	SeqNo: 218406

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrahydrofuran	0.7500	0.15	1	0	75.0	58	117				
Toluene	0.8500	0.15	1	0	85.0	72.8	121				
trans-1,2-Dichloroethene	0.7800	0.15	1	0	78.0	72.5	110				
trans-1,3-Dichloropropene	1.080	0.15	1	0	108	43.4	181				
Trichloroethene	0.9600	0.15	1	0	96.0	62.5	127				
Vinyl acetate	0.6800	0.15	1	0	68.0	52.9	123				
Vinyl Bromide	1.260	0.15	1	0	126	72.4	140				
Vinyl chloride	1.090	0.15	1	0	109	65.2	139				

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062403.D Vial: 3
Acq On : 24 Jun 2022 10:11 am Operator: RJP
Sample : ALCS1UG-062422 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 24 10:35:31 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.69	128	36985	1.00	ppb		0.00
35) 1,4-difluorobenzene	12.00	114	168885	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	149300	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	106249	0.98	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98.00%				
Target Compounds							Qvalue
2) Propylene	4.08	41	32712m	1.33	ppb		
3) Freon 12	4.14	85	189810	1.11	ppb		99
4) Chloromethane	4.33	50	51226	1.23	ppb		99
5) Freon 114	4.33	85	173722	1.24	ppb		99
6) Vinyl Chloride	4.53	62	46865	1.17	ppb		98
7) Butane	4.63	43	52003	1.06	ppb		99
8) 1,3-butadiene	4.63	39	43792	1.12	ppb		100
9) Bromomethane	4.97	94	64892	1.20	ppb		98
10) Chloroethane	5.14	64	22443	1.14	ppb		96
11) Ethanol	5.23	45	10099	0.75	ppb		80
12) Acrolein	5.80	56	14821	1.11	ppb	#	66
13) Vinyl Bromide	5.48	106	72400	1.29	ppb		93
14) Freon 11	5.74	101	261153	1.24	ppb		100
15) Acetone	5.90	58	25870	1.20	ppb		86
16) Pentane	6.02	42	34050	0.98	ppb		82
17) Isopropyl alcohol	6.01	45	70270	1.12	ppb		88
18) 1,1-dichloroethene	6.51	96	45928	1.04	ppb		91
19) Freon 113	6.69	101	117027	1.11	ppb		97
20) t-Butyl alcohol	6.72	59	84002	1.20	ppb		97
21) Methylene chloride	6.96	84	40884	0.87	ppb		96
22) Allyl chloride	6.95	41	38516	0.91	ppb		97
23) Carbon disulfide	7.12	76	128014	0.92	ppb		99
24) trans-1,2-dichloroethene	7.90	61	66900	1.04	ppb		97
25) methyl tert-butyl ether	7.91	73	124715	1.19	ppb		99
26) 1,1-dichloroethane	8.32	63	78817	1.04	ppb		98
27) Vinyl acetate	8.31	43	57632	0.97	ppb		96
28) Methyl Ethyl Ketone	8.79	72	23024	1.26	ppb	#	100
29) cis-1,2-dichloroethene	9.25	61	62706	1.02	ppb		98
30) Hexane	8.86	57	50243m	0.92	ppb		
31) Ethyl acetate	9.40	43	105721	1.22	ppb		98
32) Chloroform	9.86	83	132651	1.14	ppb		100
33) Tetrahydrofuran	10.01	42	34662	1.08	ppb		97
34) 1,2-dichloroethane	10.97	62	95787	1.09	ppb		99
36) 1,1,1-trichloroethane	10.69	97	153055	1.45	ppb		99
37) Cyclohexane	11.40	56	51044	1.00	ppb		94
38) Carbon tetrachloride	11.33	117	185962	1.65	ppb		100
39) Benzene	11.30	78	129374	1.06	ppb		98
40) Methyl methacrylate	12.88	41	63562	1.27	ppb		98
41) 1,4-dioxane	12.89	88	36234m	1.24	ppb		
42) 2,2,4-trimethylpentane	12.17	57	164559	1.03	ppb		98
43) Heptane	12.52	43	54148	0.95	ppb		96
44) Trichloroethene	12.65	130	79448	1.20	ppb		98
45) 1,2-dichloropropane	12.76	63	42764	1.07	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062403.D Vial: 3
Acq On : 24 Jun 2022 10:11 am Operator: RJP
Sample : ALCS1UG-062422 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 24 10:35:31 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

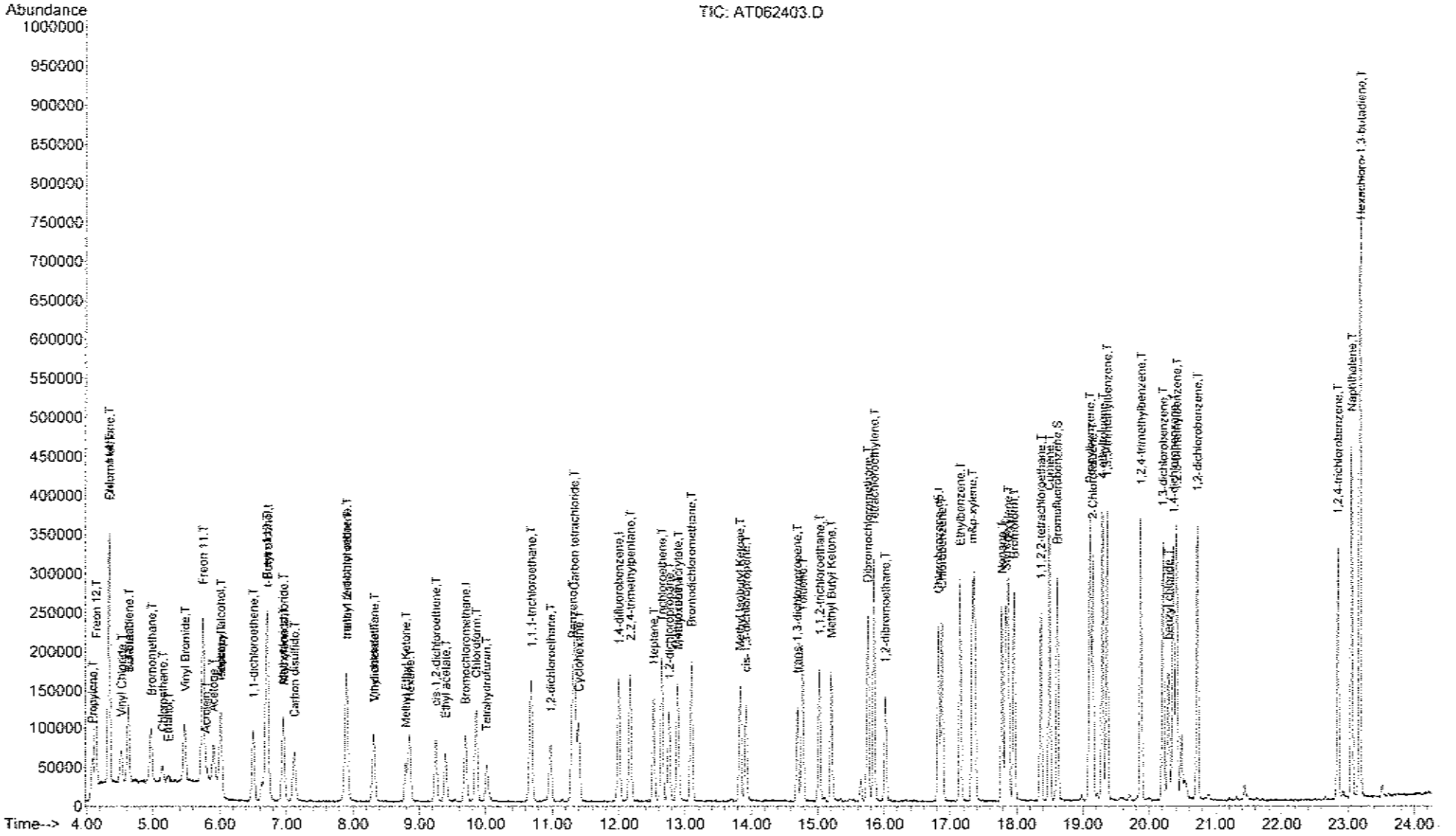
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	Bromodichloromethane	13.09	83	143230	1.22	ppb	97
47)	cis-1,3-dichloropropene	13.92	75	76960m	1.21	ppb	
48)	trans-1,3-dichloropropene	14.69	75	84499	1.60	ppb	100
49)	1,1,2-trichloroethane	15.03	97	60506	1.11	ppb	100
51)	Toluene	14.77	92	100410	1.14	ppb	97
52)	Methyl Isobutyl Ketone	13.83	43	103628m	1.32	ppb	
53)	Dibromochloromethane	15.76	129	150325m	1.35	ppb	
54)	Methyl Butyl Ketone	15.20	43	107489m	1.50	ppb	
55)	1,2-dibromoethane	16.02	107	102852	1.26	ppb	97
56)	Tetrachloroethylene	15.85	164	82762	1.21	ppb	100
57)	Chlorobenzene	16.87	112	151744	1.18	ppb	99
58)	Ethylbenzene	17.15	91	237675	1.17	ppb	98
59)	m&p-xylene	17.33	91	390697	2.34	ppb	98
60)	Nonane	17.78	43	82088	0.97	ppb	99
61)	Styrene	17.83	104	148033	1.20	ppb	97
62)	Bromoform	17.96	173	153801	1.55	ppb	98
63)	o-xylene	17.87	91	204844	1.15	ppb	99
64)	Cumene	18.50	105	276398	1.18	ppb	99
66)	1,1,2,2-tetrachloroethane	18.36	83	123787	1.18	ppb	99
67)	Propylbenzene	19.10	120	79824	1.24	ppb	100
68)	2-Chlorotoluene	19.15	126	75367	1.23	ppb	99
69)	4-ethyltoluene	19.29	105	281234	1.22	ppb	97
70)	1,3,5-trimethylbenzene	19.36	105	245084	1.19	ppb	98
71)	1,2,4-trimethylbenzene	19.87	105	245540	1.22	ppb	99
72)	1,3-dichlorobenzene	20.21	146	168529	1.29	ppb	99
73)	benzyl chloride	20.29	91	141713	1.94	ppb	96
74)	1,4-dichlorobenzene	20.36	146	170885	1.34	ppb	99
75)	1,2,3-trimethylbenzene	20.41	105	255130	1.24	ppb	98
76)	1,2-dichlorobenzene	20.72	146	166809	1.35	ppb	98
77)	1,2,4-trichlorobenzene	22.85	180	112909	1.68	ppb	98
78)	Naphthalene	23.05	128	395804	2.54	ppb	99
79)	Hexachloro-1,3-butadiene	23.18	225	166435	1.48	ppb	98

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062403.D Vial: 3
Acq On : 24 Jun 2022 10:11 am Operator: RJP
Sample : ALCS1UG-062422 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 12:59 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062803.D Vial: 3
Acq On : 28 Jun 2022 10:07 am Operator: RJP
Sample : ALCS1UG-062822 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 10:32:54 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	Qion	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.69	128	25424	1.00	ppb		0.00
35) 1,4-difluorobenzene	12.00	114	115956	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	101381	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	70129	0.95	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%				
Target Compounds							Qvalue
2) Propylene	4.09	41	19926	1.18	ppb		97
3) Freon 12	4.14	85	108638	0.93	ppb		97
4) Chloromethane	4.33	50	31327	1.09	ppb		94
5) Freon 114	4.33	85	111472	1.16	ppb		98
6) Vinyl Chloride	4.52	62	30063	1.09	ppb		98
7) Butane	4.62	43	32866	0.97	ppb		96
8) 1,3-butadiene	4.62	39	27349	1.02	ppb		95
9) Bromomethane	4.96	94	41928	1.12	ppb		98
10) Chloroethane	5.13	64	14287	1.06	ppb		98
11) Ethanol	5.23	45	8049	0.87	ppb		91
12) Acrolein	5.81	56	8583	0.93	ppb		90
13) Vinyl Bromide	5.47	106	46978	1.21	ppb		98
14) Freon 11	5.74	101	169385	1.17	ppb		100
15) Acetone	5.91	58	16260	1.10	ppb	#	84
16) Pentane	6.02	42	20585	0.86	ppb		95
17) Isopropyl alcohol	6.02	45	36310	0.84	ppb		93
18) 1,1-dichloroethene	6.50	96	24082	0.79	ppb		90
19) Freon 113	6.70	101	65441	0.90	ppb		95
20) t-Butyl alcohol	6.72	59	40619	0.84	ppb		95
21) Methylene chloride	6.96	84	21917m	0.68	ppb		
22) Allyl chloride	6.94	41	21306m	0.74	ppb		
23) Carbon disulfide	7.11	76	69532	0.72	ppb		98
24) trans-1,2-dichloroethene	7.89	61	35003	0.79	ppb		98
25) methyl tert-butyl ether	7.90	73	64868	0.90	ppb		96
26) 1,1-dichloroethane	8.32	63	43093	0.82	ppb		97
27) Vinyl acetate	8.30	43	30556m	0.75	ppb		
28) Methyl Ethyl Ketone	8.79	72	9807	0.78	ppb	#	100
29) cis-1,2-dichloroethene	9.25	61	33832	0.80	ppb		95
30) Hexane	8.86	57	28488	0.76	ppb		96
31) Ethyl acetate	9.40	43	47069	0.79	ppb		98
32) Chloroform	9.85	83	73234	0.92	ppb		99
33) Tetrahydrofuran	10.02	42	16343	0.74	ppb		96
34) 1,2-dichloroethane	10.97	62	54431	0.90	ppb		99
36) 1,1,1-trichloroethane	10.68	97	88056	1.21	ppb		96
37) Cyclohexane	11.39	56	25136	0.72	ppb	#	83
38) Carbon tetrachloride	11.33	117	100631m	1.30	ppb		
39) Benzene	11.30	78	68649	0.82	ppb		97
40) Methyl methacrylate	12.88	41	29186	0.85	ppb		99
41) 1,4-dioxane	12.90	88	18748	0.93	ppb		98
42) 2,2,4-trimethylpentane	12.17	57	78398	0.72	ppb		93
43) Heptane	12.52	43	34907m	0.89	ppb		
44) Trichloroethene	12.64	130	42631	0.93	ppb		99
45) 1,2-dichloropropane	12.75	63	21171	0.77	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062803.D Vial: 3
Acq On : 28 Jun 2022 10:07 am Operator: RJP
Sample : ALCS1UG-062822 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 10:32:54 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

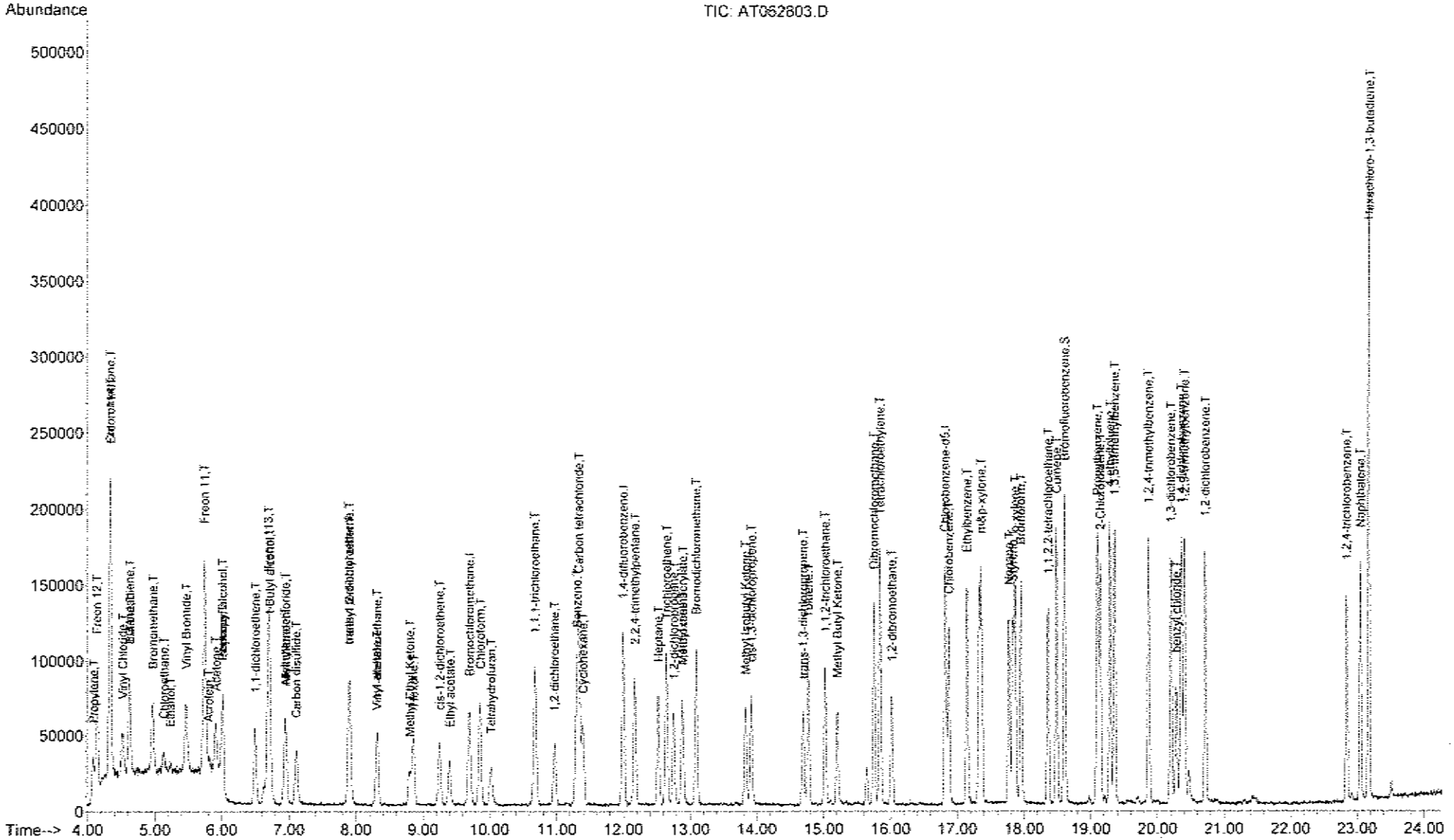
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	Bromodichloromethane	13.09	83	80697	1.00	ppb	100
47)	cis-1,3-dichloropropene	13.92	75	42292	0.97	ppb	98
48)	trans-1,3-dichloropropene	14.69	75	40344	1.11	ppb	100
49)	1,1,2-trichloroethane	15.02	97	31520	0.84	ppb	99
51)	Toluene	14.77	92	49917	0.83	ppb	99
52)	Methyl Isobutyl Ketone	13.83	43	44875	0.84	ppb	95
53)	Dibromochloromethane	15.75	129	84163	1.11	ppb	100
54)	Methyl Butyl Ketone	15.21	43	45301	0.93	ppb	92
55)	1,2-dibromoethane	16.02	107	52111	0.94	ppb	94
56)	Tetrachloroethylene	15.84	164	42174	0.91	ppb	97
57)	Chlorobenzene	16.87	112	75368	0.86	ppb	99
58)	Ethylbenzene	17.14	91	119977	0.87	ppb	99
59)	m&p-xylene	17.36	91	198054	1.75	ppb	98
60)	Nonane	17.77	43	35725	0.62	ppb	95
61)	Styrene	17.83	104	71451	0.85	ppb	94
62)	Bromoform	17.96	173	81680	1.21	ppb	100
63)	o-xylene	17.86	91	103854	0.86	ppb	97
64)	Cumene	18.49	105	137882	0.87	ppb	99
66)	1,1,2,2-tetrachloroethane	18.36	83	59602	0.83	ppb	99
67)	Propylbenzene	19.09	120	39847	0.91	ppb	98
68)	2-Chlorotoluene	19.14	126	37183	0.89	ppb	98
69)	4-ethyltoluene	19.29	105	136106	0.87	ppb	100
70)	1,3,5-trimethylbenzene	19.36	105	122621	0.88	ppb	99
71)	1,2,4-trimethylbenzene	19.87	105	118898	0.87	ppb	98
72)	1,3-dichlorobenzene	20.20	146	80983	0.91	ppb	99
73)	benzyl chloride	20.28	91	64373	1.30	ppb	95
74)	1,4-dichlorobenzene	20.36	146	84569	0.97	ppb	99
75)	1,2,3-trimethylbenzene	20.40	105	120880	0.86	ppb	99
76)	1,2-dichlorobenzene	20.72	146	80609	0.96	ppb	98
77)	1,2,4-trichlorobenzene	22.84	180	46215	1.01	ppb	98
78)	Naphthalene	23.05	128	136967	1.29	ppb	100
79)	Hexachloro-1,3-butadiene	23.17	225	82397	1.08	ppb	99

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062803.D Vial: 3
Acq On : 28 Jun 2022 10:07 am Operator: RJP
Sample : ALCS1UG-062822 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 12:54 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062703.D Vial: 3
Acq On : 27 Jun 2022 9:58 am Operator: RJP
Sample : ALCS1UG-062722 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 07:18:22 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.69	128	37200	1.00	ppb		0.00
35) 1,4-difluorobenzene	11.99	114	166081	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	156994m	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	102678	0.90	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 90.00%				
Target Compounds							Qvalue
2) Propylene	4.09	41	32994m	1.33	ppb		
3) Freon 12	4.14	85	187790	1.10	ppb		99
4) Chloromethane	4.33	50	50612	1.21	ppb		97
5) Freon 114	4.34	85	185193	1.32	ppb		99
6) Vinyl Chloride	4.53	62	49855	1.23	ppb		99
7) Butane	4.63	43	52981	1.07	ppb		95
8) 1,3-butadiene	4.63	39	43341	1.10	ppb		95
9) Bromomethane	4.97	94	70068	1.28	ppb		96
10) Chloroethane	5.14	64	25067	1.27	ppb		100
11) Ethanol	5.23	45	13671	1.01	ppb		87
12) Acrolein	5.81	56	11205	0.83	ppb		97
13) Vinyl Bromide	5.47	106	73498m	1.30	ppb		
14) Freon 11	5.74	101	222021	1.05	ppb		98
15) Acetone	5.91	58	21356	0.99	ppb	#	52
16) Pentane	6.02	42	31819	0.91	ppb		87
17) Isopropyl alcohol	6.02	45	63895	1.01	ppb		86
18) 1,1-dichloroethene	6.51	96	46758	1.05	ppb		96
19) Freon 113	6.71	101	119189	1.13	ppb		98
20) t-Butyl alcohol	6.72	59	93898	1.33	ppb		99
21) Methylene chloride	6.96	84	46412	0.98	ppb		99
22) Allyl chloride	6.94	41	38486	0.91	ppb		96
23) Carbon disulfide	7.11	76	129609	0.92	ppb		99
24) trans-1,2-dichloroethene	7.89	61	65963	1.02	ppb		99
25) methyl tert-butyl ether	7.90	73	127468	1.21	ppb		98
26) 1,1-dichloroethane	8.32	63	79956	1.04	ppb		97
27) Vinyl acetate	8.30	43	57136	0.96	ppb		100
28) Methyl Ethyl Ketone	8.79	72	22679	1.23	ppb	#	100
29) cis-1,2-dichloroethene	9.25	61	59288	0.96	ppb		97
30) Hexane	8.86	57	54605	0.99	ppb		97
31) Ethyl acetate	9.39	43	98837	1.14	ppb		99
32) Chloroform	9.85	83	131489	1.13	ppb		99
33) Tetrahydrofuran	10.01	42	31217	0.97	ppb		96
34) 1,2-dichloroethane	10.97	62	95342	1.08	ppb		98
36) 1,1,1-trichloroethane	10.68	97	159889	1.54	ppb		98
37) Cyclohexane	11.39	56	48818	0.97	ppb		90
38) Carbon tetrachloride	11.33	117	175218m	1.58	ppb		
39) Benzene	11.30	78	129614	1.08	ppb		99
40) Methyl methacrylate	12.88	41	61302	1.25	ppb		99
41) 1,4-dioxane	12.89	88	43884	1.52	ppb		100
42) 2,2,4-trimethylpentane	12.17	57	153860	0.98	ppb		97
43) Heptane	12.52	43	51635	0.92	ppb		98
44) Trichloroethene	12.65	130	80112	1.23	ppb		99
45) 1,2-dichloropropane	12.75	63	40777	1.04	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062703.D Vial: 3
Acq On : 27 Jun 2022 9:58 am Operator: RJP
Sample : ALCS1UG-062722 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 07:18:22 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

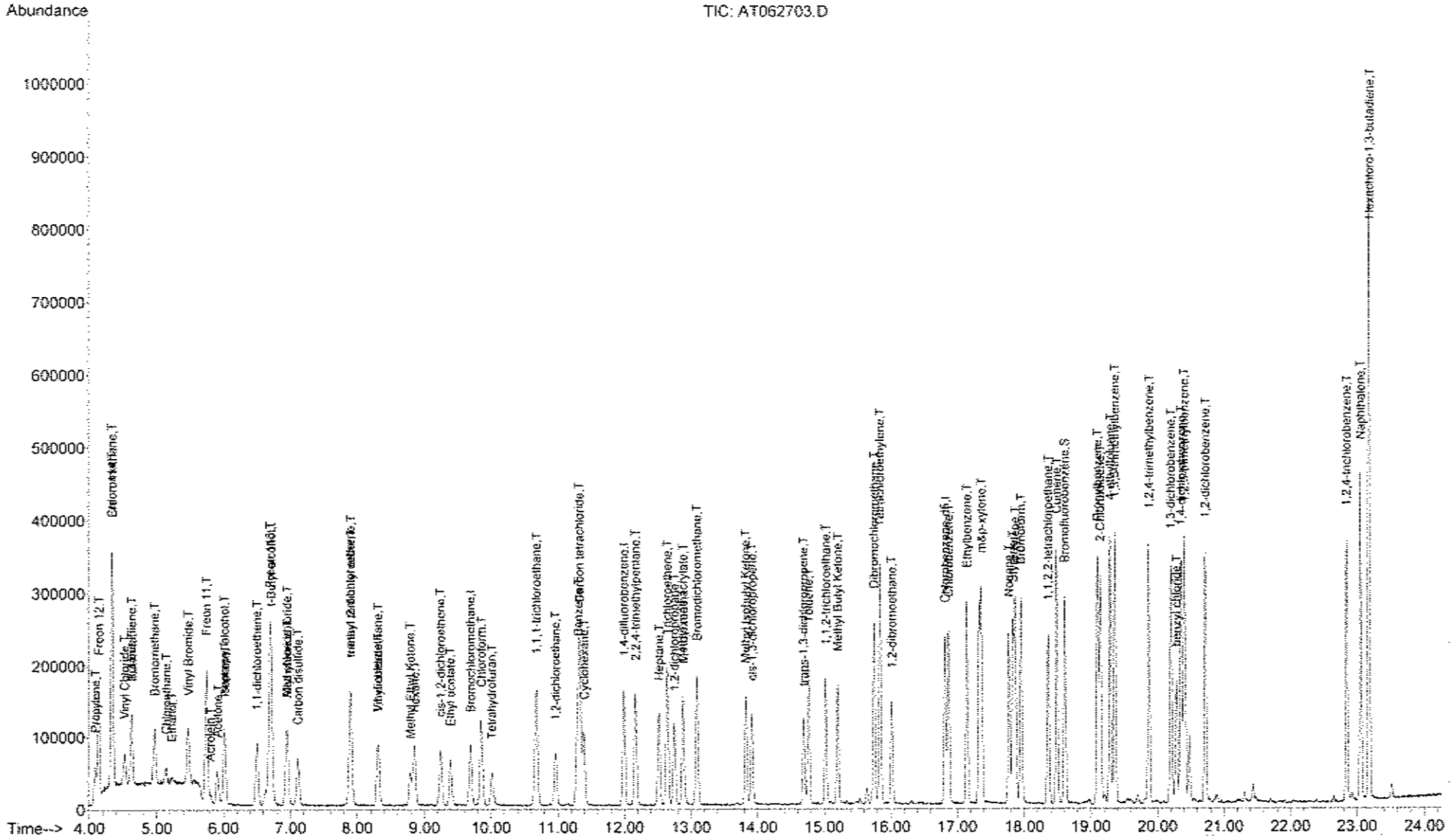
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	Bromodichloromethane	13.09	83	146122	1.27	ppb		100
47)	cis-1,3-dichloropropene	13.92	75	80972	1.30	ppb		99
48)	trans-1,3-dichloropropene	14.69	75	76768m	1.48	ppb		
49)	1,1,2-trichloroethane	15.02	97	62398	1.16	ppb		99
51)	Toluene	14.77	92	101742	1.10	ppb		99
52)	Methyl Isobutyl Ketone	13.83	43	95266m	1.15	ppb		
53)	Dibromochloromethane	15.75	129	153934m	1.31	ppb		
54)	Methyl Butyl Ketone	15.20	43	107072m	1.42	ppb		
55)	1,2-dibromoethane	16.02	107	108727	1.26	ppb		98
56)	Tetrachloroethylene	15.84	164	88845	1.24	ppb		99
57)	Chlorobenzene	16.87	112	158916	1.17	ppb		100
58)	Ethylbenzene	17.14	91	237115	1.11	ppb		99
59)	m&p-xylene	17.36	91	397926	2.27	ppb		98
60)	Nonane	17.77	43	73463	0.82	ppb		98
61)	Styrene	17.83	104	150164	1.16	ppb		98
62)	Bromoform	17.95	173	143775m	1.38	ppb		
63)	o-xylene	17.87	91	202915	1.09	ppb		100
64)	Cumene	18.49	105	275925	1.12	ppb		100
66)	1,1,2,2-tetrachloroethane	18.36	83	113286	1.02	ppb		96
67)	Propylbenzene	19.10	120	78421	1.16	ppb		98
68)	2-Chlorotoluene	19.15	126	75665	1.17	ppb	#	94
69)	4-ethyltoluene	19.29	105	285271	1.17	ppb		99
70)	1,3,5-trimethylbenzene	19.36	105	292724	1.16	ppb		99
71)	1,2,4-trimethylbenzene	19.87	105	248326	1.18	ppb		99
72)	1,3-dichlorobenzene	20.20	146	175988	1.28	ppb		98
73)	benzyl chloride	20.28	91	143153	1.86	ppb		97
74)	1,4-dichlorobenzene	20.36	146	171894	1.28	ppb		97
75)	1,2,3-trimethylbenzene	20.41	105	257348	1.19	ppb		98
76)	1,2-dichlorobenzene	20.72	146	172896	1.33	ppb		99
77)	1,2,4-trichlorobenzene	22.84	180	127574	1.81	ppb		98
78)	Naphthalene	23.05	128	396104	2.42	ppb		100
79)	Hexachloro-1,3-butadiene	23.17	225	178214	1.51	ppb		97

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062703.D Vial: 3
Acq On : 27 Jun 2022 9:58 am Operator: RJP
Sample : ALCS1UG-062722 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 7:29 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062905.D Vial: 5
Acq On : 29 Jun 2022 12:43 pm Operator: RJP
Sample : ALCS1UG-062922 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 07:33:11 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.69	128	22407	1.00	ppb		0.00
35) 1,4-difluorobenzene	11.99	114	96300	1.00	ppb		-0.01
50) Chlorobenzene-d5	16.82	117	87322	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.56	95	64111	1.01	ppb		-0.05
Spiked Amount 1.000	Range 70 - 130		Recovery = 101.00%				
Target Compounds							Qvalue
2) Propylene	4.07	41	9643	0.65	ppb		99
3) Freon 12	4.13	85	103109	1.00	ppb		100
4) Chloromethane	4.33	50	29914	1.18	ppb		99
5) Freon 114	4.33	85	105834	1.25	ppb		99
6) Vinyl Chloride	4.52	62	26570	1.09	ppb		100
7) Butane	4.62	43	29203	0.98	ppb		96
8) 1,3-butadiene	4.61	39	24126	1.02	ppb		93
9) Bromomethane	4.96	94	38883	1.18	ppb		99
10) Chloroethane	5.14	64	13902	1.17	ppb		93
11) Ethanol	5.22	45	7293	0.90	ppb		97
12) Acrolein	5.80	56	8229	1.02	ppb		96
13) Vinyl Bromide	5.46	106	42992m	1.26	ppb		
14) Freon 11	5.74	101	161006	1.26	ppb		100
15) Acetone	5.90	58	16338	1.25	ppb		96
16) Pentane	6.01	42	22643	1.07	ppb		90
17) Isopropyl alcohol	6.01	45	39683	1.05	ppb		99
18) 1,1-dichloroethene	6.50	96	22357	0.84	ppb		92
19) Freon 113	6.69	101	59076	0.93	ppb		97
20) t-Butyl alcohol	6.72	59	37412	0.88	ppb		96
21) Methylene chloride	6.95	84	19982m	0.70	ppb		
22) Allyl chloride	6.94	41	18573m	0.73	ppb		
23) Carbon disulfide	7.11	76	61432	0.73	ppb		99
24) trans-1,2-dichloroethene	7.88	61	30456	0.78	ppb		97
25) methyl tert-butyl ether	7.90	73	55405	0.87	ppb		95
26) 1,1-dichloroethane	8.30	63	37158	0.81	ppb		97
27) Vinyl acetate	8.29	43	24546m	0.68	ppb		
28) Methyl Ethyl Ketone	8.80	72	9002	0.81	ppb	#	100
29) cis-1,2-dichloroethene	9.24	61	26568	0.71	ppb		93
30) Hexane	8.85	57	25229m	0.76	ppb		
31) Ethyl acetate	9.39	43	41395	0.79	ppb		95
32) Chloroform	9.84	83	63341	0.90	ppb		97
33) Tetrahydrofuran	10.03	42	14647m	0.75	ppb		
34) 1,2-dichloroethane	10.96	62	45789	0.86	ppb		98
36) 1,1,1-trichloroethane	10.67	97	76611	1.27	ppb		99
37) Cyclohexane	11.39	56	20647	0.71	ppb	#	84
38) Carbon tetrachloride	11.32	117	90088m	1.41	ppb		
39) Benzene	11.29	78	56981	0.82	ppb		99
40) Methyl methacrylate	12.88	41	23144	0.81	ppb		99
41) 1,4-dioxane	12.88	88	16435	0.98	ppb		100
42) 2,2,4-trimethylpentane	12.16	57	65686	0.72	ppb		93
43) Heptane	12.52	43	28998m	0.89	ppb		
44) Trichloroethene	12.64	130	36512	0.96	ppb		98
45) 1,2-dichloropropane	12.75	63	17552	0.77	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062905.D Vial: 5
Acq On : 29 Jun 2022 12:43 pm Operator: RJP
Sample : ALCS1UG-062922 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 07:33:11 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

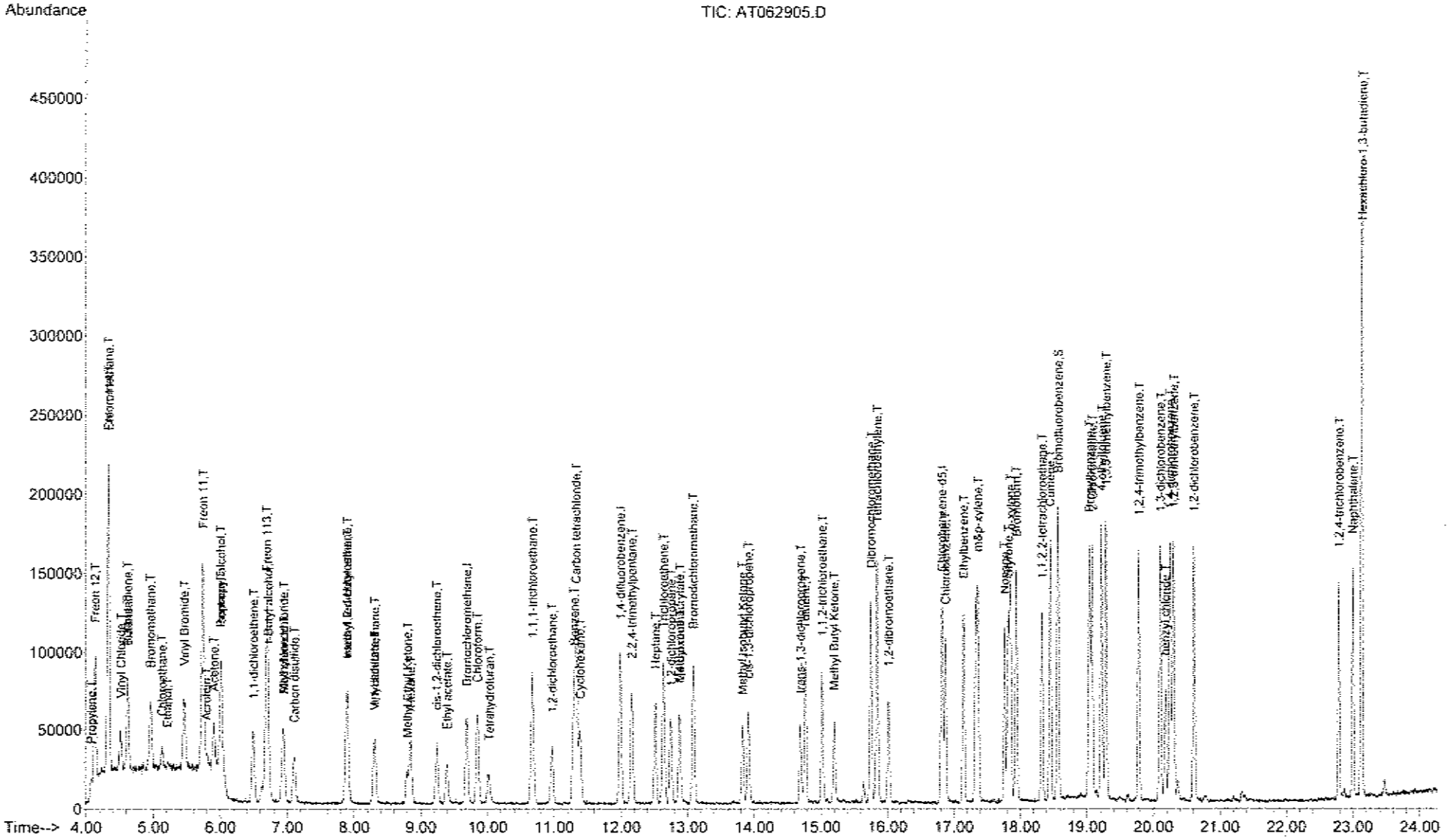
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	Bromodichloromethane	13.09	83	70376	1.05	ppb		98
47)	cis-1,3-dichloropropene	13.91	75	36311	1.00	ppb		98
48)	trans-1,3-dichloropropene	14.69	75	32401	1.08	ppb		92
49)	1,1,2-trichloroethane	15.02	97	28578	0.92	ppb		93
51)	Toluene	14.77	92	43992	0.85	ppb		98
52)	Methyl Isobutyl Ketone	13.83	43	32301	0.70	ppb		95
53)	Dibromochloromethane	15.75	129	75084	1.15	ppb		100
54)	Methyl Butyl Ketone	15.20	43	34043	0.81	ppb		97
55)	1,2-dibromoethane	16.02	107	47403	0.99	ppb		97
56)	Tetrachloroethylene	15.84	164	40443	1.01	ppb		99
57)	Chlorobenzene	16.87	112	67234	0.89	ppb		99
58)	Ethylbenzene	17.14	91	100711	0.84	ppb		98
59)	m&p-xylene	17.35	91	175439	1.80	ppb		99
60)	Nonane	17.76	43	32584	0.66	ppb		97
61)	Styrene	17.82	104	68054	0.94	ppb		98
62)	Bromoform	17.94	173	67919m	1.17	ppb		
63)	o-xylene	17.85	91	98187	0.94	ppb		97
64)	Cumene	18.45	105	120855	0.88	ppb		99
66)	1,1,2,2-tetrachloroethane	18.32	83	54977	0.89	ppb		98
67)	Propylbenzene	19.03	120	33346	0.88	ppb		91
68)	2-Chlorotoluene	19.08	126	36422	1.01	ppb	#	81
69)	4-ethyltoluene	19.22	105	122103m	0.90	ppb		
70)	1,3,5-trimethylbenzene	19.28	105	113164	0.94	ppb		100
71)	1,2,4-trimethylbenzene	19.77	105	100170	0.85	ppb		98
72)	1,3-dichlorobenzene	20.10	146	78355m	1.03	ppb		
73)	benzyl chloride	20.17	91	57003	1.33	ppb		99
74)	1,4-dichlorobenzene	20.25	146	80470	1.08	ppb		99
75)	1,2,3-trimethylbenzene	20.30	105	110599	0.92	ppb		98
76)	1,2-dichlorobenzene	20.60	146	76233	1.06	ppb		99
77)	1,2,4-trichlorobenzene	22.78	180	44779	1.14	ppb		99
78)	Naphthalene	22.99	128	133561	1.46	ppb		99
79)	Hexachloro-1,3-butadiene	23.12	225	79837	1.22	ppb		98

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062905.D Vial: 5
Acq On : 29 Jun 2022 12:43 pm Operator: RJP
Sample : ALCS1UG-062922 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 7:52 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



Centek/SanAir Laboratories

CENTEK LABORATORIES, LLC

Date: *07-Jul-22*

ANALYTICAL QC SUMMARY REPORT

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 0.20_NYS

Sample ID: ALCSD1UG-062422	SampType: LCSD	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 19132
Client ID: ZZZZZ	Batch ID: R19132	TestNo: TO-15		Analysis Date: 6/25/2022	SeqNo: 218344

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.520	0.15	1	0	152	91.3	127	1.45	4.71	0	S
1,1,2,2-Tetrachloroethane	1.230	0.15	1	0	123	78.7	121	1.18	4.15	0	S
1,1,2-Trichloroethane	1.180	0.15	1	0	118	88.1	136	1.11	6.11	0	
1,1-Dichloroethane	1.050	0.15	1	0	105	86.1	123	1.04	0.957	0	
1,1-Dichloroethene	1.080	0.040	1	0	108	70	94	1.04	3.77	0	S
1,2,4-Trichlorobenzene	1.830	0.15	1	0	183	76.7	112	1.66	8.55	0	S
1,2,4-Trimethylbenzene	1.240	0.15	1	0	124	74.3	123	1.22	1.63	0	S
1,2-Dibromoethane	1.340	0.15	1	0	134	80.4	125	1.26	6.15	0	S
1,2-Dichlorobenzene	1.400	0.15	1	0	140	79.5	143	1.35	3.64	0	
1,2-Dichloroethane	1.050	0.15	1	0	105	70.9	133	1.09	3.74	0	
1,2-Dichloropropane	1.080	0.15	1	0	108	91	134	1.07	0.930	0	
1,3,5-Trimethylbenzene	1.210	0.15	1	0	121	77.4	138	1.19	1.67	0	
1,3-butadiene	1.070	0.15	1	0	107	71	144	1.12	4.57	0	
1,3-Dichlorobenzene	1.320	0.15	1	0	132	84.7	128	1.29	2.30	0	S
1,4-Dichlorobenzene	1.370	0.15	1	0	137	77.9	131	1.34	2.21	0	S
1,4-Dioxane	1.550	0.30	1	0	155	60.9	133	1.44	7.36	0	S
2,2,4-trimethylpentane	1.030	0.15	1	0	103	86.9	126	1.03	0	0	
4-ethyltoluene	1.250	0.15	1	0	125	77.5	133	1.22	2.43	0	
Acetone	1.170	0.30	1	0	117	46.7	165	1.2	2.53	0	
Allyl chloride	0.9100	0.15	1	0	91.0	86.6	117	0.91	0	0	
Benzene	1.110	0.15	1	0	111	88.9	122	1.06	4.61	0	
Benzyl chloride	1.990	0.15	1	0	199	73.6	120	1.94	2.54	0	S
Bromodichloromethane	1.240	0.15	1	0	124	84.3	133	1.22	1.63	0	
Bromoform	1.640	0.15	1	0	164	44.6	149	1.55	5.64	0	S
Bromomethane	1.230	0.15	1	0	123	78.7	144	1.2	2.47	0	

Qualifiers:
. Results reported are not blank corrected
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
DL Detection Limit
J Analyte detected below quantitation limit
S Spike Recovery outside accepted recovery limits
E Estimated Value above quantitation range
ND Not Detected at the Limit of Detection

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 0.20_NYS

Sample ID: **ALCSD1UG-062422** SampType: **LCSD** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **19132**
Client ID: **ZZZZZ** Batch ID: **R19132** TestNo: **TO-15** Analysis Date: **6/25/2022** SeqNo: **218344**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.9000	0.15	1	0	90.0	76.9	109	0.92	2.20	0	
Carbon tetrachloride	1.570	0.030	1	0	157	71	120	1.65	4.97	0	S
Chlorobenzene	1.230	0.15	1	0	123	82.6	121	1.18	4.15	0	S
Chloroethane	1.160	0.15	1	0	116	67.1	146	1.14	1.74	0	
Chloroform	1.110	0.15	1	0	111	82.5	125	1.14	2.67	0	
Chloromethane	1.190	0.15	1	0	119	71.1	154	1.23	3.31	0	
cis-1,2-Dichloroethene	1.020	0.040	1	0	102	71.2	112	1.02	0	0	
cis-1,3-Dichloropropene	1.340	0.15	1	0	134	90.3	137	1.31	2.26	0	
Cyclohexane	1.000	0.15	1	0	100	87	122	1	0	0	
Dibromochloromethane	1.470	0.15	1	0	147	62.8	132	1.43	2.76	0	S
Ethyl acetate	1.180	0.15	1	0	118	86.9	134	1.22	3.33	0	
Ethylbenzene	1.200	0.15	1	0	120	76.9	123	1.17	2.53	0	
Freon 11	1.230	0.15	1	0	123	54.4	150	1.24	0.810	0	
Freon 113	1.100	0.15	1	0	110	83.4	124	1.11	0.905	0	
Freon 114	1.270	0.15	1	0	127	70.2	133	1.24	2.39	0	
Freon 12	1.120	0.15	1	0	112	86.3	135	1.11	0.897	0	
Heptane	0.9700	0.15	1	0	97.0	86.5	137	0.95	2.08	0	
Hexachloro-1,3-butadiene	1.540	0.15	1	0	154	48.1	160	1.48	3.97	0	
Hexane	0.8800	0.15	1	0	88.0	77.3	128	0.92	4.44	0	
Isopropyl alcohol	1.180	0.15	1	0	118	80.2	122	1.12	5.22	0	
m&p-Xylene	2.450	0.30	2	0	122	77.9	132	2.34	4.59	0	
Methyl Butyl Ketone	1.840	0.30	1	0	184	69.4	131	1.71	7.32	0	S
Methyl Ethyl Ketone	1.250	0.30	1	0	125	71.5	117	1.26	0.797	0	S
Methyl Isobutyl Ketone	1.490	0.30	1	0	149	63.5	141	1.4	6.23	0	S
Methyl tert-butyl ether	1.180	0.15	1	0	118	80.8	113	1.19	0.844	0	S
Methylene chloride	0.8600	0.15	1	0	86.0	87.8	123	0.87	1.16	0	S
o-Xylene	1.190	0.15	1	0	119	80.5	139	1.15	3.42	0	
Propylene	1.550	0.15	1	0.69	86.0	73.8	124	1.44	7.36	0	B
Styrene	1.240	0.15	1	0	124	82.7	138	1.2	3.28	0	
Tetrachloroethylene	1.280	0.15	1	0	128	85.9	122	1.21	5.62	0	S
Tetrahydrofuran	1.000	0.15	1	0	100	65.5	134	1.08	7.69	0	

Qualifiers:
- `-` Results reported are not blank corrected
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Centek/SanAir Laboratories

Sample ID: ALCSD1UG-062422 SampType: LCSD TestCode: 0.20_NYS Units: ppbV Prep Date: RunNo: 19132
Client ID: ZZZZZ Batch ID: R19132 TestNo: TO-15 Analysis Date: 6/25/2022 SeqNo: 218344

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.200	0.15	1	0	120	77.8	127	1.14	5.13	0	
trans-1,2-Dichloroethene	0.9900	0.15	1	0	99.0	83.3	116	1.04	4.93	0	
trans-1,3-Dichloropropene	1.660	0.15	1	0	166	84.8	134	1.6	3.68	0	S
Trichloroethene	1.210	0.030	1	0	121	79.3	117	1.2	0.830	0	S
Vinyl acetate	0.9800	0.15	1	0	98.0	70.5	101	0.97	1.03	0	
Vinyl Bromide	1.330	0.15	1	0	133	81.4	142	1.29	3.05	0	
Vinyl chloride	1.190	0.040	1	0	119	70.4	138	1.17	1.69	0	

Sample ID: ALCS1UGD-062822 SampType: LCSD TestCode: 0.20_NYS Units: ppbV Prep Date: RunNo: 19134
Client ID: ZZZZZ Batch ID: R19134 TestNo: TO-15 Analysis Date: 6/29/2022 SeqNo: 218384

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.230	0.15	1	0	123	91.3	127	1.21	1.64	0	
1,1,2,2-Tetrachloroethane	0.8400	0.15	1	0	84.0	78.7	121	0.83	1.20	0	
1,1,2-Trichloroethane	0.8900	0.15	1	0	89.0	88.1	136	0.84	5.78	0	
1,1-Dichloroethane	0.8100	0.15	1	0	81.0	86.1	123	0.82	1.23	0	S
1,1-Dichloroethene	0.8400	0.040	1	0	84.0	70	94	0.79	6.13	0	
1,2,4-Trichlorobenzene	1.150	0.15	1	0	115	76.7	112	1.01	13.0	0	S
1,2,4-Trimethylbenzene	0.8500	0.15	1	0	85.0	74.3	123	0.87	2.33	0	
1,2-Dibromoethane	0.9600	0.15	1	0	96.0	80.4	125	0.94	2.11	0	
1,2-Dichlorobenzene	1.000	0.15	1	0	100	79.5	143	0.96	4.08	0	
1,2-Dichloroethane	0.9200	0.15	1	0	92.0	70.9	133	0.9	2.20	0	
1,2-Dichloropropane	0.7400	0.15	1	0	74.0	91	134	0.77	3.97	0	S
1,3,5-Trimethylbenzene	0.8900	0.15	1	0	89.0	77.4	138	0.88	1.13	0	
1,3-butadiene	0.9900	0.15	1	0	99.0	71	144	1.02	2.99	0	
1,3-Dichlorobenzene	0.9700	0.15	1	0	97.0	84.7	128	0.91	6.38	0	
1,4-Dichlorobenzene	0.9800	0.15	1	0	98.0	77.9	131	0.97	1.03	0	
1,4-Dioxane	0.9700	0.30	1	0	97.0	60.9	133	0.93	4.21	0	
2,2,4-trimethylpentane	0.7500	0.15	1	0	75.0	86.9	126	0.72	4.08	0	S
4-ethyltoluene	0.8700	0.15	1	0	87.0	77.5	133	0.87	0	0	

Qualifiers:
- `-` Results reported are not blank corrected
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Centek/SanAir Laboratories

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 0.20_NYS

Sample ID: **ALCS1UGD-062822** SampType: **LCSD** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **19134**
Client ID: **ZZZZZ** Batch ID: **R19134** TestNo: **TO-15** Analysis Date: **6/29/2022** SeqNo: **218384**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	0.9900	0.30	1	0	99.0	46.7	155	1.1	10.5	0	
Allyl chloride	0.6600	0.15	1	0	66.0	86.6	117	0.74	11.4	0	S
Benzene	0.8400	0.15	1	0	84.0	88.9	122	0.82	2.41	0	S
Benzyl chloride	1.290	0.15	1	0	129	73.6	120	1.3	0.772	0	S
Bromodichloromethane	1.010	0.15	1	0	101	84.3	133	1	0.995	0	
Bromoform	1.240	0.15	1	0	124	44.6	149	1.21	2.45	0	
Bromomethane	1.140	0.15	1	0	114	78.7	144	1.12	1.77	0	
Carbon disulfide	0.7200	0.15	1	0	72.0	76.9	109	0.72	0	0	S
Carbon tetrachloride	1.420	0.030	1	0	142	71	120	1.3	8.82	0	S
Chlorobenzene	0.8800	0.15	1	0	88.0	82.6	121	0.86	2.30	0	
Chloroethane	1.050	0.15	1	0	105	67.1	146	1.06	0.948	0	
Chloroform	0.9200	0.15	1	0	92.0	82.5	125	0.92	0	0	
Chloromethane	1.160	0.15	1	0	116	71.1	154	1.09	6.22	0	
cis-1,2-Dichloroethene	0.7800	0.040	1	0	78.0	71.2	112	0.8	2.53	0	
cis-1,3-Dichloropropene	0.9900	0.15	1	0	99.0	90.3	137	0.97	2.04	0	
Cyclohexane	0.7500	0.15	1	0	75.0	87	122	0.72	4.08	0	S
Dibromochloromethane	1.120	0.15	1	0	112	62.8	132	1.11	0.897	0	
Ethyl acetate	0.7700	0.15	1	0	77.0	86.9	134	0.79	2.56	0	S
Ethylbenzene	0.8600	0.15	1	0	86.0	76.9	123	0.87	1.16	0	
Freon 11	1.190	0.15	1	0	119	54.4	150	1.17	1.69	0	
Freon 113	0.9100	0.15	1	0	91.0	83.4	124	0.9	1.10	0	
Freon 114	1.200	0.15	1	0	120	70.2	133	1.16	3.39	0	
Freon 12	0.9500	0.15	1	0	95.0	86.3	135	0.93	2.13	0	
Heptane	0.9200	0.15	1	0	92.0	86.5	137	0.89	3.31	0	
Hexachloro-1,3-butadiene	1.090	0.15	1	0	109	48.1	160	1.08	0.922	0	
Hexane	0.7700	0.15	1	0	77.0	77.3	128	0.76	1.31	0	S
Isopropyl alcohol	1.030	0.15	1	0	103	80.2	122	0.84	20.3	0	
m&p-Xylene	1.750	0.30	2	0	87.5	77.9	132	1.75	0	0	
Methyl Butyl Ketone	0.8500	0.30	1	0	85.0	69.4	131	0.93	8.99	0	
Methyl Ethyl Ketone	0.8500	0.30	1	0	85.0	71.5	117	0.78	8.59	0	
Methyl Isobutyl Ketone	0.7500	0.30	1	0	75.0	63.5	141	0.84	11.3	0	

Qualifiers:
- `.` Results reported are not blank corrected
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 0.20_NYS

Sample ID: ALCS1UGD-062822	SampType: LCSD	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 19134
Client ID: ZZZZZ	Batch ID: R19134	TestNo: TO-15		Analysis Date: 6/29/2022	SeqNo: 218384

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.9000	0.15	1	0	90.0	80.6	113	0.9	0	0	
Methylene chloride	0.7100	0.15	1	0	71.0	87.8	123	0.68	4.32	0	S
o-Xylene	0.8600	0.15	1	0	86.0	80.5	139	0.86	0	0	
Propylene	1.260	0.15	1	0.59	67.0	73.8	124	1.18	6.56	0	BS
Styrene	0.8600	0.15	1	0	86.0	82.7	138	0.85	1.17	0	
Tetrachloroethylene	0.9400	0.15	1	0	94.0	85.9	122	0.91	3.24	0	
Tetrahydrofuran	0.7100	0.15	1	0	71.0	65.5	134	0.74	4.14	0	
Toluene	0.8200	0.15	1	0	82.0	77.8	127	0.83	1.21	0	
trans-1,2-Dichloroethene	0.7900	0.15	1	0	79.0	83.3	116	0.79	0	0	S
trans-1,3-Dichloropropene	1.100	0.15	1	0	110	84.8	134	1.11	0.905	0	
Trichloroethene	0.9600	0.030	1	0	96.0	79.3	117	0.93	3.17	0	
Vinyl acetate	0.7100	0.15	1	0	71.0	70.5	101	0.75	5.48	0	
Vinyl Bromide	1.240	0.15	1	0	124	81.4	142	1.21	2.45	0	
Vinyl chloride	1.100	0.040	1	0	110	70.4	138	1.09	0.913	0	

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Centek/SanAir Laboratories

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: **ALCS1UGD-062722** SampType: **LCSD** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **19133**
Client ID: **ZZZZZ** Batch ID: **R19133** TestNo: **TO-15** Analysis Date: **6/27/2022** SeqNo: **218370**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.570	0.15	1	0	157	65.1	164	1.54	1.93	0	
1,1,2,2-Tetrachloroethane	1.120	0.15	1	0	112	71	129	1.02	9.35	0	
1,1,2-Trichloroethane	1.150	0.15	1	0	115	69.5	134	1.16	0.866	0	
1,1-Dichloroethane	1.080	0.15	1	0	108	74.1	116	1.04	3.77	0	
1,1-Dichloroethene	1.070	0.15	1	0	107	68.6	109	1.05	1.89	0	
1,2,4-Trichlorobenzene	1.860	0.15	1	0	186	49	144	1.81	2.72	0	S
1,2,4-Trimethylbenzene	1.250	0.15	1	0	125	58.7	126	1.18	5.76	0	
1,2-Dibromoethane	1.300	0.15	1	0	130	72.5	134	1.26	3.12	0	
1,2-Dichlorobenzene	1.440	0.15	1	0	144	75.1	133	1.33	7.94	0	S
1,2-Dichloroethane	1.140	0.15	1	0	114	74.3	120	1.08	5.41	0	
1,2-Dichloropropane	1.030	0.15	1	0	103	64	135	1.04	0.966	0	
1,3,5-Trimethylbenzene	1.240	0.15	1	0	124	76.6	132	1.16	6.67	0	
1,3-butadiene	1.180	0.15	1	0	118	64.4	144	1.1	7.02	0	
1,3-Dichlorobenzene	1.350	0.15	1	0	135	77.9	127	1.28	5.32	0	S
1,4-Dichlorobenzene	1.400	0.15	1	0	140	79.3	128	1.28	8.96	0	S
1,4-Dioxane	1.470	0.30	1	0	147	66.6	133	1.52	3.34	0	S
2,2,4-trimethylpentane	1.010	0.15	1	0	101	68.2	120	0.98	3.02	0	
4-ethyltoluene	1.260	0.15	1	0	126	76.5	127	1.17	7.41	0	
Acetone	1.270	0.30	1	0	127	49.8	156	0.99	24.8	0	
Allyl chloride	0.9000	0.15	1	0	90.0	61.9	116	0.91	1.10	0	
Benzene	1.080	0.15	1	0	108	72.1	124	1.08	0	0	
Benzyl chloride	1.930	0.15	1	0	193	28.8	224	1.86	3.69	0	
Bromodichloromethane	1.290	0.15	1	0	129	69.3	145	1.27	1.56	0	
Bromoform	1.620	0.15	1	0	162	46.1	162	1.38	16.0	0	S
Bromomethane	1.250	0.15	1	0	125	71.4	140	1.28	2.37	0	
Carbon disulfide	0.9400	0.15	1	0	94.0	70.2	112	0.92	2.15	0	
Carbon tetrachloride	1.800	0.15	1	0	180	44.9	182	1.58	13.0	0	
Chlorobenzene	1.210	0.15	1	0	121	76.6	119	1.17	3.36	0	S
Chloroethane	1.310	0.15	1	0	131	66	145	1.27	3.10	0	
Chloroform	1.170	0.15	1	0	117	79.3	116	1.13	3.48	0	S
Chloromethane	1.330	0.15	1	0	133	66.4	148	1.21	9.45	0	

Qualifiers:
- `-` Results reported are not blank corrected
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- DL Detection Limit
- J Analyte detected below quantitation limit
- S Spike Recovery outside accepted recovery limits
- E Estimated Value above quantitation range
- ND Not Detected at the Limit of Detection

Centek/SanAir Laboratories

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: **ALCS1UGD-062722** SampType: **LCSD** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **19133**
Client ID: **ZZZZZ** Batch ID: **R19133** TestNo: **TO-15** Analysis Date: **6/27/2022** SeqNo: **218370**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,2-Dichloroethene	1.020	0.15	1	0	102	65.4	110	0.96	6.06	0	
cis-1,3-Dichloropropene	1.340	0.15	1	0	134	63.7	150	1.3	3.03	0	
Cyclohexane	0.9700	0.15	1	0	97.0	69.6	116	0.97	0	0	
Dibromochloromethane	1.500	0.15	1	0	150	66.7	145	1.31	13.5	0	S
Ethyl acetate	1.190	0.15	1	0	119	66.5	122	1.14	4.29	0	
Ethylbenzene	1.200	0.15	1	0	120	73.4	117	1.11	7.79	0	S
Freon 11	1.450	0.15	1	0	145	79.8	140	1.05	32.0	0	S
Freon 113	1.180	0.15	1	0	118	79.5	115	1.13	4.33	0	S
Freon 114	1.410	0.15	1	0	141	74.6	140	1.32	6.59	0	S
Freon 12	1.190	0.15	1	0	119	73.7	134	1.1	7.86	0	
Heptane	0.9100	0.15	1	0	91.0	65.1	120	0.92	1.09	0	
Hexachloro-1,3-butadiene	1.600	0.15	1	0	160	68.8	142	1.51	5.79	0	S
Hexane	1.050	0.15	1	0	105	63.1	115	0.99	5.88	0	
Isopropyl alcohol	1.250	0.15	1	0	125	57.6	143	1.01	21.2	0	
m&p-Xylene	2.410	0.30	2	0	120	77.7	123	2.27	5.98	0	
Methyl Butyl Ketone	1.720	0.30	1	0	172	65	121	1.42	19.1	0	S
Methyl Ethyl Ketone	1.250	0.30	1	0	125	66.9	115	1.23	1.61	0	S
Methyl Isobutyl Ketone	1.310	0.30	1	0	131	63.2	123	1.15	13.0	0	S
Methyl tert-butyl ether	1.280	0.15	1	0	128	54	140	1.21	5.62	0	
Methylene chloride	0.9400	0.15	1	0	94.0	68.3	121	0.98	4.17	0	
o-Xylene	1.170	0.15	1	0	117	74.9	134	1.09	7.08	0	
Propylene	1.320	0.15	1	0	132	58	124	1.33	0.755	0	S
Styrene	1.220	0.15	1	0	122	75.3	130	1.16	5.04	0	
Tetrachloroethylene	1.260	0.15	1	0	126	77.1	125	1.24	1.60	0	S
Tetrahydrofuran	0.9800	0.15	1	0	98.0	58	117	0.97	1.03	0	
Toluene	1.170	0.15	1	0	117	72.8	121	1.1	6.17	0	
trans-1,2-Dichloroethene	1.020	0.15	1	0	102	72.5	110	1.02	0	0	
trans-1,3-Dichloropropene	1.590	0.15	1	0	159	43.4	181	1.48	7.17	0	
Trichloroethene	1.220	0.15	1	0	122	62.5	127	1.23	0.816	0	
Vinyl acetate	0.9700	0.15	1	0	97.0	52.9	123	0.96	1.04	0	
Vinyl Bromide	1.510	0.15	1	0	151	72.4	140	1.3	14.9	0	S

Qualifiers:
. Results reported are not blank corrected
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
DL Detection Limit
J Analyte detected below quantitation limit
S Spike Recovery outside accepted recovery limits
E Estimated Value above quantitation range
ND Not Detected at the Limit of Detection

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: **ALCS1UGD-062722** SampType: **LCSD** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **19133**
Client ID: **ZZZZZ** Batch ID: **R19133** TestNo: **TO-15** Analysis Date: **6/27/2022** SeqNo: **218370**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.230	0.15	1	0	123	65.2	139	1.23	0	0	

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062423.D Vial: 23
Acq On : 25 Jun 2022 3:14 am Operator: RJP
Sample : ALCSD1UG-062422 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 27 11:12:15 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.70	128	39162	1.00	ppb		0.02
35) 1,4-difluorobenzene	11.99	114	168759	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	143882	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.62	95	103934	1.00	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
2) Propylene	4.08	41	37437m	1.43	ppb		
3) Freon 12	4.14	85	201337	1.12	ppb		99
4) Chloromethane	4.33	50	52635	1.19	ppb		96
5) Freon 114	4.33	85	187457	1.27	ppb		98
6) Vinyl Chloride	4.52	62	50488	1.19	ppb		98
7) Butane	4.63	43	55888	1.08	ppb		96
8) 1,3-butadiene	4.63	39	44361	1.07	ppb		93
9) Bromomethane	4.96	94	70375	1.23	ppb		94
10) Chloroethane	5.14	64	24103	1.16	ppb		99
11) Ethanol	5.24	45	12401	0.87	ppb		89
12) Acrolein	5.80	56	15181	1.07	ppb		93
13) Vinyl Bromide	5.47	106	73037m	1.22	ppb		
14) Freon 11	5.74	101	274933	1.23	ppb		98
15) Acetone	5.91	58	26574	1.17	ppb	#	81
16) Pentane	6.01	42	42236	1.14	ppb		97
17) Isopropyl alcohol	6.01	45	78533	1.18	ppb		88
18) 1,1-dichloroethene	6.51	96	50318	1.08	ppb		98
19) Freon 113	6.69	101	122341	1.10	ppb		98
20) t-Butyl alcohol	6.73	59	93534	1.26	ppb		98
21) Methylene chloride	6.96	84	42763	0.86	ppb		97
22) Allyl chloride	6.94	41	40740	0.91	ppb		97
23) Carbon disulfide	7.12	76	133899	0.90	ppb		98
24) trans-1,2-dichloroethene	7.90	61	67270	0.99	ppb		99
25) methyl tert-butyl ether	7.91	73	131565	1.18	ppb		99
26) 1,1-dichloroethane	8.32	63	84684	1.05	ppb		98
27) Vinyl acetate	8.30	43	61518	0.98	ppb		98
28) Methyl Ethyl Ketone	8.80	72	24247	1.25	ppb	#	100
29) cis-1,2-dichloroethene	9.25	61	66066	1.02	ppb		96
30) Hexane	8.85	57	50844m	0.88	ppb		
31) Ethyl acetate	9.39	43	108218	1.18	ppb		100
32) Chloroform	9.86	83	135728	1.11	ppb		100
33) Tetrahydrofuran	10.02	42	34058	1.00	ppb		98
34) 1,2-dichloroethane	10.97	62	96854	1.05	ppb		97
36) 1,1,1-trichloroethane	10.68	97	148862m	1.41	ppb		
37) Cyclohexane	11.40	56	51172	1.00	ppb		90
38) Carbon tetrachloride	11.34	117	176022m	1.57	ppb		
39) Benzene	11.30	78	134740	1.11	ppb		99
40) Methyl methacrylate	12.88	41	64117	1.28	ppb		97
41) 1,4-dioxane	12.90	88	45270	1.55	ppb		100
42) 2,2,4-trimethylpentane	12.17	57	163802	1.03	ppb		97
43) Heptane	12.52	43	55429	0.97	ppb		98
44) Trichloroethene	12.65	130	80122	1.21	ppb		99
45) 1,2-dichloropropane	12.76	63	43108	1.08	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062423.D Vial: 23
Acq On : 25 Jun 2022 3:14 am Operator: RJP
Sample : ALCSD1UG-062422 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 27 11:12:15 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

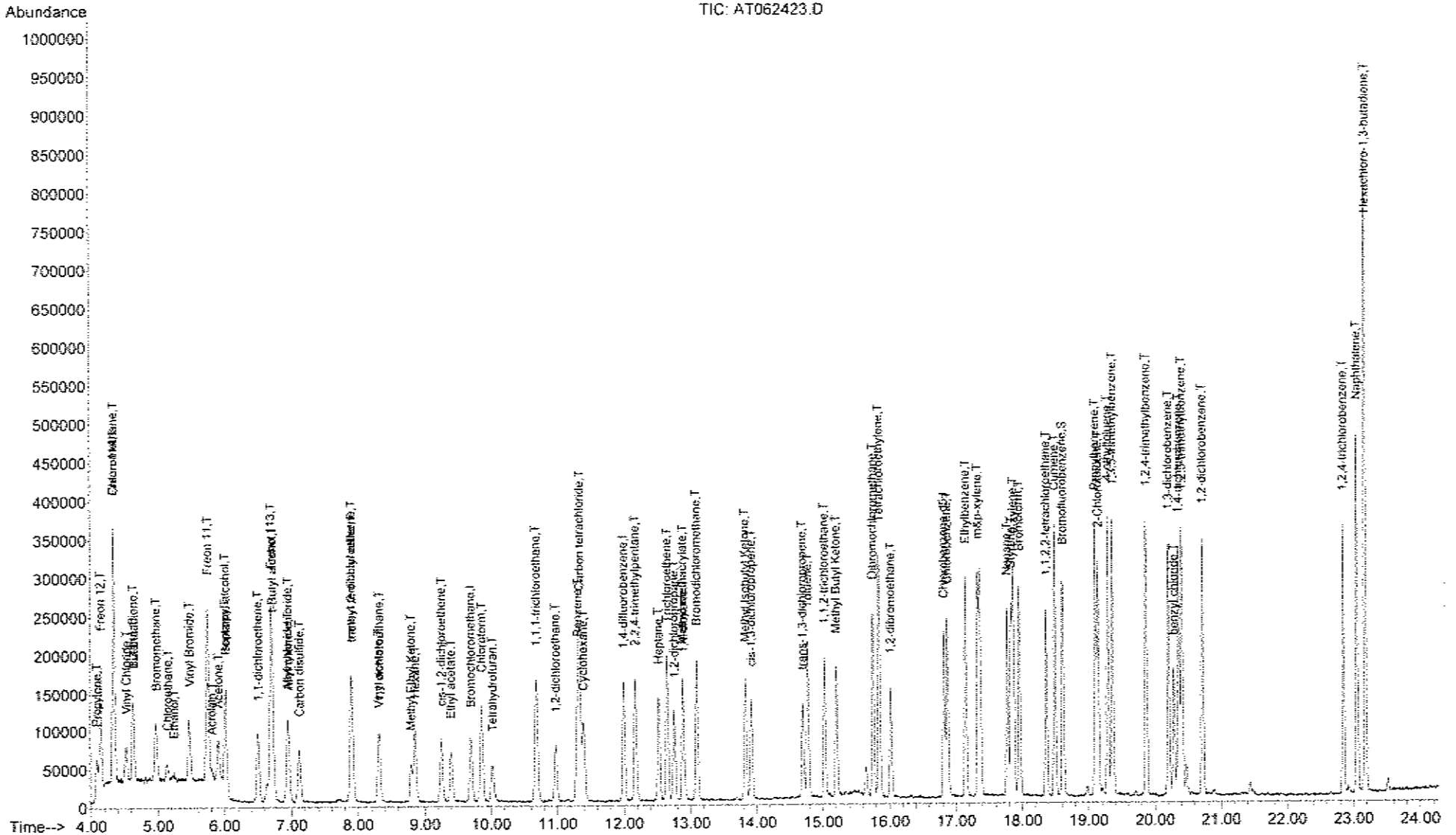
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	Bromodichloromethane	13.09	83	145838	1.24	ppb	96
47)	cis-1,3-dichloropropene	13.92	75	77002m	1.21	ppb	
48)	trans-1,3-dichloropropene	14.70	75	72655m	1.38	ppb	
49)	1,1,2-trichloroethane	15.02	97	64107	1.18	ppb	99
51)	Toluene	14.77	92	102280	1.20	ppb	95
52)	Methyl Isobutyl Ketone	13.83	43	98095m	1.29	ppb	
53)	Dibromochloromethane	15.75	129	146365m	1.36	ppb	
54)	Methyl Butyl Ketone	15.20	43	126690	1.84	ppb	98
55)	1,2-dibromoethane	16.02	107	105830	1.34	ppb	99
56)	Tetrachloroethylene	15.85	164	84347	1.28	ppb	100
57)	Chlorobenzene	16.88	112	151973	1.23	ppb	99
58)	Ethylbenzene	17.15	91	235629	1.20	ppb	100
59)	m&p-xylene	17.33	91	394987	2.45	ppb	98
60)	Nonane	17.78	43	80381	0.98	ppb	99
61)	Styrene	17.83	104	147759	1.24	ppb	97
62)	Bromoform	17.96	173	148660m	1.55	ppb	
63)	o-xylene	17.87	91	203410	1.19	ppb	98
64)	Cumene	18.49	105	275270	1.22	ppb	98
66)	1,1,2,2-tetrachloroethane	18.36	83	124334	1.23	ppb	99
67)	Propylbenzene	19.10	120	76521	1.23	ppb	94
68)	2-Chlorotoluene	19.15	126	73165	1.23	ppb	95
69)	4-ethyltoluene	19.29	105	277613	1.25	ppb	99
70)	1,3,5-trimethylbenzene	19.36	105	240794	1.21	ppb	100
71)	1,2,4-trimethylbenzene	19.87	105	240362	1.24	ppb	99
72)	1,3-dichlorobenzene	20.21	146	166057	1.32	ppb	99
73)	benzyl chloride	20.29	91	140655	1.99	ppb	95
74)	1,4-dichlorobenzene	20.36	146	168745	1.37	ppb	99
75)	1,2,3-trimethylbenzene	20.41	105	253871	1.28	ppb	100
76)	1,2-dichlorobenzene	20.72	146	166603	1.40	ppb	98
77)	1,2,4-trichlorobenzene	22.84	180	118277	1.83	ppb	98
78)	Naphthalene	23.05	128	408422	2.72	ppb	100
79)	Hexachloro-1,3-butadiene	23.17	225	166103	1.54	ppb	98

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062423.D Vial: 23
Acq On : 25 Jun 2022 3:14 am Operator: RJP
Sample : ALCSD1UG-062422 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 13:00 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062826.D Vial: 18
Acq On : 29 Jun 2022 2:39 am Operator: RJP
Sample : ALCS1UGD-062822 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 29 07:10:12 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.69	128	24160	1.00	ppb		0.00
35) 1,4-difluorobenzene	12.00	114	107538	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	97761	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	67926	0.96	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96.00%				
Target Compounds							Qvalue
2) Propylene	4.08	41	20208	1.26	ppb		90
3) Freon 12	4.14	85	105468	0.95	ppb		99
4) Chloromethane	4.33	50	31501	1.16	ppb		97
5) Freon 114	4.33	85	109645	1.20	ppb		99
6) Vinyl Chloride	4.52	62	28762	1.10	ppb		100
7) Butane	4.62	43	32524	1.01	ppb		99
8) 1,3-butadiene	4.62	39	25443	0.99	ppb		93
9) Bromomethane	4.96	94	40388	1.14	ppb		97
10) Chloroethane	5.14	64	13503	1.05	ppb		91
11) Ethanol	5.22	45	6409	0.73	ppb		89
12) Acrolein	5.81	56	8449	0.97	ppb		98
13) Vinyl Bromide	5.48	106	45720	1.24	ppb		94
14) Freon 11	5.74	101	164621	1.19	ppb		99
15) Acetone	5.91	58	13874	0.99	ppb	#	73
16) Pentane	6.02	42	24606	1.08	ppb		94
17) Isopropyl alcohol	6.02	45	41957	1.03	ppb		99
18) 1,1-dichloroethene	6.50	96	24275	0.84	ppb		94
19) Freon 113	6.70	101	62493	0.91	ppb		95
20) t-Butyl alcohol	6.73	59	39190	0.85	ppb		97
21) Methylene chloride	6.96	84	21845m	0.71	ppb		
22) Allyl chloride	6.94	41	18037	0.66	ppb		97
23) Carbon disulfide	7.11	76	65470	0.72	ppb		98
24) trans-1,2-dichloroethene	7.90	61	32975	0.79	ppb		97
25) methyl tert-butyl ether	7.91	73	61845	0.90	ppb		100
26) 1,1-dichloroethane	8.32	63	40327	0.81	ppb		98
27) Vinyl acetate	8.31	43	27758m	0.71	ppb		
28) Methyl Ethyl Ketone	8.80	72	10111	0.85	ppb	#	100
29) cis-1,2-dichloroethene	9.25	61	31133	0.78	ppb		98
30) Hexane	8.85	57	27421m	0.77	ppb		
31) Ethyl acetate	9.40	43	43387	0.77	ppb		96
32) Chloroform	9.86	83	69568	0.92	ppb		99
33) Tetrahydrofuran	10.02	42	14815	0.71	ppb		93
34) 1,2-dichloroethane	10.98	62	52591	0.92	ppb		100
36) 1,1,1-trichloroethane	10.68	97	82904	1.23	ppb		99
37) Cyclohexane	11.40	56	24347	0.75	ppb	#	87
38) Carbon tetrachloride	11.34	117	101714	1.42	ppb		100
39) Benzene	11.30	78	64991	0.84	ppb		97
40) Methyl methacrylate	12.89	41	26295	0.83	ppb		97
41) 1,4-dioxane	12.90	88	18043	0.97	ppb		94
42) 2,2,4-trimethylpentane	12.17	57	76647	0.75	ppb		94
43) Heptane	12.53	43	33538m	0.92	ppb		
44) Trichloroethene	12.65	130	40445	0.96	ppb		96
45) 1,2-dichloropropane	12.76	63	18686	0.74	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062826.D
Acq On : 29 Jun 2022 2:39 am
Sample : ALCS1UGD-062822
Misc : A613_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 29 07:10:12 2022

Vial: 18
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

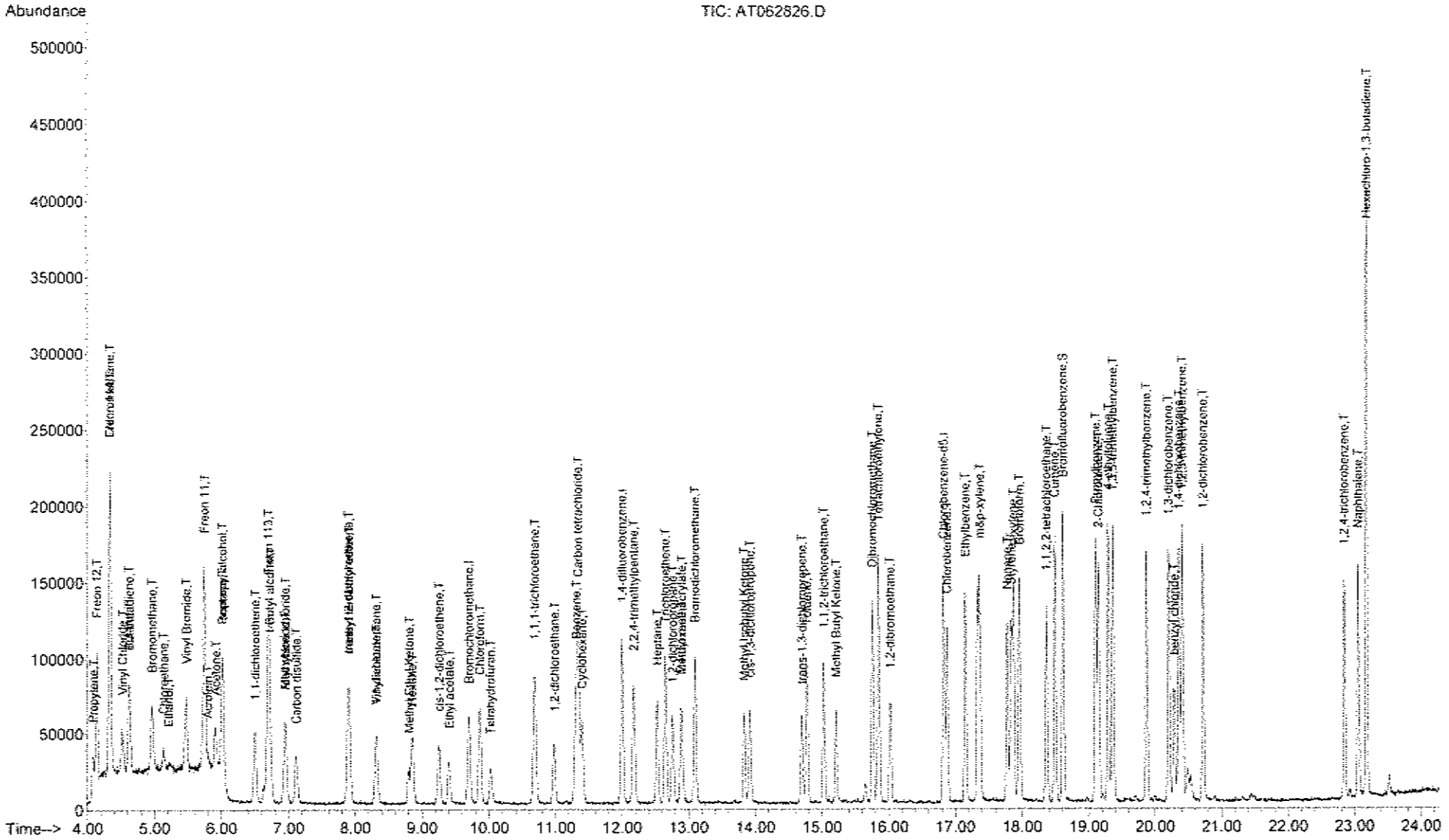
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	Bromodichloromethane	13.10	83	75735	1.01	ppb	100
47)	cis-1,3-dichloropropene	13.92	75	39835	0.99	ppb	98
48)	trans-1,3-dichloropropene	14.70	75	36850	1.10	ppb	99
49)	1,1,2-trichloroethane	15.02	97	31024	0.89	ppb	99
51)	Toluene	14.77	92	47449	0.82	ppb	99
52)	Methyl Isobutyl Ketone	13.83	43	38611	0.75	ppb	97
53)	Dibromochloromethane	15.76	129	81996	1.12	ppb	98
54)	Methyl Butyl Ketone	15.21	43	39997	0.85	ppb	96
55)	1,2-dibromoethane	16.03	107	51412	0.96	ppb	99
56)	Tetrachloroethylene	15.85	164	41848	0.94	ppb	100
57)	Chlorobenzene	16.88	112	74134	0.88	ppb	100
58)	Ethylbenzene	17.15	91	114501	0.86	ppb	100
59)	m&p-xylene	17.37	91	190971	1.75	ppb	98
60)	Nonane	17.78	43	34662	0.62	ppb	96
61)	Styrene	17.83	104	69320	0.86	ppb	95
62)	Bromoform	17.96	173	80997	1.24	ppb	99
63)	o-xylene	17.87	91	99703	0.86	ppb	99
64)	Cumene	18.49	105	135098	0.88	ppb	97
66)	1,1,2,2-tetrachloroethane	18.36	83	57684	0.84	ppb	98
67)	Propylbenzene	19.10	120	37663	0.89	ppb	99
68)	2-Chlorotoluene	19.14	126	36035	0.89	ppb	99
69)	4-ethyltoluene	19.29	105	131885	0.87	ppb	100
70)	1,3,5-trimethylbenzene	19.36	105	120146	0.89	ppb	96
71)	1,2,4-trimethylbenzene	19.88	105	112109	0.85	ppb	98
72)	1,3-dichlorobenzene	20.21	146	82994	0.97	ppb	99
73)	benzyl chloride	20.28	91	61882	1.29	ppb	98
74)	1,4-dichlorobenzene	20.36	146	81824	0.98	ppb	98
75)	1,2,3-trimethylbenzene	20.41	105	120942	0.90	ppb	97
76)	1,2-dichlorobenzene	20.72	146	80489	1.00	ppb	99
77)	1,2,4-trichlorobenzene	22.85	180	50537	1.15	ppb	95
78)	Naphthalene	23.05	128	141887	1.39	ppb	98
79)	Hexachloro-1,3-butadiene	23.18	225	80033	1.09	ppb	96

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062826.D Vial: 18
Acq On : 29 Jun 2022 2:39 am Operator: RJP
Sample : ALCS1UGD-062822 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 29 7:38 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062719.D Vial: 19
Acq On : 27 Jun 2022 11:26 pm Operator: RJP
Sample : ALCS1UGD-062722 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 07:18:38 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.70	128	31728	1.00	ppb		0.00
35) 1,4-difluorobenzene	12.00	114	144671	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	128413	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	88974	0.96	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96.00%				
Target Compounds							Qvalue
2) Propylene	4.08	41	27931m	1.32	ppb		
3) Freon 12	4.14	85	174529	1.19	ppb		100
4) Chloromethane	4.33	50	47485	1.33	ppb		96
5) Freon 114	4.34	85	169150	1.41	ppb		99
6) Vinyl Chloride	4.53	62	42453m	1.23	ppb		
7) Butane	4.63	43	50573	1.20	ppb		97
8) 1,3-butadiene	4.63	39	39628	1.18	ppb		95
9) Bromomethane	4.96	94	58159m	1.25	ppb		
10) Chloroethane	5.14	64	21999	1.31	ppb		89
11) Ethanol	5.23	45	11944	1.04	ppb		93
12) Acrolein	5.81	56	13519	1.18	ppb		99
13) Vinyl Bromide	5.47	106	73214	1.51	ppb		98
14) Freon 11	5.75	101	262218	1.45	ppb		99
15) Acetone	5.91	58	23375m	1.27	ppb		
16) Pentane	6.02	42	34994	1.17	ppb		98
17) Isopropyl alcohol	6.01	45	66985	1.25	ppb		82
18) 1,1-dichloroethene	6.50	96	40618	1.07	ppb		90
19) Freon 113	6.70	101	106375	1.18	ppb		96
20) t-Butyl alcohol	6.73	59	81070	1.35	ppb		98
21) Methylene chloride	6.97	84	37854	0.94	ppb		99
22) Allyl chloride	6.94	41	32594	0.90	ppb		95
23) Carbon disulfide	7.12	76	112778	0.94	ppb		99
24) trans-1,2-dichloroethene	7.89	61	56340	1.02	ppb		99
25) methyl tert-butyl ether	7.90	73	115001	1.28	ppb		98
26) 1,1-dichloroethane	8.31	63	70594	1.08	ppb		100
27) Vinyl acetate	8.30	43	49575	0.97	ppb		100
28) Methyl Ethyl Ketone	8.80	72	19652	1.25	ppb	#	100
29) cis-1,2-dichloroethene	9.25	61	53816	1.02	ppb		99
30) Hexane	8.86	57	49536	1.05	ppb		99
31) Ethyl acetate	9.40	43	87859	1.19	ppb		98
32) Chloroform	9.85	83	116857	1.17	ppb		100
33) Tetrahydrofuran	10.02	42	27128	0.98	ppb		93
34) 1,2-dichloroethane	10.97	62	85510	1.14	ppb		99
36) 1,1,1-trichloroethane	10.68	97	141946	1.57	ppb		98
37) Cyclohexane	11.40	56	42545	0.97	ppb		88
38) Carbon tetrachloride	11.34	117	172976	1.80	ppb		99
39) Benzene	11.30	78	112860	1.08	ppb		98
40) Methyl methacrylate	12.88	41	53480	1.25	ppb		100
41) 1,4-dioxane	12.89	88	36802	1.47	ppb		99
42) 2,2,4-trimethylpentane	12.17	57	138027	1.01	ppb		95
43) Heptane	12.52	43	44605	0.91	ppb		96
44) Trichloroethene	12.65	130	69433	1.22	ppb		98
45) 1,2-dichloropropane	12.76	63	35060	1.03	ppb		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062719.D Vial: 19
Acq On : 27 Jun 2022 11:26 pm Operator: RJP
Sample : ALCS1UGD-062722 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 07:18:38 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

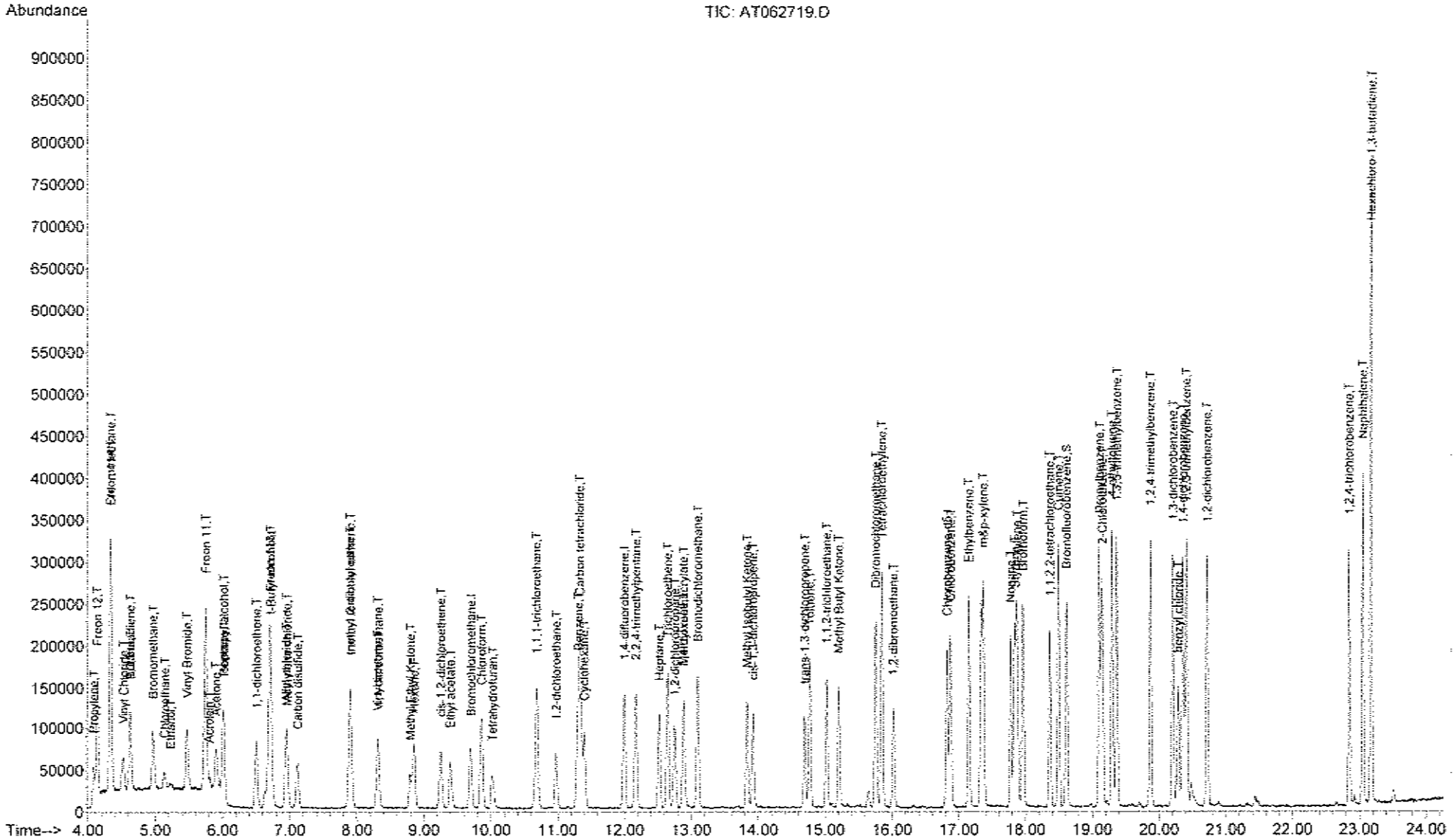
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
46)	Bromodichloromethane	13.10	83	129341	1.29 ppb	100
47)	cis-1,3-dichloropropene	13.92	75	72657	1.34 ppb	96
48)	trans-1,3-dichloropropene	14.69	75	72098	1.59 ppb	96
49)	1,1,2-trichloroethane	15.03	97	53974	1.15 ppb	99
51)	Toluene	14.78	92	89179	1.17 ppb	100
52)	Methyl Isobutyl Ketone	13.83	43	88518	1.31 ppb	96
53)	Dibromochloromethane	15.76	129	143512	1.50 ppb	98
54)	Methyl Butyl Ketone	15.20	43	105646	1.72 ppb	95
55)	1,2-dibromoethane	16.02	107	91771	1.30 ppb	98
56)	Tetrachloroethylene	15.85	164	74283	1.26 ppb	100
57)	Chlorobenzene	16.88	112	133694	1.21 ppb	98
58)	Ethylbenzene	17.15	91	210140	1.20 ppb	100
59)	m&p-xylene	17.36	91	346640	2.41 ppb	99
60)	Nonane	17.77	43	63868	0.87 ppb	98
61)	Styrene	17.84	104	129444	1.22 ppb	98
62)	Bromoform	17.96	173	138866	1.62 ppb	99
63)	o-xylene	17.87	91	179212	1.17 ppb	96
64)	Cumene	18.49	105	248946	1.23 ppb	98
66)	1,1,2,2-tetrachloroethane	18.37	83	101079	1.12 ppb	98
67)	Propylbenzene	19.10	120	70071	1.26 ppb	98
68)	2-Chlorotoluene	19.15	126	66454	1.26 ppb	98
69)	4-ethyltoluene	19.29	105	251232	1.26 ppb	97
70)	1,3,5-trimethylbenzene	19.36	105	220317	1.24 ppb	100
71)	1,2,4-trimethylbenzene	19.87	105	216444	1.25 ppb	99
72)	1,3-dichlorobenzene	20.20	146	152001	1.35 ppb	99
73)	benzyl chloride	20.28	91	121627	1.93 ppb	98
74)	1,4-dichlorobenzene	20.36	146	154116	1.40 ppb	99
75)	1,2,3-trimethylbenzene	20.41	105	227234	1.28 ppb	99
76)	1,2-dichlorobenzene	20.72	146	152140	1.44 ppb	98
77)	1,2,4-trichlorobenzene	22.85	180	107563	1.86 ppb	100
78)	Naphthalene	23.05	128	341193	2.54 ppb	100
79)	Hexachloro-1,3-butadiene	23.17	225	154658	1.60 ppb	96

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062719.D Vial: 19
Acq On : 27 Jun 2022 11:26 pm Operator: RJP
Sample : ALCS1UGD-062722 Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 7:30 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



Centek/SanAir Laboratories

Date: *07-Jul-22*

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: **C2206048-003A MS** SampType: **MS** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **19132**
Client ID: **SVW-2 MS/MSD** Batch ID: **R19132** TestNo: **TO-15** Analysis Date: **6/24/2022** SeqNo: **218365**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.130	0.15	1	0	113	68.1	117				
1,1,2,2-Tetrachloroethane	0.7600	0.15	1	0	76.0	82.3	101				S
1,1,2-Trichloroethane	0.8300	0.15	1	0	83.0	61	128				
1,1-Dichloroethane	0.7800	0.15	1	0	78.0	76.5	118				
1,1-Dichloroethene	0.7700	0.15	1	0	77.0	45.8	128				
1,2,4-Trichlorobenzene	1.200	0.15	1	0	120	70	262				
1,2,4-Trimethylbenzene	0.8500	0.15	1	0	85.0	81.5	155				
1,2-Dibromoethane	0.9200	0.15	1	0	92.0	78.7	107				
1,2-Dichlorobenzene	2.160	0.15	1	0	216	57.2	175				S
1,2-Dichloroethane	0.8400	0.15	1	0	84.0	65.1	130				
1,2-Dichloropropane	0.7400	0.15	1	0	74.0	69.9	116				
1,3,5-Trimethylbenzene	0.8800	0.15	1	0	88.0	67.6	139				
1,3-butadiene	1.490	0.15	1	0	149	70	130				S
1,3-Dichlorobenzene	0.8500	0.15	1	0	85.0	89.1	122				S
1,4-Dichlorobenzene	0.9100	0.15	1	0	91.0	86.8	114				
1,4-Dioxane	0.7900	0.30	1	0	79.0	75.1	114				
2,2,4-trimethylpentane	0.8000	0.15	1	0	80.0	84.2	113				S
4-ethyltoluene	0.8000	0.15	1	0	80.0	70	130				
Acetone	7.480	0.30	1	8.46	-98.0	70	130				S
Allyl chloride	0.7500	0.15	1	0	75.0	49.7	155				
Benzene	1.080	0.15	1	0.35	73.0	72.7	133				
Benzyl chloride	1.260	0.15	1	0	126	72.5	129				
Bromodichloromethane	0.9600	0.15	1	0	96.0	69.4	112				
Bromoform	1.040	0.15	1	0	104	42.5	110				
Bromomethane	1.020	0.15	1	0	102	68.6	121				

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: **C2206048-003A MS** SampType: **MS** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **19132**
Client ID: **SVW-2 MS/MSD** Batch ID: **R19132** TestNo: **TO-15** Analysis Date: **6/24/2022** SeqNo: **218365**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.7500	0.15	1	0.1	65.0	20.1	143				
Carbon tetrachloride	1.530	0.15	1	0.35	118	61	107				S
Chlorobenzene	0.7900	0.15	1	0	79.0	76.1	111				
Chloroethane	0.9100	0.15	1	0	91.0	62.6	119				
Chloroform	1.560	0.15	1	0.8	76.0	6.54	173				
Chloromethane	1.320	0.15	1	0.44	88.0	54.4	125				
cis-1,2-Dichloroethene	0.8600	0.15	1	0	86.0	60.1	121				
cis-1,3-Dichloropropene	0.9500	0.15	1	0	95.0	60.8	122				
Cyclohexane	0.8200	0.15	1	0	82.0	59.4	148				
Dibromochloromethane	1.050	0.15	1	0	105	71.5	102				S
Ethyl acetate	1.030	0.15	1	0.33	70.0	70	130				
Ethylbenzene	0.8400	0.15	1	0	84.0	68.5	129				
Freon 11	1.580	0.15	1	0.63	95.0	70	130				
Freon 113	0.9000	0.15	1	0	90.0	80.3	125				
Freon 114	1.000	0.15	1	0	100	65.2	132				
Freon 12	1.200	0.15	1	0.5	70.0	67.4	103				
Heptane	0.8700	0.15	1	0.17	70.0	80.8	124				S
Hexachloro-1,3-butadiene	0.9900	0.15	1	0	99.0	81.9	119				
Hexane	0.8900	0.15	1	0.21	68.0	73.7	147				S
Isopropyl alcohol	1.440	0.15	1	0	144	70	130				S
m&p-Xylene	1.770	0.30	2	0.19	79.0	74.2	123				
Methyl Butyl Ketone	0.8300	0.30	1	0	83.0	72.6	117				
Methyl Ethyl Ketone	0.9300	0.30	1	0.31	62.0	59.4	135				
Methyl Isobutyl Ketone	0.7900	0.30	1	0	79.0	61	120				
Methyl tert-butyl ether	0.8300	0.15	1	0	83.0	63.6	134				
Methylene chloride	1.200	0.15	1	0.51	69.0	53.4	125				
o-Xylene	0.8300	0.15	1	0	83.0	74.3	132				
Propylene	1.980	0.15	1	0	198	70	130				BS
Styrene	0.7800	0.15	1	0	78.0	82.4	118				S
Tetrachloroethylene	1.110	0.15	1	0.26	85.0	86.2	112				S
Tetrahydrofuran	0.7700	0.15	1	0	77.0	70	130				

Qualifiers:
. Results reported are not blank corrected
DL Detection Limit
E Estimated Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Centek/SanAir Laboratories

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: **C2206048-003A MS** SampType: **MS** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **19132**
Client ID: **SVW-2 MS/MSD** Batch ID: **R19132** TestNo: **TO-15** Analysis Date: **6/24/2022** SeqNo: **218365**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.510	0.15	1	0.77	74.0	70	130				
trans-1,2-Dichloroethene	0.8000	0.15	1	0	80.0	70.9	132				
trans-1,3-Dichloropropene	1.130	0.15	1	0	113	51.9	133				
Trichloroethene	1.130	0.15	1	0.23	90.0	63.1	109				
Vinyl acetate	0.9100	0.15	1	0	91.0	70	130				
Vinyl Bromide	1.040	0.15	1	0	104	71.3	121				
Vinyl chloride	0.9600	0.15	1	0	96.0	63.2	114				

Sample ID: **C2206048-003A MS** SampType: **MSD** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **19132**
Client ID: **SVW-2 MS/MSD** Batch ID: **R19132** TestNo: **TO-15** Analysis Date: **6/24/2022** SeqNo: **218366**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.190	0.15	1	0	119	68.1	117	1.13	5.17	0	S
1,1,2,2-Tetrachloroethane	0.7500	0.15	1	0	75.0	82.3	101	0.76	1.32	0	S
1,1,2-Trichloroethane	0.8400	0.15	1	0	84.0	61	128	0.83	1.20	0	
1,1-Dichloroethane	0.8200	0.15	1	0	82.0	76.5	118	0.78	5.00	0	
1,1-Dichloroethene	0.7800	0.15	1	0	78.0	45.8	128	0.77	1.29	0	
1,2,4-Trichlorobenzene	1.250	0.15	1	0	125	70	130	1.2	4.08	0	
1,2,4-Trimethylbenzene	0.8600	0.15	1	0	86.0	81.5	155	0.85	1.17	0	
1,2-Dibromoethane	0.9100	0.15	1	0	91.0	78.7	107	0.92	1.09	0	
1,2-Dichlorobenzene	2.110	0.15	1	0	211	57.2	175	2.16	2.34	0	S
1,2-Dichloroethane	0.8700	0.15	1	0	87.0	65.1	130	0.84	3.51	0	
1,2-Dichloropropane	0.7500	0.15	1	0	75.0	69.9	116	0.74	1.34	0	
1,3,5-Trimethylbenzene	0.8600	0.15	1	0	86.0	67.6	139	0.88	2.30	0	
1,3-butadiene	1.370	0.15	1	0	137	70	130	1.49	8.39	0	S
1,3-Dichlorobenzene	0.8600	0.15	1	0	86.0	89.1	122	0.85	1.17	0	S
1,4-Dichlorobenzene	0.8800	0.15	1	0	88.0	86.8	114	0.91	3.35	0	
1,4-Dioxane	0.8400	0.30	1	0	84.0	75.1	114	0.79	6.13	0	
2,2,4-trimethylpentane	0.8200	0.15	1	0	82.0	84.2	113	0.8	2.47	0	S
4-ethyltoluene	0.8000	0.15	1	0	80.0	70	130	0.8	0	0	

Qualifiers:
- `-` Results reported are not blank corrected
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- DL Detection Limit
- J Analyte detected below quantitation limit
- S Spike Recovery outside accepted recovery limits
- E Estimated Value above quantitation range
- ND Not Detected at the Limit of Detection

Sample ID: C2206048-003A MS SampType: MSD TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 19132
Client ID: SVW-2 MS/MSD Batch ID: R19132 TestNo: TO-15 Analysis Date: 6/24/2022 SeqNo: 218366

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	8.370	0.30	1	8.46	-9.00	70	130	7.48	11.2	0	S
Allyl chloride	0.7800	0.15	1	0	78.0	49.7	155	0.75	3.92	0	
Benzene	1.090	0.15	1	0.35	74.0	72.7	133	1.08	0.922	0	
Benzyl chloride	1.320	0.15	1	0	132	72.5	129	1.26	4.65	0	S
Bromodichloromethane	0.9700	0.15	1	0	97.0	69.4	112	0.96	1.04	0	
Bromoform	1.020	0.15	1	0	102	42.5	110	1.04	1.94	0	
Bromomethane	0.9900	0.15	1	0	99.0	68.6	121	1.02	2.99	0	
Carbon disulfide	0.7700	0.15	1	0.1	67.0	70	143	0.75	2.63	0	S
Carbon tetrachloride	1.580	0.15	1	0.35	123	61	107	1.53	3.22	0	S
Chlorobenzene	0.8100	0.15	1	0	81.0	76.1	111	0.79	2.50	0	
Chloroethane	0.9500	0.15	1	0	95.0	62.6	119	0.91	4.30	0	
Chloroform	1.510	0.15	1	0.8	71.0	70	130	1.56	3.26	0	
Chloromethane	1.280	0.15	1	0.44	84.0	54.4	125	1.32	3.08	0	
cis-1,2-Dichloroethene	0.9000	0.15	1	0	90.0	60.1	121	0.86	4.55	0	
cis-1,3-Dichloropropene	0.9800	0.15	1	0	98.0	60.8	122	0.95	3.11	0	
Cyclohexane	0.8500	0.15	1	0	85.0	59.4	148	0.82	3.59	0	
Dibromochloromethane	1.010	0.15	1	0	101	71.6	102	1.05	3.88	0	
Ethyl acetate	1.050	0.15	1	0.33	72.0	49.3	146	1.03	1.92	0	
Ethylbenzene	0.8000	0.15	1	0	80.0	68.5	129	0.84	4.88	0	
Freon 11	1.550	0.15	1	0.63	92.0	44.8	143	1.58	1.92	0	
Freon 113	0.8900	0.15	1	0	89.0	80.3	125	0.9	1.12	0	
Freon 114	1.030	0.15	1	0	103	65.2	132	1	2.96	0	
Freon 12	1.150	0.15	1	0.5	65.0	67.4	103	1.2	4.26	0	S
Heptane	0.8600	0.15	1	0.17	69.0	80.8	124	0.87	1.16	0	S
Hexachloro-1,3-butadiene	0.9400	0.15	1	0	94.0	81.9	119	0.99	5.18	0	
Hexane	1.080	0.15	1	0.21	87.0	73.7	147	0.89	19.3	0	
Isopropyl alcohol	1.460	0.15	1	0	146	70	130	1.44	1.38	0	S
m&p-Xylene	1.680	0.30	2	0.19	74.5	74.2	123	1.77	5.22	0	
Methyl Butyl Ketone	0.8100	0.30	1	0	81.0	72.6	117	0.83	2.44	0	
Methyl Ethyl Ketone	1.060	0.30	1	0.31	75.0	59.4	135	0.93	13.1	0	
Methyl Isobutyl Ketone	0.7700	0.30	1	0	77.0	61	120	0.79	2.56	0	

Qualifiers:
. Results reported are not blank corrected
DL Detection Limit
E Estimated Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Centek/SanAir Laboratories

CLIENT: SOIL MECHANICS
Work Order: C2206048
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: C2206048-003A MS	SampType: MSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 19132
Client ID: SVW-2 MS/MSD	Batch ID: R19132	TestNo: TO-15		Analysis Date: 6/24/2022	SeqNo: 218366

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.8700	0.15	1	0	87.0	63.6	134	0.83	4.71	0	
Methylene chloride	1.420	0.15	1	0.51	91.0	53.4	125	1.2	16.8	0	
o-Xylene	0.8000	0.15	1	0	80.0	74.3	132	0.83	3.68	0	
Propylene	2.360	0.15	1	0	236	70	130	1.98	17.5	0	BS
Styrene	0.7900	0.15	1	0	79.0	82.4	118	0.78	1.27	0	S
Tetrachloroethylene	1.030	0.15	1	0.26	77.0	86.2	112	1.11	7.48	0	S
Tetrahydrofuran	0.7700	0.15	1	0	77.0	70	130	0.77	0	0	
Toluene	1.360	0.15	1	0.77	59.0	70	130	1.51	10.5	0	S
trans-1,2-Dichloroethene	0.8100	0.15	1	0	81.0	70.9	132	0.8	1.24	0	
trans-1,3-Dichloropropene	1.200	0.15	1	0	120	51.9	133	1.13	6.01	0	
Trichloroethene	1.230	0.15	1	0.23	100	63.1	109	1.13	8.47	0	
Vinyl acetate	0.9200	0.15	1	0	92.0	70	130	0.91	1.09	0	
Vinyl Bromide	1.060	0.15	1	0	106	71.3	121	1.04	1.90	0	
Vinyl chloride	0.9800	0.15	1	0	98.0	63.2	114	0.96	2.06	0	

Qualifiers:

-	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062409.D Vial: 9
Acq On : 24 Jun 2022 2:40 pm Operator: RJP
Sample : C2206048-003A MS Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 27 11:09:36 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.69	128	33234	1.00	ppb		0.00
35) 1,4-difluorobenzene	11.99	114	154865	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	136168	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	97439	0.99	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99.00%				
Target Compounds							Qvalue
2) Propylene	4.08	41	43784m	1.98	ppb		
3) Freon 12	4.13	85	184038	1.20	ppb		99
4) Chloromethane	4.34	50	49633	1.32	ppb		90
5) Freon 114	4.33	85	125322	1.00	ppb		97
6) Vinyl Chloride	4.53	62	34722	0.96	ppb		99
7) Butane	4.63	43	112211	2.55	ppb	#	39
8) 1,3-butadiene	4.62	39	52585m	1.49	ppb		
9) Bromomethane	4.97	94	49468	1.02	ppb		95
10) Chloroethane	5.14	64	16067	0.91	ppb		93
11) Ethanol	5.23	45	53978	4.48	ppb		87
12) Acrolein	5.81	56	12733	1.06	ppb	#	72
13) Vinyl Bromide	5.47	106	52650	1.04	ppb		99
14) Freon 11	5.75	101	299626	1.58	ppb		98
15) Acetone	5.90	58	144541	7.48	ppb	#	30
16) Pentane	6.02	42	58489	1.87	ppb	#	16
17) Isopropyl alcohol	6.01	45	80936	1.44	ppb	#	1
18) 1,1-dichloroethene	6.50	96	30599	0.77	ppb		90
19) Freon 113	6.70	101	85150	0.90	ppb		94
20) t-Butyl alcohol	6.73	59	110833	1.76	ppb		95
21) Methylene chloride	6.95	84	50668	1.20	ppb		98
22) Allyl chloride	6.94	41	28579	0.75	ppb		91
23) Carbon disulfide	7.11	76	94096	0.75	ppb		98
24) trans-1,2-dichloroethene	7.89	61	46248	0.80	ppb		94
25) methyl tert-butyl ether	7.91	73	78440	0.83	ppb	#	59
26) 1,1-dichloroethane	8.32	63	53553	0.78	ppb		99
27) Vinyl acetate	8.30	43	48526	0.91	ppb		92
28) Methyl Ethyl Ketone	8.79	72	15347	0.93	ppb	#	100
29) cis-1,2-dichloroethene	9.25	61	47599	0.86	ppb		96
30) Hexane	8.85	57	43951	0.89	ppb	#	82
31) Ethyl acetate	9.39	43	79629	1.03	ppb		99
32) Chloroform	9.85	83	162602	1.56	ppb		98
33) Tetrahydrofuran	10.01	42	22244	0.77	ppb		93
34) 1,2-dichloroethane	10.97	62	66024	0.84	ppb		99
36) 1,1,1-trichloroethane	10.68	97	109471	1.13	ppb		100
37) Cyclohexane	11.40	56	38395	0.82	ppb		90
38) Carbon tetrachloride	11.33	117	157880	1.53	ppb		99
39) Benzene	11.30	78	120601	1.08	ppb		99
40) Methyl methacrylate	12.88	41	39469	0.86	ppb		97
41) 1,4-dioxane	12.90	88	21290	0.79	ppb		98
42) 2,2,4-trimethylpentane	12.17	57	116612	0.80	ppb		94
43) Heptane	12.52	43	45310	0.87	ppb		86
44) Trichloroethene	12.64	130	68637	1.13	ppb		96
45) 1,2-dichloropropane	12.74	63	27132	0.74	ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062409.D Vial: 9
Acq On : 24 Jun 2022 2:40 pm Operator: RJP
Sample : C2206048-003A MS Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 27 11:09:36 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

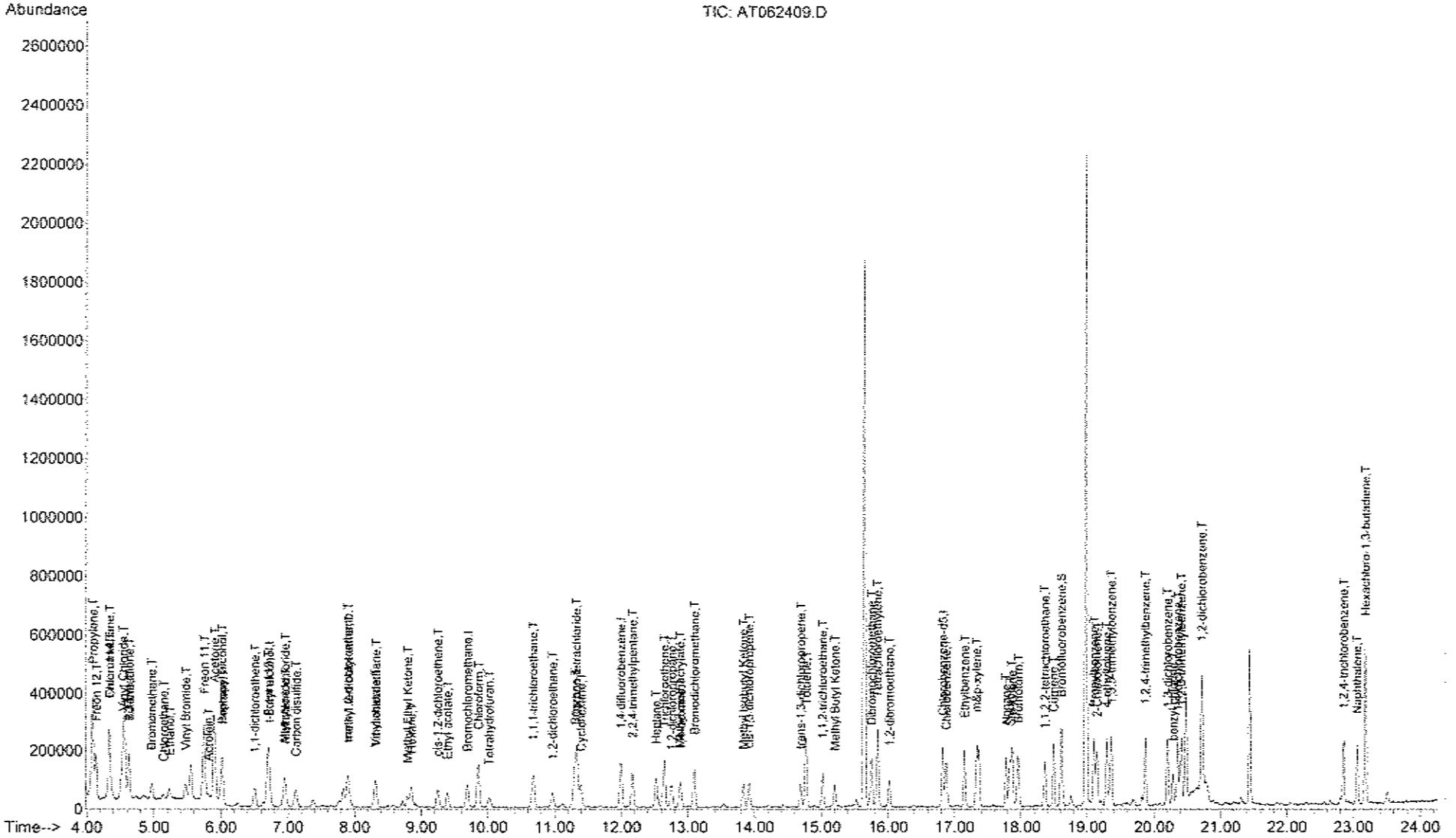
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	Bromodichloromethane	13.09	83	103222	0.96	ppb		100
47)	cis-1,3-dichloropropene	13.91	75	55168	0.95	ppb		98
48)	trans-1,3-dichloropropene	14.69	75	54890	1.13	ppb		96
49)	1,1,2-trichloroethane	15.02	97	41335	0.83	ppb		96
51)	Toluene	14.77	92	121224	1.51	ppb		100
52)	Methyl Isobutyl Ketone	13.83	43	56635	0.79	ppb		97
53)	Dibromochloromethane	15.75	129	106652	1.05	ppb		99
54)	Methyl Butyl Ketone	15.20	43	53865	0.83	ppb		94
55)	1,2-dibromoethane	16.02	107	68368	0.92	ppb		96
56)	Tetrachloroethylene	15.85	164	69198	1.11	ppb		98
57)	Chlorobenzene	16.88	112	92631	0.79	ppb		97
58)	Ethylbenzene	17.14	91	156832	0.84	ppb		100
59)	m&p-xylene	17.33	91	269305	1.77	ppb		97
60)	Nonane	17.77	43	51581	0.67	ppb		96
61)	Styrene	17.84	104	87480	0.78	ppb		94
62)	Bromoform	17.96	173	94109	1.04	ppb		98
63)	o-xylene	17.87	91	134783	0.83	ppb		98
64)	Cumene	18.49	105	165727	0.77	ppb		96
66)	1,1,2,2-tetrachloroethane	18.36	83	73362	0.76	ppb		97
67)	Propylbenzene	19.09	120	48317	0.82	ppb		94
68)	2-Chlorotoluene	19.14	126	44616	0.80	ppb	#	88
69)	4-ethyltoluene	19.29	105	168479m	0.80	ppb		
70)	1,3,5-trimethylbenzene	19.36	105	165003m	0.88	ppb		
71)	1,2,4-trimethylbenzene	19.87	105	155915	0.85	ppb		100
72)	1,3-dichlorobenzene	20.20	146	101378	0.85	ppb		99
73)	benzyl chloride	20.29	91	84109	1.26	ppb		100
74)	1,4-dichlorobenzene	20.36	146	105799	0.91	ppb		99
75)	1,2,3-trimethylbenzene	20.41	105	156505	0.83	ppb		99
76)	1,2-dichlorobenzene	20.72	146	242747	2.16	ppb		98
77)	1,2,4-trichlorobenzene	22.84	180	73309	1.20	ppb		95
78)	Naphthalene	23.05	128	172762	1.21	ppb		99
79)	Hexachloro-1,3-butadiene	23.17	225	101735	0.99	ppb		97

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062409.D Vial: 9
Acq On : 24 Jun 2022 2:40 pm Operator: RJP
Sample : C2206048-003A MS Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 13:36 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062410.D Vial: 10
Acq On : 24 Jun 2022 3:33 pm Operator: RJP
Sample : C2206048-003A MSD Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 27 11:09:44 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.69	128	33337	1.00	ppb		0.00
35) 1,4-difluorobenzene	11.99	114	152548	1.00	ppb		0.00
50) Chlorobenzene-d5	16.82	117	146553	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.61	95	96610	0.91	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 91.00%				
Target Compounds							Qvalue
2) Propylene	4.08	41	52399	2.36	ppb		88
3) Freon 12	4.14	85	176792	1.15	ppb		100
4) Chloromethane	4.33	50	48183	1.28	ppb		92
5) Freon 114	4.33	85	129853	1.03	ppb		98
6) Vinyl Chloride	4.52	62	35520	0.98	ppb		97
7) Butane	4.63	43	108568	2.46	ppb	#	53
8) 1,3-butadiene	4.62	39	48399m	1.37	ppb		
9) Bromomethane	4.97	94	48258	0.99	ppb		99
10) Chloroethane	5.14	64	16857	0.95	ppb		98
11) Ethanol	5.23	45	66537	5.50	ppb		90
12) Acrolein	5.81	56	13240	1.10	ppb	#	71
13) Vinyl Bromide	5.47	106	53786	1.06	ppb		99
14) Freon 11	5.75	101	293780	1.55	ppb		99
15) Acetone	5.90	58	162304	8.37	ppb	#	44
16) Pentane	6.01	42	63764	2.03	ppb	#	15
17) Isopropyl alcohol	6.01	45	82335	1.46	ppb	#	1
18) 1,1-dichloroethene	6.49	96	31214	0.78	ppb	#	87
19) Freon 113	6.70	101	84444	0.89	ppb		97
20) t-Butyl alcohol	6.72	59	113635	1.80	ppb		95
21) Methylene chloride	6.96	84	59992	1.42	ppb		98
22) Allyl chloride	6.93	41	29585	0.78	ppb		91
23) Carbon disulfide	7.11	76	97388	0.77	ppb		98
24) trans-1,2-dichloroethene	7.89	61	46544	0.81	ppb		97
25) methyl tert-butyl ether	7.91	73	82792	0.87	ppb	#	28
26) 1,1-dichloroethane	8.32	63	56456	0.82	ppb		97
27) Vinyl acetate	8.30	43	49358	0.92	ppb		95
28) Methyl Ethyl Ketone	8.79	72	17533	1.06	ppb	#	100
29) cis-1,2-dichloroethene	9.24	61	49724	0.90	ppb		97
30) Hexane	8.84	57	53179	1.08	ppb		94
31) Ethyl acetate	9.39	43	81480	1.05	ppb		98
32) Chloroform	9.86	83	158108	1.51	ppb		98
33) Tetrahydrofuran	10.02	42	22282	0.77	ppb		94
34) 1,2-dichloroethane	10.97	62	68649	0.87	ppb		99
36) 1,1,1-trichloroethane	10.67	97	113473	1.19	ppb		98
37) Cyclohexane	11.39	56	39406	0.85	ppb		88
38) Carbon tetrachloride	11.32	117	160829	1.58	ppb		99
39) Benzene	11.29	78	119985	1.09	ppb		98
40) Methyl methacrylate	12.88	41	41224	0.91	ppb		98
41) 1,4-dioxane	12.89	88	22119	0.84	ppb		98
42) 2,2,4-trimethylpentane	12.16	57	118071	0.82	ppb		94
43) Heptane	12.52	43	44255	0.86	ppb		88
44) Trichloroethene	12.65	130	73751	1.23	ppb		96
45) 1,2-dichloropropane	12.75	63	27038	0.75	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062410.D Vial: 10
Acq On : 24 Jun 2022 3:33 pm Operator: RJP
Sample : C2206048-003A MSD Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 27 11:09:44 2022 Quant Results File: A613_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

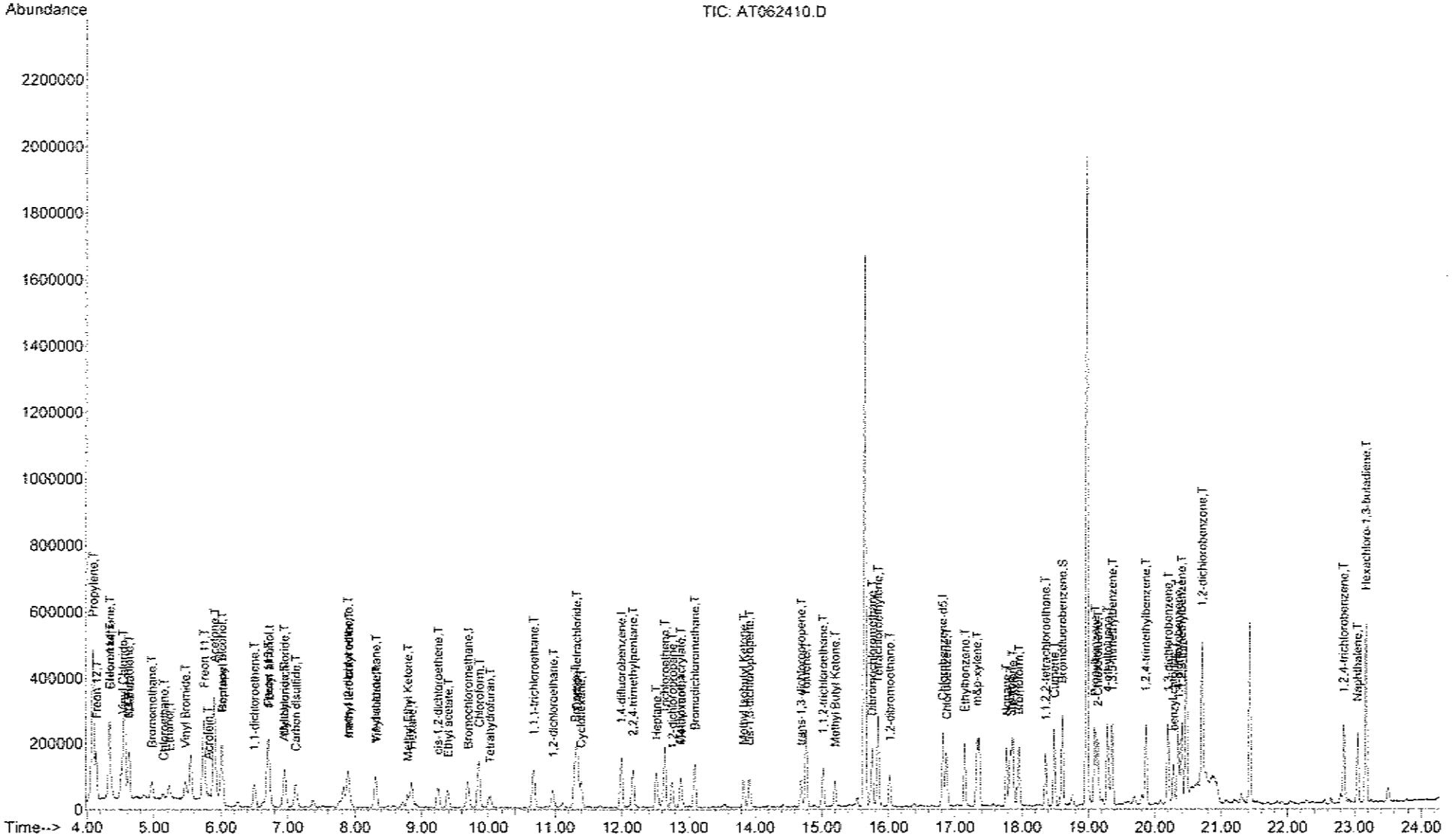
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	Bromodichloromethane	13.09	83	102460	0.97	ppb		97
47)	cis-1,3-dichloropropene	13.91	75	56029	0.98	ppb		96
48)	trans-1,3-dichloropropene	14.69	75	57321	1.20	ppb		88
49)	1,1,2-trichloroethane	15.02	97	41192	0.84	ppb		97
51)	Toluene	14.77	92	117716	1.36	ppb		97
52)	Methyl Isobutyl Ketone	13.83	43	59366	0.77	ppb		94
53)	Dibromochloromethane	15.75	129	110760	1.01	ppb		98
54)	Methyl Butyl Ketone	15.20	43	56722	0.81	ppb		94
55)	1,2-dibromoethane	16.02	107	72663	0.91	ppb		98
56)	Tetrachloroethylene	15.85	164	69067	1.03	ppb		99
57)	Chlorobenzene	16.87	112	101686	0.81	ppb		99
58)	Ethylbenzene	17.14	91	160762	0.80	ppb		100
59)	m&p-xylene	17.33	91	275069	1.68	ppb		97
60)	Nonane	17.77	43	56117	0.67	ppb		97
61)	Styrene	17.83	104	95520	0.79	ppb		97
62)	Bromoform	17.95	173	99520	1.02	ppb		99
63)	o-xylene	17.86	91	139762	0.80	ppb		96
64)	Cumene	18.49	105	175513	0.76	ppb		97
66)	1,1,2,2-tetrachloroethane	18.36	83	77124	0.75	ppb		98
67)	Propylbenzene	19.10	120	51301	0.81	ppb		95
68)	2-Chlorotoluene	19.15	126	44905	0.74	ppb	#	78
69)	4-ethyltoluene	19.29	105	181990m	0.80	ppb		
70)	1,3,5-trimethylbenzene	19.36	105	173967m	0.86	ppb		
71)	1,2,4-trimethylbenzene	19.86	105	169296	0.86	ppb		99
72)	1,3-dichlorobenzene	20.20	146	110752	0.86	ppb		98
73)	benzyl chloride	20.28	91	94950	1.32	ppb		98
74)	1,4-dichlorobenzene	20.35	146	110941	0.88	ppb		100
75)	1,2,3-trimethylbenzene	20.40	105	165111	0.82	ppb		99
76)	1,2-dichlorobenzene	20.71	146	255880	2.11	ppb		98
77)	1,2,4-trichlorobenzene	22.84	180	82465	1.25	ppb		95
78)	Naphthalene	23.05	128	184493	1.21	ppb		99
79)	Hexachloro-1,3-butadiene	23.17	225	103644	0.94	ppb		98

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AT062410.D Vial: 10
Acq On : 24 Jun 2022 3:33 pm Operator: RJP
Sample : C2206048-003A MSD Inst : MSD #1
Misc : A613_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 13:37 2022 Quant Results File: A613_1UG.RES

Method : C:\HPCHEM\1\METHODS\A613_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Jun 14 07:44:15 2022
Response via : Initial Calibration



Centek/SanAir Laboratories

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INJECTION LOG

Injection Log

Instrument # 1
Internal Standard Stock # 5092
Standard Stock # 5093
LCS Stock # 5094

Directory: C:\HPCHEM\1\DATA2\2022JUNE

Misc Info: Ref: EPA TO-15 / Jan 2020

Line	Vial	FileName	Multiplier	SampleName		
276	2	At062402.d	1.	A1UG_1.0	A613_1UG	24 Jun 2022 09:20
277	3	At062403.d	1.	ALCS1UG-062422	A613_1UG	24 Jun 2022 10:11
278	4	At062404.d	1.	AMB1UG-062422	A613_1UG	24 Jun 2022 10:50
279	5	At062405.d	1.	C2206048	A613_1UG	24 Jun 2022 11:38
280	6	At062406.d	1.	C2206048-018A	A613_1UG	24 Jun 2022 12:22
281	7	At062407.d	1.	C2206048-019A	A613_1UG	24 Jun 2022 13:06
282	8	At062408.d	1.	C2206048-003A	A613_1UG	24 Jun 2022 13:51
283	9	At062409.d	1.	C2206048-003A MS	A613_1UG	24 Jun 2022 14:40
284	10	At062410.d	1.	C2206048-003A MSD	A613_1UG	24 Jun 2022 15:33
285	11	At062411.d	1.	C2206048-001A 0.83X	A613_1UG	24 Jun 2022 16:49
286	12	At062412.d	1.	C2206048-002A 0.83X	A613_1UG	24 Jun 2022 18:04
287	13	At062413.d	1.	C2206048-004A	A613_1UG	24 Jun 2022 18:48
288	14	At062414.d	1.	C2206048-005A	A613_1UG	24 Jun 2022 19:32
289	15	At062415.d	1.	C2206048-006A	A613_1UG	24 Jun 2022 20:16
290	16	At062416.d	1.	C2206048-007A	A613_1UG	24 Jun 2022 21:00
291	17	At062417.d	1.	C2206048	A613_1UG-008A	24 Jun 2022 22:15
292	18	At062418.d	1.	C2206048-009A	A613_1UG	24 Jun 2022 22:59
293	19	At062419.d	1.	C2206048-010A	A613_1UG	24 Jun 2022 23:47
294	20	At062420.d	1.	C2206048-011A	A613_1UG	25 Jun 2022 00:31
295	21	At062421.d	1.	C2206048-012A	A613_1UG	25 Jun 2022 01:15
296	22	At062422.d	1.	C2206048-013A	A613_1UG	25 Jun 2022 02:30
297	23	At062423.d	1.	ALCSD1UG-062422	A613_1UG	25 Jun 2022 03:14
298	23	At062424.d	1.	C2206048-014A	A613_1UG	25 Jun 2022 03:58
299	24	At062425.d	1.	C2206048-015A	A613_1UG	25 Jun 2022 04:42
300	25	At062426.d	1.	C2206048-016A	A613_1UG	25 Jun 2022 05:26
301	26	At062427.d	1.	C2206048-017A	A613_1UG	25 Jun 2022 06:10
302	27	At062428.d	1.	C2206049-001A	A613_1UG	25 Jun 2022 06:55
303	28	At062429.d	1.	C2206048-018A 10X	A613_1UG	25 Jun 2022 07:37
304	29	At062430.d	1.	C2206048-019A 10X	A613_1UG	25 Jun 2022 08:20
305		At062431.d	1.	No MS or GC data present		
306	1	At062701.d	1.	BFB1UG	A613_1UG	27 Jun 2022 08:22
307	2	At062702.d	1.	A1UG_1.0	A613_1UG	27 Jun 2022 09:14
308	3	At062703.d	1.	ALCS1UG-062722	A613_1UG	27 Jun 2022 09:58
309	4	At062704.d	1.	AMB1UG-062722	A613_1UG	27 Jun 2022 10:38
310	5	At062705.d	1.	C2206048-008A	A613_1UG	27 Jun 2022 12:39
311	6	At062706.d	1.	C2206048-003A 10X	A613_1UG	27 Jun 2022 14:02
312	7	At062707.d	1.	C2206048	A613_1UG-005A 10X	27 Jun 2022 14:47
313	8	At062708.d	1.	C2206051-001A	A613_1UG	27 Jun 2022 15:31
314	9	At062709.d	1.	C2206051-003A	A613_1UG	27 Jun 2022 16:15
315	10	At062710.d	1.	C2206051-004A	A613_1UG	27 Jun 2022 16:59
316	11	At062711.d	1.	C2206051-005A	A613_1UG	27 Jun 2022 17:43
317	12	At062712.d	1.	C2206051-002A	A613_1UG	27 Jun 2022 18:28
318	13	At062713.d	1.	C2206051-001A 10X	A613_1UG	27 Jun 2022 19:10
319	14	At062714.d	1.	C2206051-003A 10X	A613_1UG	27 Jun 2022 19:53
320	15	At062715.d	1.	C2206051-004A 10X	A613_1UG	27 Jun 2022 20:35
321	16	At062716.d	1.	C2206051-005A 10X	A613_1UG	27 Jun 2022 21:18
322	17	At062717.d	1.	C2206051-002A 10X	A613_1UG	27 Jun 2022 22:01
323	18	At062718.d	1.	C2206051-002A 40X	A613_1UG	27 Jun 2022 22:43
324	19	At062719.d	1.	ALCS1UGD-062722	A613_1UG	27 Jun 2022 23:26
325	20	At062720.d	1.	C2206048-004A 20X	A613_1UG	28 Jun 2022 00:09
326	21	At062721.d	1.	C2206048-005A 20X	A613_1UG	28 Jun 2022 00:51
327	22	At062722.d	1.	C2206048-006A 10X	A613_1UG	28 Jun 2022 01:33
328	23	At062723.d	1.	C2206048-007A 20X	A613_1UG	28 Jun 2022 02:16
329	24	At062724.d	1.	C2206048-008A 10X	A613_1UG	28 Jun 2022 02:58
330	25	At062725.d	1.	C2206048	A613_1UG-008A 40X	28 Jun 2022 03:40

Injection Log

Directory: C:\HPCHEM\1\DATA2\2022JUNE

Instrument # 1
Internal Standard Stock # 5092 * 5105
Standard Stock # 5093 | 5106
LCS Stock # 5094 ↓ 5107
Misc Info: Method Ref: EPA TO-15 / Jan 1999

Line	Vial	FileName	Multiplier	SampleName		Injected
331	26	At062726.d	1.	C2206048-009A 10X	A613_1UG	28 Jun 2022 04:23
332	27	At062727.d	1.	C2206048-009A 40X	A613_1UG	28 Jun 2022 05:05
333	28	At062728.d	1.	C2206048-010A 40X	A613_1UG	28 Jun 2022 05:47
334	29	At062729.d	1.	C2206048	A613_1UG-010A 40X	28 Jun 2022 06:29
335	30	At062730.d	1.	C2206048-011A 20X	A613_1UG	28 Jun 2022 07:11
336	31	At062731.d	1.	C2206051-002A 810X	A613_1UG	28 Jun 2022 07:53
337		At062732.d	1.	No MS or GC data present		
338	1	At062801.d	1.	BFB1UG	A613_1UG	28 Jun 2022 08:33
339	2	At062802.d	1.	A1UG_1.0	A613_1UG	28 Jun 2022 09:23
340	3	At062803.d	1.	ALCS1UG-062822	A613_1UG	28 Jun 2022 10:07
341	4	At062804.d	1.	AMB1UG-062822	A613_1UG	28 Jun 2022 10:47
342	5	At062805.d	1.	C2206051-003A 40X	A613_1UG	28 Jun 2022 11:28
343	6	At062806.d	1.	C2206051-005A 40X	A613_1UG	28 Jun 2022 12:10
344	7	At062807.d	1.	C2206048-015A 10X	A613_1UG	28 Jun 2022 12:53
345	8	At062808.d	1.	C2206048-015A 40X	A613_1UG	28 Jun 2022 13:35
346	1	At062809.d	1.	C2206056-002A	A613_1UG	28 Jun 2022 14:28
347	2	At062810.d	1.	C2206056-004A	A613_1UG	28 Jun 2022 15:11
348	3	At062811.d	1.	C2206056-006A	A613_1UG	28 Jun 2022 15:56
349	4	At062812.d	1.	C2206056-007A	A613_1UG	28 Jun 2022 16:40
350	5	At062813.d	1.	C2206056-001A	A613_1UG	28 Jun 2022 17:24
351	6	At062814.d	1.	C2206056-003A	A613_1UG	28 Jun 2022 18:08
352	7	At062815.d	1.	C2206056-005A	A613_1UG	28 Jun 2022 18:52
353	8	At062816.d	1.	C2206056-002A 20X	A613_1UG	28 Jun 2022 19:34
354	9	At062817.d	1.	C2206056-004A 10X	A613_1UG	28 Jun 2022 20:16
355	10	At062818.d	1.	C2206056-006A 10X	A613_1UG	28 Jun 2022 20:59
356	11	At062819.d	1.	C2206056-007A 10X	A613_1UG	28 Jun 2022 21:42
357	12	At062820.d	1.	C2206056-001A 10X	A613_1UG	28 Jun 2022 22:24
358	13	At062821.d	1.	C2206056-001A 40X	A613_1UG	28 Jun 2022 23:06
359	14	At062822.d	1.	C2206056-003A 10X	A613_1UG	28 Jun 2022 23:49
360	15	At062823.d	1.	C2206056-003A 40X	A613_1UG	29 Jun 2022 00:30
361	16	At062824.d	1.	C2206056-005A 10X	A613_1UG	29 Jun 2022 01:13
362	17	At062825.d	1.	C2206056-005A 40X	A613_1UG	29 Jun 2022 01:55
363	18	At062826.d	1.	ALCS1UGD-062822	A613_1UG	29 Jun 2022 02:39
364	19	At062827.d	1.	C2206048-020A	A613_1UG	29 Jun 2022 03:21
365	20	At062828.d	1.	C2206048-001A 4X	A613_1UG	29 Jun 2022 04:08
366	21	At062829.d	1.	C2206048	A613_1UG-010A 40X	29 Jun 2022 04:50
367	22	At062830.d	1.	C2206048-012A 10X	A613_1UG	29 Jun 2022 05:33
368	23	At062831.d	1.	C2206048-012A 40X	A613_1UG	29 Jun 2022 06:15
369	24	At062832.d	1.	C2206056-006A 40X	A613_1UG	29 Jun 2022 07:27
370	25	At062833.d	1.	C2206056-001A 90X	A613_1UG	29 Jun 2022 08:10
371		At062834.d	1.	No MS or GC data present		
372	1	At062901.d	1.	BFB1UG_OLD TANK	A613_1UG	29 Jun 2022 09:18
373	2	At062902.d	1.	BFB1UG	A613_1UG	29 Jun 2022 10:09
374	3	At062903.d	1.	BFB1UG	A613_1UG	29 Jun 2022 10:57
375	4	At062904.d	1.	A1UG_1.0	A613_1UG	29 Jun 2022 11:50
376	5	At062905.d	1.	ALCS1UG-062922	A613_1UG	29 Jun 2022 12:43
377	6	At062906.d	1.	AMB1UG-062922	A613_1UG	29 Jun 2022 13:34
378	7	At062907.d	1.	C2206048-010A 10X	A613_1UG	29 Jun 2022 14:17
379	8	At062908.d	1.	C2206048-010A 810X	A613_1UG	29 Jun 2022 15:04
380	9	At062909.d	1.	C2206048-013A 9X	A613_1UG	29 Jun 2022 15:48
381	10	At062910.d	1.	C2206048-013A 90X	A613_1UG	29 Jun 2022 16:31
382	11	At062911.d	1.	C2206048-014A 10X	A613_1UG	29 Jun 2022 17:14
383	12	At062912.d	1.	C2206048-014A 40X	A613_1UG	29 Jun 2022 17:56
384	13	At062913.d	1.	C2206048-015A 810X	A613_1UG	29 Jun 2022 18:39
385	14	At062914.d	1.	C2206048-016A 10X	A613_1UG	29 Jun 2022 19:22

Injection Log

Directory: C:\HPCHEM\1\DATA2\2022JUNE

Instrument # 1
Internal Standard Stock # 5105
Standard Stock # 5106
Misc Info # 5107

Method Ref: EPA TO-15 / Jan. 1999

Line	Vial	FileName	Multiplier	SampleName		Injected
386	15	At062915.d	1.	C2206048-016A 40X	A613_1UG	29 Jun 2022 20:04
387	16	At062916.d	1.	C2206048-017A 10X	A613_1UG	29 Jun 2022 20:47
388	17	At062917.d	1.	C2206048-017A 40X	A613_1UG	29 Jun 2022 21:29
389	18	At062918.d	1.	WAC062922A	A613_1UG	30 Jun 2022 07:59
390	19	At062919.d	1.	WAC062922B	A613_1UG	30 Jun 2022 09:53
391		At062920.d	1.	No MS or GC data present		
392	1	At063001.d	1.	BFB1UG	A613_1UG	30 Jun 2022 12:28
393	2	At063002.d	1.	A1UG	A613_1UG	30 Jun 2022 13:25
394	3	At063003.d	1.	A1UG_2.0	A613_1UG	30 Jun 2022 14:13
395	4	At063004.d	1.	A1UG_1.5	A613_1UG	30 Jun 2022 14:59
396	5	At063005.d	1.	A1UG_1.25	A613_1UG	30 Jun 2022 15:44
397	6	At063006.d	1.	A1UG_1.0	A613_1UG	30 Jun 2022 16:27
398	7	At063007.d	1.	A1UG_0.75	A613_1UG	30 Jun 2022 17:10
399	8	At063008.d	1.	A1UG_0.50	A613_1UG	30 Jun 2022 17:53
400	9	At063009.d	1.	A1UG_0.30	A613_1UG	30 Jun 2022 18:34
401	10	At063010.d	1.	A1UG_0.15	A613_1UG	30 Jun 2022 19:16
402	11	At063011.d	1.	A1UG_0.10	A613_1UG	30 Jun 2022 19:58
403	12	At063012.d	1.	A1UG_0.04	A613_1UG	30 Jun 2022 20:40
404	13	At063013.d	1.	A1UG_0.03	A613_1UG	30 Jun 2022 21:21
405	14	At063014.d	1.	A1UG_	A613_1UG	30 Jun 2022 22:03
406		At063015.d	1.	No MS or GC data present		

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS LOG

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date Exp	Description	Stock #	Stock Conc	Initial Vol (psig)	Finial Vol (psia)	Final Conc (ppb)	Prep by	Chkd by
A-5098	6/28/22	7/5/22	TO15 4PCH	A3992	1.025 ppm	1.47	30	50	WJ	
A-5099	↓	↓	4PCHS	A5098	50 ppb	3.0	30	5	↓	
A-5100			FORM	A3792	10.3 ppm	0.22	45	50		
A-5101			SILOX	H2S 74 A2623	499 ppb 500 ppb	3.34 3.0	30	50		
A-5102			SULF	A5053	1 ppm	1.5	30	50		
A-5103			H2S	A5054	8.05 ppm	1.87	30	500		
A-5104			H2S50	A5103	500 ppb	3.0	30	50		
A-5105			TO15 14G IS	A5095	50 ppb	0.9	45	1		
A-5106			STD	A5096	↓	↓	↓	↓	↓	
A-5107	↓	↓	LCS	A5097	↓	↓	↓	↓	↓	
A-5108	7/5/22	7/12/22	TO15 IS	A4946	1 ppm	1.5	30	50	WJ	
A-5109	↓	↓	STD	A4947	↓	↓	↓	↓	↓	
A-5110			LCS	A4948	↓	↓	↓	↓		
A-5111			4PCH	A3992	1.025 ppm	1.47	30	50		
A-5112			4PCHS	A5111	50 ppb	3.0	30	5		
A-5113			FORM	A3792	10.3 ppm	0.22	45	50		
A-5114			SILOX	H2S 74 A2623	499 ppb 500 ppb	3.34 3.0	30	50		
A-5115			SULF	A3053	1 ppm	1.5	30	50		
A-5116			H2S	A5054	8.05 ppm	1.87	30	500		
A-5117			H2S50	A5116	500 ppb	3.0	30	50		
A-5118	↓	↓	TO15 14G IS	A5108	50 ppb	0.9	45	1	↓	

FORM 153

Page # 3

Centek/SanAir Laboratories

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date Exp	Description	Stock #	Stock Conc	Initial Vol (psig)	Finial Vol (psia)	Final Conc (ppb)	Prep by	Chkd by
A-5077	6/14/22	6/21/22	TO15 ~~H2S~~ SULF	A5054	8.05ppm	1.87	30	500 ppb	LL	
A-5078	↓	↓	↓ H2S50	A5017	500ppb	3	30	50 ppb	↓	
A-5079			TO15 IUG IS	A5069	50ppb	0.9	45	1		
A-5080			STD	A5070	↓	↓	↓	↓	↓	
A-5081	↓	↓	LCS	A5071	↓	↓	↓	↓	↓	
A-5082	6/21/22	6/28/22	TO15 IS	A4946	1 ppm	1.5	30	50	↓	
A-5083			STD	A4947	↓	↓	↓	↓		
A-5084			LCS	A4948	↓	↓	↓	↓		
A-5085			4PCH	A3992	1.025ppm	1.47	30	50		
A-5086			4PCH5	A5085	50 ppb	3.0	30	50		
A-5087			FORM	A3792	10.3ppm	0.22	45	50		
A-5088			SILOX	A2574 / A2623	449 ppb / 500 ppb	3.34 / 3.0	30	50		
A-5089			SU4F	A5053	1ppm	1.5	30	50		
A-5090			H2S	A5054	8.05ppm	1.87	30	500		
A-5091			H2S50	A5090	500ppb	3.0	30	50		
A-5092			TO15 IUG IS	A5082	50 ppb	0.9	45	1		
A-5093			STD	A5083	↓	↓	↓	↓	↓	
A-5094	↓	↓	LCS	A5084	↓	↓	↓	↓	↓	
A-5095	6/28/22	7/5/22	TO15 IS	A4946	1ppm	1.5	30	50	↓	
A-5096	↓	↓	STD	A4947	↓	↓	↓	↓	↓	
A-5097	↓	↓	LCS	A4948	↓	↓	↓	↓	↓	

FORM 153

Page # 2

Centek/SanAir Laboratories

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CANISTER CLEANING LOG

Centek Laboratories, LLC

QC Canister Cleaning Logbook

Instrument: Entech 3100

Canister Number	Canister Size	QC Can Number	# of Cycles	Date Cleaned	QC Batch Number	Detection Limits	Leak Test 24hr (psig/date)
1193	1L	460	20	04/22/2022	WAC042222A	1.49 ± 0.20	30+ |+30
471							30+ |+
352							30+ |+
357							30+ |+
460							30+ |+
1316		83			WAC042222 B		30+ |+
568							30+ |+
229							30+ |+
102							30+ |+
83							30+ |+
325		170			WAC042222 C		30+ |+
1317							30+ |+
131							30+ |+
320							30+ |+
170							30+ |+
245		539			WAC042222 D		30+ |+
189							30+ |+
564							30+ |+
552							30+ |+
539							30+ |+
236		188			WAC042222 E		30+ |+
207							30+ |+
1184							30+ |+
200							30+ |+
188							30+ |+

Centek/SanAir Laboratories

Centek Laboratories, LLC

QC Canister Cleaning Logbook

Instrument: Entech 3100

Canister Number	Canister Size	QC Can Number	# of Cycles	Date Cleaned	QC Batch Number	Detection Limits	Leak Test 24hr (psig/date)
458	1L	128	20	04/22/2022	LOA C042222 F	2149+0.20	30+ |+30
223							30+ |+
367							30+ |+
1545							30+ |+
128		↓			↓		30+ |+
567		1181			LOAC042222 G		30+ |+
226							30+ |+
386							30+ |+
457							30+ |+
1181	↓	↓	↓	↓	↓	↓	30+ |+
							30+ |+
							30+ |+
							30+ |+
							30+ |+
							30+ |+
							30+ |+
							30+ |+
							30+ |+
							30+ |+
							30+ |+
							30+ |+
							30+ |+
							30+ |+
							30+ |+
							30+ |+
							30+ |+

Centek/SanAir Laboratories

Centek Laboratories, LLC

Instrument: Entech 3100

QC Canister Cleaning Logbook

Canister Number	Canister Size	QC Can Number	# of Cycles	Date Cleaned	QC Batch Number	Detection Limits	Leak Test 24hr (psig/date)
94	1L	569	20	5/11/22	WAC051122A	1H9 + 0.20	30+ |+ 30
368							30+ |+
1182							30+ |+
234							30+ |+
569							30+ |+
1192		1175			WAC051122B		30+ |+
162							30+ |+
1450							30+ |+
327							30+ |+
1175							30+ |+
465		237			WAC051122C		30+ |+
85							30+ |+
242							30+ |+
158							30+ |+
237							30+ |+
465							30+ |+
85							30+ |+
242							30+ |+
158							30+ |+
285		362			WAC051122H		30+ |+
370							30+ |+
1183							30+ |+
365							30+ |+
362							30+ |+
							30+ |+

Form C151

Page # 159

Centek/SanAir Laboratories

Centek Laboratories, LLC

Instrument: Entech 3100

QC Canister Cleaning Logbook

Canister Number	Canister Size	QC Can Number	# of Cycles	Date Cleaned	QC Batch Number	Detection Limits	Leak Test 24hr (psig/date)
~~89~~137	1L	541	20	5/11/22	WAC0511221	1ug-1 0.20	30+ / + 30
419	↓	↓	↓	↓	↓	↓	30+ / +
467	↓	↓	↓	↓	↓	↓	30+ / +
89	↓	↓	↓	↓	↓	↓	30+ / +
541	↓	↓	↓	↓	↓	↓	30+ / +
				~~5/17/22~~	~~WACO~~		30+ / +
							30+ / +
							30+ / +
							30+ / +
							30+ / +
							30+ / +
							30+ / +
							30+ / +
							30+ / +
							30+ / +
							30+ / +
							30+ / +
							30+ / +
							30+ / +
							30+ / +
							30+ / +
							30+ / +
							30+ / +
							30+ / +
							30+ / +

Form C151

Page # 160

Centek Laboratories, LLC

QC Canister Cleaning Logbook

Instrument: Entech 3100

Canister Number	Canister Size	QC Can Number	# of Cycles	Date Cleaned	QC Batch Number	Detection Limits	Leak Test 24hr (psig/date)
317	1L	336	30	6/2/2022	WAC060222B	1ug+o2O	30+ |+ 30
561							30+ |+
1176							30+ |+
241							30+ |+
336							30+ |+
318	1L	101	30	6/2/2022	WAC060222C		30+ |+
571							30+ |+
201							30+ |+
95							30+ |+
101							30+ |+
1195	1L	233	30	6/2/2022	WAC060222D		30+ |+
239							30+ |+
290							30+ |+
555							30+ |+
233							30+ |+
1207	1.4L	1319	30	6/2/2022	WAC060222E		30+ |+
209							30+ |+
1201							30+ |+
1321							30+ |+
1319							30+ |+
1204	1.4L	1203	30	6/2/2022	WAC060222F		30+ |+
214							30+ |+
467							30+ |+
462							30+ |+
1203							30+ |+

Page # 167

Form C151

Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022APR\AT042205.D Vial: 1
Acq On : 22 Apr 2022 12:30 pm Operator: RJP
Sample : WAC042222A Inst : MSD #1
Misc : A302_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 25 13:38:04 2022 Quant Results File: A302_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A302_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 07 09:03:18 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

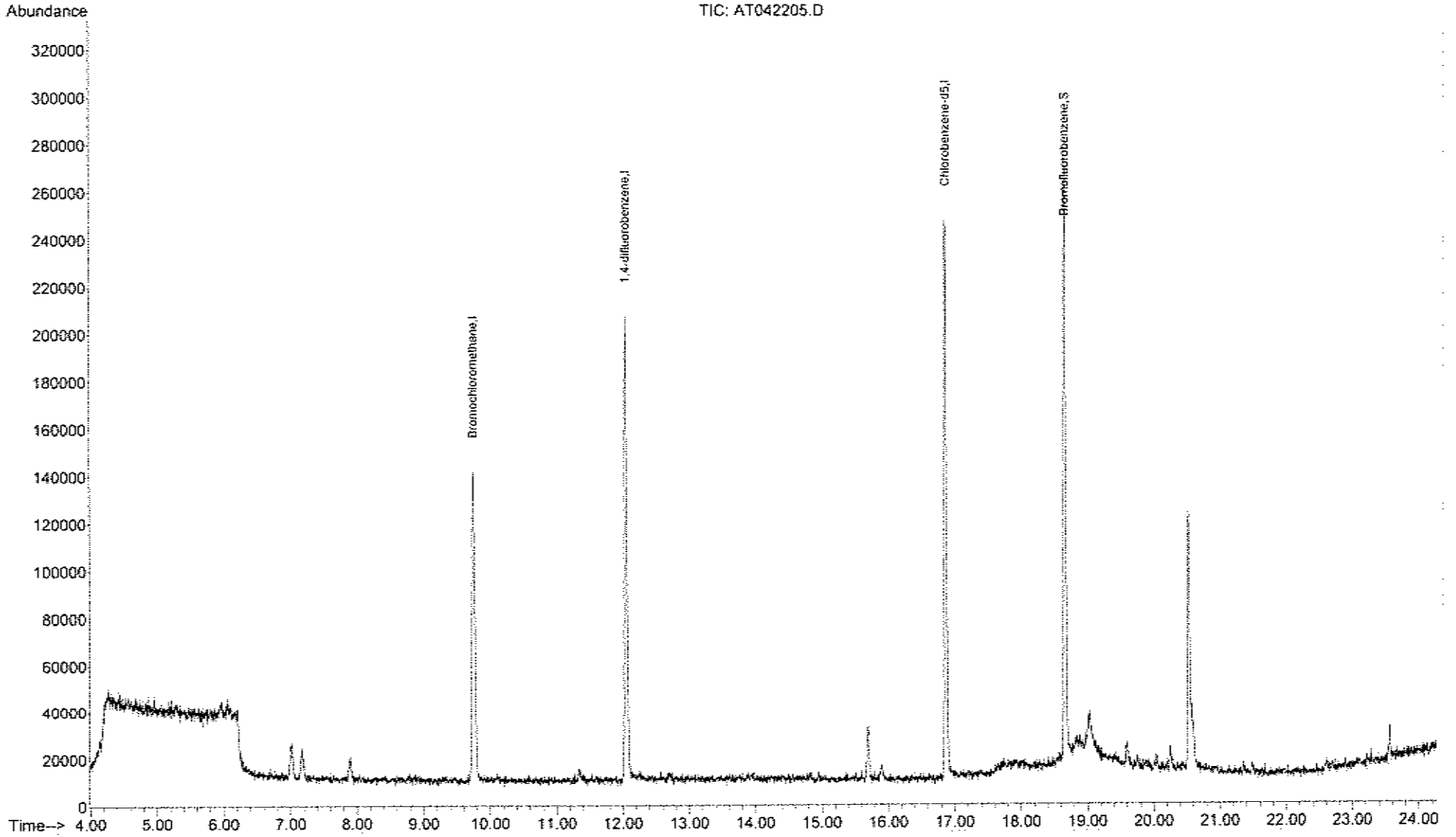
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.75	128	57371	1.00	ppb	0.02
35) 1,4-difluorobenzene	12.05	114	204838	1.00	ppb	0.02
50) Chlorobenzene-d5	16.87	117	164741	1.00	ppb	0.02
System Monitoring Compounds						
65) Bromofluorobenzene	18.66	95	95597	0.82	ppb	0.06
Spiked Amount 1.000	Range 70 - 130		Recovery = 82.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AT042205.D A302_1UG.M Sat Jul 30 13:09:10 2022 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022APR\AT042205.D Vial: 1
Acq On : 22 Apr 2022 12:30 pm Operator: RJP
Sample : WAC042222A Inst : MSD #1
Misc : A302_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 30 13:06 2022 Quant Results File: A302_1UG.RES

Method : C:\HPCHEM\1\METHODS\A302_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 07 09:03:18 2022
Response via : Initial Calibration



AT042205.D A302_1UG.M Sat Jul 30 13:09:11 2022 MSD1 Page 2

Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022APR\AT042206.D Vial: 2
Acq On : 22 Apr 2022 1:12 pm Operator: RJP
Sample : WAC042222B Inst : MSD #1
Misc : A302_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 25 13:38:05 2022 Quant Results File: A302_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A302_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 07 09:03:18 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

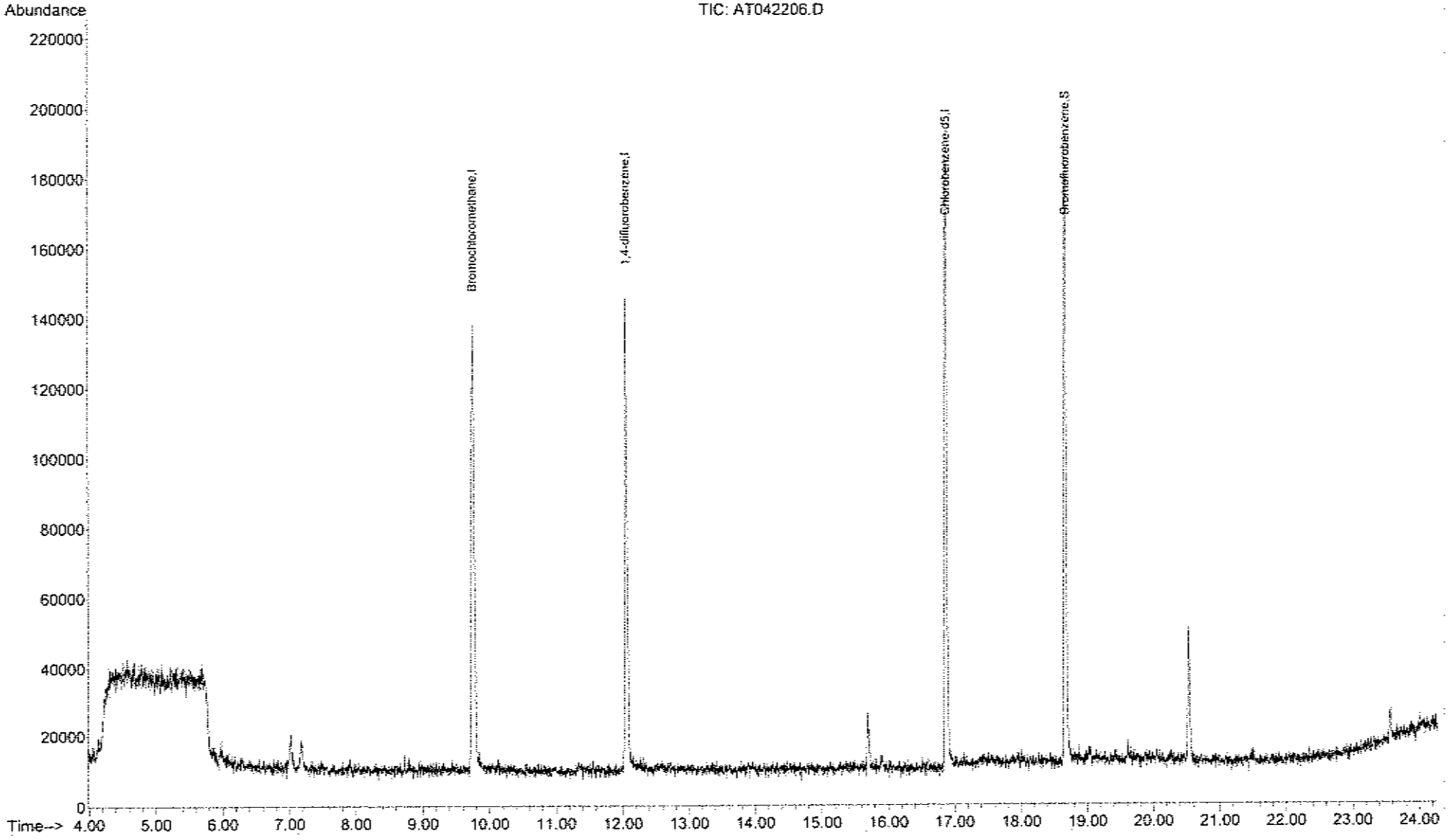
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.75	128	55013	1.00	ppb	0.02
35) 1,4-difluorobenzene	12.06	114	147998	1.00	ppb	0.03
50) Chlorobenzene-d5	16.88	117	129193	1.00	ppb	0.03
System Monitoring Compounds						
65) Bromofluorobenzene	18.67	95	68838	0.75	ppb	0.07
Spiked Amount 1.000	Range 70 - 130		Recovery = 75.00%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022APR\AT042206.D Vial: 2
Acq On : 22 Apr 2022 1:12 pm Operator: RJP
Sample : WAC042222B Inst : MSD #1
Misc : A302_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 30 13:06 2022 Quant Results File: A302_1UG.RES

Method : C:\HPCHEM\1\METHODS\A302_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 07 09:03:18 2022
Response via : Initial Calibration



AT042206.D A302_1UG.M Sat Jul 30 13:09:14 2022 MSD1

Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022APR\AT042207.D Vial: 3
Acq On : 22 Apr 2022 1:54 pm Operator: RJP
Sample : WAC042222C Inst : MSD #1
Misc : A302_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 25 13:38:06 2022 Quant Results File: A302_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A302_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 07 09:03:18 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

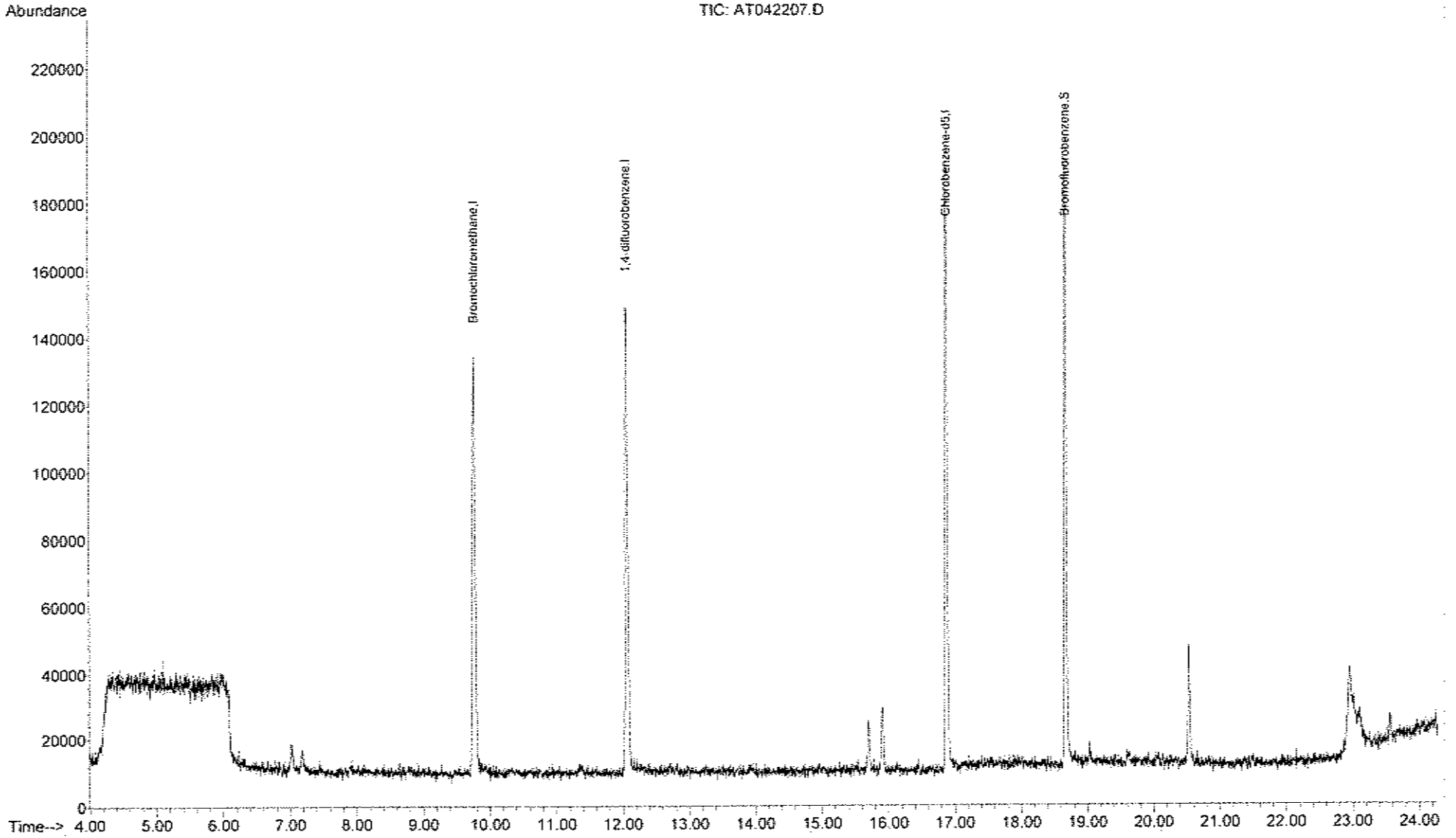
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.77	128	53296	1.00	ppb	0.03
35) 1,4-difluorobenzene	12.06	114	155419	1.00	ppb	0.03
50) Chlorobenzene-d5	16.88	117	133740	1.00	ppb	0.03
System Monitoring Compounds						
65) Bromofluorobenzene	18.67	95	67645	0.71	ppb	0.07
Spiked Amount 1.000	Range 70 - 130		Recovery = 71.00%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022APR\AT042207.D Vial: 3
Acq On : 22 Apr 2022 1:54 pm Operator: RJP
Sample : WAC042222C Inst : MSD #1
Misc : A302_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 25 13:38 2022 Quant Results File: A302_1UG.RES

Method : C:\HPCHEM\1\METHODS\A302_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 07 09:03:18 2022
Response via : Initial Calibration



Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022APR\AT042208.D Vial: 4
Acq On : 22 Apr 2022 2:36 pm Operator: RJP
Sample : WAC042222D Inst : MSD #1
Misc : A302_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 25 13:38:07 2022 Quant Results File: A302_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A302_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 07 09:03:18 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

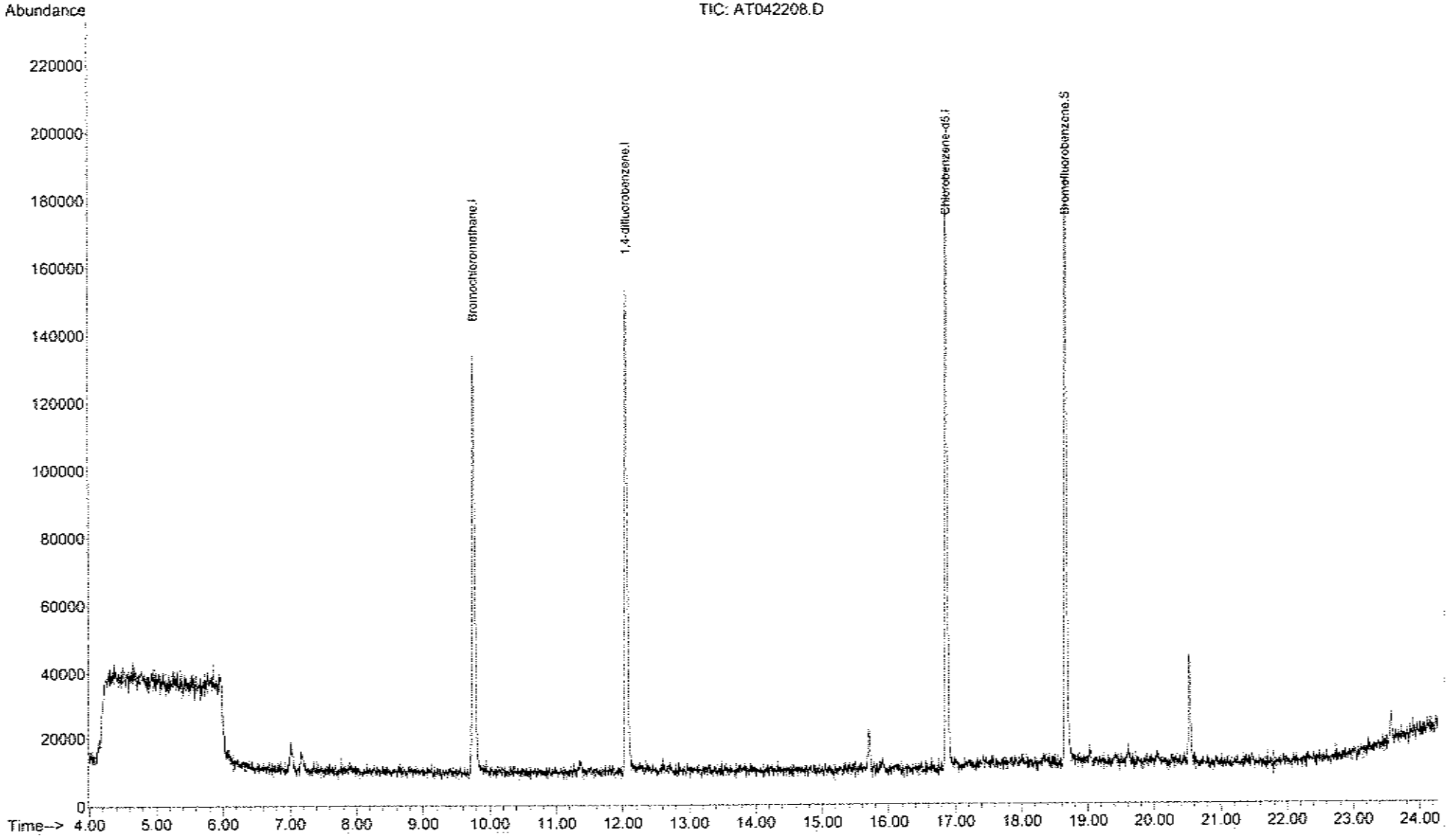
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.77	128	51134	1.00	ppb	0.04
35) 1,4-difluorobenzene	12.06	114	148788	1.00	ppb	0.03
50) Chlorobenzene-d5	16.88	117	131463	1.00	ppb	0.03
System Monitoring Compounds						
65) Bromofluorobenzene	18.67	95	66885	0.72	ppb	0.07
Spiked Amount 1.000	Range 70 - 130		Recovery = 72.00%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022APR\AT042208.D Vial: 4
Acq On : 22 Apr 2022 2:36 pm Operator: RJP
Sample : WAC042222D Inst : MSD #1
Misc : A302_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 30 13:06 2022 Quant Results File: A302_1UG.RES

Method : C:\HPCHEM\1\METHODS\A302_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 07 09:03:18 2022
Response via : Initial Calibration



AT042208.D A302_1UG.M Sat Jul 30 13:09:20 2022 MSD1

Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022APR\AT042209.D Vial: 5
Acq On : 22 Apr 2022 3:18 pm Operator: RJP
Sample : WAC042222E Inst : MSD #1
Misc : A302_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 25 13:38:08 2022 Quant Results File: A302_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A302_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 07 09:03:18 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

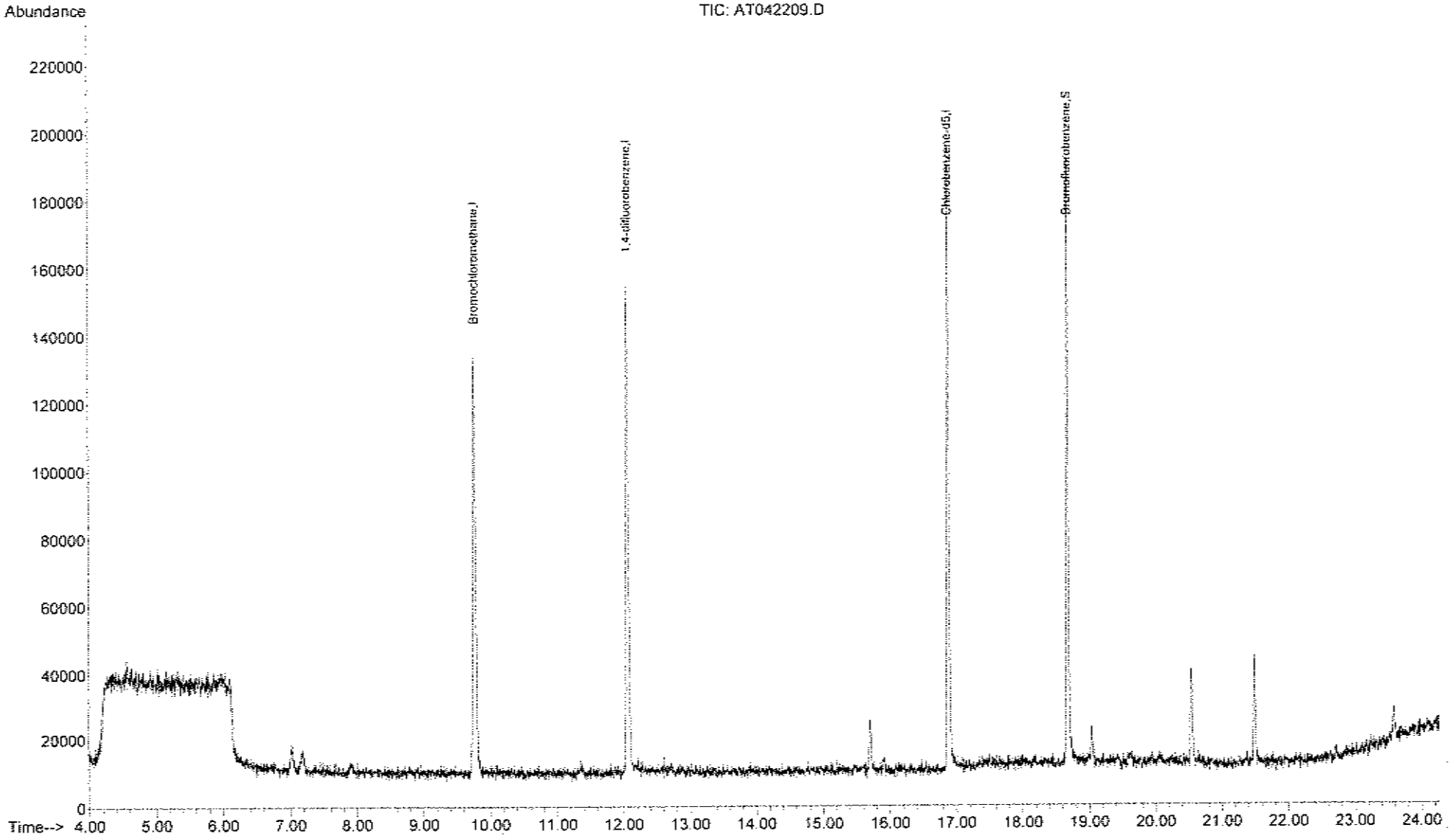
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.77	128	52846	1.00	ppb	0.04
35) 1,4-difluorobenzene	12.06	114	152133	1.00	ppb	0.03
50) Chlorobenzene-d5	16.88	117	132304	1.00	ppb	0.02
System Monitoring Compounds						
65) Bromofluorobenzene	18.67	95	68065	0.72	ppb	0.07
Spiked Amount 1.000	Range 70 - 130		Recovery = 72.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AT042209.D A302_1UG.M Sat Jul 30 13:09:22 2022 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022APR\AT042209.D Vial: 5
Acq On : 22 Apr 2022 3:18 pm Operator: RJP
Sample : WAC042222E Inst : MSD #1
Misc : A302_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 30 13:07 2022 Quant Results File: A302_1UG.RES

Method : C:\HPCHEM\1\METHODS\A302_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 07 09:03:18 2022
Response via : Initial Calibration



AT042209.D A302_1UG.M Sat Jul 30 13:09:23 2022 MSD1

Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022APR\AT042210.D Vial: 6
Acq On : 22 Apr 2022 4:00 pm Operator: RJP
Sample : WAC042222F Inst : MSD #1
Misc : A302_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 25 13:38:09 2022 Quant Results File: A302_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A302_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 07 09:03:18 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

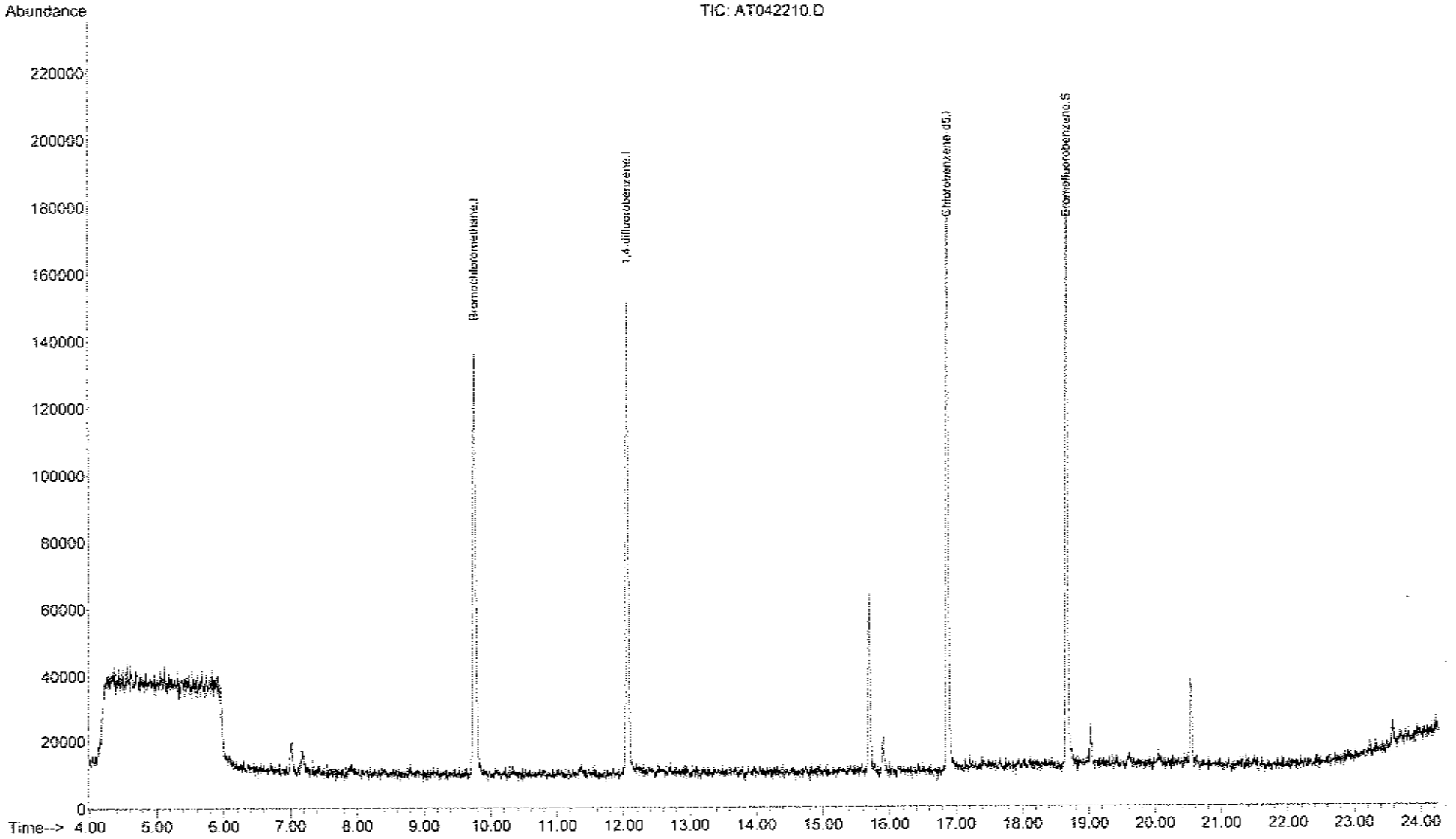
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.77	128	51993	1.00	ppb	0.04
35) 1,4-difluorobenzene	12.06	114	153171	1.00	ppb	0.03
50) Chlorobenzene-d5	16.88	117	131970	1.00	ppb	0.03
System Monitoring Compounds						
65) Bromofluorobenzene	18.68	95	70149	0.75	ppb	0.08
Spiked Amount 1.000	Range 70 - 130		Recovery = 75.00%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022APR\AT042210.D Vial: 6
Acq On : 22 Apr 2022 4:00 pm Operator: RJP
Sample : WAC042222F Inst : MSD #1
Misc : A302_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 30 13:07 2022 Quant Results File: A302_1UG.RES

Method : C:\HPCHEM\1\METHODS\A302_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 07 09:03:18 2022
Response via : Initial Calibration



AT042210.D A302_1UG.M Sat Jul 30 13:09:26 2022 MSD1

Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022APR\AT042211.D Vial: 7
Acq On : 22 Apr 2022 4:43 pm Operator: RJP
Sample : WAC042222G Inst : MSD #1
Misc : A302_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 25 13:38:10 2022 Quant Results File: A302_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A302_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 07 09:03:18 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

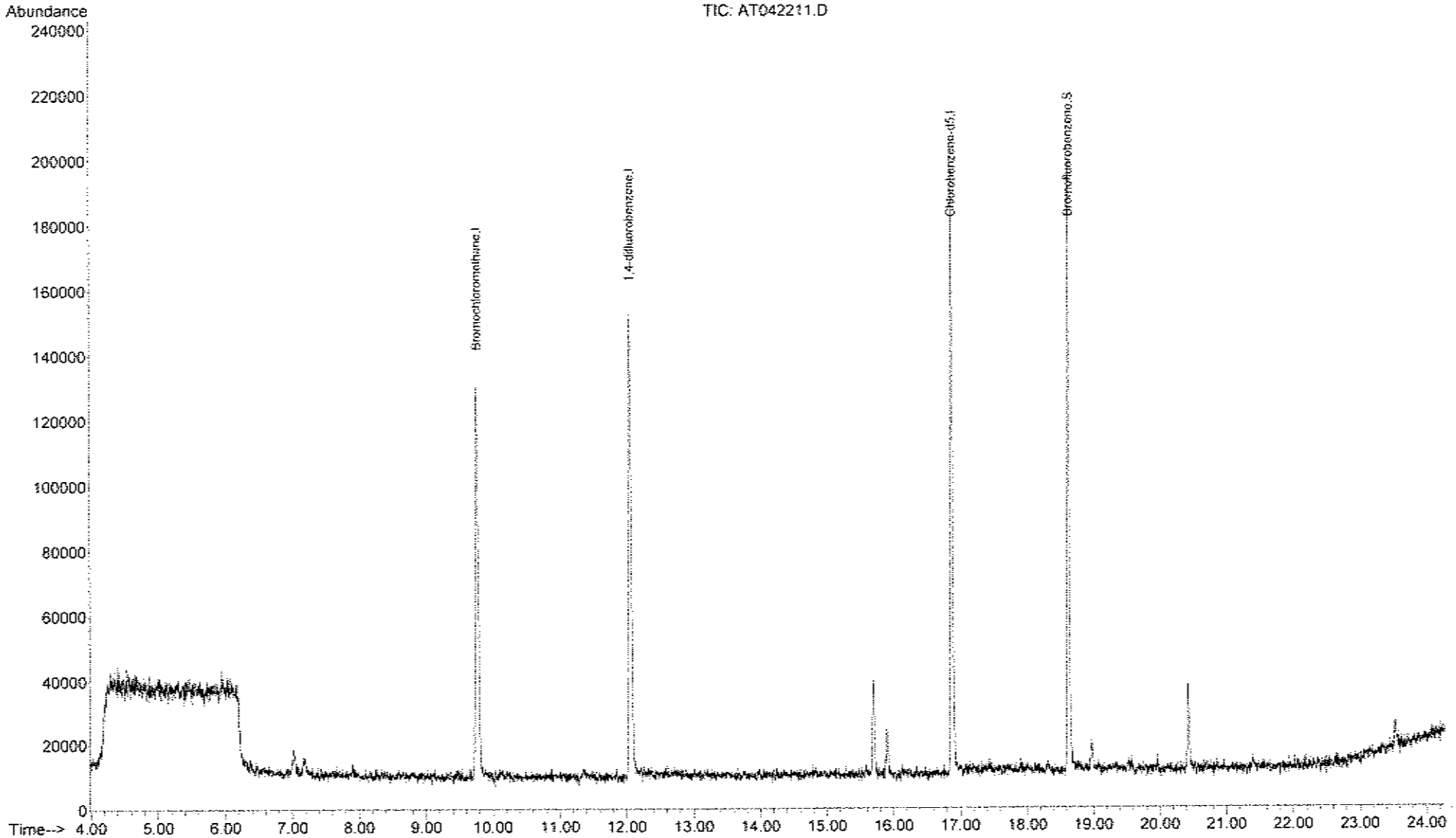
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.76	128	52565	1.00	ppb	0.03
35) 1,4-difluorobenzene	12.06	114	153294	1.00	ppb	0.03
50) Chlorobenzene-d5	16.88	117	132417	1.00	ppb	0.03
System Monitoring Compounds						
65) Bromofluorobenzene	18.63	95	66788	0.71	ppb	0.03
Spiked Amount 1.000	Range 70 - 130		Recovery = 71.00%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022APR\AT042211.D Vial: 7
Acq On : 22 Apr 2022 4:43 pm Operator: RJP
Sample : WAC042222G Inst : MSD #1
Misc : A302_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 30 13:07 2022 Quant Results File: A302_1UG.RES

Method : C:\HPCHEM\1\METHODS\A302_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 07 09:03:18 2022
Response via : Initial Calibration



AT042211.D A302_1UG.M Sat Jul 30 13:09:29 2022 MSD1

Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022MAY\AT051105.D Vial: 5
Acq On : 11 May 2022 12:18 pm Operator: RJP
Sample : WAC051122A Inst : MSD #1
Misc : A502_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 12:48:57 2022 Quant Results File: A502_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A502_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue May 03 09:41:17 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

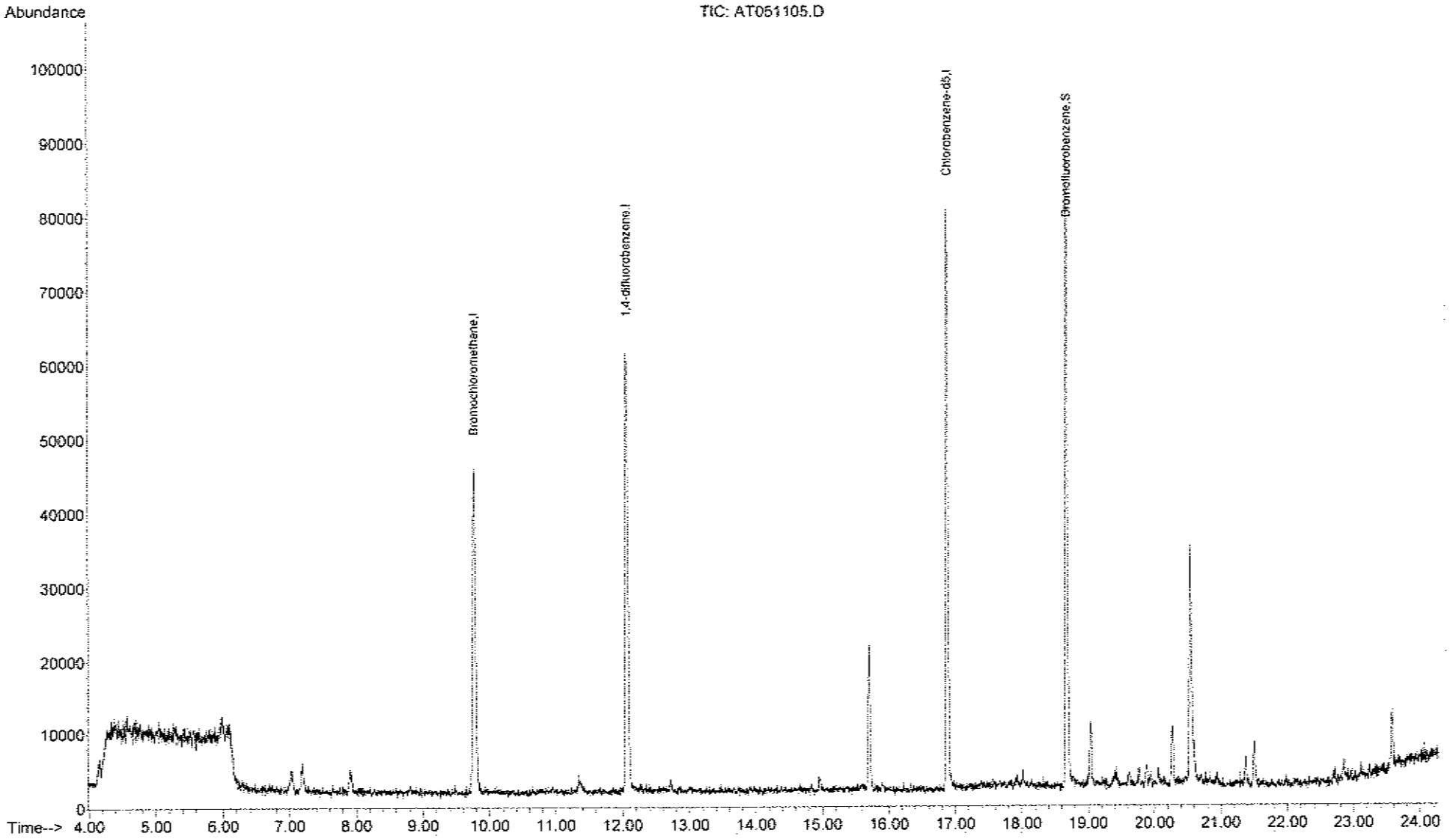
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.78	128	20025	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.07	114	67238	1.00	ppb	0.00
50) Chlorobenzene-d5	16.88	117	58722	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.68	95	32020	0.75	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 75.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AT051105.D A716_1UG.M Sat Jul 30 13:03:04 2022 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022MAY\AT051105.D Vial: 5
Acq On : 11 May 2022 12:18 pm Operator: RJP
Sample : WAC051122A Inst : MSD #1
Misc : A502_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 8:39 2022 Quant Results File: A502_1UG.RES

Method : C:\HPCHEM\1\METHODS\A716_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jul 18 09:56:59 2022
Response via : Initial Calibration



Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022MAY\AT051106.D Vial: 6
Acq On : 11 May 2022 1:03 pm Operator: RJP
Sample : WAC051122B Inst : MSD #1
Misc : A502_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 13:41:30 2022 Quant Results File: A502_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A502_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue May 03 09:41:17 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

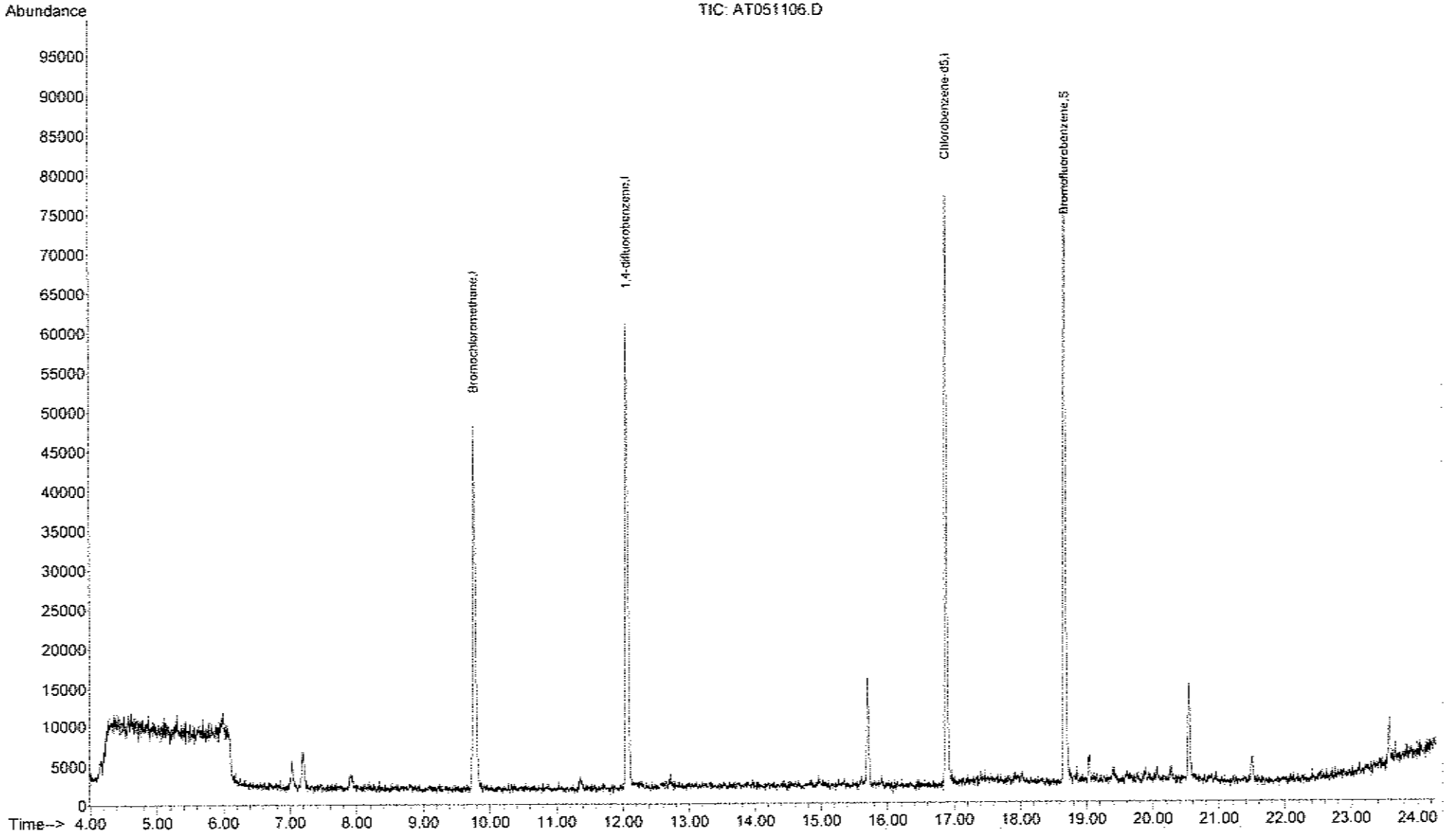
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.78	128	19252	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.06	114	65486	1.00	ppb	0.00
50) Chlorobenzene-d5	16.88	117	56727	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.68	95	30126	0.73	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 73.00%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022MAY\AT051106.D Vial: 6
Acq On : 11 May 2022 1:03 pm Operator: RJP
Sample : WAC051122B Inst : MSD #1
Misc : A502_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 8:39 2022 Quant Results File: A502_1UG.RES

Method : C:\HPCHEM\1\METHODS\A716_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jul 18 09:56:59 2022
Response via : Initial Calibration



AT051106.D A716_1UG.M Sat Jul 30 13:03:08 2022 MSD1 Page 2

Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022MAY\AT051107.D Vial: 7
Acq On : 11 May 2022 1:47 pm Operator: RJP
Sample : WAC051122C Inst : MSD #1
Misc : A502_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:25:24 2022 Quant Results File: A502_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A502_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue May 03 09:41:17 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

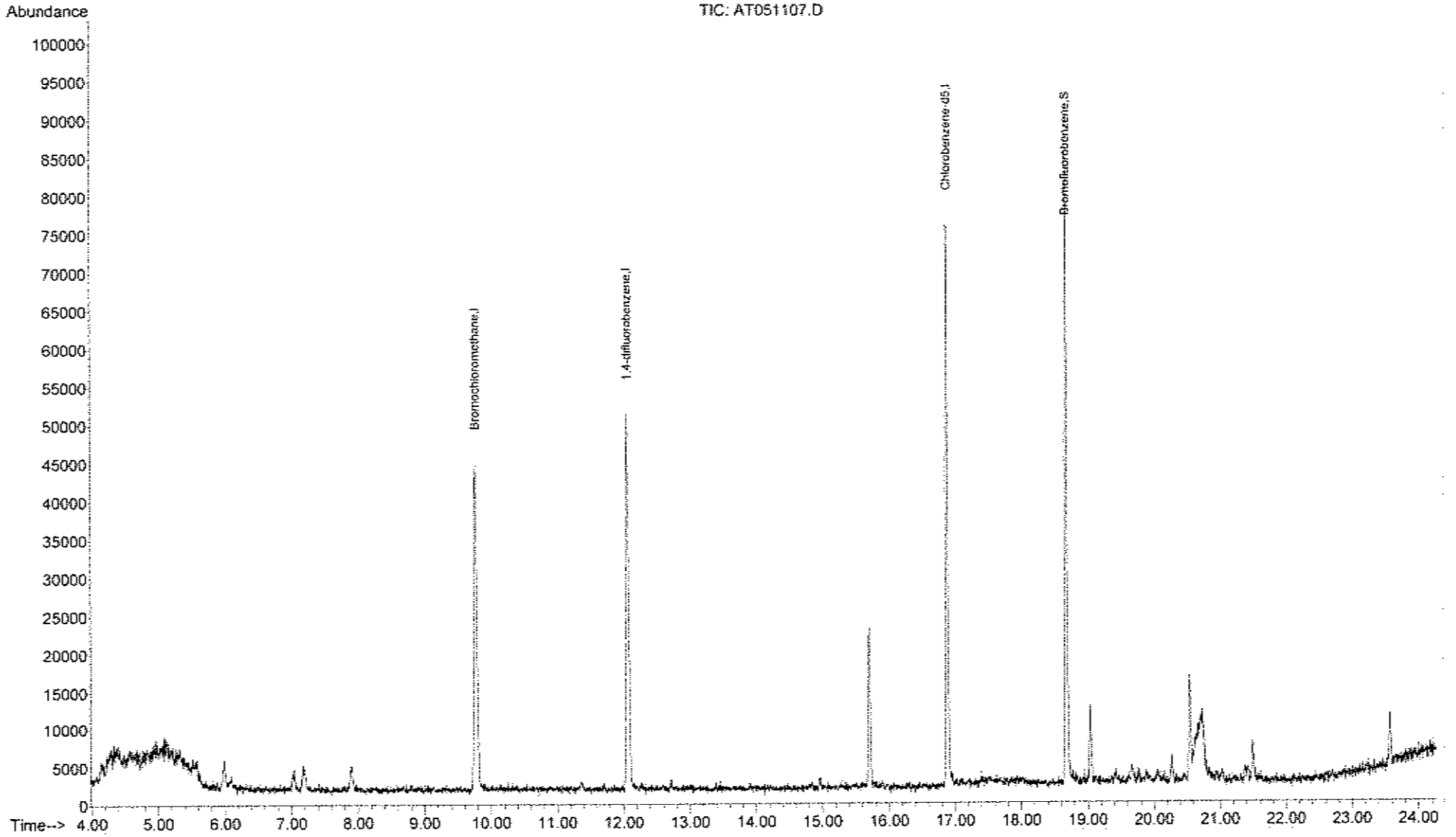
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.77	128	19108	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.07	114	54965	1.00	ppb	0.00
50) Chlorobenzene-d5	16.88	117	55808	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.67	95	30054	0.74	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 74.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AT051107.D A716_1UG.M Sat Jul 30 13:03:10 2022 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022MAY\AT051107.D Vial: 7
Acq On : 11 May 2022 1:47 pm Operator: RJP
Sample : WAC051122C Inst : MSD #1
Misc : A502_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 8:40 2022 Quant Results File: A502_1UG.RES

Method : C:\HPCHEM\1\METHODS\A716_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jul 18 09:56:59 2022
Response via : Initial Calibration



AT051107.D A716_1UG.M Sat Jul 30 13:03:11 2022 MSD1

Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022MAY\AT051112.D Vial: 12
Acq On : 11 May 2022 5:59 pm Operator: RJP
Sample : WAC051122H Inst : MSD #1
Misc : A502_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 08:02:17 2022 Quant Results File: A502_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A502_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue May 03 09:41:17 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

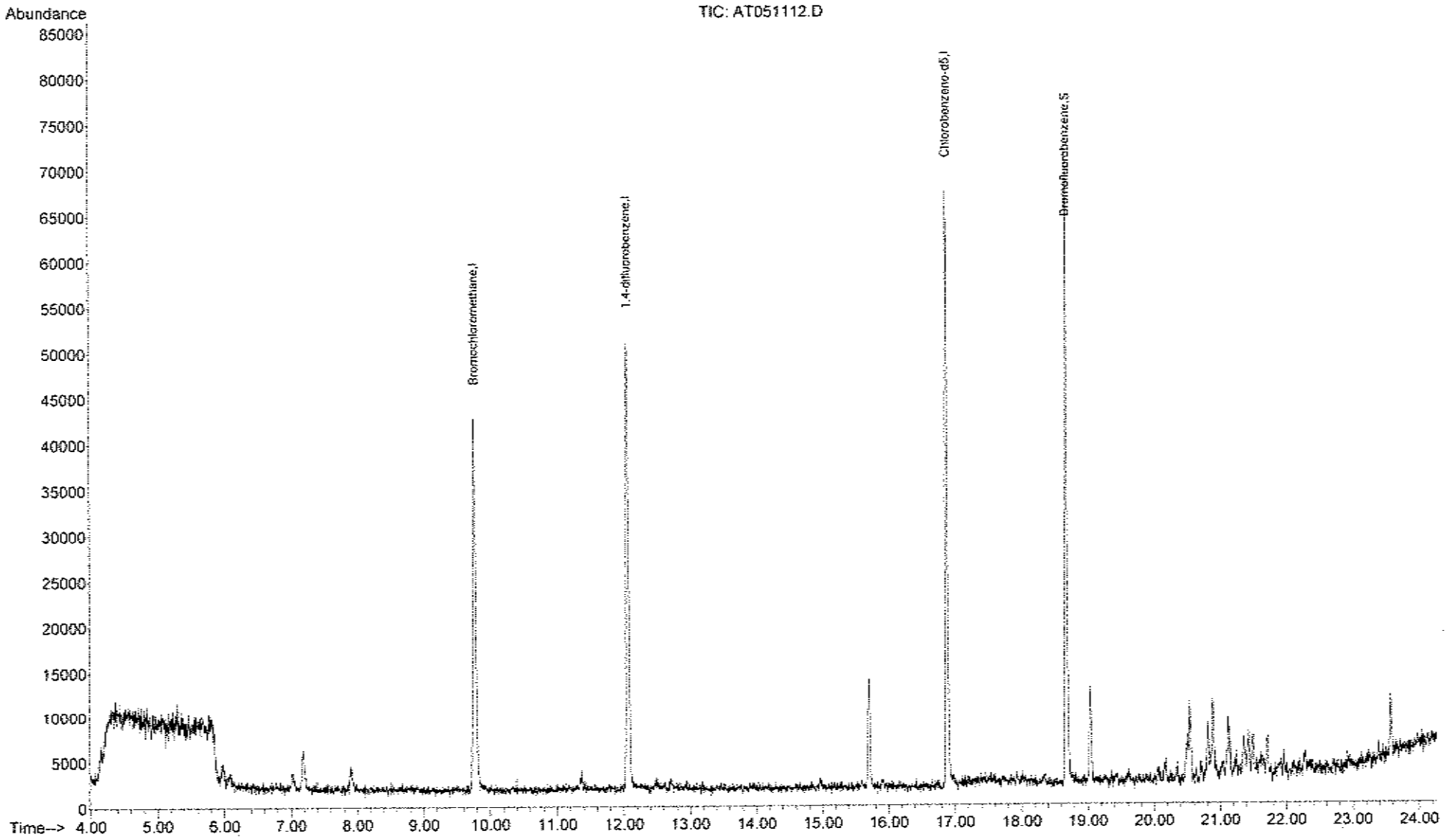
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.77	128	18211	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.07	114	54797	1.00	ppb	0.00
50) Chlorobenzene-d5	16.88	117	49413	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.68	95	25635	0.71	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 71.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AT051112.D A716_1UG.M Sat Jul 30 13:03:13 2022 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022MAY\AT051112.D Vial: 12
Acq On : 11 May 2022 5:59 pm Operator: RJP
Sample : WAC051122H Inst : MSD #1
Misc : A502_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 8:42 2022 Quant Results File: A502_1UG.RES

Method : C:\HPCHEM\1\METHODS\A716_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jul 18 09:56:59 2022
Response via : Initial Calibration



Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022MAY\AT051113.D Vial: 13
Acq On : 11 May 2022 6:43 pm Operator: RJP
Sample : WAC051122I Inst : MSD #1
Misc : A502_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 08:02:29 2022 Quant Results File: A502_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A502_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue May 03 09:41:17 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

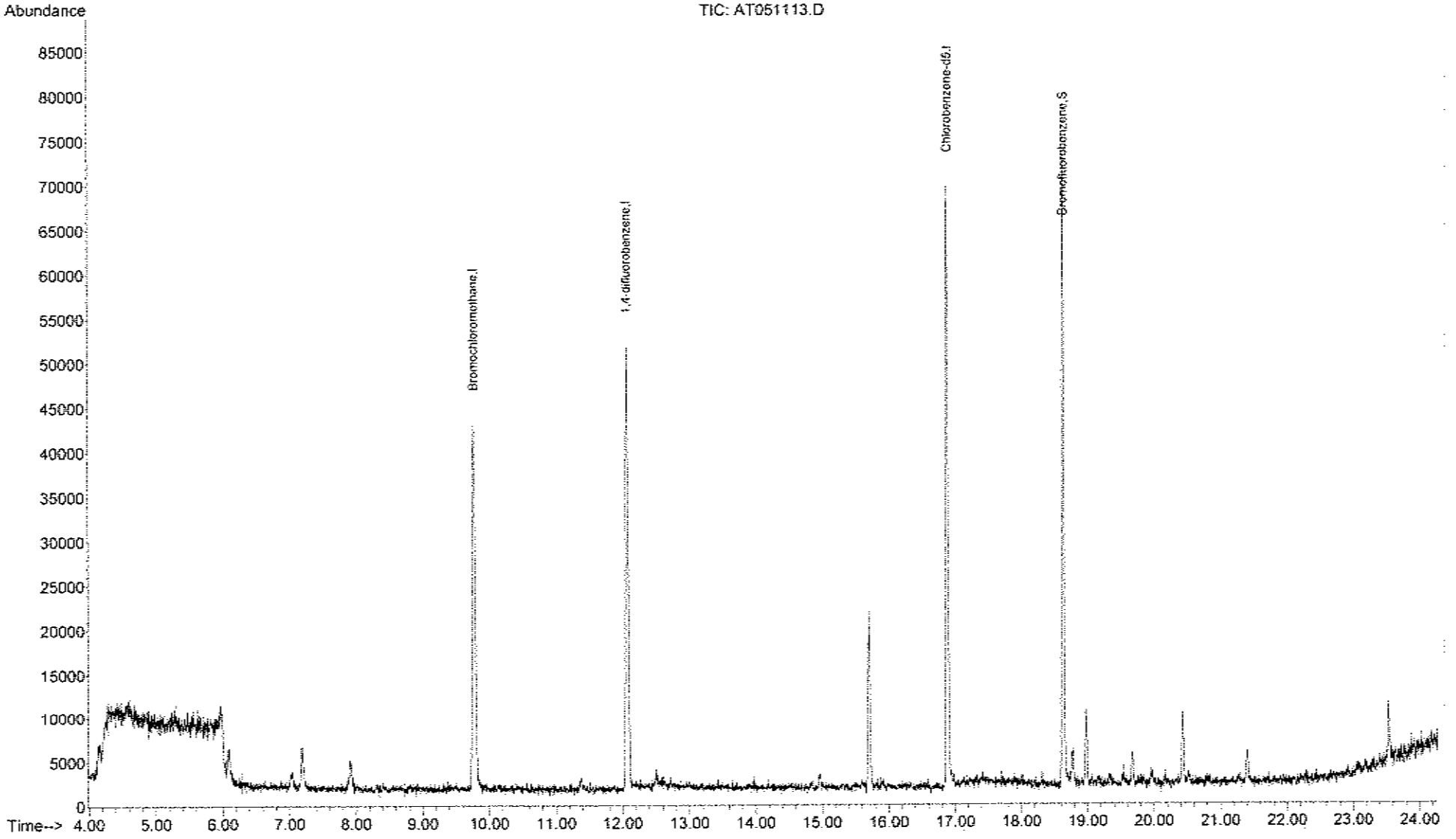
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.78	128	18131	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.07	114	55292	1.00	ppb	0.00
50) Chlorobenzene-d5	16.88	117	50256	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.63	95	25659	0.70	ppb	-0.04
Spiked Amount 1.000	Range 70 - 130		Recovery = 70.00%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022MAY\AT051113.D Vial: 13
Acq On : 11 May 2022 6:43 pm Operator: RJP
Sample : WAC051122I Inst : MSD #1
Misc : A502_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 8:42 2022 Quant Results File: A502_1UG.RES

Method : C:\HPCHEM\1\METHODS\A716_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jul 18 09:56:59 2022
Response via : Initial Calibration



Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022JUNE\AT060209.D Vial: 9
Acq On : 2 Jun 2022 4:06 pm Operator: RJP
Sample : WAC060222A Inst : MSD #1
Misc : A523_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 10:56:25 2022 Quant Results File: A523_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A523_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue May 24 09:26:44 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

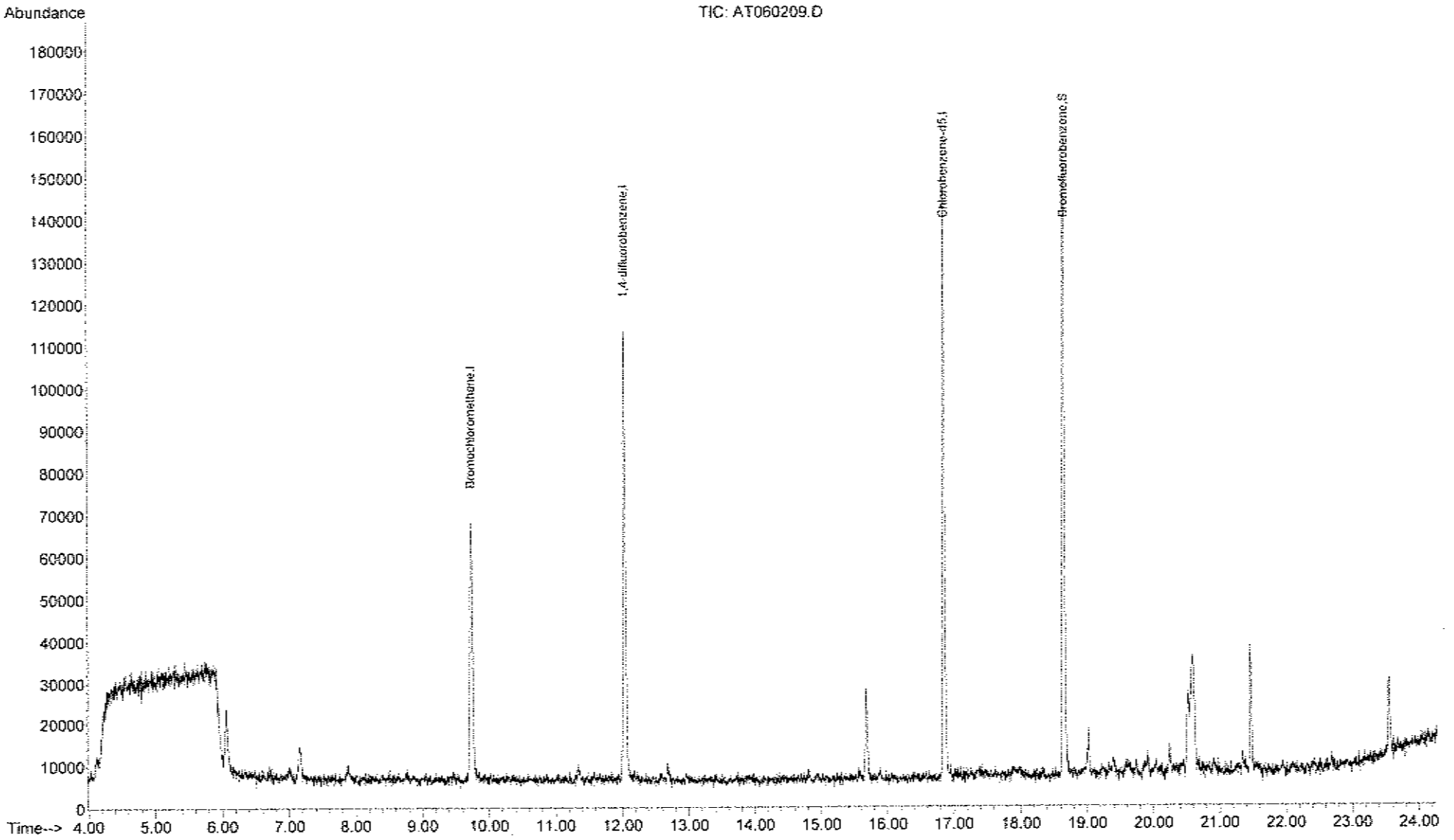
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.73	128	24235	1.00	ppb	-0.04
35) 1,4-difluorobenzene	12.04	114	111282	1.00	ppb	-0.01
50) Chlorobenzene-d5	16.86	117	93769	1.00	ppb	-0.02
System Monitoring Compounds						
65) Bromofluorobenzene	18.65	95	57910	0.88	ppb	-0.02
Spiked Amount 1.000	Range 70 - 130		Recovery = 88.00%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022JUNE\AT060209.D Vial: 9
Acq On : 2 Jun 2022 4:06 pm Operator: RJP
Sample : WAC060222A Inst : MSD #1
Misc : A523_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 30 13:13 2022 Quant Results File: A523_1UG.RES

Method : C:\HPCHEM\1\METHODS\A523_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jun 16 08:09:09 2022
Response via : Initial Calibration



AT060209.D A523_1UG.M Sat Jul 30 13:22:30 2022 MSD1

Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022JUNE\AT060210.D Vial: 10
Acq On : 2 Jun 2022 4:49 pm Operator: RJP
Sample : WAC060222B Inst : MSD #1
Misc : A523_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 10:56:27 2022 Quant Results File: A523_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A523_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue May 24 09:26:44 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

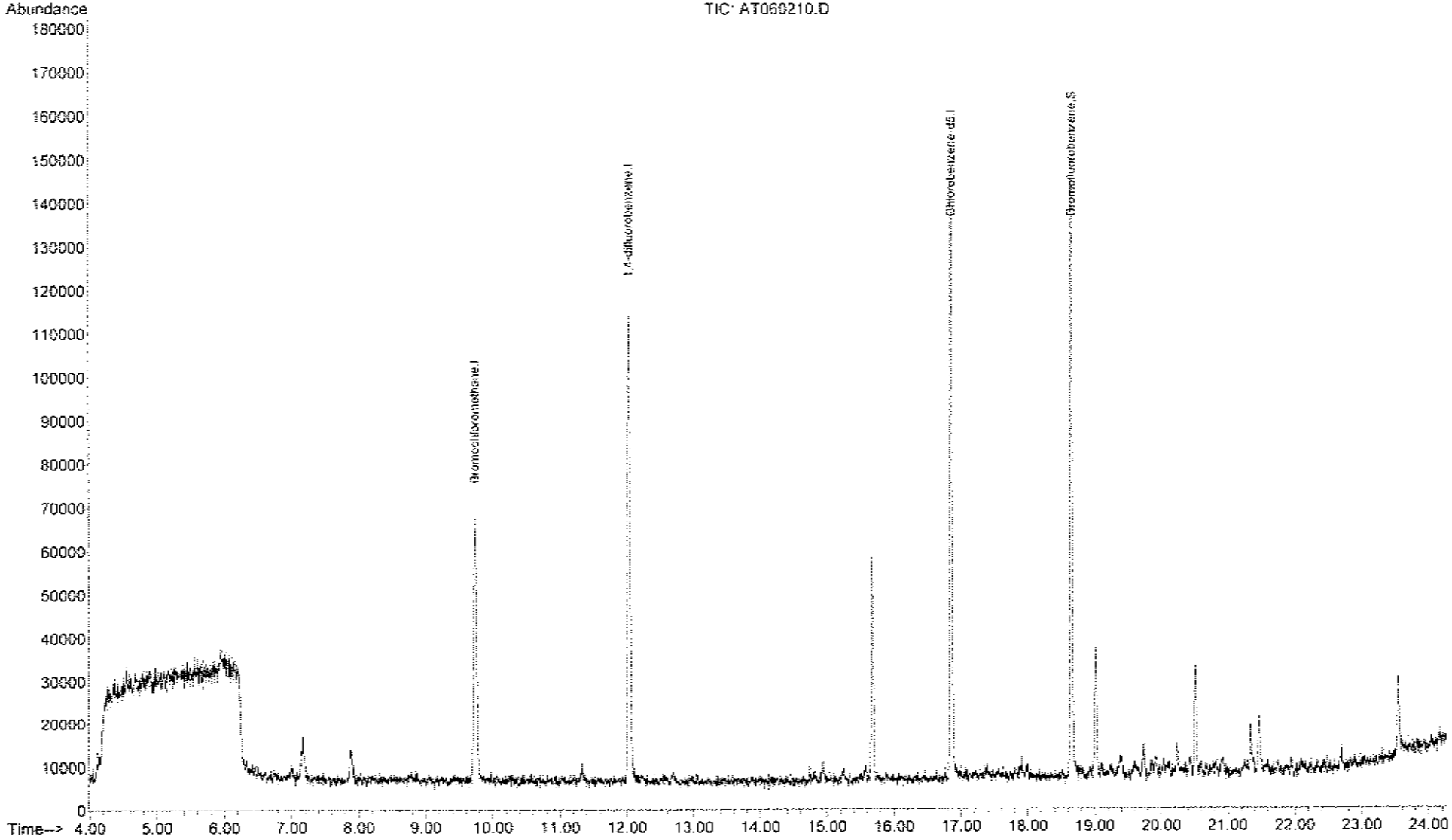
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.75	128	24159	1.00	ppb	-0.02
35) 1,4-difluorobenzene	12.04	114	109846	1.00	ppb	-0.02
50) Chlorobenzene-d5	16.86	117	89182	1.00	ppb	-0.02
System Monitoring Compounds						
65) Bromofluorobenzene	18.65	95	54393	0.87	ppb	-0.02
Spiked Amount 1.000	Range 70 - 130		Recovery = 87.00%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022JUNE\AT060210.D Vial: 10
Acq On : 2 Jun 2022 4:49 pm Operator: RJP
Sample : WAC060222B Inst : MSD #1
Misc : A523_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 30 13:14 2022 Quant Results File: A523_1UG.RES

Method : C:\HPCHEM\1\METHODS\A523_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jun 16 08:09:09 2022
Response via : Initial Calibration



AT060210.D A523_1UG.M Sat Jul 30 13:22:33 2022 MSD1 Page 2

Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022JUNE\AT060211.D Vial: 11
Acq On : 2 Jun 2022 5:33 pm Operator: RJP
Sample : WAC060222C Inst : MSD #1
Misc : A523_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 10:56:29 2022 Quant Results File: A523_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A523_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue May 24 09:26:44 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

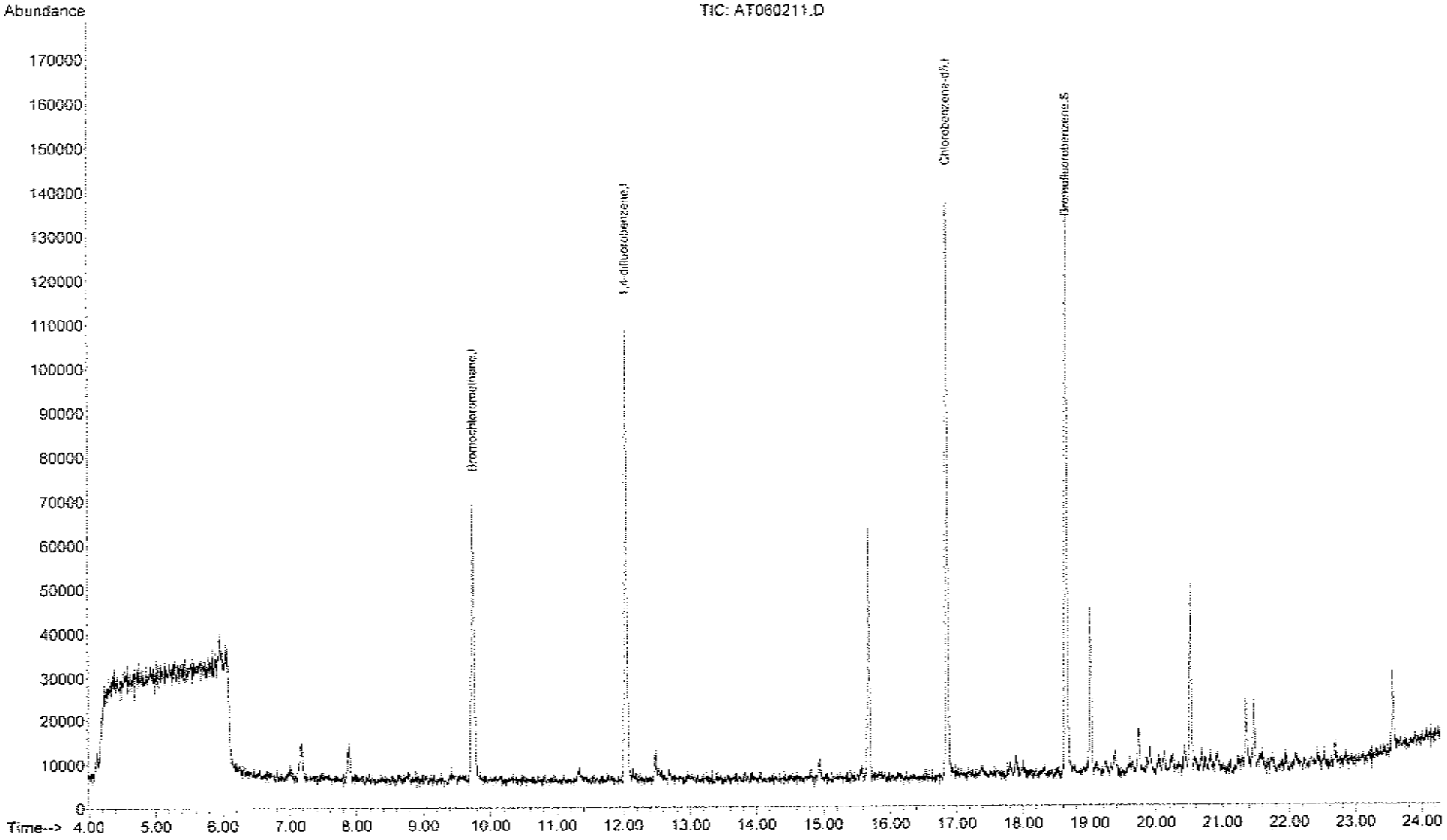
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.74	128	23854	1.00	ppb	-0.03
35) 1,4-difluorobenzene	12.04	114	104130	1.00	ppb	-0.02
50) Chlorobenzene-d5	16.85	117	86195	1.00	ppb	-0.03
System Monitoring Compounds						
65) Bromofluorobenzene	18.65	95	54980	0.91	ppb	-0.02
Spiked Amount 1.000	Range 70 - 130		Recovery = 91.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AT060211.D A523_1UG.M Sat Jul 30 13:22:35 2022 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022JUNE\AT060211.D Vial: 11
Acq On : 2 Jun 2022 5:33 pm Operator: RJP
Sample : WAC060222C Inst : MSD #1
Misc : A523_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 6 10:56 2022 Quant Results File: A523_1UG.RES

Method : C:\HPCHEM\1\METHODS\A523_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jun 16 08:09:09 2022
Response via : Initial Calibration



AT060211.D A523_1UG.M Sat Jul 30 13:22:36 2022 MSD1 Page 2

Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022JUNE\AT060212.D Vial: 12
Acq On : 2 Jun 2022 6:17 pm Operator: RJP
Sample : WAC060222D Inst : MSD #1
Misc : A523_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 10:56:31 2022 Quant Results File: A523_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A523_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue May 24 09:26:44 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

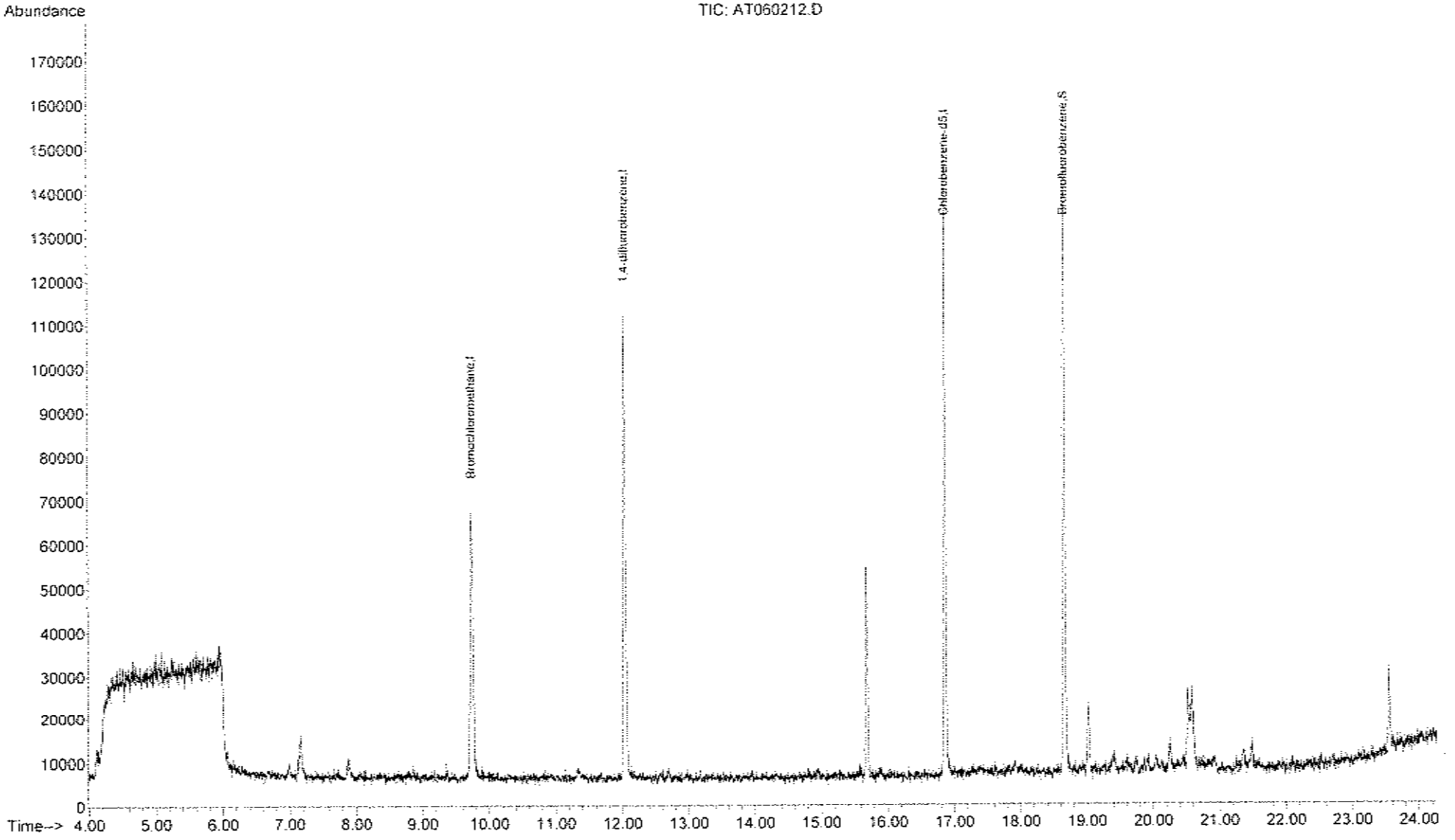
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.74	128	24602	1.00	ppb	-0.03
35) 1,4-difluorobenzene	12.04	114	104655	1.00	ppb	-0.02
50) Chlorobenzene-d5	16.86	117	87497	1.00	ppb	-0.02
System Monitoring Compounds						
65) Bromofluorobenzene	18.65	95	54846	0.90	ppb	-0.02
Spiked Amount 1.000	Range 70 - 130		Recovery = 90.00%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022JUNE\AT060212.D Vial: 12
Acq On : 2 Jun 2022 6:17 pm Operator: RJP
Sample : WAC060222D Inst : MSD #1
Misc : A523_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 30 13:14 2022 Quant Results File: A523_1UG.RES

Method : C:\HPCHEM\1\METHODS\A523_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jun 16 08:09:09 2022
Response via : Initial Calibration



AT060212.D A523_1UG.M Sat Jul 30 13:22:39 2022 MSD1 Page 2

Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022JUNE\AT060213.D Vial: 13
Acq On : 2 Jun 2022 7:02 pm Operator: RJP
Sample : WAC060222E Inst : MSD #1
Misc : A523_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 10:56:33 2022 Quant Results File: A523_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A523_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue May 24 09:26:44 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

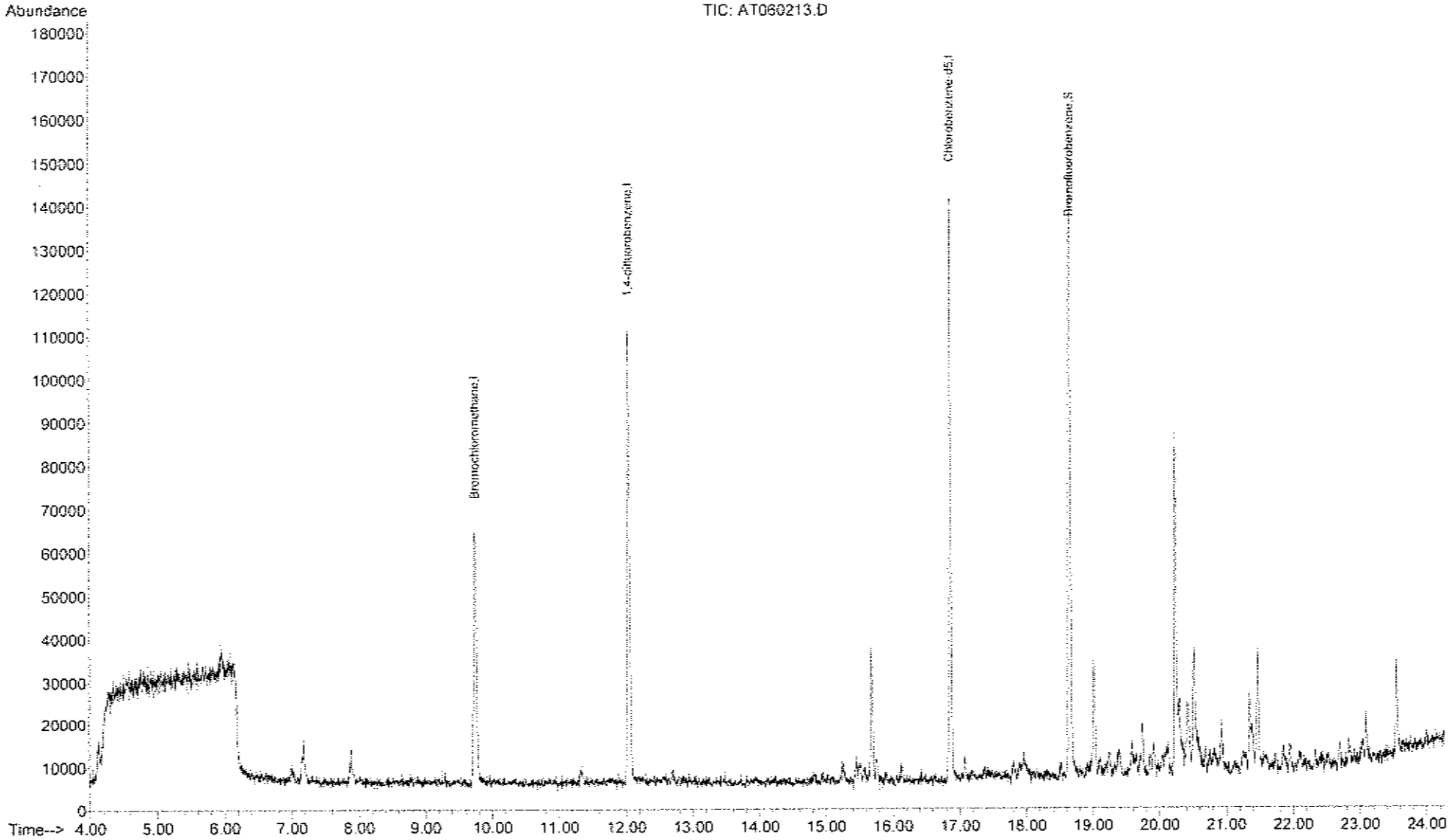
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.74	128	23349	1.00	ppb	-0.03
35) 1,4-difluorobenzene	12.04	114	106539	1.00	ppb	-0.01
50) Chlorobenzene-d5	16.86	117	88242	1.00	ppb	-0.02
System Monitoring Compounds						
65) Bromofluorobenzene	18.65	95	54901	0.89	ppb	-0.02
Spiked Amount 1.000	Range 70 - 130		Recovery = 89.00%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022JUNE\AT060213.D Vial: 13
Acq On : 2 Jun 2022 7:02 pm Operator: RJP
Sample : WAC060222E Inst : MSD #1
Misc : A523_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 30 13:14 2022 Quant Results File: A523_1UG.RES

Method : C:\HPCHEM\1\METHODS\A523_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jun 16 08:09:09 2022
Response via : Initial Calibration



AT060213.D A523_1UG.M Sat Jul 30 13:22:42 2022 MSD1 Page 2

Centek/SanAir Laboratories

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022JUNE\AT060214.D Vial: 14
Acq On : 2 Jun 2022 7:46 pm Operator: RJP
Sample : WAC060222F Inst : MSD #1
Misc : A523_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 10:56:35 2022 Quant Results File: A523_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A523_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue May 24 09:26:44 2022
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

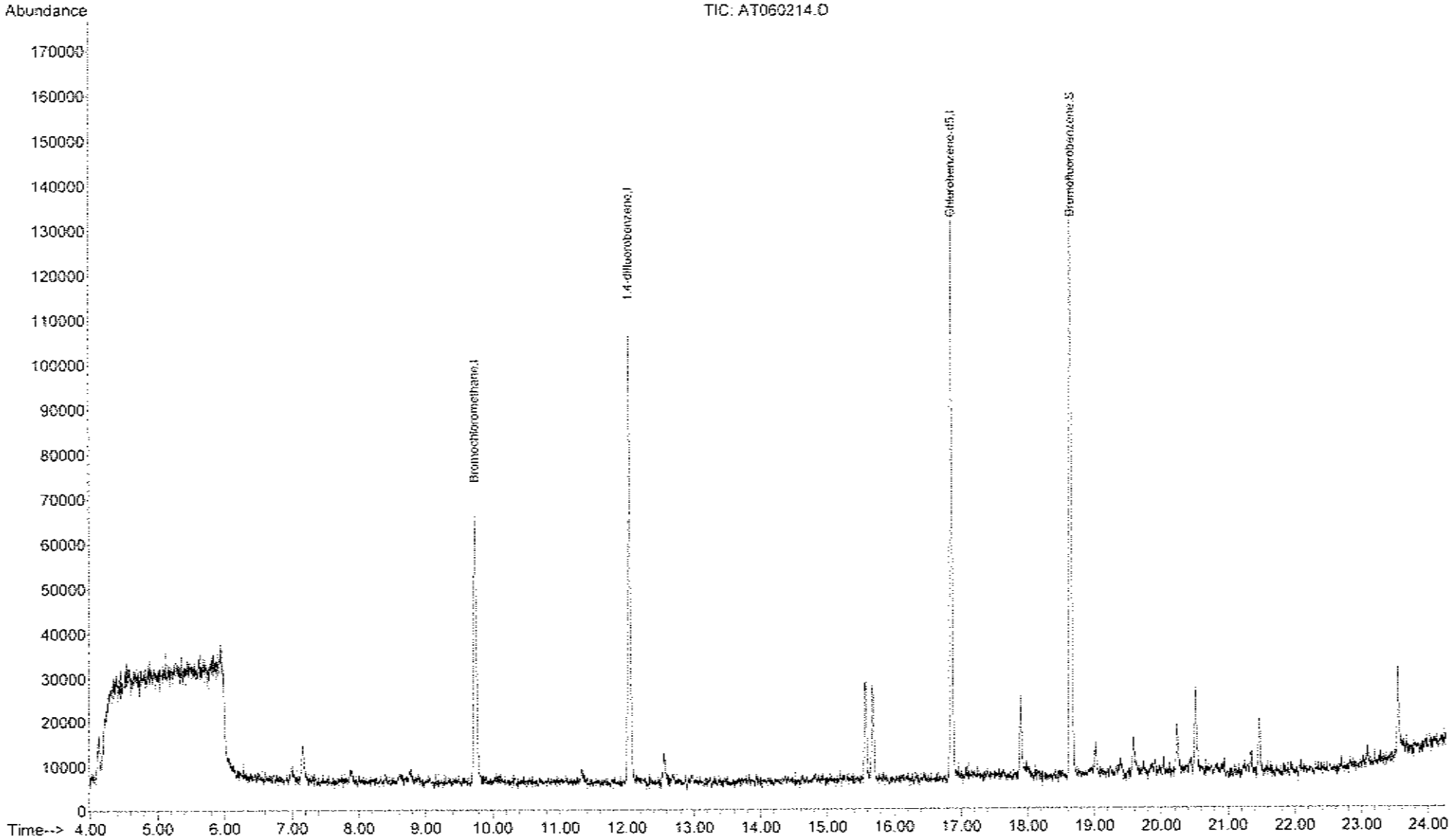
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.74	128	22935	1.00	ppb	-0.03
35) 1,4-difluorobenzene	12.04	114	102229	1.00	ppb	-0.02
50) Chlorobenzene-d5	16.86	117	89142	1.00	ppb	-0.02
System Monitoring Compounds						
65) Bromofluorobenzene	18.65	95	56337	0.90	ppb	-0.02
Spiked Amount 1.000	Range 70 - 130		Recovery = 90.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AT060214.D A523_1UG.M Sat Jul 30 13:22:44 2022 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2022JUNE\AT060214.D Vial: 14
Acq On : 2 Jun 2022 7:46 pm Operator: RJP
Sample : WAC060222F Inst : MSD #1
Misc : A523_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 30 13:15 2022 Quant Results File: A523_1UG.RES

Method : C:\HPCHEM\1\METHODS\A523_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jun 16 08:09:09 2022
Response via : Initial Calibration

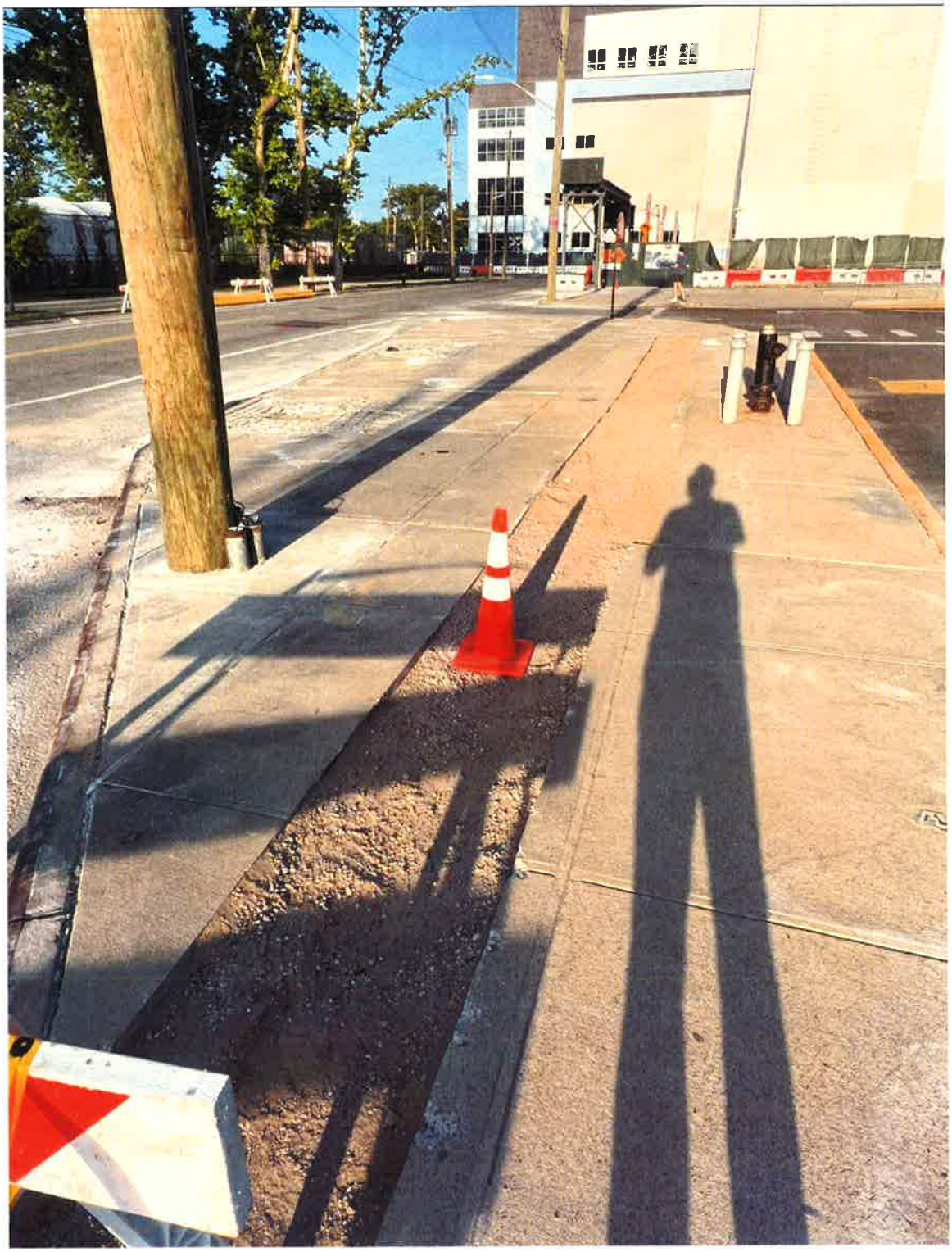


AT060214.D A523_1UG.M Sat Jul 30 13:22:45 2022 MSD1 Page 2

Centek/SanAir Laboratories

Photo Log

U.S. Dredging Shipyard Site
Tax Block 612, Lot 130
Brooklyn, New York
NYSDEC - BCP Number C224043









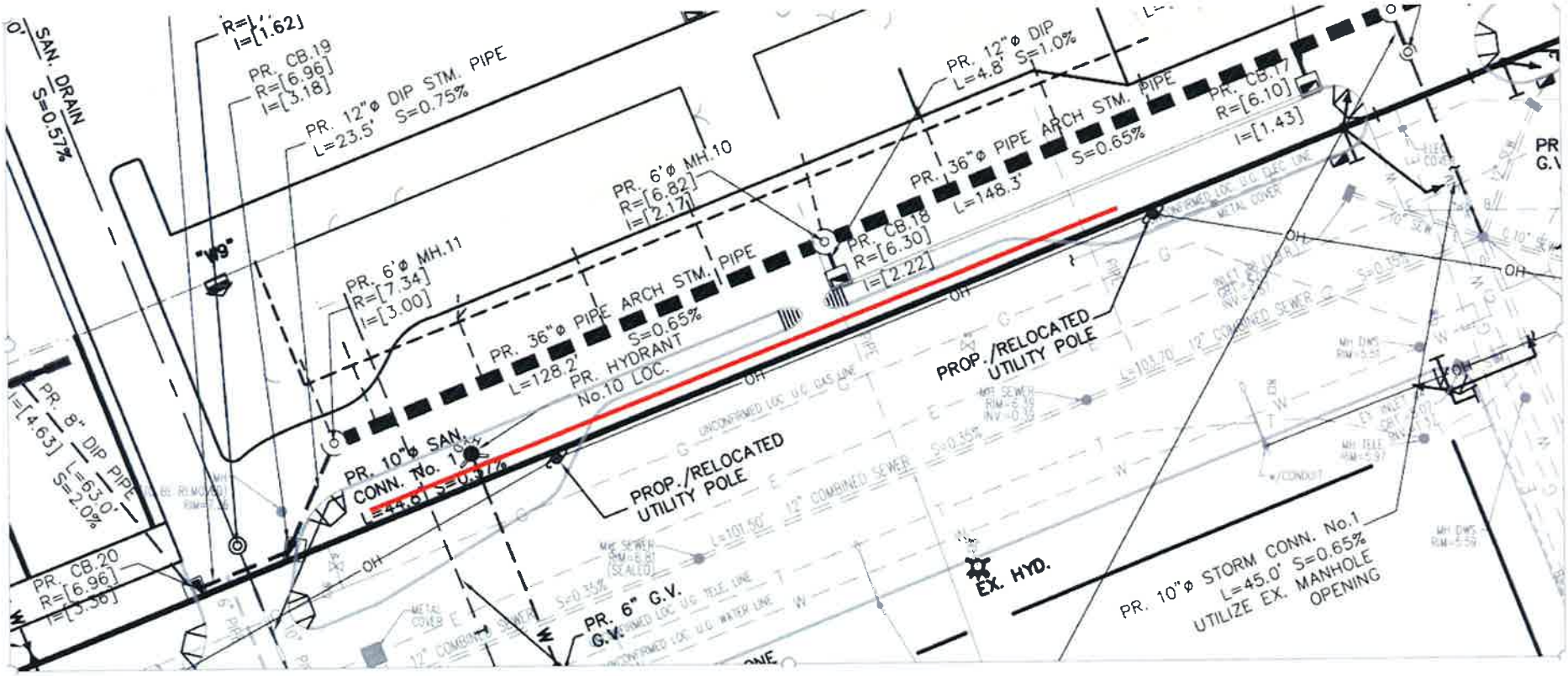



STOP


STOP
STOP




DEERE


SAN. DRAIN
S=0.57%
PR. CB.19
R=[6.96]
I=[3.18]
PR. 12"ø DIP STM. PIPE
L=23.5'
S=0.75%
PR. 6'ø MH.10
R=[6.82]
I=[2.17]
PR. 12"ø DIP
L=4.8'
S=1.0%
PR. 36"ø PIPE ARCH STM. PIPE
L=148.3'
S=0.65%
PR. CB.17
R=[6.10]
I=[1.43]
PR. 6'ø MH.11
R=[7.34]
I=[3.00]
PR. 36"ø PIPE ARCH STM. PIPE
L=128.2'
S=0.65%
PR. CB.18
R=[6.30]
I=[2.22]
PR. HYDRANT
No.10 LOC.
PROP./RELOCATED
UTILITY POLE
PR. 8" DIP PIPE
L=63.0'
S=2.0%
PR. 10"ø SAN.
CONN. No. 1
PROP./RELOCATED
UTILITY POLE
PR. CB.20
R=[6.96]
I=[3.56]
PR. 6" G.V.
EX. HYD.
PR. 10"ø STORM CONN. No.1
L=45.0' S=0.65%
UTILIZE EX. MANHOLE
OPENING