Centek Laboratories TO-15 Package Review CheckList

Client: Matrix Environmental **Project:** Aquino Lake Ave A **SDG:** C2001030

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

Comments:

		YES	NO	NA
Chain of Custody	Present and Complete	✓		
Surrogate	Present and Complete	✓		
	Recoveries within Limits	✓		
	Sample(s) reanalyzed		✓	
Internal Standards Recovery	Present and Complete	✓		
	Recoveries within Limits	✓		
	Sample(s) reanalyzed		✓	

Comments:

		YES	NO	NA
Lab Control Sample (LCS)	Present and Complete	✓		
	Recoveries within Limits	✓		
Lab Control Sample Dupe (LCSD)	Present and Complete	✓		
	Recoveries within Limits	✓		
MS/MSD	Present and Complete			✓
	Recoveries within Limits			✓

Comments: NO MS/MSD

		YES	NO	NA
Sample Raw Data	Present and Complete	✓		
	Spectra present	✓		

Comments:

Centek Laboratories TO-15 Package Review CheckList

Client: Matrix Environmental **Project:** Aquino Lake Ave A **SDG:** C2001030

		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

		YES	NO	NA
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:

		YES	NO	NA
Logbooks				
Injection Log		✓		
Standards Log		✓		
Can Cleaning Log		✓		
Calculation Sheet		✓		
IDL's		✓		
Canister Order Form		✓		
Sample Tracking Form		✓		

Additional Comments:

Section Supervisor: [signature] Date: 2/12/20

QC Supervisor: [signature] Date: 2/12/20

CENTEK LABORATORIES, LLC

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

Analytical Report

Steve Marchetti
Matrix Environmental Technologies, Inc
3730 California Rd.
Orchard Park, NY 14127

TEL: (585) 770-4332
FAX
RE: Aquino Lake Ave Apts

Friday, January 24, 2020
Order No.: C2001030

Dear Steve Marchetti:

Centek Laboratories, LLC received 7 sample(s) on 1/20/2020 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 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 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 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 Laboratories, LLC Terms and Conditions

Sample Submission

All samples sent to Centek 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.CentekLabs.com. Samples received after 3:00pm are considered to be a part of the next day's business.

Sample Media

Samples can be collected in an canister or a Tedlar bag. Depending on your analytical needs, Centek 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 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 dameges of equipment.

Turn Around time (TAT)

Centek 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. 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 Laboratories, LLC 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 Laboratories, LLC warrants the test results to be accurate to the methodology and sample type for each sample submitted to Centek Laboratories, LLC. In no event shall Centek Laboratories, LLC be liable for direct, indirect, special, punitive, incidental, exemplary or consequential damages, or any damages whatsoever, even if Centek Laboratories, LLC 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
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CENTEK LABORATORIES, LLC

Date: *12-Feb-20*

CLIENT: Matrix Environmental Technologies, Inc

Project: Aquino Lake Ave Apts

Lab Order: C2001030

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: [4086] CC did not meet criteria.

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 20-Jan-20 **Corrective Action Report ID:** 4086

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 1/20/20 for 1,4-DCB & 1,2,4-TCB. 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:** 20-Jan-20

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.: William Dobbin **Close Date:** 22-Jan-20

QA Officer Approval: Nick Scala **QA Date:** 22-Jan-20

Last Updated BY russ Updated: 12-Feb-2020 2:47 PM Reported: 12-Feb-2020 2:47 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: Aquino Lake Avenue Apartments
Project:
PO#: 18-046
Quote # Q- SP
Canister Order #: 8192

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: Matrix Environmental Tech.
Report to: Steve Marchetti
Address:
City, State, Zip
Email: smarchetti@matrixbiotech
Phone:

Company:
Check Here If Same: ☐
Invoice to:
Address: Matrix Environmental
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 Start / Stop
Outdoor Air	1-15-20	365	394	TO15	30+ / 3.5	0 / -1	8:31 AM / 8:31
Building 1 - indoor	1-15-20	438	381	↓	30+ / 0.5	-1 / -1	8:37 AM / 8:39
Apartment A1 - indoor	1-15-20	1178	434		30+ / 2.8	-1 / -2	8:55 AM / 8:55
Apartment A3 - indoor	1-15-20	285	439		30+ / 4.0	-1 / -2	9:28 AM / 9:30
Apartment A4 indoor	1-15-20	1183	372		30+ / 4.0	-1 / -2	9:48 AM / 9:50
Apartment A4 - DUP	1-15-20	1189	378		30+ / 2.5	-1 / -3	9:50 AM / 9:50
Apartment A2 - indoor	1-16-20	1316	440		30+ / 0	0 / -2	8:30 AM / 8:35

Chain of Custody	Print Name	Signature	Date/Time	Courier: CIRCLE ONE
Sampled by:	Steven L. Marchetti	[signature]	1/16/2020 8:45	FedEx UPS Pickup/Dropoff
Relinquished by:	Steven L. Marchetti	[signature]	1/17/20 - 9:00 AM	For LAB USE ONLY
Received at Lab by:	Robin Gushlaw	Robin Gushlaw	1-20-20	Work Order # C200130

***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 LABORATORIES, LLC

Date: *12-Feb-20*

CLIENT: Matrix Environmental Technologies, Inc
Project: Aquino Lake Ave Apts
Lab Order: C2001030

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C2001030-001A	Outdoor Air	365,394	1/15/2020	1/20/2020
C2001030-002A	Building 1-Indoor	438,381	1/15/2020	1/20/2020
C2001030-003A	Apartment A1-Indoor	1178,434	1/15/2020	1/20/2020
C2001030-004A	Apartment A3-Indoor	285,439	1/15/2020	1/20/2020
C2001030-005A	Apartment A4-Indoor	1183,372	1/15/2020	1/20/2020
C2001030-006A	Apartment A4-Dup	1189,378	1/15/2020	1/20/2020
C2001030-007A	Apartment A2-Indoor	1316,440	1/16/2020	1/20/2020

CENTEK LABORATORIES, LLC

Sample Receipt Checklist

Client Name: **MATRIX ENVIRONMENTAL** | Date and Time Received **1/20/2020**

Work Order Number **C2001030** | Received by: RG

Checklist completed by Robin Gustkow 1·20·20 (Signature / Date) | Reviewed by WB 1/20/20 (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: _____ DATE: _____

Centek Laboratories, LLC

12-Feb-20

Lab Order: C2001030
Client: Matrix Environmental Technologies, Inc
Project: Aquino Lake Ave Apts

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C2001030-001A	Outdoor Air	1/15/2020	Air	1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			1/20/2020
C2001030-002A	Building 1-Indoor			1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			1/21/2020
				1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			1/20/2020
C2001030-003A	Apartment A1-Indoor			1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			1/21/2020
				1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			1/20/2020
C2001030-004A	Apartment A3-Indoor			1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			1/21/2020
				1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			1/21/2020
				1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			1/20/2020
C2001030-005A	Apartment A4-Indoor			1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			1/21/2020
				1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			1/20/2020
C2001030-006A	Apartment A4-Dup			1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			1/21/2020
				1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			1/20/2020
C2001030-007A	Apartment A2-Indoor	1/16/2020		1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			1/21/2020
				1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			1/20/2020

CANISTER ORDER

CENTEK LABORATORIES, LLC
Air Quality Testing...It's a Gas
143 Midler Park Drive * Syracuse, NY 13206
TEL: 315-431-9730 * FAX: 315-431-9731

8192
12-Feb-20

SHIPPED TO:

Company: Matrix Environmental Technologies, Inc
Contact: Steve Marchetti
Address: 3730 California Rd.
Orchard Park, NY 14127
Phone: (716) 662-0745
Quote ID: 0
Project:
PO:

Submitted By:
MadeBy: DH
Ship Date: 1/9/2020
VIA: UPS - Ground
Due Date: 1/14/2020

Bottle Code	Bottle Type	TEST(s)	QTY
MC1000CC	1L Mini-Can	1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DC	7

Can / Reg ID	Description
285	1L Mini-Can - 1061 VI
365	1L Mini-Can - 1314 VI
372	Time-Set Reg - 746 VI
378	Time-Set Reg - 752 VI
381	Time-Set Reg - 755 VI
394	Time-Set Reg - 773 VI
1189	1L Mini-Can - VI
1316	1 L Mini-Can -7642 VI
434	Time-Set Reg - 813 VI
439	Time-Set Reg - 818 VI
440	Time-Set Reg - 819 VI
458	1L Mini-Can - 1361 VI
1178	1L Mini-Can - 1236 VI
1183	1L Mini-Can - 1250 VI

Comments: (7) 1 L @ 24 Hours. SHIP TO: 4570 Green Road, Lockport, NY 14094. WAC 120919 A-C

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Outdoor Air
Lab Order:	C2001030	**Tag Number:**	365,394
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-001A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	0			"Hg		1/20/2020
Lab Vacuum Out	-30			"Hg		1/20/2020
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	1/20/2020 5:25:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	1/20/2020 5:25:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/20/2020 5:25:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Acetone	2.7	0.30		ppbV	1	1/20/2020 5:25:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Benzene	0.19	0.15		ppbV	1	1/20/2020 5:25:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Carbon tetrachloride	0.080	0.030		ppbV	1	1/20/2020 5:25:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Chloroform	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Chloromethane	0.40	0.15		ppbV	1	1/20/2020 5:25:00 PM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	1/20/2020 5:25:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Ethyl acetate	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Outdoor Air
Lab Order:	C2001030	**Tag Number:**	365,394
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-001A	**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	1/20/2020 5:25:00 PM
Freon 11	0.28	0.15		ppbV	1	1/20/2020 5:25:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Freon 12	0.58	0.15		ppbV	1	1/20/2020 5:25:00 PM
Heptane	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Hexane	0.17	0.15		ppbV	1	1/20/2020 5:25:00 PM
Isopropyl alcohol	0.94	0.15		ppbV	1	1/20/2020 5:25:00 PM
m&p-Xylene	0.11	0.30	J	ppbV	1	1/20/2020 5:25:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/20/2020 5:25:00 PM
Methyl Ethyl Ketone	0.38	0.30		ppbV	1	1/20/2020 5:25:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/20/2020 5:25:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Methylene chloride	0.17	0.15		ppbV	1	1/20/2020 5:25:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Toluene	0.28	0.15		ppbV	1	1/20/2020 5:25:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Trichloroethene	< 0.030	0.030		ppbV	1	1/20/2020 5:25:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	1/20/2020 5:25:00 PM
Surr: Bromofluorobenzene	98.0	70-130		%REC	1	1/20/2020 5:25:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Outdoor Air
Lab Order:	C2001030	**Tag Number:**	365,394
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-001A	**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	1/20/2020 5:25:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/20/2020 5:25:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	1/20/2020 5:25:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	1/20/2020 5:25:00 PM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 5:25:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/20/2020 5:25:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	1/20/2020 5:25:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/20/2020 5:25:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 5:25:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	1/20/2020 5:25:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	1/20/2020 5:25:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	1/20/2020 5:25:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	1/20/2020 5:25:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 5:25:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 5:25:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/20/2020 5:25:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	1/20/2020 5:25:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	1/20/2020 5:25:00 PM
Acetone	6.4	0.71		ug/m3	1	1/20/2020 5:25:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	1/20/2020 5:25:00 PM
Benzene	0.61	0.48		ug/m3	1	1/20/2020 5:25:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	1/20/2020 5:25:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/20/2020 5:25:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/20/2020 5:25:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	1/20/2020 5:25:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/20/2020 5:25:00 PM
Carbon tetrachloride	0.50	0.19		ug/m3	1	1/20/2020 5:25:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	1/20/2020 5:25:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/20/2020 5:25:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	1/20/2020 5:25:00 PM
Chloromethane	0.83	0.31		ug/m3	1	1/20/2020 5:25:00 PM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 5:25:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/20/2020 5:25:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/20/2020 5:25:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/20/2020 5:25:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	1/20/2020 5:25:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	1/20/2020 5:25:00 PM
Freon 11	1.6	0.84		ug/m3	1	1/20/2020 5:25:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	1/20/2020 5:25:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	1/20/2020 5:25:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Outdoor Air
Lab Order:	C2001030	**Tag Number:**	365,394
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-001A	**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	2.9	0.74		ug/m3	1	1/20/2020 5:25:00 PM
Heptane	< 0.61	0.61		ug/m3	1	1/20/2020 5:25:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/20/2020 5:25:00 PM
Hexane	0.60	0.53		ug/m3	1	1/20/2020 5:25:00 PM
Isopropyl alcohol	2.3	0.37		ug/m3	1	1/20/2020 5:25:00 PM
m&p-Xylene	0.48	1.3	J	ug/m3	1	1/20/2020 5:25:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/20/2020 5:25:00 PM
Methyl Ethyl Ketone	1.1	0.88		ug/m3	1	1/20/2020 5:25:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/20/2020 5:25:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	1/20/2020 5:25:00 PM
Methylene chloride	0.59	0.52		ug/m3	1	1/20/2020 5:25:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	1/20/2020 5:25:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/20/2020 5:25:00 PM
Styrene	< 0.64	0.64		ug/m3	1	1/20/2020 5:25:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	1/20/2020 5:25:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	1/20/2020 5:25:00 PM
Toluene	1.1	0.57		ug/m3	1	1/20/2020 5:25:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	1/20/2020 5:25:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/20/2020 5:25:00 PM
Trichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 5:25:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	1/20/2020 5:25:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	1/20/2020 5:25:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	1/20/2020 5:25:00 PM

Qualifiers:				
	SC	Sub-Contracted	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Building 1-Indoor
Lab Order:	C2001030	**Tag Number:**	438,381
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-002A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-1			"Hg		1/20/2020
Lab Vacuum Out	-30			"Hg		1/20/2020
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	1/20/2020 6:12:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	1/20/2020 6:12:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/20/2020 6:12:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Acetone	6.2	3.0		ppbV	10	1/21/2020 2:43:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Benzene	0.29	0.15		ppbV	1	1/20/2020 6:12:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Carbon tetrachloride	0.080	0.030		ppbV	1	1/20/2020 6:12:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Chloroform	0.56	0.15		ppbV	1	1/20/2020 6:12:00 PM
Chloromethane	0.56	0.15		ppbV	1	1/20/2020 6:12:00 PM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	1/20/2020 6:12:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Ethyl acetate	0.70	0.15		ppbV	1	1/20/2020 6:12:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Building 1-Indoor
Lab Order:	C2001030	**Tag Number:**	438,381
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-002A	**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	0.12	0.15	J	ppbV	1	1/20/2020 6:12:00 PM
Freon 11	0.27	0.15		ppbV	1	1/20/2020 6:12:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Freon 12	0.58	0.15		ppbV	1	1/20/2020 6:12:00 PM
Heptane	0.14	0.15	J	ppbV	1	1/20/2020 6:12:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Hexane	0.17	0.15		ppbV	1	1/20/2020 6:12:00 PM
Isopropyl alcohol	3.3	1.5		ppbV	10	1/21/2020 2:43:00 AM
m&p-Xylene	0.39	0.30		ppbV	1	1/20/2020 6:12:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/20/2020 6:12:00 PM
Methyl Ethyl Ketone	0.45	0.30		ppbV	1	1/20/2020 6:12:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/20/2020 6:12:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Methylene chloride	0.17	0.15		ppbV	1	1/20/2020 6:12:00 PM
o-Xylene	0.13	0.15	J	ppbV	1	1/20/2020 6:12:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Styrene	0.17	0.15		ppbV	1	1/20/2020 6:12:00 PM
Tetrachloroethylene	2.4	1.5		ppbV	10	1/21/2020 2:43:00 AM
Tetrahydrofuran	0.27	0.15		ppbV	1	1/20/2020 6:12:00 PM
Toluene	0.88	0.15		ppbV	1	1/20/2020 6:12:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Trichloroethene	0.14	0.030		ppbV	1	1/20/2020 6:12:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	1/20/2020 6:12:00 PM
Surr: Bromofluorobenzene	101	70-130		%REC	1	1/20/2020 6:12:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Building 1-Indoor
Lab Order:	C2001030	**Tag Number:**	438,381
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-002A	**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	1/20/2020 6:12:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/20/2020 6:12:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	1/20/2020 6:12:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	1/20/2020 6:12:00 PM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 6:12:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/20/2020 6:12:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	1/20/2020 6:12:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/20/2020 6:12:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 6:12:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	1/20/2020 6:12:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	1/20/2020 6:12:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	1/20/2020 6:12:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	1/20/2020 6:12:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 6:12:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 6:12:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/20/2020 6:12:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	1/20/2020 6:12:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	1/20/2020 6:12:00 PM
Acetone	15	7.1		ug/m3	10	1/21/2020 2:43:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	1/20/2020 6:12:00 PM
Benzene	0.93	0.48		ug/m3	1	1/20/2020 6:12:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	1/20/2020 6:12:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/20/2020 6:12:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/20/2020 6:12:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	1/20/2020 6:12:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/20/2020 6:12:00 PM
Carbon tetrachloride	0.50	0.19		ug/m3	1	1/20/2020 6:12:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	1/20/2020 6:12:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/20/2020 6:12:00 PM
Chloroform	2.7	0.73		ug/m3	1	1/20/2020 6:12:00 PM
Chloromethane	1.2	0.31		ug/m3	1	1/20/2020 6:12:00 PM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 6:12:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/20/2020 6:12:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/20/2020 6:12:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/20/2020 6:12:00 PM
Ethyl acetate	2.5	0.54		ug/m3	1	1/20/2020 6:12:00 PM
Ethylbenzene	0.52	0.65	J	ug/m3	1	1/20/2020 6:12:00 PM
Freon 11	1.5	0.84		ug/m3	1	1/20/2020 6:12:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	1/20/2020 6:12:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	1/20/2020 6:12:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Building 1-Indoor
Lab Order:	C2001030	**Tag Number:**	438,381
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-002A	**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	2.9	0.74		ug/m3	1	1/20/2020 6:12:00 PM
Heptane	0.57	0.61	J	ug/m3	1	1/20/2020 6:12:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/20/2020 6:12:00 PM
Hexane	0.60	0.53		ug/m3	1	1/20/2020 6:12:00 PM
Isopropyl alcohol	8.1	3.7		ug/m3	10	1/21/2020 2:43:00 AM
m&p-Xylene	1.7	1.3		ug/m3	1	1/20/2020 6:12:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/20/2020 6:12:00 PM
Methyl Ethyl Ketone	1.3	0.88		ug/m3	1	1/20/2020 6:12:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/20/2020 6:12:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	1/20/2020 6:12:00 PM
Methylene chloride	0.59	0.52		ug/m3	1	1/20/2020 6:12:00 PM
o-Xylene	0.56	0.65	J	ug/m3	1	1/20/2020 6:12:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/20/2020 6:12:00 PM
Styrene	0.72	0.64		ug/m3	1	1/20/2020 6:12:00 PM
Tetrachloroethylene	16	10		ug/m3	10	1/21/2020 2:43:00 AM
Tetrahydrofuran	0.80	0.44		ug/m3	1	1/20/2020 6:12:00 PM
Toluene	3.3	0.57		ug/m3	1	1/20/2020 6:12:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	1/20/2020 6:12:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/20/2020 6:12:00 PM
Trichloroethene	0.75	0.16		ug/m3	1	1/20/2020 6:12:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	1/20/2020 6:12:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	1/20/2020 6:12:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	1/20/2020 6:12:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A1-Indoor
Lab Order:	C2001030	**Tag Number:**	1178,434
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-003A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-1			"Hg		1/20/2020
Lab Vacuum Out	-30			"Hg		1/20/2020
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	1/20/2020 6:59:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	1/20/2020 6:59:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
1,2,4-Trimethylbenzene	0.18	0.15		ppbV	1	1/20/2020 6:59:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
1,3,5-Trimethylbenzene	0.11	0.15	J	ppbV	1	1/20/2020 6:59:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/20/2020 6:59:00 PM
2,2,4-trimethylpentane	0.12	0.15	J	ppbV	1	1/20/2020 6:59:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Acetone	19	3.0		ppbV	10	1/21/2020 3:28:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Benzene	0.91	0.15		ppbV	1	1/20/2020 6:59:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Carbon tetrachloride	0.090	0.030		ppbV	1	1/20/2020 6:59:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Chloroform	0.33	0.15		ppbV	1	1/20/2020 6:59:00 PM
Chloromethane	1.3	0.15		ppbV	1	1/20/2020 6:59:00 PM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	1/20/2020 6:59:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Ethyl acetate	1.9	0.15		ppbV	1	1/20/2020 6:59:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A1-Indoor
Lab Order:	C2001030	**Tag Number:**	1178,434
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-003A	**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	0.24	0.15		ppbV	1	1/20/2020 6:59:00 PM
Freon 11	0.23	0.15		ppbV	1	1/20/2020 6:59:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Freon 12	0.58	0.15		ppbV	1	1/20/2020 6:59:00 PM
Heptane	0.51	0.15		ppbV	1	1/20/2020 6:59:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Hexane	0.53	0.15		ppbV	1	1/20/2020 6:59:00 PM
Isopropyl alcohol	20	1.5		ppbV	10	1/21/2020 3:28:00 AM
m&p-Xylene	0.78	0.30		ppbV	1	1/20/2020 6:59:00 PM
Methyl Butyl Ketone	0.14	0.30	J	ppbV	1	1/20/2020 6:59:00 PM
Methyl Ethyl Ketone	1.5	0.30		ppbV	1	1/20/2020 6:59:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/20/2020 6:59:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Methylene chloride	0.22	0.15		ppbV	1	1/20/2020 6:59:00 PM
o-Xylene	0.24	0.15		ppbV	1	1/20/2020 6:59:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Styrene	0.24	0.15		ppbV	1	1/20/2020 6:59:00 PM
Tetrachloroethylene	0.10	0.15	J	ppbV	1	1/20/2020 6:59:00 PM
Tetrahydrofuran	0.44	0.15		ppbV	1	1/20/2020 6:59:00 PM
Toluene	2.8	1.5		ppbV	10	1/21/2020 3:28:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Trichloroethene	< 0.030	0.030		ppbV	1	1/20/2020 6:59:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	1/20/2020 6:59:00 PM
Surr: Bromofluorobenzene	101	70-130		%REC	1	1/20/2020 6:59:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A1-Indoor
Lab Order:	C2001030	**Tag Number:**	1178,434
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-003A	**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	1/20/2020 6:59:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/20/2020 6:59:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	1/20/2020 6:59:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	1/20/2020 6:59:00 PM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 6:59:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/20/2020 6:59:00 PM
1,2,4-Trimethylbenzene	0.88	0.74		ug/m3	1	1/20/2020 6:59:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/20/2020 6:59:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 6:59:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	1/20/2020 6:59:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	1/20/2020 6:59:00 PM
1,3,5-Trimethylbenzene	0.54	0.74	J	ug/m3	1	1/20/2020 6:59:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	1/20/2020 6:59:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 6:59:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 6:59:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/20/2020 6:59:00 PM
2,2,4-trimethylpentane	0.56	0.70	J	ug/m3	1	1/20/2020 6:59:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	1/20/2020 6:59:00 PM
Acetone	44	7.1		ug/m3	10	1/21/2020 3:28:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	1/20/2020 6:59:00 PM
Benzene	2.9	0.48		ug/m3	1	1/20/2020 6:59:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	1/20/2020 6:59:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/20/2020 6:59:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/20/2020 6:59:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	1/20/2020 6:59:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/20/2020 6:59:00 PM
Carbon tetrachloride	0.57	0.19		ug/m3	1	1/20/2020 6:59:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	1/20/2020 6:59:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/20/2020 6:59:00 PM
Chloroform	1.6	0.73		ug/m3	1	1/20/2020 6:59:00 PM
Chloromethane	2.7	0.31		ug/m3	1	1/20/2020 6:59:00 PM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 6:59:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/20/2020 6:59:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/20/2020 6:59:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/20/2020 6:59:00 PM
Ethyl acetate	6.8	0.54		ug/m3	1	1/20/2020 6:59:00 PM
Ethylbenzene	1.0	0.65		ug/m3	1	1/20/2020 6:59:00 PM
Freon 11	1.3	0.84		ug/m3	1	1/20/2020 6:59:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	1/20/2020 6:59:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	1/20/2020 6:59:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A1-Indoor
Lab Order:	C2001030	**Tag Number:**	1178,434
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-003A	**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	2.9	0.74		ug/m3	1	1/20/2020 6:59:00 PM
Heptane	2.1	0.61		ug/m3	1	1/20/2020 6:59:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/20/2020 6:59:00 PM
Hexane	1.9	0.53		ug/m3	1	1/20/2020 6:59:00 PM
Isopropyl alcohol	49	3.7		ug/m3	10	1/21/2020 3:28:00 AM
m&p-Xylene	3.4	1.3		ug/m3	1	1/20/2020 6:59:00 PM
Methyl Butyl Ketone	0.57	1.2	J	ug/m3	1	1/20/2020 6:59:00 PM
Methyl Ethyl Ketone	4.4	0.88		ug/m3	1	1/20/2020 6:59:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/20/2020 6:59:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	1/20/2020 6:59:00 PM
Methylene chloride	0.76	0.52		ug/m3	1	1/20/2020 6:59:00 PM
o-Xylene	1.0	0.65		ug/m3	1	1/20/2020 6:59:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/20/2020 6:59:00 PM
Styrene	1.0	0.64		ug/m3	1	1/20/2020 6:59:00 PM
Tetrachloroethylene	0.68	1.0	J	ug/m3	1	1/20/2020 6:59:00 PM
Tetrahydrofuran	1.3	0.44		ug/m3	1	1/20/2020 6:59:00 PM
Toluene	11	5.7		ug/m3	10	1/21/2020 3:28:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	1/20/2020 6:59:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/20/2020 6:59:00 PM
Trichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 6:59:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	1/20/2020 6:59:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	1/20/2020 6:59:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	1/20/2020 6:59:00 PM

Qualifiers:				
	SC	Sub-Contracted	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A3-Indoor
Lab Order:	C2001030	**Tag Number:**	285,439
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-004A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-1			"Hg		1/20/2020
Lab Vacuum Out	-30			"Hg		1/20/2020
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	1/20/2020 7:46:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	1/20/2020 7:46:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
1,2,4-Trimethylbenzene	0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
1,2-Dichloroethane	0.20	0.15		ppbV	1	1/20/2020 7:46:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
1,3,5-Trimethylbenzene	0.13	0.15	J	ppbV	1	1/20/2020 7:46:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/20/2020 7:46:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Acetone	55	12		ppbV	40	1/21/2020 4:59:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Benzene	0.28	0.15		ppbV	1	1/20/2020 7:46:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Carbon tetrachloride	0.080	0.030		ppbV	1	1/20/2020 7:46:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Chloroform	0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Chloromethane	5.0	1.5		ppbV	10	1/21/2020 4:14:00 AM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	1/20/2020 7:46:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Ethyl acetate	0.71	0.15		ppbV	1	1/20/2020 7:46:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A3-Indoor
Lab Order:	C2001030	**Tag Number:**	285,439
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-004A	**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	0.18	0.15		ppbV	1	1/20/2020 7:46:00 PM
Freon 11	0.28	0.15		ppbV	1	1/20/2020 7:46:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Freon 12	0.58	0.15		ppbV	1	1/20/2020 7:46:00 PM
Heptane	1.2	0.15		ppbV	1	1/20/2020 7:46:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Hexane	0.30	0.15		ppbV	1	1/20/2020 7:46:00 PM
Isopropyl alcohol	6.0	1.5		ppbV	10	1/21/2020 4:14:00 AM
m&p-Xylene	0.66	0.30		ppbV	1	1/20/2020 7:46:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/20/2020 7:46:00 PM
Methyl Ethyl Ketone	0.72	0.30		ppbV	1	1/20/2020 7:46:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/20/2020 7:46:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Methylene chloride	0.17	0.15		ppbV	1	1/20/2020 7:46:00 PM
o-Xylene	0.27	0.15		ppbV	1	1/20/2020 7:46:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Styrene	0.11	0.15	J	ppbV	1	1/20/2020 7:46:00 PM
Tetrachloroethylene	0.10	0.15	J	ppbV	1	1/20/2020 7:46:00 PM
Tetrahydrofuran	0.37	0.15		ppbV	1	1/20/2020 7:46:00 PM
Toluene	0.85	0.15		ppbV	1	1/20/2020 7:46:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Trichloroethene	< 0.030	0.030		ppbV	1	1/20/2020 7:46:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	1/20/2020 7:46:00 PM
Surr: Bromofluorobenzene	103	70-130		%REC	1	1/20/2020 7:46:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A3-Indoor
Lab Order:	C2001030	**Tag Number:**	285,439
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-004A	**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	1/20/2020 7:46:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/20/2020 7:46:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	1/20/2020 7:46:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	1/20/2020 7:46:00 PM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 7:46:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/20/2020 7:46:00 PM
1,2,4-Trimethylbenzene	0.74	0.74		ug/m3	1	1/20/2020 7:46:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/20/2020 7:46:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 7:46:00 PM
1,2-Dichloroethane	0.81	0.61		ug/m3	1	1/20/2020 7:46:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	1/20/2020 7:46:00 PM
1,3,5-Trimethylbenzene	0.64	0.74	J	ug/m3	1	1/20/2020 7:46:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	1/20/2020 7:46:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 7:46:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 7:46:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/20/2020 7:46:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	1/20/2020 7:46:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	1/20/2020 7:46:00 PM
Acetone	130	28		ug/m3	40	1/21/2020 4:59:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	1/20/2020 7:46:00 PM
Benzene	0.89	0.48		ug/m3	1	1/20/2020 7:46:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	1/20/2020 7:46:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/20/2020 7:46:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/20/2020 7:46:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	1/20/2020 7:46:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/20/2020 7:46:00 PM
Carbon tetrachloride	0.50	0.19		ug/m3	1	1/20/2020 7:46:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	1/20/2020 7:46:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/20/2020 7:46:00 PM
Chloroform	0.73	0.73		ug/m3	1	1/20/2020 7:46:00 PM
Chloromethane	10	3.1		ug/m3	10	1/21/2020 4:14:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 7:46:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/20/2020 7:46:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/20/2020 7:46:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/20/2020 7:46:00 PM
Ethyl acetate	2.6	0.54		ug/m3	1	1/20/2020 7:46:00 PM
Ethylbenzene	0.78	0.65		ug/m3	1	1/20/2020 7:46:00 PM
Freon 11	1.6	0.84		ug/m3	1	1/20/2020 7:46:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	1/20/2020 7:46:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	1/20/2020 7:46:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A3-Indoor
Lab Order:	C2001030	**Tag Number:**	285,439
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-004A	**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	2.9	0.74		ug/m3	1	1/20/2020 7:46:00 PM
Heptane	5.0	0.61		ug/m3	1	1/20/2020 7:46:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/20/2020 7:46:00 PM
Hexane	1.1	0.53		ug/m3	1	1/20/2020 7:46:00 PM
Isopropyl alcohol	15	3.7		ug/m3	10	1/21/2020 4:14:00 AM
m&p-Xylene	2.9	1.3		ug/m3	1	1/20/2020 7:46:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/20/2020 7:46:00 PM
Methyl Ethyl Ketone	2.1	0.88		ug/m3	1	1/20/2020 7:46:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/20/2020 7:46:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	1/20/2020 7:46:00 PM
Methylene chloride	0.59	0.52		ug/m3	1	1/20/2020 7:46:00 PM
o-Xylene	1.2	0.65		ug/m3	1	1/20/2020 7:46:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/20/2020 7:46:00 PM
Styrene	0.47	0.64	J	ug/m3	1	1/20/2020 7:46:00 PM
Tetrachloroethylene	0.68	1.0	J	ug/m3	1	1/20/2020 7:46:00 PM
Tetrahydrofuran	1.1	0.44		ug/m3	1	1/20/2020 7:46:00 PM
Toluene	3.2	0.57		ug/m3	1	1/20/2020 7:46:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	1/20/2020 7:46:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/20/2020 7:46:00 PM
Trichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 7:46:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	1/20/2020 7:46:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	1/20/2020 7:46:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	1/20/2020 7:46:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A4-Indoor
Lab Order:	C2001030	**Tag Number:**	1183,372
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-005A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-1			"Hg		1/20/2020
Lab Vacuum Out	-30			"Hg		1/20/2020
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	1/20/2020 8:33:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	1/20/2020 8:33:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
1,2,4-Trimethylbenzene	0.13	0.15	J	ppbV	1	1/20/2020 8:33:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/20/2020 8:33:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Acetone	7.8	3.0		ppbV	10	1/21/2020 5:44:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Benzene	0.18	0.15		ppbV	1	1/20/2020 8:33:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Carbon tetrachloride	0.080	0.030		ppbV	1	1/20/2020 8:33:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Chloroform	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Chloromethane	0.44	0.15		ppbV	1	1/20/2020 8:33:00 PM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	1/20/2020 8:33:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Ethyl acetate	0.18	0.15		ppbV	1	1/20/2020 8:33:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A4-Indoor
Lab Order:	C2001030	**Tag Number:**	1183,372
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-005A	**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	1/20/2020 8:33:00 PM
Freon 11	0.27	0.15		ppbV	1	1/20/2020 8:33:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Freon 12	0.59	0.15		ppbV	1	1/20/2020 8:33:00 PM
Heptane	0.11	0.15	J	ppbV	1	1/20/2020 8:33:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Hexane	0.16	0.15		ppbV	1	1/20/2020 8:33:00 PM
Isopropyl alcohol	1.3	0.15		ppbV	1	1/20/2020 8:33:00 PM
m&p-Xylene	0.24	0.30	J	ppbV	1	1/20/2020 8:33:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/20/2020 8:33:00 PM
Methyl Ethyl Ketone	0.43	0.30		ppbV	1	1/20/2020 8:33:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/20/2020 8:33:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Methylene chloride	0.16	0.15		ppbV	1	1/20/2020 8:33:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Tetrachloroethylene	0.12	0.15	J	ppbV	1	1/20/2020 8:33:00 PM
Tetrahydrofuran	0.23	0.15		ppbV	1	1/20/2020 8:33:00 PM
Toluene	0.42	0.15		ppbV	1	1/20/2020 8:33:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Trichloroethene	< 0.030	0.030		ppbV	1	1/20/2020 8:33:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	1/20/2020 8:33:00 PM
Surr: Bromofluorobenzene	102	70-130		%REC	1	1/20/2020 8:33:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A4-Indoor
Lab Order:	C2001030	**Tag Number:**	1183,372
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-005A	**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	1/20/2020 8:33:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/20/2020 8:33:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	1/20/2020 8:33:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	1/20/2020 8:33:00 PM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 8:33:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/20/2020 8:33:00 PM
1,2,4-Trimethylbenzene	0.64	0.74	J	ug/m3	1	1/20/2020 8:33:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/20/2020 8:33:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 8:33:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	1/20/2020 8:33:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	1/20/2020 8:33:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	1/20/2020 8:33:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	1/20/2020 8:33:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 8:33:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 8:33:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/20/2020 8:33:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	1/20/2020 8:33:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	1/20/2020 8:33:00 PM
Acetone	19	7.1		ug/m3	10	1/21/2020 5:44:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	1/20/2020 8:33:00 PM
Benzene	0.57	0.48		ug/m3	1	1/20/2020 8:33:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	1/20/2020 8:33:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/20/2020 8:33:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/20/2020 8:33:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	1/20/2020 8:33:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/20/2020 8:33:00 PM
Carbon tetrachloride	0.50	0.19		ug/m3	1	1/20/2020 8:33:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	1/20/2020 8:33:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/20/2020 8:33:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	1/20/2020 8:33:00 PM
Chloromethane	0.91	0.31		ug/m3	1	1/20/2020 8:33:00 PM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 8:33:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/20/2020 8:33:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/20/2020 8:33:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/20/2020 8:33:00 PM
Ethyl acetate	0.65	0.54		ug/m3	1	1/20/2020 8:33:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	1/20/2020 8:33:00 PM
Freon 11	1.5	0.84		ug/m3	1	1/20/2020 8:33:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	1/20/2020 8:33:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	1/20/2020 8:33:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A4-Indoor
Lab Order:	C2001030	**Tag Number:**	1183,372
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-005A	**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	2.9	0.74		ug/m3	1	1/20/2020 8:33:00 PM
Heptane	0.45	0.61	J	ug/m3	1	1/20/2020 8:33:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/20/2020 8:33:00 PM
Hexane	0.56	0.53		ug/m3	1	1/20/2020 8:33:00 PM
Isopropyl alcohol	3.1	0.37		ug/m3	1	1/20/2020 8:33:00 PM
m&p-Xylene	1.0	1.3	J	ug/m3	1	1/20/2020 8:33:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/20/2020 8:33:00 PM
Methyl Ethyl Ketone	1.3	0.88		ug/m3	1	1/20/2020 8:33:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/20/2020 8:33:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	1/20/2020 8:33:00 PM
Methylene chloride	0.56	0.52		ug/m3	1	1/20/2020 8:33:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	1/20/2020 8:33:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/20/2020 8:33:00 PM
Styrene	< 0.64	0.64		ug/m3	1	1/20/2020 8:33:00 PM
Tetrachloroethylene	0.81	1.0	J	ug/m3	1	1/20/2020 8:33:00 PM
Tetrahydrofuran	0.68	0.44		ug/m3	1	1/20/2020 8:33:00 PM
Toluene	1.6	0.57		ug/m3	1	1/20/2020 8:33:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	1/20/2020 8:33:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/20/2020 8:33:00 PM
Trichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 8:33:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	1/20/2020 8:33:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	1/20/2020 8:33:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	1/20/2020 8:33:00 PM

Qualifiers:				
	SC	Sub-Contracted	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A4-Dup
Lab Order:	C2001030	**Tag Number:**	1189,378
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-006A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-1			"Hg		1/20/2020
Lab Vacuum Out	-30			"Hg		1/20/2020
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	1/20/2020 9:20:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	1/20/2020 9:20:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
1,2,4-Trimethylbenzene	0.12	0.15	J	ppbV	1	1/20/2020 9:20:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
1,3-Dichlorobenzene	0.18	0.15		ppbV	1	1/20/2020 9:20:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/20/2020 9:20:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Acetone	7.4	3.0		ppbV	10	1/21/2020 6:30:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Benzene	0.18	0.15		ppbV	1	1/20/2020 9:20:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Carbon tetrachloride	0.080	0.030		ppbV	1	1/20/2020 9:20:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Chloroform	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	1/20/2020 9:20:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Ethyl acetate	0.19	0.15		ppbV	1	1/20/2020 9:20:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A4-Dup
Lab Order:	C2001030	**Tag Number:**	1189,378
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-006A	**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	1/20/2020 9:20:00 PM
Freon 11	0.28	0.15		ppbV	1	1/20/2020 9:20:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Freon 12	0.60	0.15		ppbV	1	1/20/2020 9:20:00 PM
Heptane	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Hexane	0.19	0.15		ppbV	1	1/20/2020 9:20:00 PM
Isopropyl alcohol	1.0	0.15		ppbV	1	1/20/2020 9:20:00 PM
m&p-Xylene	0.24	0.30	J	ppbV	1	1/20/2020 9:20:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/20/2020 9:20:00 PM
Methyl Ethyl Ketone	0.38	0.30		ppbV	1	1/20/2020 9:20:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/20/2020 9:20:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Methylene chloride	0.18	0.15		ppbV	1	1/20/2020 9:20:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Tetrahydrofuran	0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Toluene	0.42	0.15		ppbV	1	1/20/2020 9:20:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Trichloroethene	< 0.030	0.030		ppbV	1	1/20/2020 9:20:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	1/20/2020 9:20:00 PM
Surr: Bromofluorobenzene	100	70-130		%REC	1	1/20/2020 9:20:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A4-Dup
Lab Order:	C2001030	**Tag Number:**	1189,378
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-006A	**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	1/20/2020 9:20:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/20/2020 9:20:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	1/20/2020 9:20:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	1/20/2020 9:20:00 PM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 9:20:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/20/2020 9:20:00 PM
1,2,4-Trimethylbenzene	0.59	0.74	J	ug/m3	1	1/20/2020 9:20:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/20/2020 9:20:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 9:20:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	1/20/2020 9:20:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	1/20/2020 9:20:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	1/20/2020 9:20:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	1/20/2020 9:20:00 PM
1,3-Dichlorobenzene	1.1	0.90		ug/m3	1	1/20/2020 9:20:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 9:20:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/20/2020 9:20:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	1/20/2020 9:20:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	1/20/2020 9:20:00 PM
Acetone	18	7.1		ug/m3	10	1/21/2020 6:30:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	1/20/2020 9:20:00 PM
Benzene	0.57	0.48		ug/m3	1	1/20/2020 9:20:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	1/20/2020 9:20:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/20/2020 9:20:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/20/2020 9:20:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	1/20/2020 9:20:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/20/2020 9:20:00 PM
Carbon tetrachloride	0.50	0.19		ug/m3	1	1/20/2020 9:20:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	1/20/2020 9:20:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/20/2020 9:20:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	1/20/2020 9:20:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/20/2020 9:20:00 PM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 9:20:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/20/2020 9:20:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/20/2020 9:20:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/20/2020 9:20:00 PM
Ethyl acetate	0.68	0.54		ug/m3	1	1/20/2020 9:20:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	1/20/2020 9:20:00 PM
Freon 11	1.6	0.84		ug/m3	1	1/20/2020 9:20:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	1/20/2020 9:20:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	1/20/2020 9:20:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A4-Dup
Lab Order:	C2001030	**Tag Number:**	1189,378
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-006A	**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	3.0	0.74		ug/m3	1	1/20/2020 9:20:00 PM
Heptane	< 0.61	0.61		ug/m3	1	1/20/2020 9:20:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/20/2020 9:20:00 PM
Hexane	0.67	0.53		ug/m3	1	1/20/2020 9:20:00 PM
Isopropyl alcohol	2.6	0.37		ug/m3	1	1/20/2020 9:20:00 PM
m&p-Xylene	1.0	1.3	J	ug/m3	1	1/20/2020 9:20:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/20/2020 9:20:00 PM
Methyl Ethyl Ketone	1.1	0.88		ug/m3	1	1/20/2020 9:20:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/20/2020 9:20:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	1/20/2020 9:20:00 PM
Methylene chloride	0.63	0.52		ug/m3	1	1/20/2020 9:20:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	1/20/2020 9:20:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/20/2020 9:20:00 PM
Styrene	< 0.64	0.64		ug/m3	1	1/20/2020 9:20:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	1/20/2020 9:20:00 PM
Tetrahydrofuran	0.44	0.44		ug/m3	1	1/20/2020 9:20:00 PM
Toluene	1.6	0.57		ug/m3	1	1/20/2020 9:20:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	1/20/2020 9:20:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/20/2020 9:20:00 PM
Trichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 9:20:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	1/20/2020 9:20:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	1/20/2020 9:20:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	1/20/2020 9:20:00 PM

Qualifiers:				
	SC	Sub-Contracted	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A2-Indoor
Lab Order:	C2001030	**Tag Number:**	1316,440
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/16/2020
Lab ID:	C2001030-007A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	0			"Hg		1/20/2020
Lab Vacuum Out	-30			"Hg		1/20/2020
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	1/20/2020 10:06:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	1/20/2020 10:06:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
1,2,4-Trimethylbenzene	0.97	0.15		ppbV	1	1/20/2020 10:06:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
1,3,5-Trimethylbenzene	0.27	0.15		ppbV	1	1/20/2020 10:06:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/20/2020 10:06:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
4-ethyltoluene	0.28	0.15		ppbV	1	1/20/2020 10:06:00 PM
Acetone	20	3.0		ppbV	10	1/21/2020 7:15:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Benzene	0.86	0.15		ppbV	1	1/20/2020 10:06:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Carbon tetrachloride	0.080	0.030		ppbV	1	1/20/2020 10:06:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Chloroform	0.11	0.15	J	ppbV	1	1/20/2020 10:06:00 PM
Chloromethane	0.89	0.15		ppbV	1	1/20/2020 10:06:00 PM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	1/20/2020 10:06:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Cyclohexane	0.61	0.15		ppbV	1	1/20/2020 10:06:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Ethyl acetate	0.61	0.15		ppbV	1	1/20/2020 10:06:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A2-Indoor
Lab Order:	C2001030	**Tag Number:**	1316,440
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/16/2020
Lab ID:	C2001030-007A	**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	0.62	0.15		ppbV	1	1/20/2020 10:06:00 PM
Freon 11	0.30	0.15		ppbV	1	1/20/2020 10:06:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Freon 12	0.59	0.15		ppbV	1	1/20/2020 10:06:00 PM
Heptane	0.79	0.15		ppbV	1	1/20/2020 10:06:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Hexane	0.37	0.15		ppbV	1	1/20/2020 10:06:00 PM
Isopropyl alcohol	10	1.5		ppbV	10	1/21/2020 7:15:00 AM
m&p-Xylene	2.4	0.30		ppbV	1	1/20/2020 10:06:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/20/2020 10:06:00 PM
Methyl Ethyl Ketone	1.1	0.30		ppbV	1	1/20/2020 10:06:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/20/2020 10:06:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Methylene chloride	0.16	0.15		ppbV	1	1/20/2020 10:06:00 PM
o-Xylene	0.81	0.15		ppbV	1	1/20/2020 10:06:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Styrene	0.30	0.15		ppbV	1	1/20/2020 10:06:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Tetrahydrofuran	0.46	0.15		ppbV	1	1/20/2020 10:06:00 PM
Toluene	3.3	1.5		ppbV	10	1/21/2020 7:15:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Trichloroethene	< 0.030	0.030		ppbV	1	1/20/2020 10:06:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	1/20/2020 10:06:00 PM
Surr: Bromofluorobenzene	101	70-130		%REC	1	1/20/2020 10:06:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
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Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A2-Indoor
Lab Order:	C2001030	**Tag Number:**	1316,440
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/16/2020
Lab ID:	C2001030-007A	**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	1/20/2020 10:06:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/20/2020 10:06:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	1/20/2020 10:06:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	1/20/2020 10:06:00 PM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 10:06:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/20/2020 10:06:00 PM
1,2,4-Trimethylbenzene	4.8	0.74		ug/m3	1	1/20/2020 10:06:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/20/2020 10:06:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 10:06:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	1/20/2020 10:06:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	1/20/2020 10:06:00 PM
1,3,5-Trimethylbenzene	1.3	0.74		ug/m3	1	1/20/2020 10:06:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	1/20/2020 10:06:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 10:06:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 10:06:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/20/2020 10:06:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	1/20/2020 10:06:00 PM
4-ethyltoluene	1.4	0.74		ug/m3	1	1/20/2020 10:06:00 PM
Acetone	47	7.1		ug/m3	10	1/21/2020 7:15:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	1/20/2020 10:06:00 PM
Benzene	2.7	0.48		ug/m3	1	1/20/2020 10:06:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	1/20/2020 10:06:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/20/2020 10:06:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/20/2020 10:06:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	1/20/2020 10:06:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/20/2020 10:06:00 PM
Carbon tetrachloride	0.50	0.19		ug/m3	1	1/20/2020 10:06:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	1/20/2020 10:06:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/20/2020 10:06:00 PM
Chloroform	0.54	0.73	J	ug/m3	1	1/20/2020 10:06:00 PM
Chloromethane	1.8	0.31		ug/m3	1	1/20/2020 10:06:00 PM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 10:06:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/20/2020 10:06:00 PM
Cyclohexane	2.1	0.52		ug/m3	1	1/20/2020 10:06:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/20/2020 10:06:00 PM
Ethyl acetate	2.2	0.54		ug/m3	1	1/20/2020 10:06:00 PM
Ethylbenzene	2.7	0.65		ug/m3	1	1/20/2020 10:06:00 PM
Freon 11	1.7	0.84		ug/m3	1	1/20/2020 10:06:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	1/20/2020 10:06:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	1/20/2020 10:06:00 PM

Qualifiers:

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

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A2-Indoor
Lab Order:	C2001030	**Tag Number:**	1316,440
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/16/2020
Lab ID:	C2001030-007A	**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	2.9	0.74		ug/m3	1	1/20/2020 10:06:00 PM
Heptane	3.2	0.61		ug/m3	1	1/20/2020 10:06:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/20/2020 10:06:00 PM
Hexane	1.3	0.53		ug/m3	1	1/20/2020 10:06:00 PM
Isopropyl alcohol	26	3.7		ug/m3	10	1/21/2020 7:15:00 AM
m&p-Xylene	11	1.3		ug/m3	1	1/20/2020 10:06:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/20/2020 10:06:00 PM
Methyl Ethyl Ketone	3.2	0.88		ug/m3	1	1/20/2020 10:06:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/20/2020 10:06:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	1/20/2020 10:06:00 PM
Methylene chloride	0.56	0.52		ug/m3	1	1/20/2020 10:06:00 PM
o-Xylene	3.5	0.65		ug/m3	1	1/20/2020 10:06:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/20/2020 10:06:00 PM
Styrene	1.3	0.64		ug/m3	1	1/20/2020 10:06:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	1/20/2020 10:06:00 PM
Tetrahydrofuran	1.4	0.44		ug/m3	1	1/20/2020 10:06:00 PM
Toluene	12	5.7		ug/m3	10	1/21/2020 7:15:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	1/20/2020 10:06:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/20/2020 10:06:00 PM
Trichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 10:06:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	1/20/2020 10:06:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	1/20/2020 10:06:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	1/20/2020 10:06:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

QUALITY CONTROL SUMMARY

Date: 05-Feb-20

CENTEK LABORATORIES, LLC

QC SUMMARY REPORT
SURROGATE RECOVERIES

CLIENT: Matrix Environmental Technologies, Inc
Work Order: C2001030
Project: Aquino Lake Ave Apts
Test No: TO-15 **Matrix:** A

Sample ID	BR4FBZ							
ALCS1UG-012020	102							
ALSC1UGD-012020	101							
AMB1UG-012020	97.0							
C2001030-001A	98.0							
C2001030-002A	101							
C2001030-003A	101							
C2001030-004A	103							
C2001030-005A	102							
C2001030-006A	100							
C2001030-007A	101							

Acronym		Surrogate	QC Limits
BR4FBZ	=	Bromofluorobenzene	70-130

* Surrogate recovery outside acceptance limits

1

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\AR012002.D
Tune Time : 20 Jan 2020 10:48 am

Daily Calibration File : C:\HPCHEM\1\DATA\AR012002.D

File	Sample	DL	Surrogate Recovery % (BFB)	Internal Standard Responses (IS1) 51836	(IS2) 250647	(IS3) 221226
AR012003.D	ALCS1UG-012020		102	50859	240167	212617
AR012004.D	AMB1UG-012020		97	49286	235568	203879
AR012010.D	C2001030-001A		98	44877	216049	185365
AR012011.D	C2001030-002A		101	44673	211949	185863
AR012012.D	C2001030-003A		101	44294	209383	182705
AR012013.D	C2001030-004A		103	43684	205581	176539
AR012014.D	C2001030-005A		102	43265	199717	173549
AR012015.D	C2001030-006A		100	42084	197482	171778
AR012016.D	C2001030-007A		101	41768	196706	172403
AR012019.D	ALSC1UGD-012020		101	47277	225678	198991
AR012022.D	C2001030-002A	10x	97	40404	192104	161527
AR012023.D	C2001030-003A	10x	96	40213	185163	155745
AR012024.D	C2001030-004A	10x	94	37656	179942	152306
AR012025.D	C2001030-004A	40x	95	36580	172505	143387
AR012026.D	C2001030-005A	10x	94	36105	171203	140720
AR012027.D	C2001030-006A	10x	96	36339	168084	144667
AR012028.D	C2001030-007A	10x	98	35503	166360	144069

t - fails 24hr time check * - fails criteria

Created: Wed Feb 05 10:14:25 2020 MSD #1/

CENTEK LABORATORIES, LLC

Date: *05-Feb-20*

ANALYTICAL QC SUMMARY REPORT

CLIENT: Matrix Environmental Technologies, Inc
Work Order: C2001030
Project: Aquino Lake Ave Apts

TestCode: 0.20_NYS

Sample ID: ALCS1UG-012020 SampType: LCS TestCode: 0.20_NYS Units: ppbV Prep Date: RunNo: 15921
Client ID: ZZZZZ Batch ID: R15921 TestNo: TO-15 Analysis Date: 1/20/2020 SeqNo: 181776

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.000	0.15	1	0	100	70	130				
1,1,2,2-Tetrachloroethane	1.010	0.15	1	0	101	70	130				
1,1,2-Trichloroethane	1.040	0.15	1	0	104	70	130				
1,1-Dichloroethane	0.9100	0.15	1	0	91.0	70	130				
1,1-Dichloroethene	1.020	0.040	1	0	102	70	130				
1,2,4-Trichlorobenzene	1.620	0.15	1	0	162	70	130				S
1,2,4-Trimethylbenzene	1.020	0.15	1	0	102	70	130				
1,2-Dibromoethane	1.060	0.15	1	0	106	70	130				
1,2-Dichlorobenzene	1.180	0.15	1	0	118	70	130				
1,2-Dichloroethane	0.8900	0.15	1	0	89.0	70	130				
1,2-Dichloropropane	0.9300	0.15	1	0	93.0	70	130				
1,3,5-Trimethylbenzene	1.010	0.15	1	0	101	70	130				
1,3-butadiene	0.7400	0.15	1	0	74.0	70	130				
1,3-Dichlorobenzene	1.270	0.15	1	0	127	70	130				
1,4-Dichlorobenzene	1.290	0.15	1	0	129	70	130				
1,4-Dioxane	1.000	0.30	1	0	100	70	130				
2,2,4-trimethylpentane	0.9000	0.15	1	0	90.0	70	130				
4-ethyltoluene	1.060	0.15	1	0	106	70	130				
Acetone	0.9100	0.30	1	0	91.0	70	130				
Allyl chloride	0.8000	0.15	1	0	80.0	70	130				
Benzene	1.000	0.15	1	0	100	70	130				
Benzyl chloride	1.210	0.15	1	0	121	70	130				
Bromodichloromethane	0.9600	0.15	1	0	96.0	70	130				
Bromoform	0.9800	0.15	1	0	98.0	70	130				
Bromomethane	0.7900	0.15	1	0	79.0	70	130				

Qualifiers:
. Results reported are not blank corrected
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
DL Detection Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: Matrix Environmental Technologies, Inc
Work Order: C2001030
Project: Aquino Lake Ave Apts

TestCode: 0.20_NYS

Sample ID: ALCS1UG-012020 SampType: LCS TestCode: 0.20_NYS Units: ppbV Prep Date: RunNo: 15921
Client ID: ZZZZZ Batch ID: R15921 TestNo: TO-15 Analysis Date: 1/20/2020 SeqNo: 181776

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.9600	0.15	1	0	96.0	70	130				
Carbon tetrachloride	1.000	0.030	1	0	100	70	130				
Chlorobenzene	1.040	0.15	1	0	104	70	130				
Chloroethane	0.5100	0.15	1	0	51.0	70	130				S
Chloroform	0.9600	0.15	1	0	96.0	70	130				
Chloromethane	0.8000	0.15	1	0	80.0	70	130				
cis-1,2-Dichloroethene	0.9100	0.040	1	0	91.0	70	130				
cis-1,3-Dichloropropene	0.9800	0.15	1	0	98.0	70	130				
Cyclohexane	0.9000	0.15	1	0	90.0	70	130				
Dibromochloromethane	1.000	0.15	1	0	100	70	130				
Ethyl acetate	0.8500	0.15	1	0	85.0	70	130				
Ethylbenzene	0.9800	0.15	1	0	98.0	70	130				
Freon 11	1.010	0.15	1	0	101	70	130				
Freon 113	1.020	0.15	1	0	102	70	130				
Freon 114	0.9700	0.15	1	0	97.0	70	130				
Freon 12	0.9900	0.15	1	0	99.0	70	130				
Heptane	0.8500	0.15	1	0	85.0	70	130				
Hexachloro-1,3-butadiene	1.170	0.15	1	0	117	70	130				
Hexane	0.8900	0.15	1	0	89.0	70	130				
Isopropyl alcohol	0.8600	0.15	1	0	86.0	70	130				
m&p-Xylene	1.970	0.30	2	0	98.5	70	130				
Methyl Butyl Ketone	0.9100	0.30	1	0	91.0	70	130				
Methyl Ethyl Ketone	0.9500	0.30	1	0	95.0	70	130				
Methyl Isobutyl Ketone	0.8400	0.30	1	0	84.0	70	130				
Methyl tert-butyl ether	0.9100	0.15	1	0	91.0	70	130				
Methylene chloride	0.9800	0.15	1	0	98.0	70	130				
o-Xylene	0.9800	0.15	1	0	98.0	70	130				
Propylene	1.000	0.15	1	0	100	70	130				
Styrene	1.030	0.15	1	0	103	70	130				
Tetrachloroethylene	1.080	0.15	1	0	108	70	130				
Tetrahydrofuran	0.8300	0.15	1	0	83.0	70	130				

Qualifiers:
- . Results reported are not blank corrected
- 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
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

CLIENT: Matrix Environmental Technologies, Inc
Work Order: C2001030
Project: Aquino Lake Ave Apts

TestCode: 0.20_NYS

Sample ID: ALCS1UG-012020 SampType: LCS TestCode: 0.20_NYS Units: ppbV Prep Date: RunNo: 15921
Client ID: ZZZZZ Batch ID: R15921 TestNo: TO-15 Analysis Date: 1/20/2020 SeqNo: 181776

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.9800	0.15	1	0	98.0	70	130				
trans-1,2-Dichloroethene	0.9100	0.15	1	0	91.0	70	130				
trans-1,3-Dichloropropene	0.9600	0.15	1	0	96.0	70	130				
Trichloroethene	1.160	0.030	1	0	116	70	130				
Vinyl acetate	0.7900	0.15	1	0	79.0	70	130				
Vinyl Bromide	1.020	0.15	1	0	102	70	130				
Vinyl chloride	0.8100	0.040	1	0	81.0	70	130				

Sample ID: ALSC1UGD-012020 SampType: LCSD TestCode: 0.20_NYS Units: ppbV Prep Date: RunNo: 15921
Client ID: ZZZZZ Batch ID: R15921 TestNo: TO-15 Analysis Date: 1/21/2020 SeqNo: 181777

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.9600	0.15	1	0	96.0	70	130	1	4.08	30	
1,1,2,2-Tetrachloroethane	0.9900	0.15	1	0	99.0	70	130	1.01	2.00	30	
1,1,2-Trichloroethane	1.050	0.15	1	0	105	70	130	1.04	0.957	30	
1,1-Dichloroethane	0.9200	0.15	1	0	92.0	70	130	0.91	1.09	30	
1,1-Dichloroethene	1.050	0.040	1	0	105	70	130	1.02	2.90	30	
1,2,4-Trichlorobenzene	1.520	0.15	1	0	152	70	130	1.62	6.37	30	S
1,2,4-Trimethylbenzene	1.020	0.15	1	0	102	70	130	1.02	0	30	
1,2-Dibromoethane	1.060	0.15	1	0	106	70	130	1.06	0	30	
1,2-Dichlorobenzene	1.180	0.15	1	0	118	70	130	1.18	0	30	
1,2-Dichloroethane	0.9100	0.15	1	0	91.0	70	130	0.89	2.22	30	
1,2-Dichloropropane	0.9300	0.15	1	0	93.0	70	130	0.93	0	30	
1,3,5-Trimethylbenzene	1.010	0.15	1	0	101	70	130	1.01	0	30	
1,3-butadiene	0.7600	0.15	1	0	76.0	70	130	0.74	2.67	30	
1,3-Dichlorobenzene	1.250	0.15	1	0	125	70	130	1.27	1.59	30	
1,4-Dichlorobenzene	1.290	0.15	1	0	129	70	130	1.29	0	30	
1,4-Dioxane	1.000	0.30	1	0	100	70	130	1	0	30	
2,2,4-trimethylpentane	0.9100	0.15	1	0	91.0	70	130	0.9	1.10	30	
4-ethyltoluene	1.070	0.15	1	0	107	70	130	1.06	0.939	30	

Qualifiers:
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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
DL Detection Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: Matrix Environmental Technologies, Inc
Work Order: C2001030
Project: Aquino Lake Ave Apts

TestCode: 0.20_NYS

Sample ID: **ALSC1UGD-012020** SampType: **LCSD** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **15921**
Client ID: **ZZZZZ** Batch ID: **R15921** TestNo: **TO-15** Analysis Date: **1/21/2020** SeqNo: **181777**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	1.020	0.30	1	0	102	70	130	0.91	11.4	30	
Allyl chloride	0.8000	0.15	1	0	80.0	70	130	0.8	0	30	
Benzene	0.9900	0.15	1	0	99.0	70	130	1	1.01	30	
Benzyl chloride	0.9800	0.15	1	0	98.0	70	130	1.21	21.0	30	
Bromodichloromethane	0.9100	0.15	1	0	91.0	70	130	0.96	5.35	30	
Bromoform	0.7800	0.15	1	0	78.0	70	130	0.98	22.7	30	
Bromomethane	0.7200	0.15	1	0	72.0	70	130	0.79	9.27	30	
Carbon disulfide	0.9500	0.15	1	0	95.0	70	130	0.96	1.05	30	
Carbon tetrachloride	0.8600	0.030	1	0	86.0	70	130	1	15.1	30	
Chlorobenzene	1.070	0.15	1	0	107	70	130	1.04	2.84	30	
Chloroethane	0.8700	0.15	1	0	87.0	70	130	0.51	52.2	30	R
Chloroform	0.9900	0.15	1	0	99.0	70	130	0.96	3.08	30	
Chloromethane	0.7400	0.15	1	0	74.0	70	130	0.8	7.79	30	
cis-1,2-Dichloroethene	0.9300	0.040	1	0	93.0	70	130	0.91	2.17	30	
cis-1,3-Dichloropropene	0.9600	0.15	1	0	96.0	70	130	0.98	2.06	30	
Cyclohexane	0.9000	0.15	1	0	90.0	70	130	0.9	0	30	
Dibromochloromethane	0.8800	0.15	1	0	88.0	70	130	1	12.8	30	
Ethyl acetate	0.8400	0.15	1	0	84.0	70	130	0.85	1.18	30	
Ethylbenzene	1.000	0.15	1	0	100	70	130	0.98	2.02	30	
Freon 11	1.020	0.15	1	0	102	70	130	1.01	0.985	30	
Freon 113	1.040	0.15	1	0	104	70	130	1.02	1.94	30	
Freon 114	0.9200	0.15	1	0	92.0	70	130	0.97	5.29	30	
Freon 12	0.9600	0.15	1	0	96.0	70	130	0.99	3.08	30	
Heptane	0.8700	0.15	1	0	87.0	70	130	0.85	2.33	30	
Hexachloro-1,3-butadiene	1.180	0.15	1	0	118	70	130	1.17	0.851	30	
Hexane	0.9100	0.15	1	0	91.0	70	130	0.89	2.22	30	
Isopropyl alcohol	0.8000	0.15	1	0	80.0	70	130	0.86	7.23	30	
m&p-Xylene	2.000	0.30	2	0	100	70	130	1.97	1.51	30	
Methyl Butyl Ketone	0.9200	0.30	1	0	92.0	70	130	0.91	1.09	30	
Methyl Ethyl Ketone	0.9900	0.30	1	0	99.0	70	130	0.95	4.12	30	
Methyl Isobutyl Ketone	0.8400	0.30	1	0	84.0	70	130	0.84	0	30	

Qualifiers:
. Results reported are not blank corrected
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
DL Detection Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: Matrix Environmental Technologies, Inc
Work Order: C2001030
Project: Aquino Lake Ave Apts

TestCode: 0.20_NYS

Sample ID: **ALSC1UGD-012020** SampType: **LCSD** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **15921**
Client ID: **ZZZZZ** Batch ID: **R15921** TestNo: **TO-15** Analysis Date: **1/21/2020** SeqNo: **181777**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.9200	0.15	1	0	92.0	70	130	0.91	1.09	30	
Methylene chloride	0.9900	0.15	1	0	99.0	70	130	0.98	1.02	30	
o-Xylene	1.000	0.15	1	0	100	70	130	0.98	2.02	30	
Propylene	0.9400	0.15	1	0	94.0	70	130	1	6.19	30	
Styrene	1.050	0.15	1	0	105	70	130	1.03	1.92	30	
Tetrachloroethylene	1.110	0.15	1	0	111	70	130	1.08	2.74	30	
Tetrahydrofuran	0.8400	0.15	1	0	84.0	70	130	0.83	1.20	30	
Toluene	1.000	0.15	1	0	100	70	130	0.98	2.02	30	
trans-1,2-Dichloroethene	0.9300	0.15	1	0	93.0	70	130	0.91	2.17	30	
trans-1,3-Dichloropropene	0.9200	0.15	1	0	92.0	70	130	0.96	4.26	30	
Trichloroethene	1.180	0.030	1	0	118	70	130	1.16	1.71	30	
Vinyl acetate	0.7400	0.15	1	0	74.0	70	130	0.79	6.54	30	
Vinyl Bromide	1.020	0.15	1	0	102	70	130	1.02	0	30	
Vinyl chloride	0.7700	0.040	1	0	77.0	70	130	0.81	5.06	30	

Qualifiers:

.	Results reported are not blank corrected	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	DL	Detection Limit		

Centek Laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *05-Feb-20*

ANALYTICAL QC SUMMARY REPORT

CLIENT: Matrix Environmental Technologies, Inc
Work Order: C2001030
Project: Aquino Lake Ave Apts

TestCode: 0.20_NYS

Sample ID: **AMB1UG-012020** SampType: **MBLK** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **15921**
Client ID: **ZZZZZ** Batch ID: **R15921** TestNo: **TO-15** Analysis Date: **1/20/2020** SeqNo: **181775**

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
J Analyte detected below quantitation limit
S Spike Recovery outside accepted recovery limits
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ND Not Detected at the Limit of Detection
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H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: Matrix Environmental Technologies, Inc
Work Order: C2001030
Project: Aquino Lake Ave Apts

TestCode: 0.20_NYS

Sample ID: **AMB1UG-012020** SampType: **MBLK** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **15921**
Client ID: **ZZZZZ** Batch ID: **R15921** TestNo: **TO-15** Analysis Date: **1/20/2020** SeqNo: **181775**

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	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	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	DL	Detection Limit		

CLIENT: Matrix Environmental Technologies, Inc
Work Order: C2001030
Project: Aquino Lake Ave Apts

TestCode: 0.20_NYS

Sample ID: AMB1UG-012020	SampType: MBLK	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 15921
Client ID: ZZZZZ	Batch ID: R15921	TestNo: TO-15		Analysis Date: 1/20/2020	SeqNo: 181775

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									

Qualifiers:

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Centek Laboratories, LLC

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 Laboratories, LLC

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	0.26	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 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

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 Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Outdoor Air
Lab Order:	C2001030	**Tag Number:**	365,394
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-001A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	0			"Hg		1/20/2020
Lab Vacuum Out	-30			"Hg		1/20/2020
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	1/20/2020 5:25:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	1/20/2020 5:25:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/20/2020 5:25:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Acetone	2.7	0.30		ppbV	1	1/20/2020 5:25:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Benzene	0.19	0.15		ppbV	1	1/20/2020 5:25:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Carbon tetrachloride	0.080	0.030		ppbV	1	1/20/2020 5:25:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Chloroform	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Chloromethane	0.40	0.15		ppbV	1	1/20/2020 5:25:00 PM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	1/20/2020 5:25:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Ethyl acetate	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Outdoor Air
Lab Order:	C2001030	**Tag Number:**	365,394
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-001A	**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	1/20/2020 5:25:00 PM
Freon 11	0.28	0.15		ppbV	1	1/20/2020 5:25:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Freon 12	0.58	0.15		ppbV	1	1/20/2020 5:25:00 PM
Heptane	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Hexane	0.17	0.15		ppbV	1	1/20/2020 5:25:00 PM
Isopropyl alcohol	0.94	0.15		ppbV	1	1/20/2020 5:25:00 PM
m&p-Xylene	0.11	0.30	J	ppbV	1	1/20/2020 5:25:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/20/2020 5:25:00 PM
Methyl Ethyl Ketone	0.38	0.30		ppbV	1	1/20/2020 5:25:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/20/2020 5:25:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Methylene chloride	0.17	0.15		ppbV	1	1/20/2020 5:25:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Toluene	0.28	0.15		ppbV	1	1/20/2020 5:25:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Trichloroethene	< 0.030	0.030		ppbV	1	1/20/2020 5:25:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/20/2020 5:25:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	1/20/2020 5:25:00 PM
Surr: Bromofluorobenzene	98.0	70-130		%REC	1	1/20/2020 5:25:00 PM

Qualifiers:	SC	Sub-Contracted	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Outdoor Air
Lab Order:	C2001030	**Tag Number:**	365,394
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-001A	**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	1/20/2020 5:25:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/20/2020 5:25:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	1/20/2020 5:25:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	1/20/2020 5:25:00 PM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 5:25:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/20/2020 5:25:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	1/20/2020 5:25:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/20/2020 5:25:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 5:25:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	1/20/2020 5:25:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	1/20/2020 5:25:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	1/20/2020 5:25:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	1/20/2020 5:25:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 5:25:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 5:25:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/20/2020 5:25:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	1/20/2020 5:25:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	1/20/2020 5:25:00 PM
Acetone	6.4	0.71		ug/m3	1	1/20/2020 5:25:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	1/20/2020 5:25:00 PM
Benzene	0.61	0.48		ug/m3	1	1/20/2020 5:25:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	1/20/2020 5:25:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/20/2020 5:25:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/20/2020 5:25:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	1/20/2020 5:25:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/20/2020 5:25:00 PM
Carbon tetrachloride	0.50	0.19		ug/m3	1	1/20/2020 5:25:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	1/20/2020 5:25:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/20/2020 5:25:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	1/20/2020 5:25:00 PM
Chloromethane	0.83	0.31		ug/m3	1	1/20/2020 5:25:00 PM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 5:25:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/20/2020 5:25:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/20/2020 5:25:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/20/2020 5:25:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	1/20/2020 5:25:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	1/20/2020 5:25:00 PM
Freon 11	1.6	0.84		ug/m3	1	1/20/2020 5:25:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	1/20/2020 5:25:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	1/20/2020 5:25:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Outdoor Air
Lab Order:	C2001030	**Tag Number:**	365,394
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-001A	**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	2.9	0.74		ug/m3	1	1/20/2020 5:25:00 PM
Heptane	< 0.61	0.61		ug/m3	1	1/20/2020 5:25:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/20/2020 5:25:00 PM
Hexane	0.60	0.53		ug/m3	1	1/20/2020 5:25:00 PM
Isopropyl alcohol	2.3	0.37		ug/m3	1	1/20/2020 5:25:00 PM
m&p-Xylene	0.48	1.3	J	ug/m3	1	1/20/2020 5:25:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/20/2020 5:25:00 PM
Methyl Ethyl Ketone	1.1	0.88		ug/m3	1	1/20/2020 5:25:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/20/2020 5:25:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	1/20/2020 5:25:00 PM
Methylene chloride	0.59	0.52		ug/m3	1	1/20/2020 5:25:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	1/20/2020 5:25:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/20/2020 5:25:00 PM
Styrene	< 0.64	0.64		ug/m3	1	1/20/2020 5:25:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	1/20/2020 5:25:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	1/20/2020 5:25:00 PM
Toluene	1.1	0.57		ug/m3	1	1/20/2020 5:25:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	1/20/2020 5:25:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/20/2020 5:25:00 PM
Trichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 5:25:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	1/20/2020 5:25:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	1/20/2020 5:25:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	1/20/2020 5:25:00 PM

Qualifiers:				
	SC	Sub-Contracted	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012010.D Vial: 10
Acq On : 20 Jan 2020 5:25 pm Operator: RJP
Sample : C2001030-001A Inst : MSD #1
Misc : A116_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 21 08:35:16 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 11:14:36 2020
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.96	128	44877	1.00	ppb		0.03
35) 1,4-difluorobenzene	12.23	114	216049	1.00	ppb		0.01
50) Chlorobenzene-d5	17.02	117	185365	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.76	95	121135	0.98	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98.00%				
Target Compounds							Qvalue
3) Freon 12	4.27	85	68566	0.58	ppb		97
4) Chloromethane	4.47	50	10864	0.40	ppb		72
14) Freon 11	5.93	101	34531	0.28	ppb		96
15) Acetone	6.14	58	69877m	2.68	ppb		
17) Isopropyl alcohol	6.26	45	77865	0.94	ppb	#	1
21) Methylene chloride	7.17	84	8049	0.17	ppb	#	28
28) Methyl Ethyl Ketone	9.07	72	9361	0.38	ppb	#	100
30) Hexane	9.11	57	14878	0.17	ppb		88
38) Carbon tetrachloride	11.59	117	9119	0.08	ppb		92
39) Benzene	11.56	78	30014	0.19	ppb		100
51) Toluene	14.98	92	31185	0.28	ppb		99
59) m&p-xylene	17.53	91	20859	0.11	ppb		99

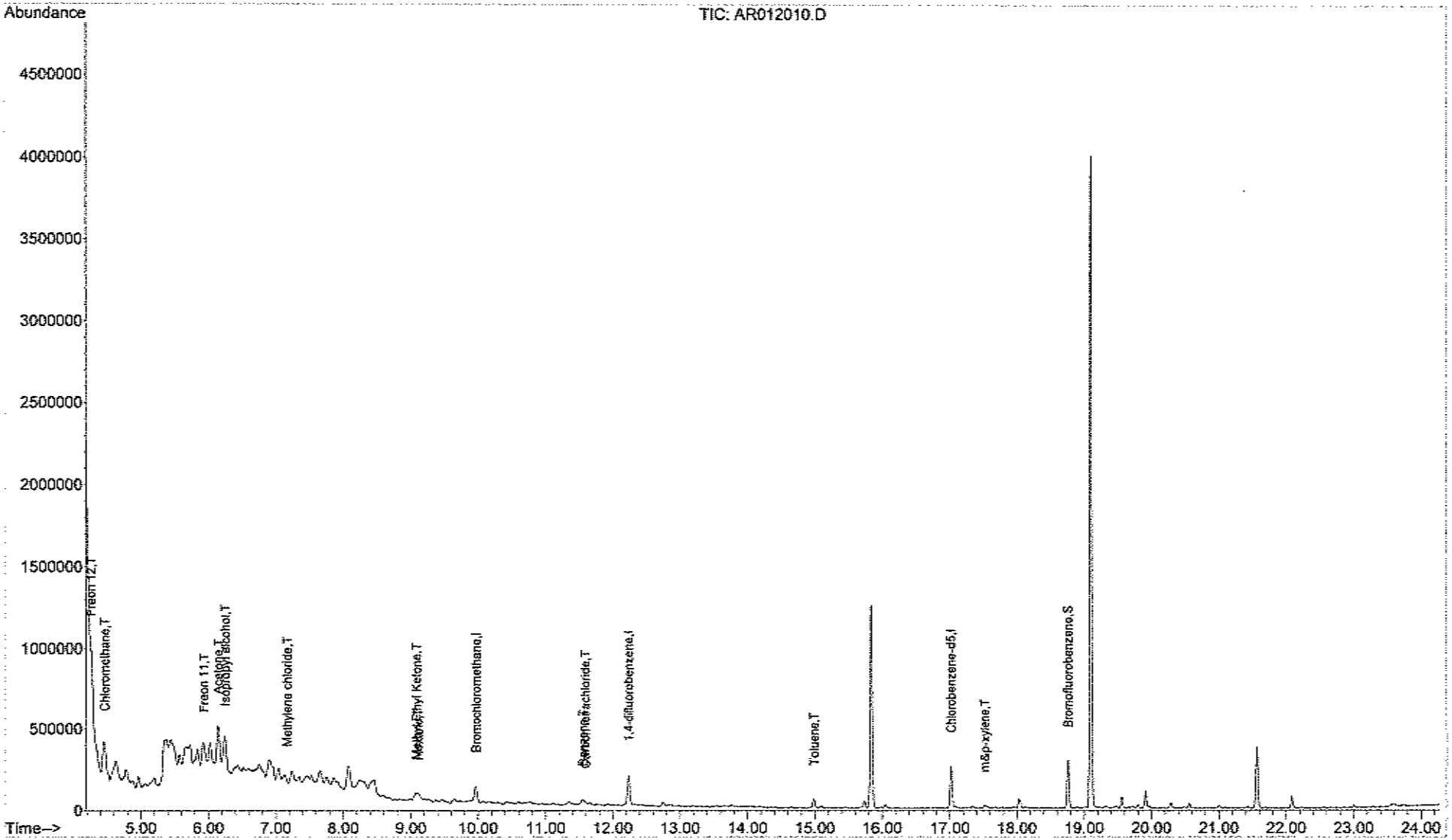
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

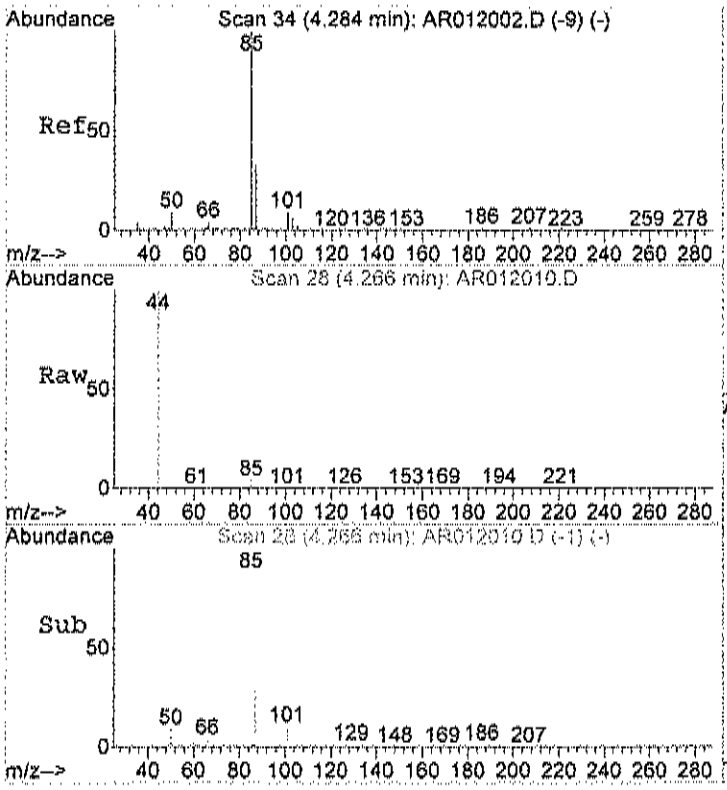
Data File : C:\HPCHEM\1\DATA\AR012010.D
Acq On : 20 Jan 2020 5:25 pm
Sample : C2001030-001A
Misc : A116_1UG
MS Integration Params: RTEINT.P
Quant Time: Jan 23 12:19 2020

Vial: 10
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A116_1UG.RES

Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
Response via : Initial Calibration



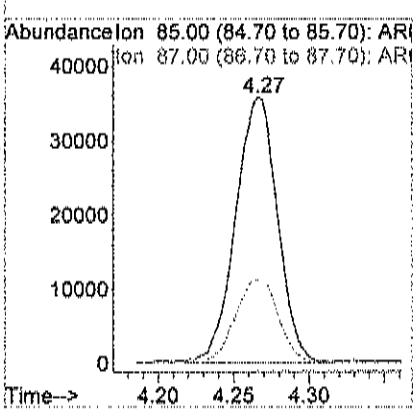
AR012010.D A116_1UG.M Wed Feb 05 10:01:14 2020 MSD1 Page 2

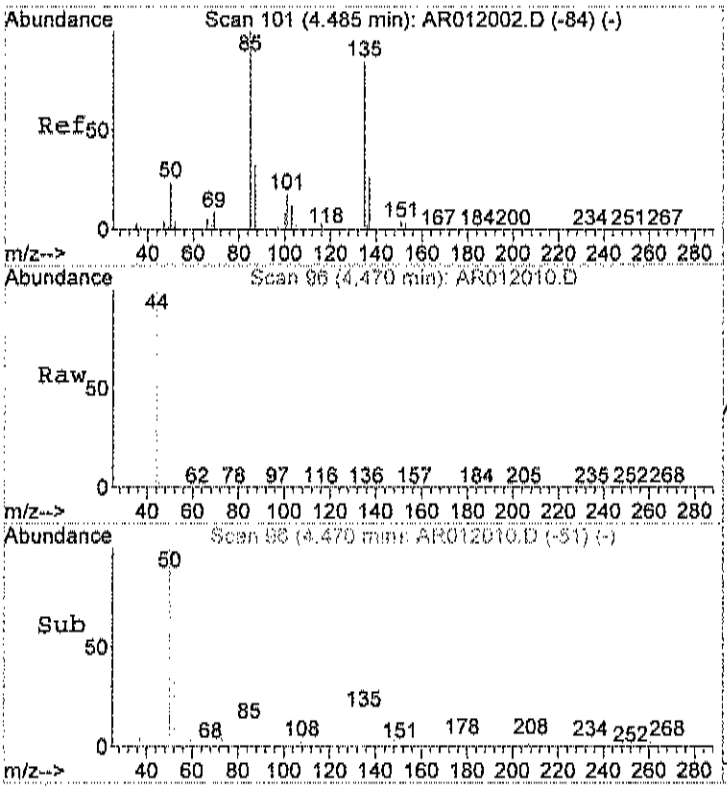


#3
Freon 12
Concen: 0.58 ppb
RT: 4.27 min Scan# 28
Delta R.T. -0.02 min
Lab File: AR012010.D
Acq: 20 Jan 2020 5:25 pm

Tgt Ion: 85 Resp: 68566

Ion	Ratio	Lower	Upper
85	100		
87	33.8	11.9	51.9

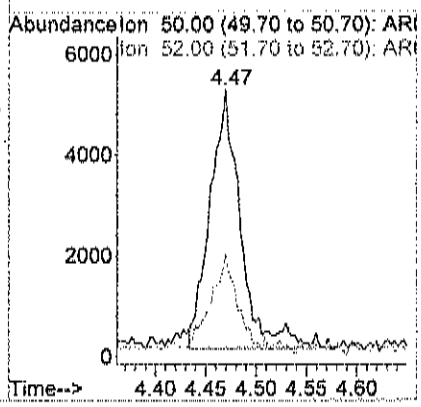


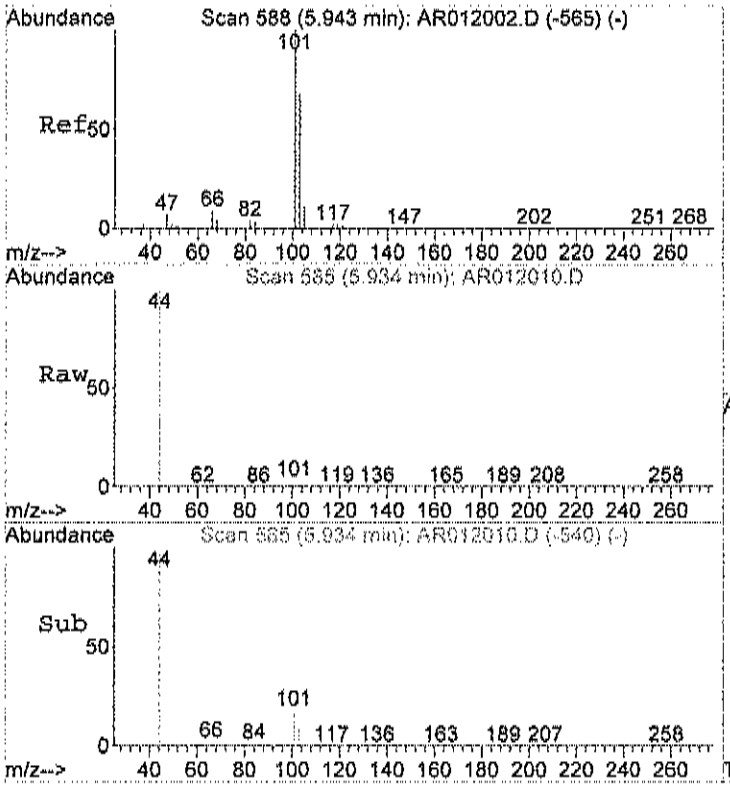


#4
Chloromethane
Concen: 0.40 ppb
RT: 4.47 min Scan# 96
Delta R.T. -0.02 min
Lab File: AR012010.D
Acq: 20 Jan 2020 5:25 pm

Tgt Ion: 50 Resp: 10864

Ion	Ratio	Lower	Upper
50	100		
52	40.3	6.1	46.1

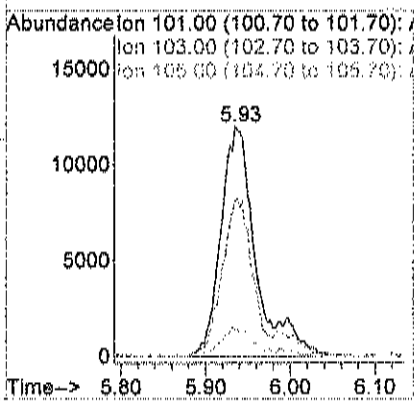


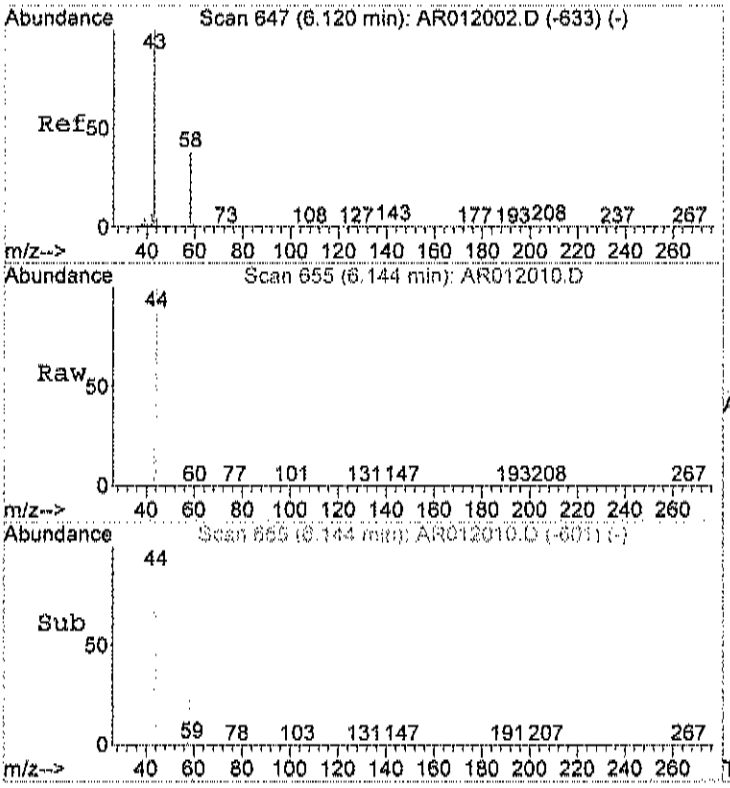


#14
Freon 11
Concen: 0.28 ppb
RT: 5.93 min Scan# 585
Delta R.T. -0.02 min
Lab File: AR012010.D
Acq: 20 Jan 2020 5:25 pm

Tgt Ion:101 Resp: 34531

Ion	Ratio	Lower	Upper
101	100		
103	67.3	44.2	84.2
105	11.3	0.0	30.3

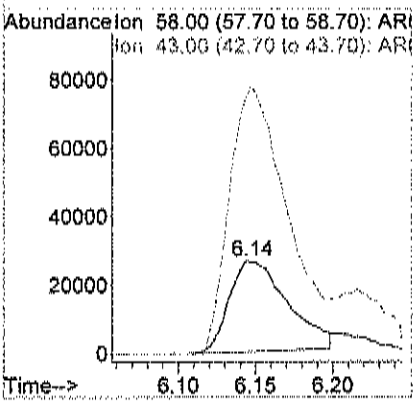


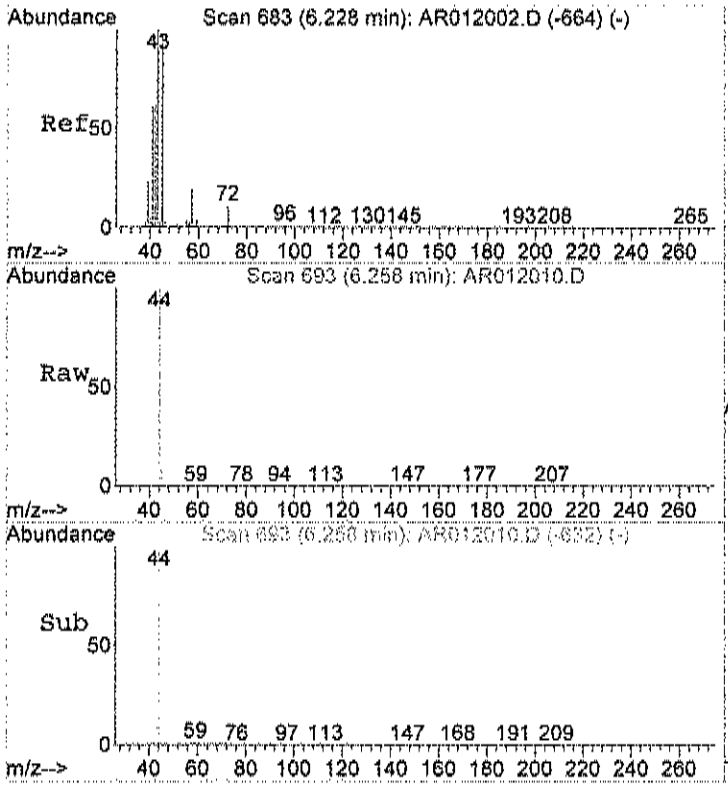


#15
Acetone
Concen: 2.68 ppb m
RT: 6.14 min Scan# 655
Delta R.T. 0.01 min
Lab File: AR012010.D
Acq: 20 Jan 2020 5:25 pm

Tgt Ion: 58 Resp: 69877

Ion	Ratio	Lower	Upper
58	100		
43	352.0	0.0	30.0#

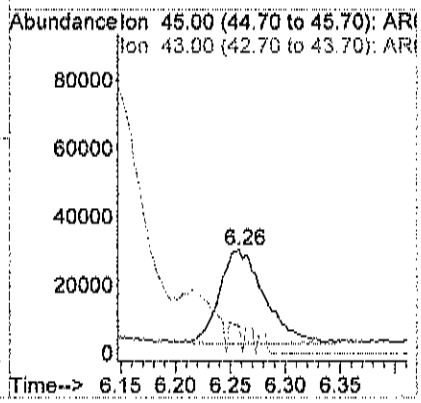


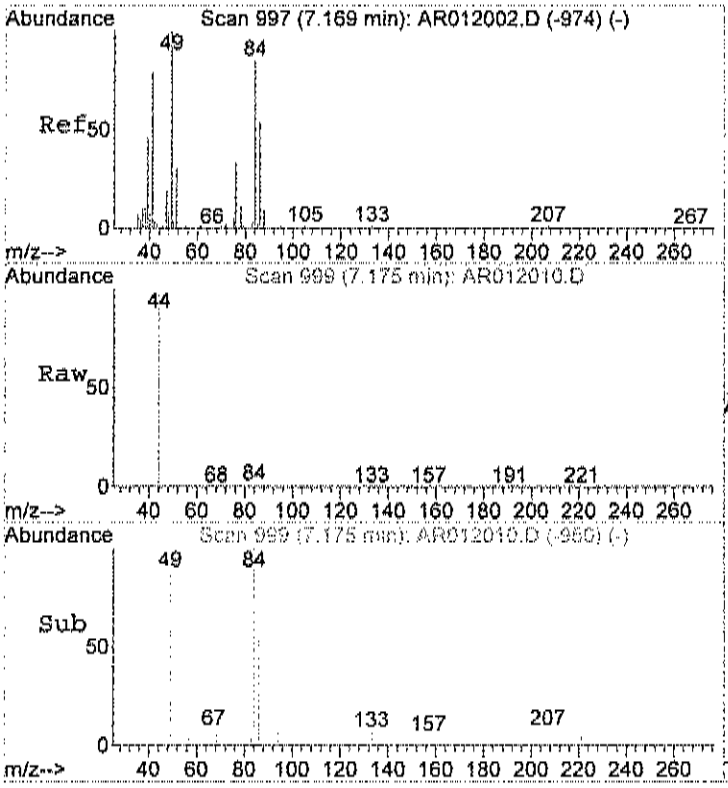


#17
Isopropyl alcohol
Concen: 0.94 ppb
RT: 6.26 min Scan# 693
Delta R.T. 0.03 min
Lab File: AR012010.D
Acq: 20 Jan 2020 5:25 pm

Tgt Ion: 45 Resp: 77865

Ion	Ratio	Lower	Upper
45	100		
43	0.0	196.5	236.5#

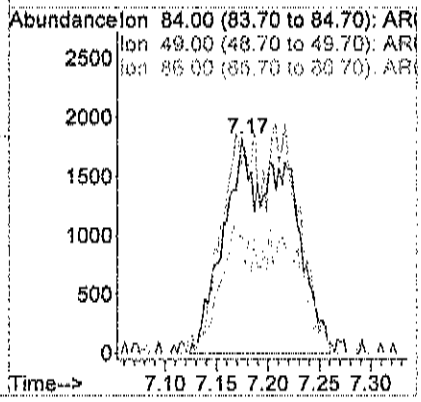


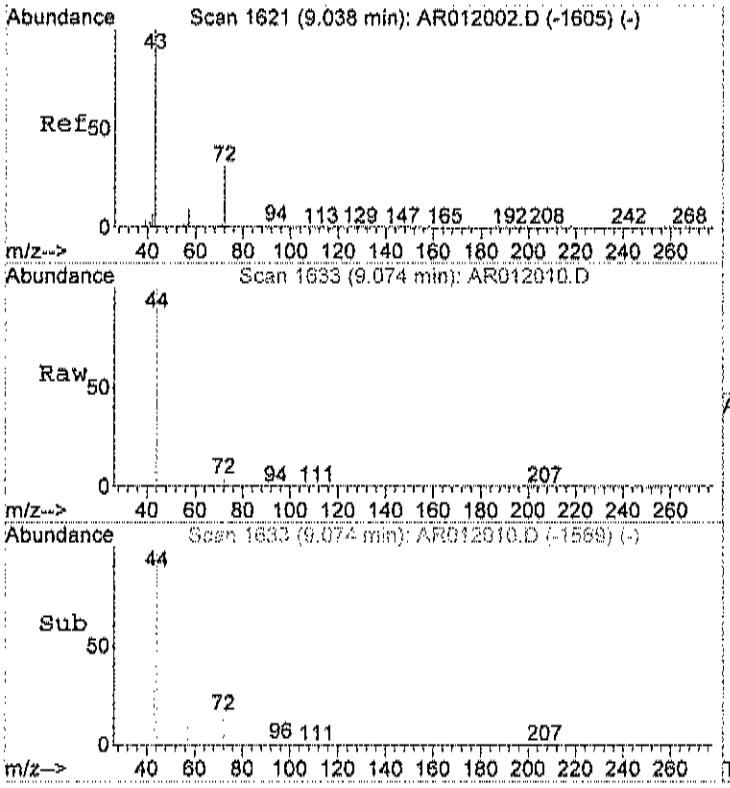


#21
Methylene chloride
Concen: 0.17 ppb
RT: 7.17 min Scan# 999
Delta R.T. -0.00 min
Lab File: AR012010.D
Acq: 20 Jan 2020 5:25 pm

Tgt Ion: 84 Resp: 8049

Ion	Ratio	Lower	Upper
84	100		
49	0.0	101.4	141.4#
86	61.7	45.4	85.4

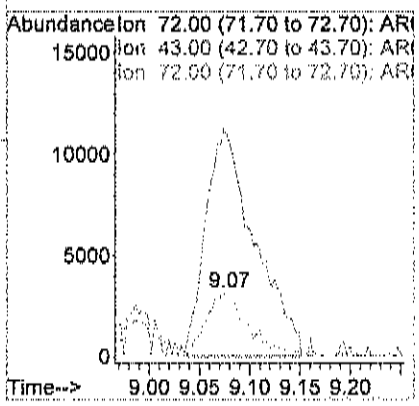


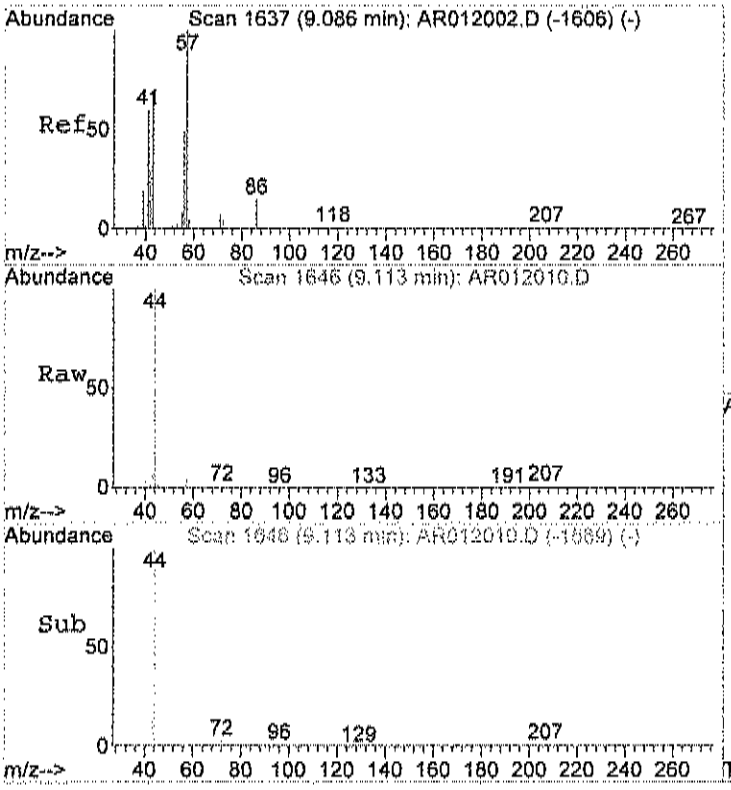


#28
Methyl Ethyl Ketone
Concen: 0.38 ppb
RT: 9.07 min Scan# 1633
Delta R.T. 0.04 min
Lab File: AR012010.D
Acq: 20 Jan 2020 5:25 pm

Tgt Ion: 72 Resp: 9361

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

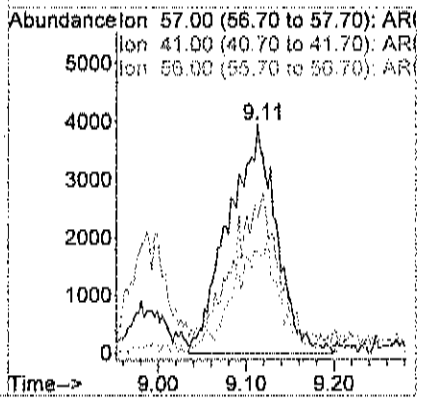


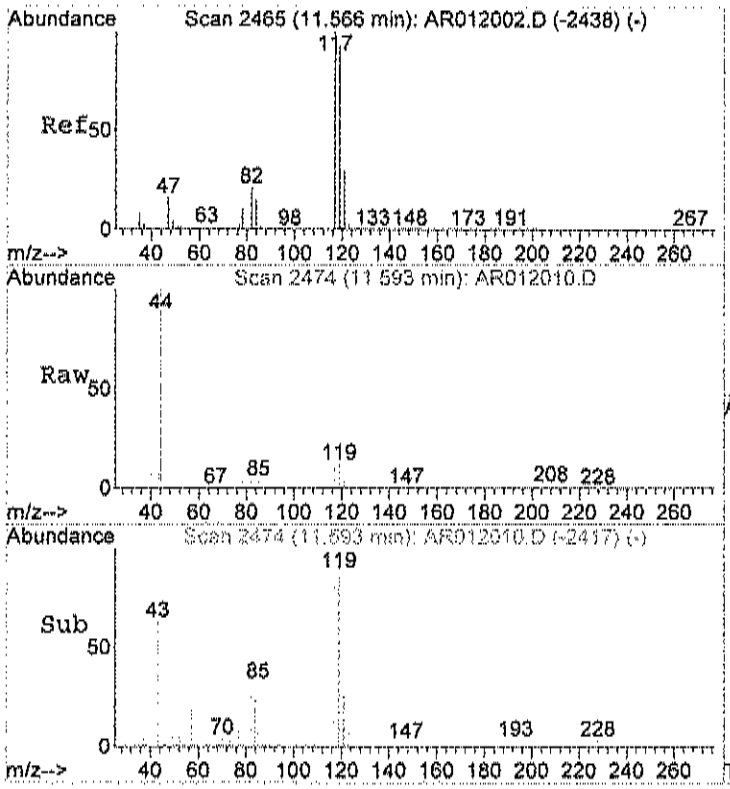


#30
Hexane
Concen: 0.17 ppb
RT: 9.11 min Scan# 1646
Delta R.T. 0.02 min
Lab File: AR012010.D
Acq: 20 Jan 2020 5:25 pm

Tgt Ion: 57 Resp: 14878

Ion	Ratio	Lower	Upper
57	100		
41	86.3	55.7	95.7
56	44.3	32.4	72.4

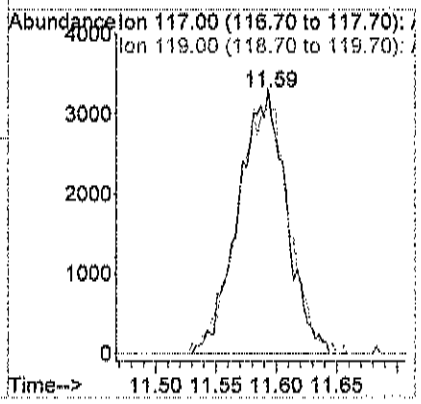


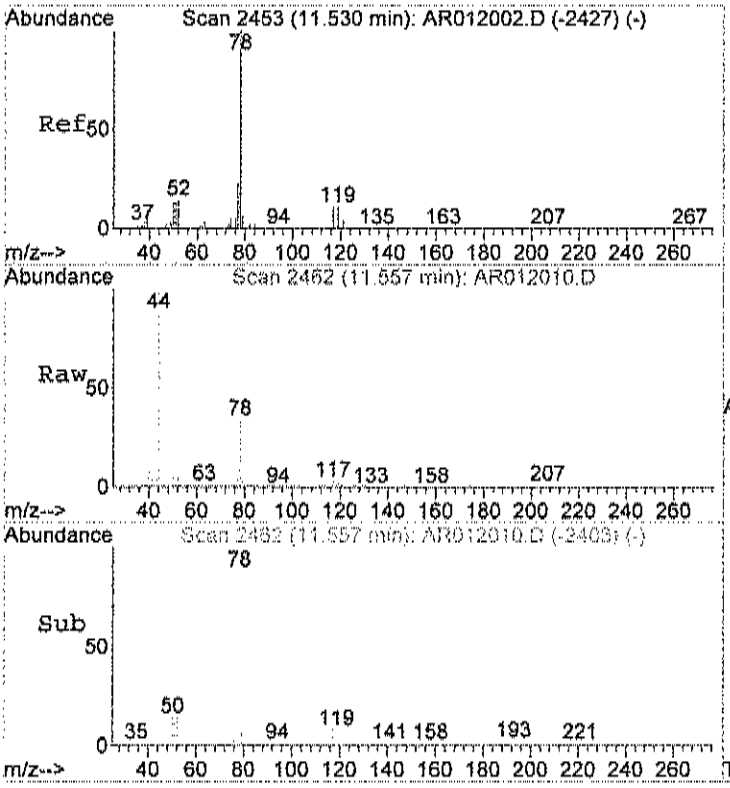


#38
Carbon tetrachloride
Concen: 0.08 ppb
RT: 11.59 min Scan# 2474
Delta R.T. 0.02 min
Lab File: AR012010.D
Acq: 20 Jan 2020 5:25 pm

Tgt Ion:117 Resp: 9119

Ion	Ratio	Lower	Upper
117	100		
119	103.6	75.6	115.6

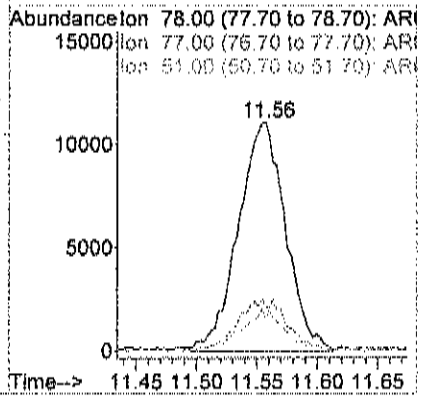


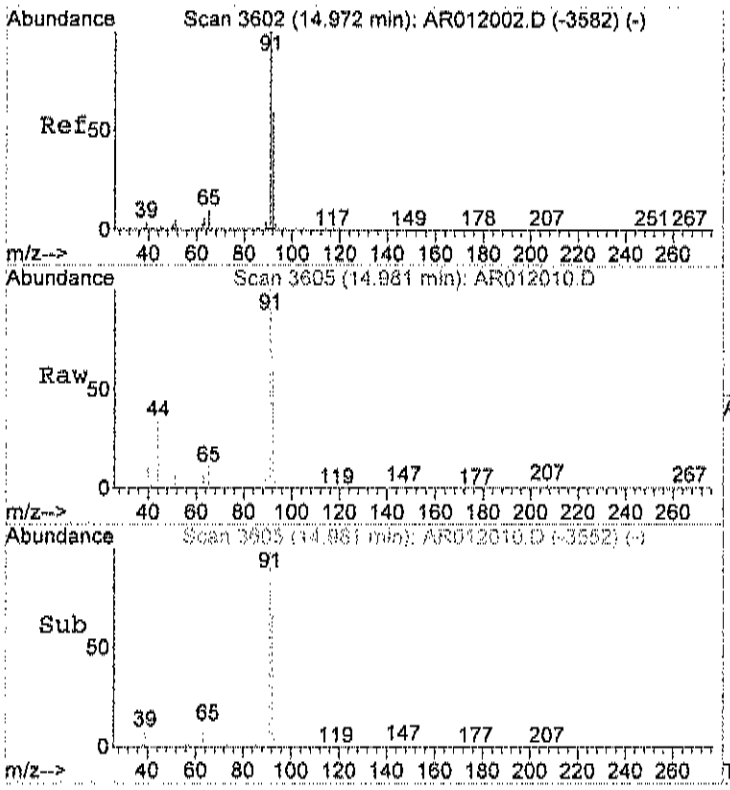


#39
Benzene
Concen: 0.19 ppb
RT: 11.56 min Scan# 2462
Delta R.T. 0.03 min
Lab File: AR012010.D
Acq: 20 Jan 2020 5:25 pm

Tgt Ion: 78 Resp: 30014

Ion	Ratio	Lower	Upper
78	100		
77	23.9	4.1	44.1
51	16.5	0.0	36.8

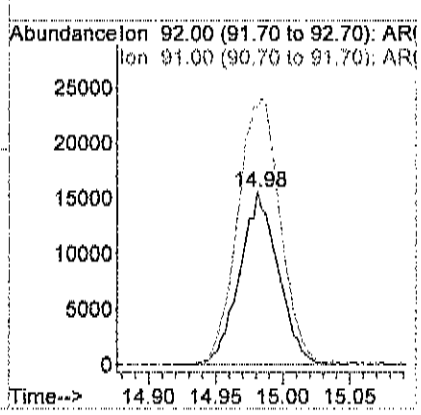


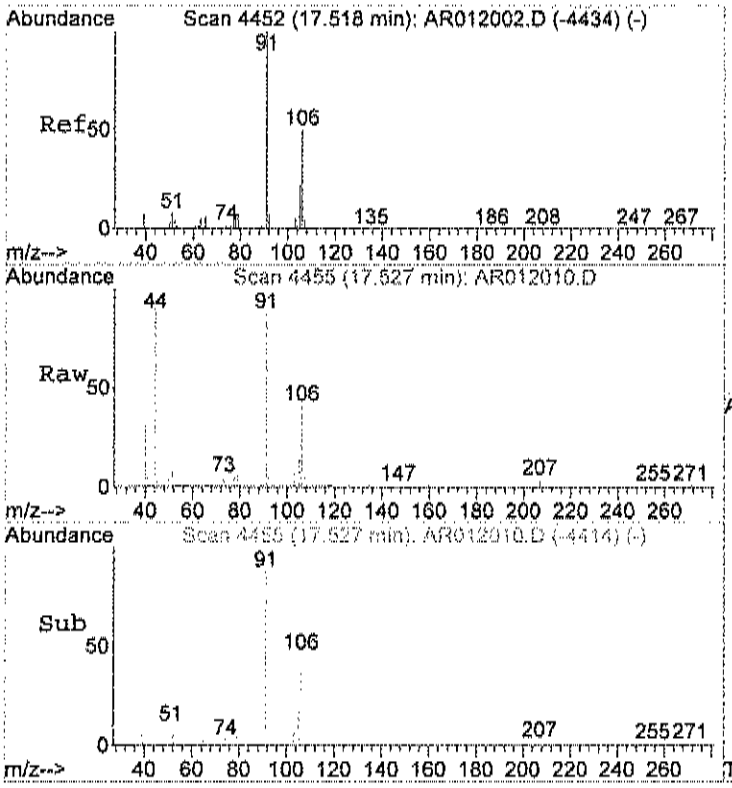


#51
Toluene
Concen: 0.28 ppb
RT: 14.98 min Scan# 3605
Delta R.T. 0.01 min
Lab File: AR012010.D
Acq: 20 Jan 2020 5:25 pm

Tgt Ion: 92 Resp: 31185

Ion	Ratio	Lower	Upper
92	100		
91	173.3	154.5	194.5

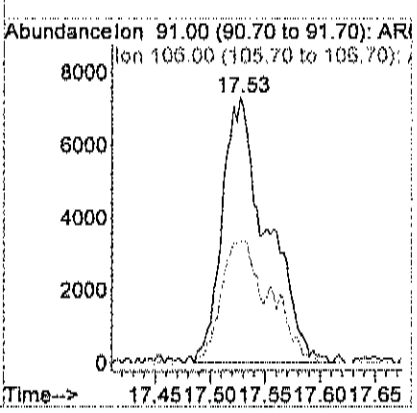




#59
m&p-xylene
Concen: 0.11 ppb
RT: 17.53 min Scan# 4455
Delta R.T. -0.03 min
Lab File: AR012010.D
Acq: 20 Jan 2020 5:25 pm

Tgt Ion: 91 Resp: 20859

Ion	Ratio	Lower	Upper
91	100		
106	49.6	29.0	69.0



Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Building 1-Indoor
Lab Order:	C2001030	**Tag Number:**	438,381
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-002A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-1			"Hg		1/20/2020
Lab Vacuum Out	-30			"Hg		1/20/2020
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	1/20/2020 6:12:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	1/20/2020 6:12:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/20/2020 6:12:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Acetone	6.2	3.0		ppbV	10	1/21/2020 2:43:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Benzene	0.29	0.15		ppbV	1	1/20/2020 6:12:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Carbon tetrachloride	0.080	0.030		ppbV	1	1/20/2020 6:12:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Chloroform	0.56	0.15		ppbV	1	1/20/2020 6:12:00 PM
Chloromethane	0.56	0.15		ppbV	1	1/20/2020 6:12:00 PM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	1/20/2020 6:12:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Ethyl acetate	0.70	0.15		ppbV	1	1/20/2020 6:12:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Building 1-Indoor
Lab Order:	C2001030	**Tag Number:**	438,381
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-002A	**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	0.12	0.15	J	ppbV	1	1/20/2020 6:12:00 PM
Freon 11	0.27	0.15		ppbV	1	1/20/2020 6:12:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Freon 12	0.58	0.15		ppbV	1	1/20/2020 6:12:00 PM
Heptane	0.14	0.15	J	ppbV	1	1/20/2020 6:12:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Hexane	0.17	0.15		ppbV	1	1/20/2020 6:12:00 PM
Isopropyl alcohol	3.3	1.5		ppbV	10	1/21/2020 2:43:00 AM
m&p-Xylene	0.39	0.30		ppbV	1	1/20/2020 6:12:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/20/2020 6:12:00 PM
Methyl Ethyl Ketone	0.45	0.30		ppbV	1	1/20/2020 6:12:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/20/2020 6:12:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Methylene chloride	0.17	0.15		ppbV	1	1/20/2020 6:12:00 PM
o-Xylene	0.13	0.15	J	ppbV	1	1/20/2020 6:12:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Styrene	0.17	0.15		ppbV	1	1/20/2020 6:12:00 PM
Tetrachloroethylene	2.4	1.5		ppbV	10	1/21/2020 2:43:00 AM
Tetrahydrofuran	0.27	0.15		ppbV	1	1/20/2020 6:12:00 PM
Toluene	0.88	0.15		ppbV	1	1/20/2020 6:12:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Trichloroethene	0.14	0.030		ppbV	1	1/20/2020 6:12:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/20/2020 6:12:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	1/20/2020 6:12:00 PM
Surr: Bromofluorobenzene	101	70-130		%REC	1	1/20/2020 6:12:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Building 1-Indoor
Lab Order:	C2001030	**Tag Number:**	438,381
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-002A	**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	1/20/2020 6:12:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/20/2020 6:12:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	1/20/2020 6:12:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	1/20/2020 6:12:00 PM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 6:12:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/20/2020 6:12:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	1/20/2020 6:12:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/20/2020 6:12:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 6:12:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	1/20/2020 6:12:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	1/20/2020 6:12:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	1/20/2020 6:12:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	1/20/2020 6:12:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 6:12:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 6:12:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/20/2020 6:12:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	1/20/2020 6:12:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	1/20/2020 6:12:00 PM
Acetone	15	7.1		ug/m3	10	1/21/2020 2:43:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	1/20/2020 6:12:00 PM
Benzene	0.93	0.48		ug/m3	1	1/20/2020 6:12:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	1/20/2020 6:12:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/20/2020 6:12:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/20/2020 6:12:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	1/20/2020 6:12:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/20/2020 6:12:00 PM
Carbon tetrachloride	0.50	0.19		ug/m3	1	1/20/2020 6:12:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	1/20/2020 6:12:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/20/2020 6:12:00 PM
Chloroform	2.7	0.73		ug/m3	1	1/20/2020 6:12:00 PM
Chloromethane	1.2	0.31		ug/m3	1	1/20/2020 6:12:00 PM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 6:12:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/20/2020 6:12:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/20/2020 6:12:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/20/2020 6:12:00 PM
Ethyl acetate	2.5	0.54		ug/m3	1	1/20/2020 6:12:00 PM
Ethylbenzene	0.52	0.65	J	ug/m3	1	1/20/2020 6:12:00 PM
Freon 11	1.5	0.84		ug/m3	1	1/20/2020 6:12:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	1/20/2020 6:12:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	1/20/2020 6:12:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Building 1-Indoor
Lab Order:	C2001030	**Tag Number:**	438,381
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-002A	**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	2.9	0.74		ug/m3	1	1/20/2020 6:12:00 PM
Heptane	0.57	0.61	J	ug/m3	1	1/20/2020 6:12:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/20/2020 6:12:00 PM
Hexane	0.60	0.53		ug/m3	1	1/20/2020 6:12:00 PM
Isopropyl alcohol	8.1	3.7		ug/m3	10	1/21/2020 2:43:00 AM
m&p-Xylene	1.7	1.3		ug/m3	1	1/20/2020 6:12:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/20/2020 6:12:00 PM
Methyl Ethyl Ketone	1.3	0.88		ug/m3	1	1/20/2020 6:12:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/20/2020 6:12:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	1/20/2020 6:12:00 PM
Methylene chloride	0.59	0.52		ug/m3	1	1/20/2020 6:12:00 PM
o-Xylene	0.56	0.65	J	ug/m3	1	1/20/2020 6:12:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/20/2020 6:12:00 PM
Styrene	0.72	0.64		ug/m3	1	1/20/2020 6:12:00 PM
Tetrachloroethylene	16	10		ug/m3	10	1/21/2020 2:43:00 AM
Tetrahydrofuran	0.80	0.44		ug/m3	1	1/20/2020 6:12:00 PM
Toluene	3.3	0.57		ug/m3	1	1/20/2020 6:12:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	1/20/2020 6:12:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/20/2020 6:12:00 PM
Trichloroethene	0.75	0.16		ug/m3	1	1/20/2020 6:12:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	1/20/2020 6:12:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	1/20/2020 6:12:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	1/20/2020 6:12:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012011.D Vial: 11
Acq On : 20 Jan 2020 6:12 pm Operator: RJP
Sample : C2001030-002A Inst : MSD #1
Misc : A116_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 21 08:35:17 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 11:14:36 2020
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

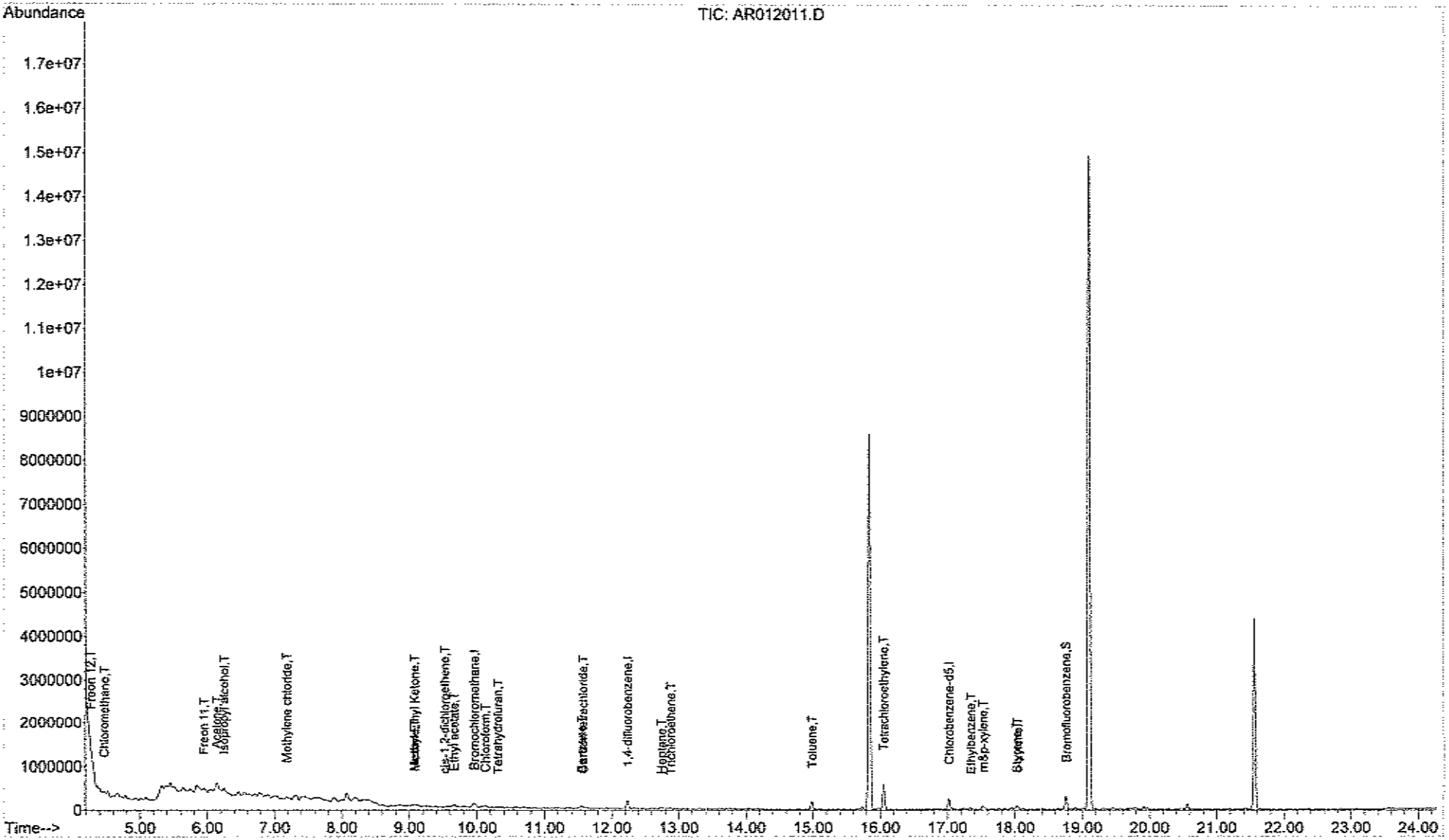
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.96	128	44673	1.00	ppb		0.03
35) 1,4-difluorobenzene	12.23	114	211949	1.00	ppb		0.02
50) Chlorobenzene-d5	17.02	117	185863	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.76	95	125685	1.01	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery	= 101.00%			
Target Compounds							Qvalue
3) Freon 12	4.27	85	67728	0.58	ppb		98
4) Chloromethane	4.47	50	15084	0.56	ppb		84
14) Freon 11	5.94	101	33444	0.27	ppb		99
15) Acetone	6.14	58	146920	5.66	ppb	#	100
17) Isopropyl alcohol	6.25	45	210636	2.56	ppb	#	1
21) Methylene chloride	7.18	84	7776m	0.17	ppb		
28) Methyl Ethyl Ketone	9.07	72	11173	0.45	ppb	#	100
29) cis-1,2-dichloroethene	9.51	61	5664	0.08	ppb		91
30) Hexane	9.08	57	15120	0.17	ppb		84
31) Ethyl acetate	9.66	43	78628	0.70	ppb		94
32) Chloroform	10.12	83	60383	0.56	ppb		98
33) Tetrahydrofuran	10.31	42	13645	0.27	ppb		96
38) Carbon tetrachloride	11.58	117	9306	0.08	ppb		98
39) Benzene	11.55	78	45780	0.29	ppb		99
43) Heptane	12.75	43	12939	0.14	ppb	#	73
44) Trichloroethene	12.88	130	9361	0.14	ppb		98
51) Toluene	14.98	92	99753	0.88	ppb		100
56) Tetrachloroethylene	16.05	164	167216	2.27	ppb		99
58) Ethylbenzene	17.34	91	29866	0.12	ppb		98
59) m&p-xylene	17.52	91	74285	0.39	ppb		96
61) Styrene	18.02	104	23635	0.17	ppb		96
63) o-xylene	18.05	91	26322	0.13	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012011.D Vial: 11
Acq On : 20 Jan 2020 6:12 pm Operator: RJP
Sample : C2001030-002A Inst : MSD #1
Misc : A116_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 23 8:46 2020 Quant Results File: A116_1UG.RES

Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
Response via : Initial Calibration



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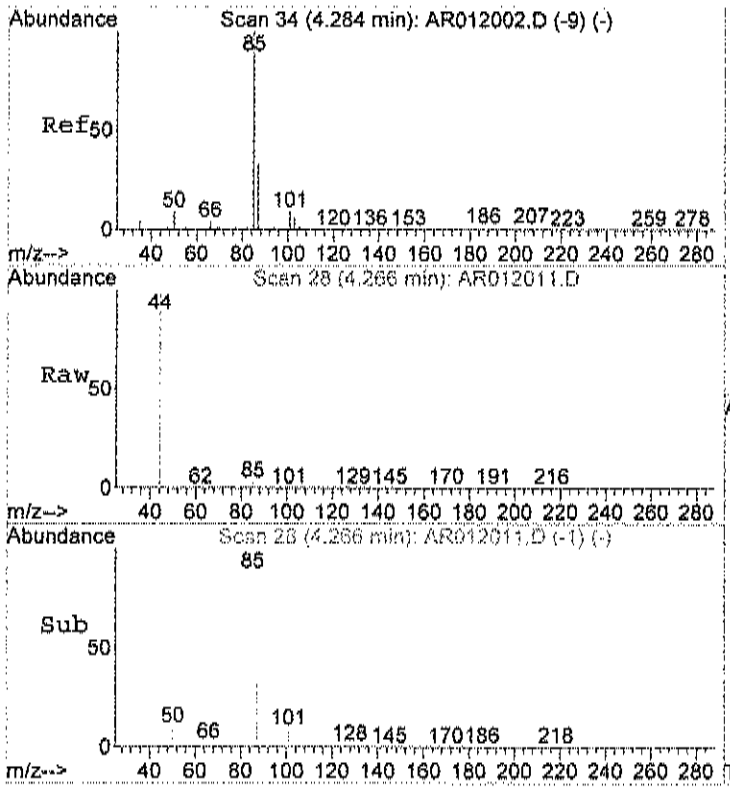
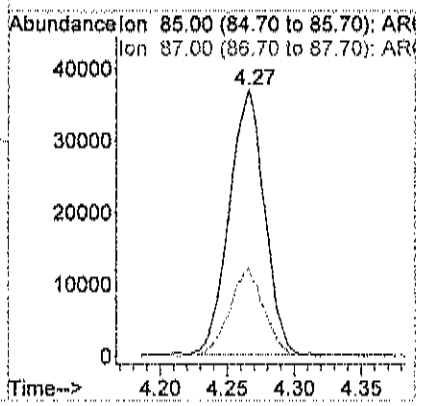
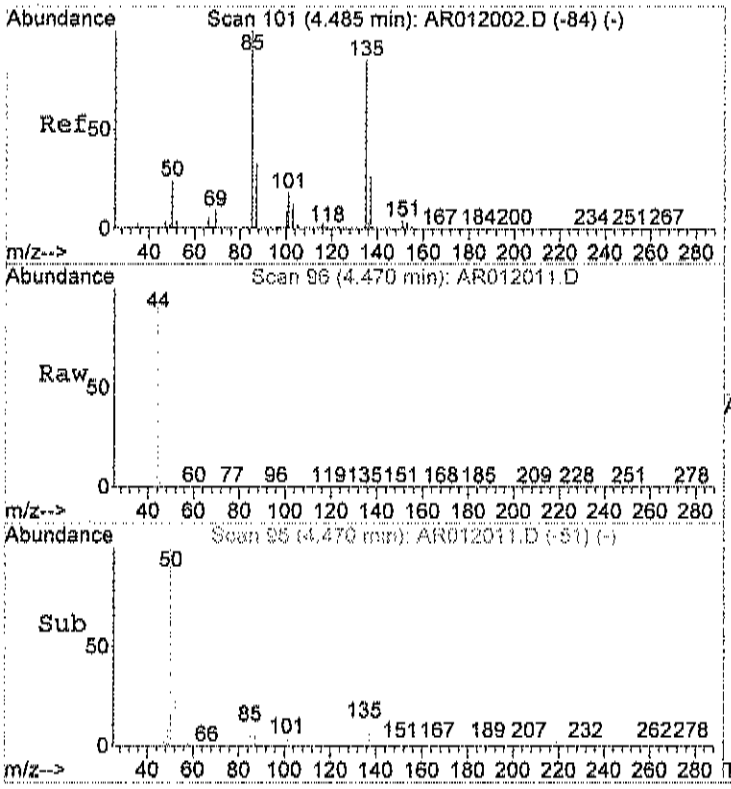


#3
Freon 12
Concen: 0.58 ppb
RT: 4.27 min Scan# 28
Delta R.T. -0.02 min
Lab File: AR012011.D
Acq: 20 Jan 2020 6:12 pm

Tgt Ion: 85 Resp: 67728

Ion	Ratio	Lower	Upper
85	100		
87	32.8	11.9	51.9

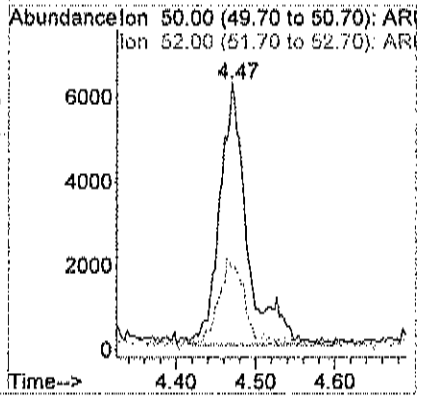


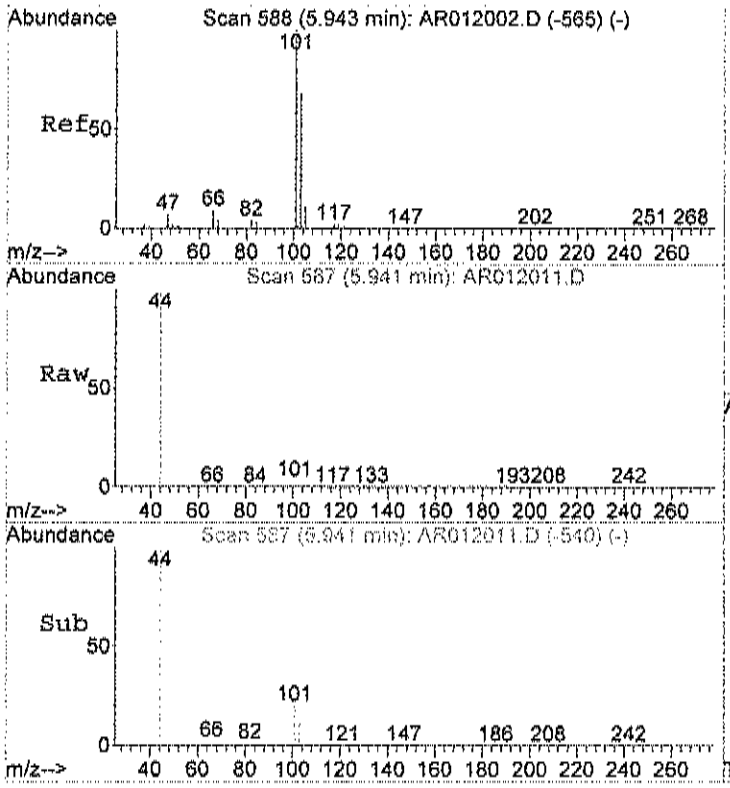


#4
Chloromethane
Concen: 0.56 ppb
RT: 4.47 min Scan# 96
Delta R.T. -0.01 min
Lab File: AR012011.D
Acq: 20 Jan 2020 6:12 pm

Tgt Ion: 50 Resp: 15084

Ion	Ratio	Lower	Upper
50	100		
52	34.5	6.1	46.1

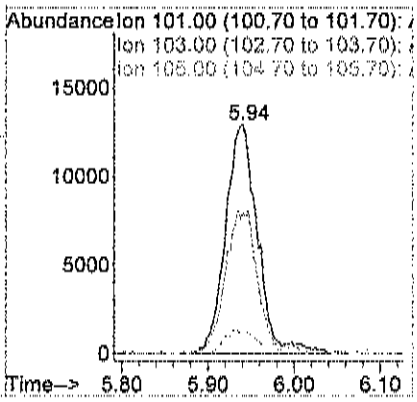


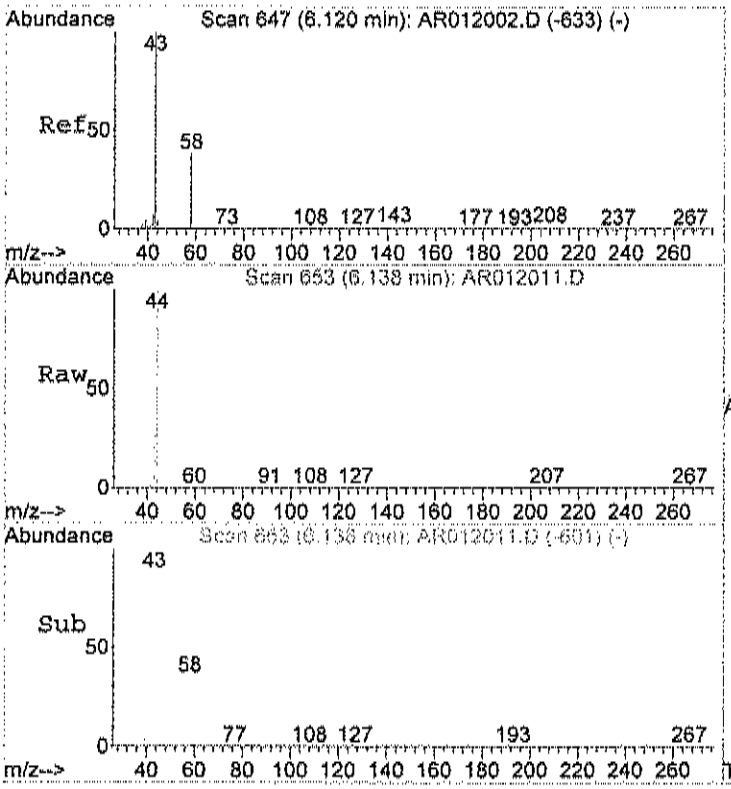


#14
Freon 11
Concen: 0.27 ppb
RT: 5.94 min Scan# 587
Delta R.T. -0.01 min
Lab File: AR012011.D
Acq: 20 Jan 2020 6:12 pm

Tgt Ion:101 Resp: 33444

Ion	Ratio	Lower	Upper
101	100		
103	64.8	44.2	84.2
105	11.6	0.0	30.3

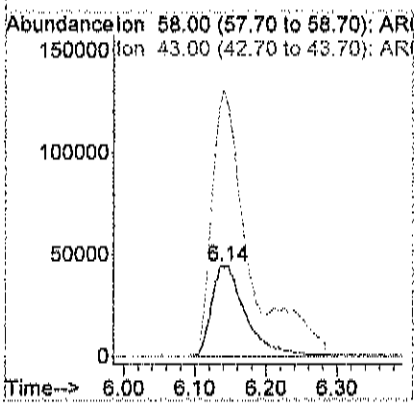


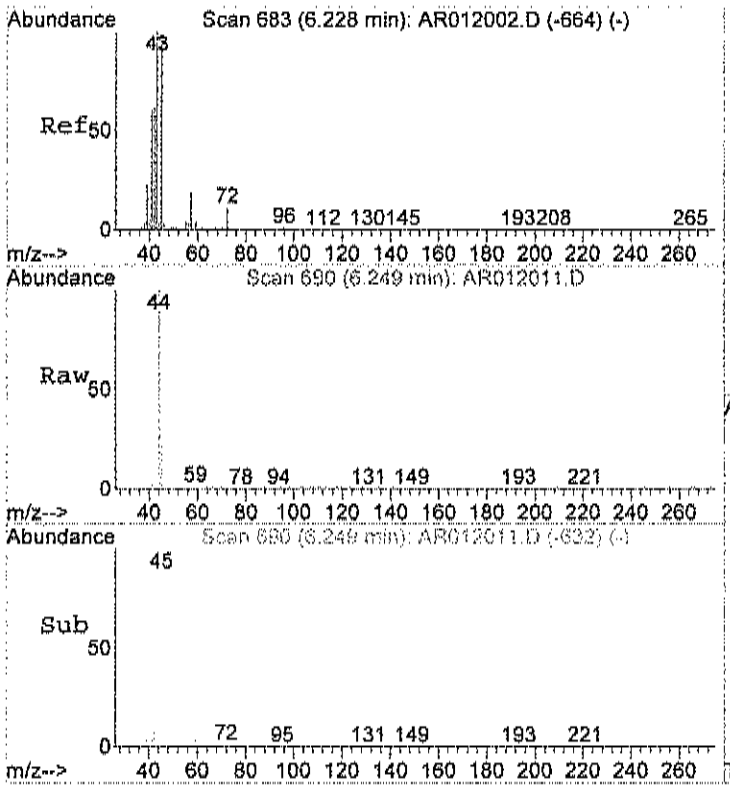


#15
Acetone
Concen: 5.66 ppb
RT: 6.14 min Scan# 653
Delta R.T. 0.01 min
Lab File: AR012011.D
Acq: 20 Jan 2020 6:12 pm

Tgt Ion: 58 Resp: 146920

Ion	Ratio	Lower	Upper
58	100		
43	318.8	0.0	30.0#

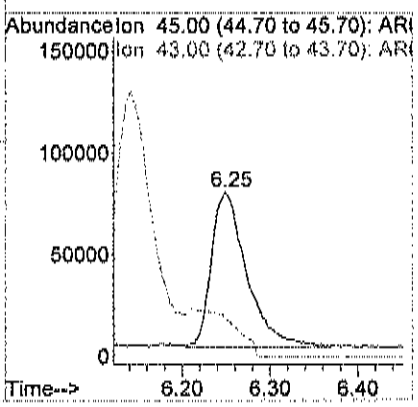


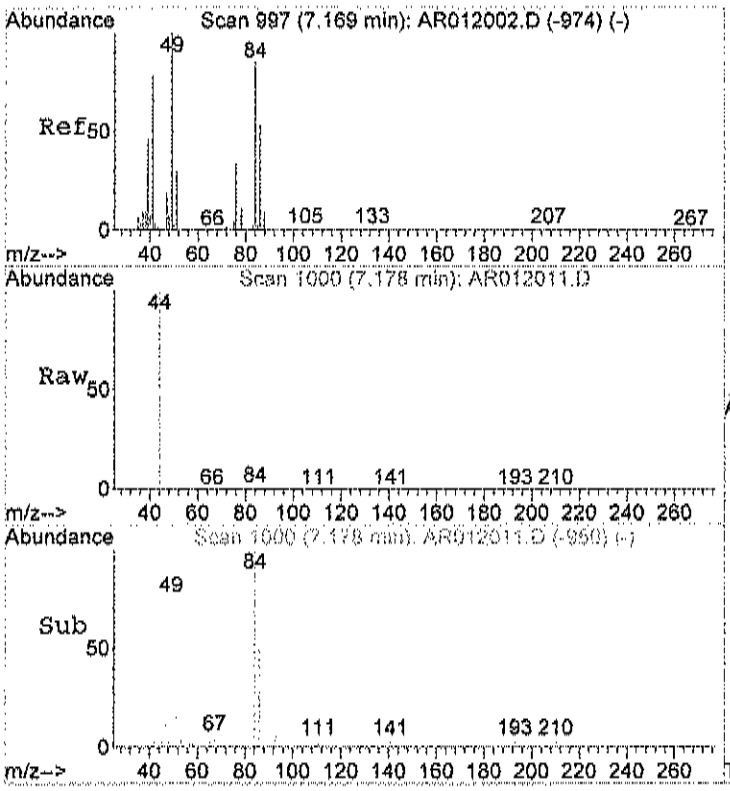


#17
Isopropyl alcohol
Concen: 2.56 ppb
RT: 6.25 min Scan# 690
Delta R.T. 0.02 min
Lab File: AR012011.D
Acq: 20 Jan 2020 6:12 pm

Tgt Ion: 45 Resp: 210636

Ion	Ratio	Lower	Upper
45	100		
43	0.0	196.5	236.5#

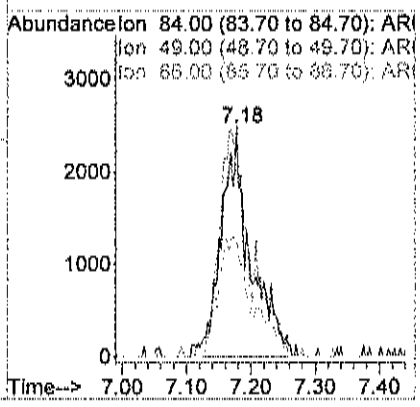


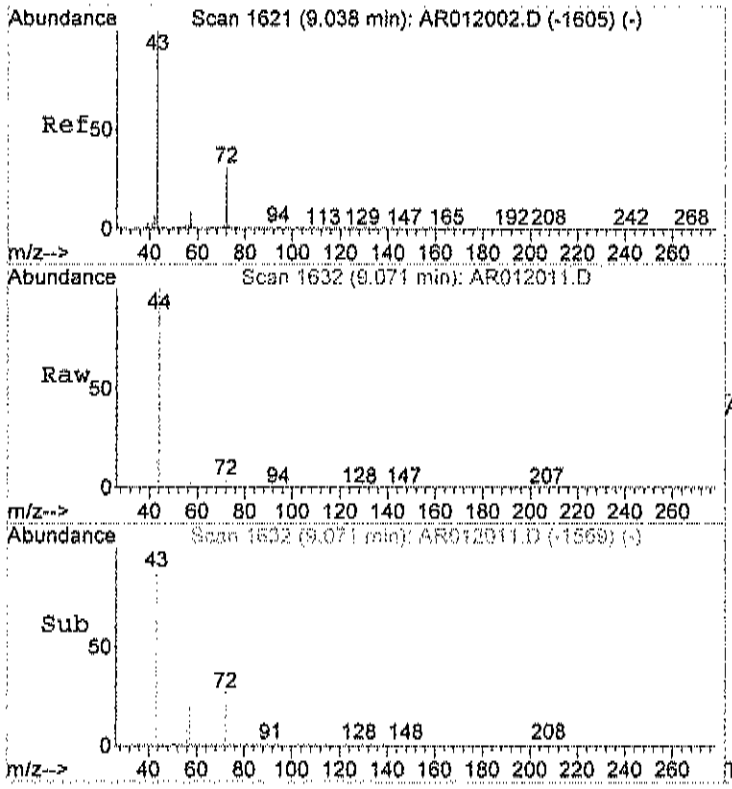


#21
Methylene chloride
Concen: 0.17 ppb m
RT: 7.18 min Scan# 1000
Delta R.T. -0.00 min
Lab File: AR012011.D
Acq: 20 Jan 2020 6:12 pm

Tgt Ion: 84 Resp: 7776

Ion	Ratio	Lower	Upper
84	100		
49	106.5	101.4	141.4
86	61.0	45.4	85.4

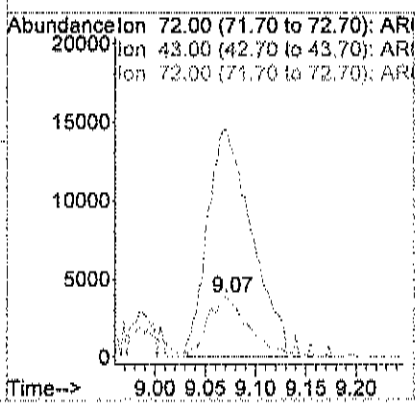


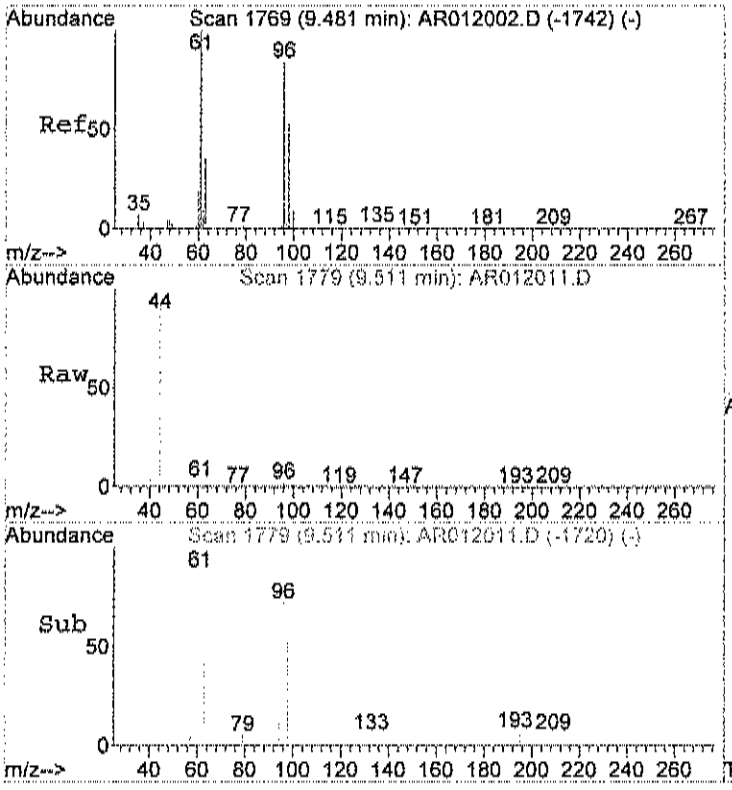


#28
Methyl Ethyl Ketone
Concen: 0.45 ppb
RT: 9.07 min Scan# 1632
Delta R.T. 0.04 min
Lab File: AR012011.D
Acq: 20 Jan 2020 6:12 pm

Tgt Ion: 72 Resp: 11173

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

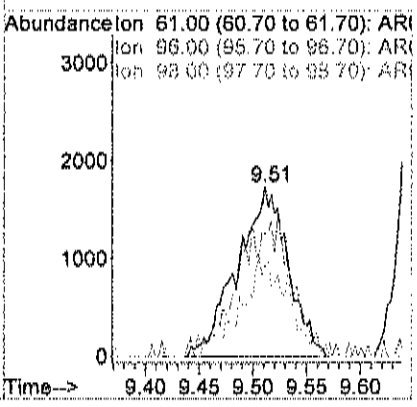


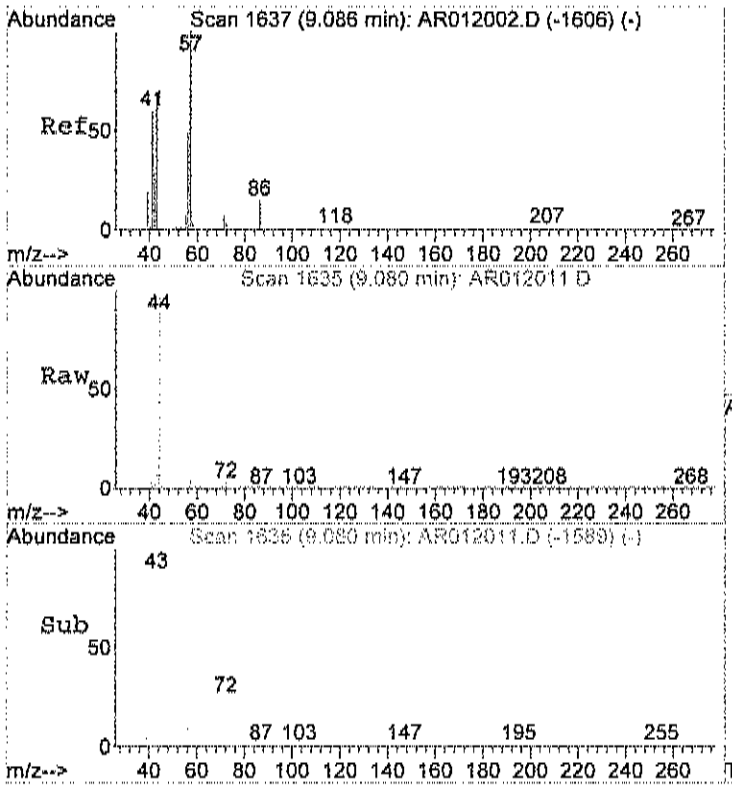


#29
cis-1,2-dichloroethene
Concen: 0.08 ppb
RT: 9.51 min Scan# 1779
Delta R.T. 0.03 min
Lab File: AR012011.D
Acq: 20 Jan 2020 6:12 pm

Tgt Ion: 61 Resp: 5664

Ion	Ratio	Lower	Upper
61	100		
96	86.7	57.9	97.9
98	54.2	28.8	68.8

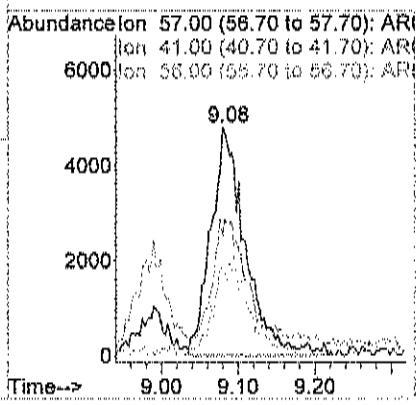


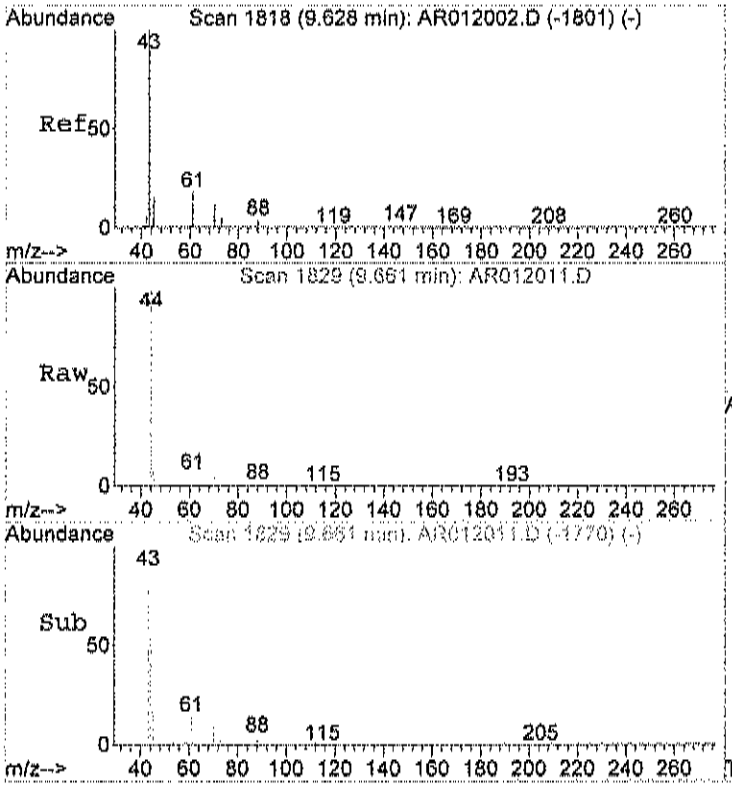


#30
Hexane
Concen: 0.17 ppb
RT: 9.08 min Scan# 1635
Delta R.T. -0.01 min
Lab File: AR012011.D
Acq: 20 Jan 2020 6:12 pm

Tgt Ion: 57 Resp: 15120

Ion	Ratio	Lower	Upper
57	100		
41	60.4	55.7	95.7
56	42.7	32.4	72.4

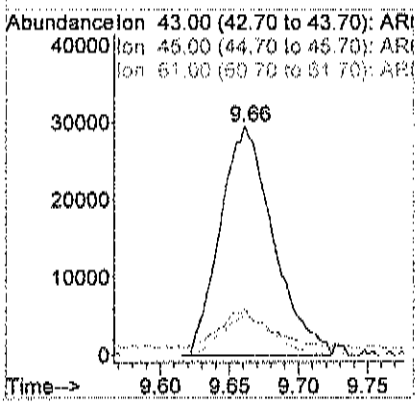


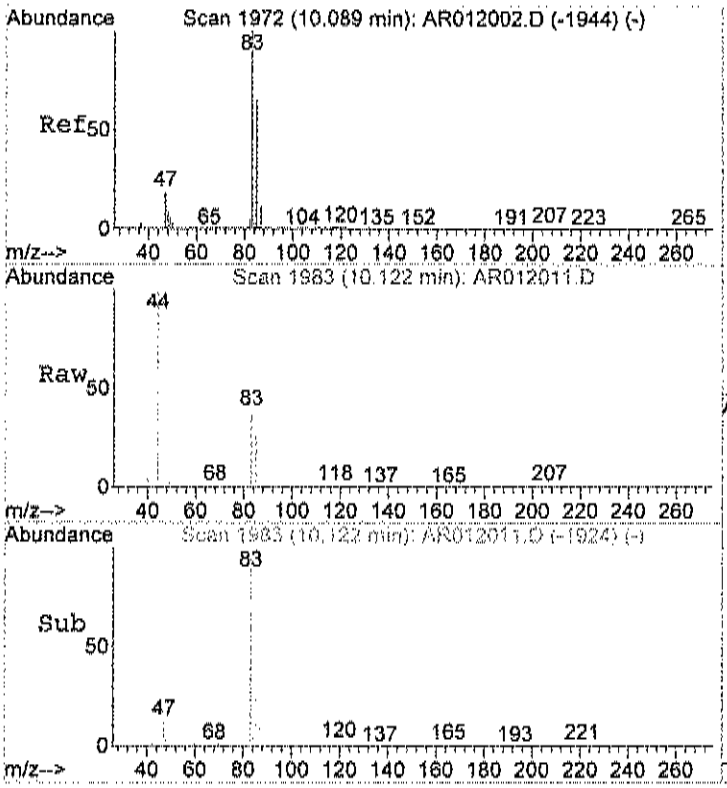


#31
Ethyl acetate
Concen: 0.70 ppb
RT: 9.66 min Scan# 1829
Delta R.T. 0.03 min
Lab File: AR012011.D
Acq: 20 Jan 2020 6:12 pm

Tgt Ion: 43 Resp: 78628

Ion	Ratio	Lower	Upper
43	100		
45	18.3	0.0	34.5
61	17.0	0.0	35.8

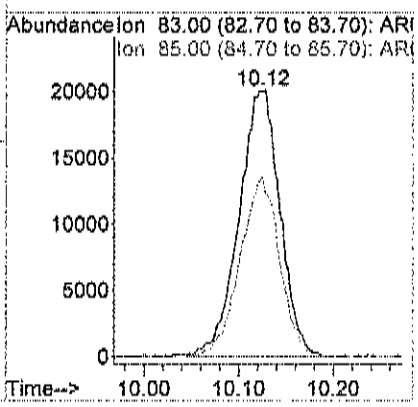


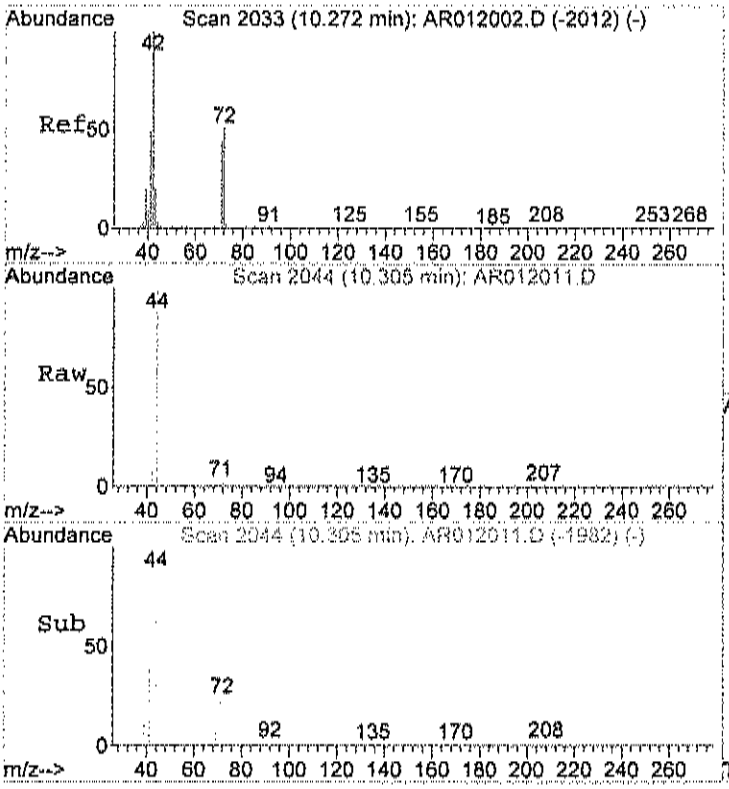


#32
Chloroform
Concen: 0.56 ppb
RT: 10.12 min Scan# 1983
Delta R.T. 0.03 min
Lab File: AR012011.D
Acq: 20 Jan 2020 6:12 pm

Tgt Ion: 83 Resp: 60383

Ion	Ratio	Lower	Upper
83	100		
85	65.2	46.5	86.5

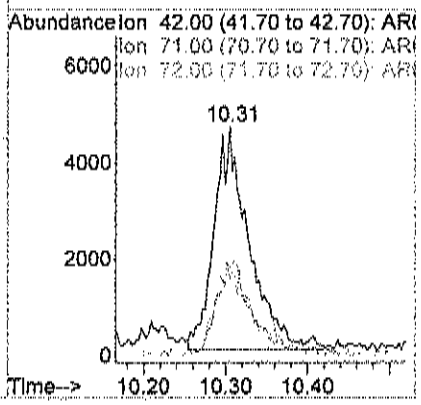


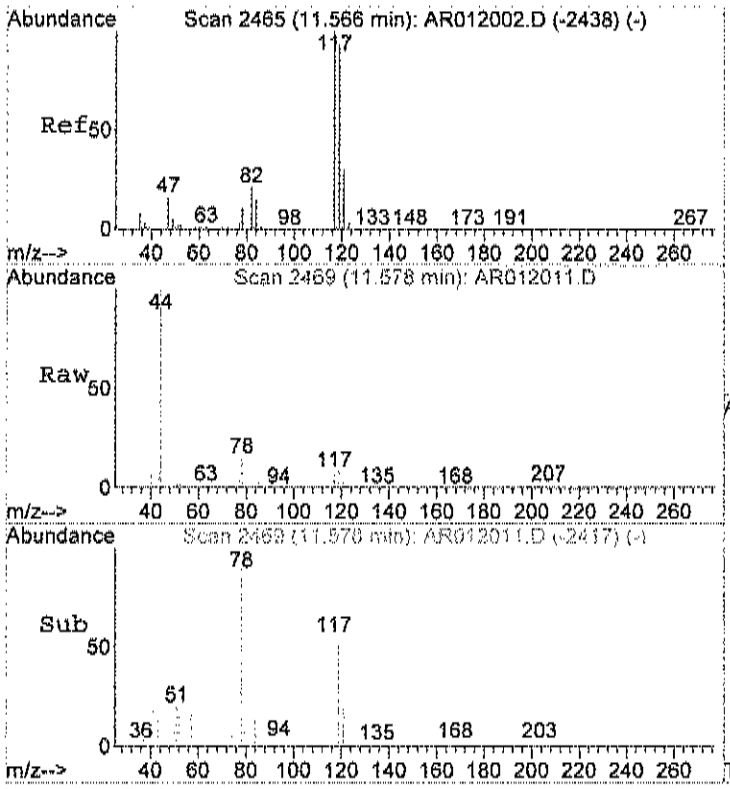


#33
Tetrahydrofuran
Concen: 0.27 ppb
RT: 10.31 min Scan# 2044
Delta R.T. 0.04 min
Lab File: AR012011.D
Acq: 20 Jan 2020 6:12 pm

Tgt Ion: 42 Resp: 13645

Ion	Ratio	Lower	Upper
42	100		
71	42.9	25.1	65.1
72	45.6	23.3	63.3

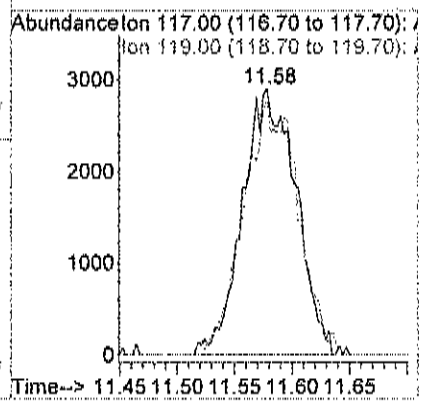


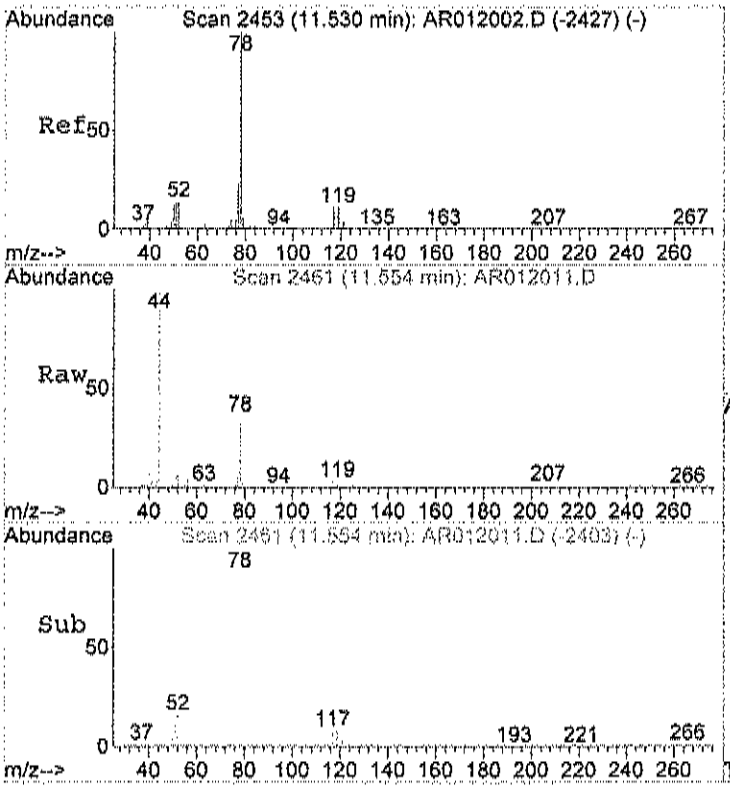


#38
Carbon tetrachloride
Concen: 0.08 ppb
RT: 11.58 min Scan# 2469
Delta R.T. 0.01 min
Lab File: AR012011.D
Acq: 20 Jan 2020 6:12 pm

Tgt Ion:117 Resp: 9306

Ion	Ratio	Lower	Upper
117	100		
119	97.4	75.6	115.6

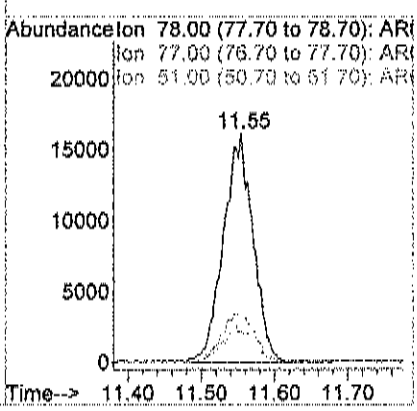


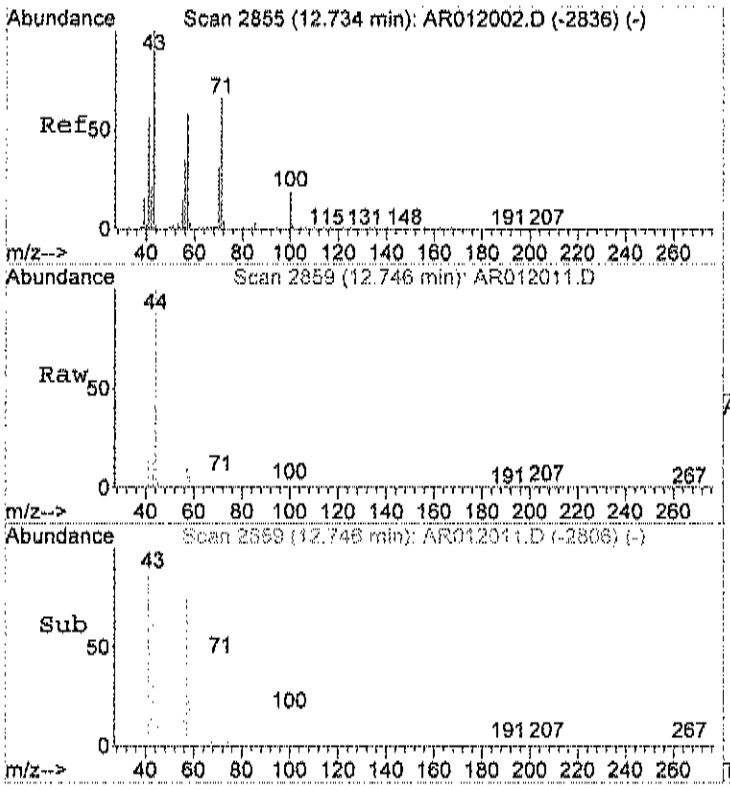


#39
Benzene
Concen: 0.29 ppb
RT: 11.55 min Scan# 2461
Delta R.T. 0.02 min
Lab File: AR012011.D
Acq: 20 Jan 2020 6:12 pm

Tgt Ion: 78 Resp: 45780

Ion	Ratio	Lower	Upper
78	100		
77	24.3	4.1	44.1
51	17.4	0.0	36.8

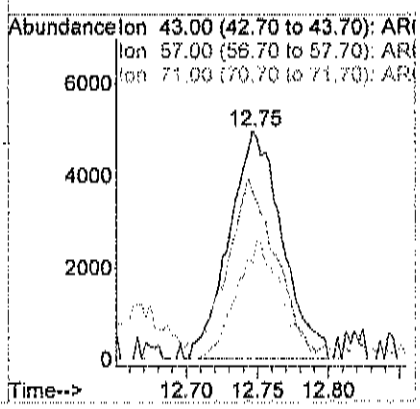


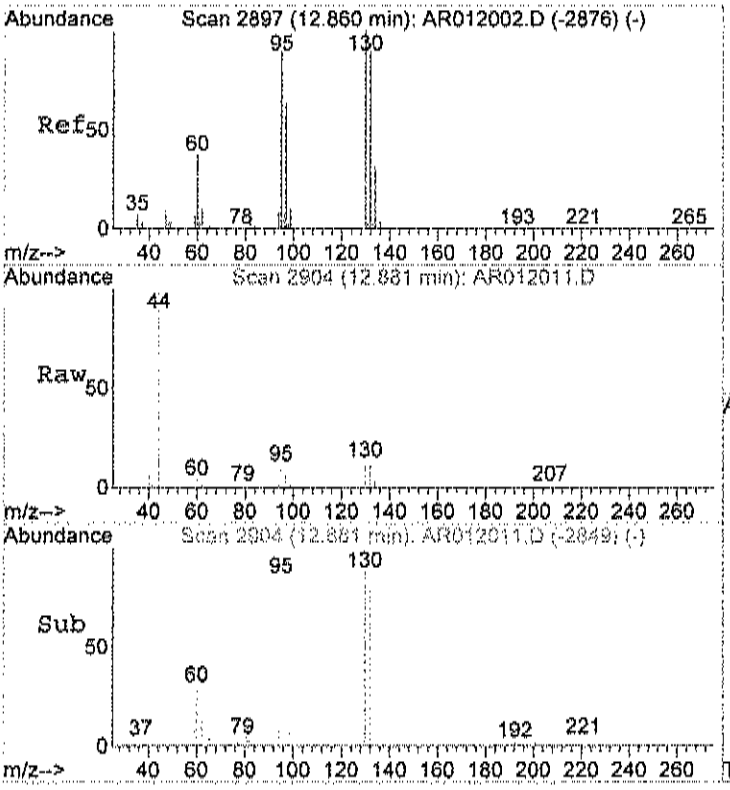


#43
Heptane
Concen: 0.14 ppb
RT: 12.75 min Scan# 2859
Delta R.T. 0.01 min
Lab File: AR012011.D
Acq: 20 Jan 2020 6:12 pm

Tgt Ion: 43 Resp: 12939

Ion	Ratio	Lower	Upper
43	100		
57	78.8	36.0	76.0#
71	44.3	42.5	82.5

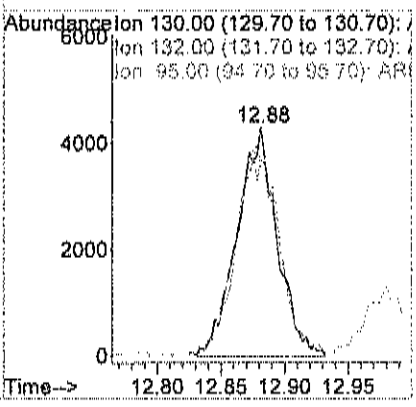


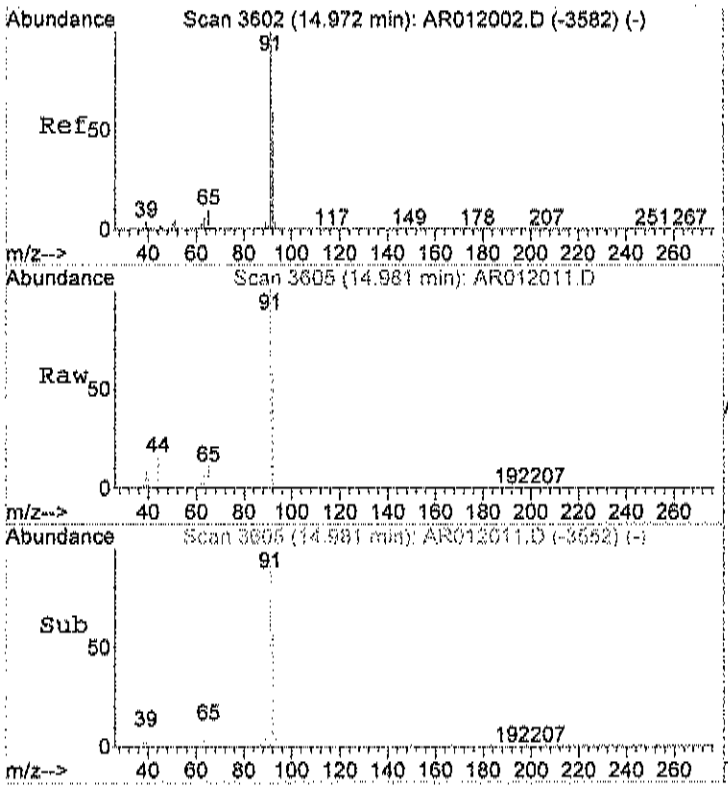


#44
Trichloroethene
Concen: 0.14 ppb
RT: 12.88 min Scan# 2904
Delta R.T. 0.01 min
Lab File: AR012011.D
Acq: 20 Jan 2020 6:12 pm

Tgt Ion:130 Resp: 9361

Ion	Ratio	Lower	Upper
130	100		
132	98.6	76.9	116.9
95	99.9	78.6	118.6

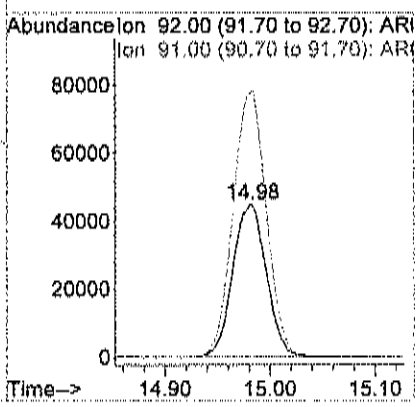


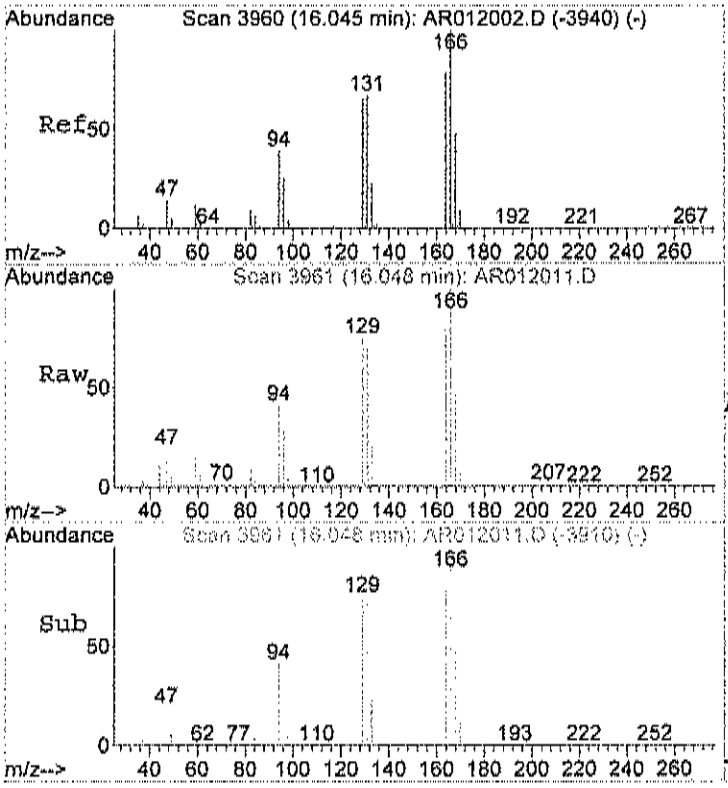


#51
Toluene
Concen: 0.88 ppb
RT: 14.98 min Scan# 3605
Delta R.T. 0.01 min
Lab File: AR012011.D
Acq: 20 Jan 2020 6:12 pm

Tgt Ion: 92 Resp: 99753

Ion	Ratio	Lower	Upper
92	100		
91	174.3	154.5	194.5

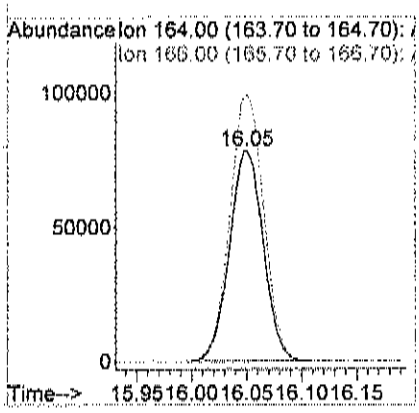


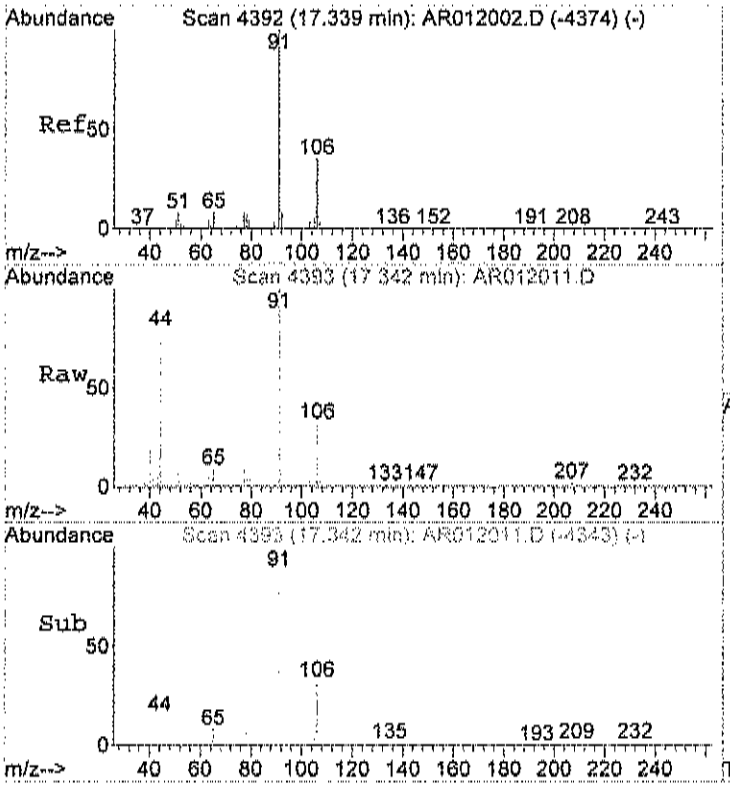


#56
Tetrachloroethylene
Concen: 2.27 ppb
RT: 16.05 min Scan# 3961
Delta R.T. 0.00 min
Lab File: AR012011.D
Acq: 20 Jan 2020 6:12 pm

Tgt Ion:164 Resp: 167216

Ion	Ratio	Lower	Upper
164	100		
166	127.4	106.4	146.4

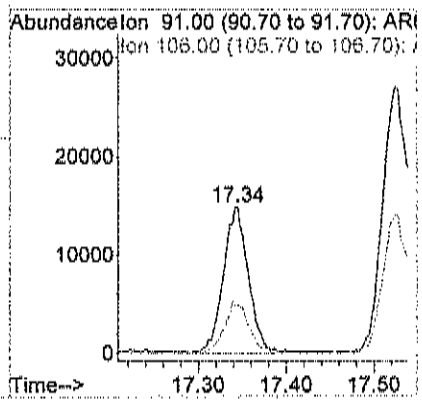


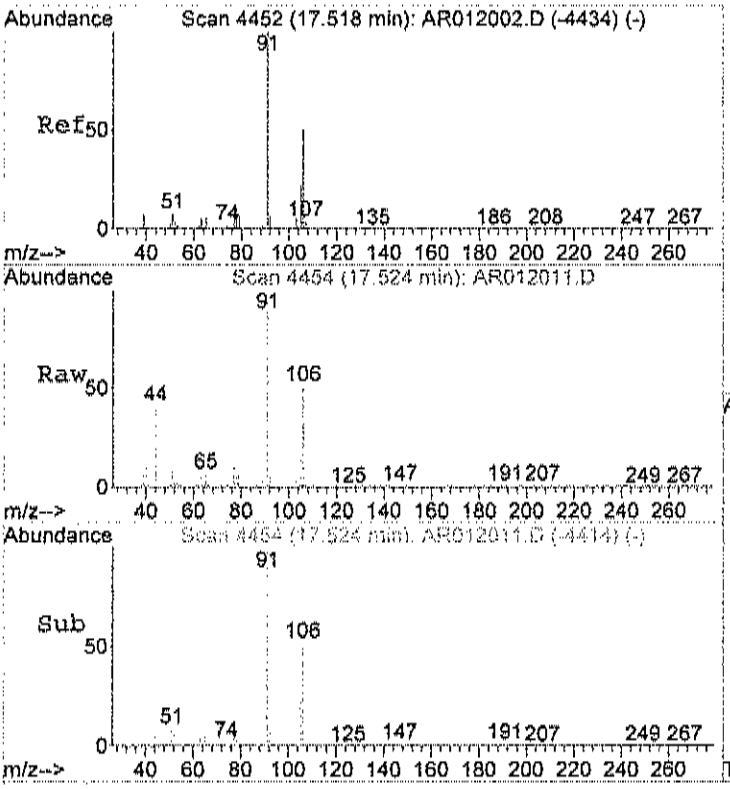


#58
Ethylbenzene
Concen: 0.12 ppb
RT: 17.34 min Scan# 4393
Delta R.T. -0.00 min
Lab File: AR012011.D
Acq: 20 Jan 2020 6:12 pm

Tgt Ion: 91 Resp: 29866

Ion	Ratio	Lower	Upper
91	100		
106	33.1	11.7	51.7

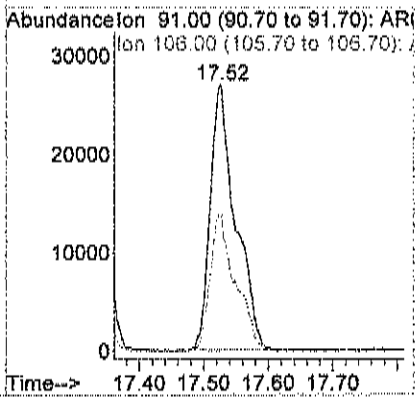


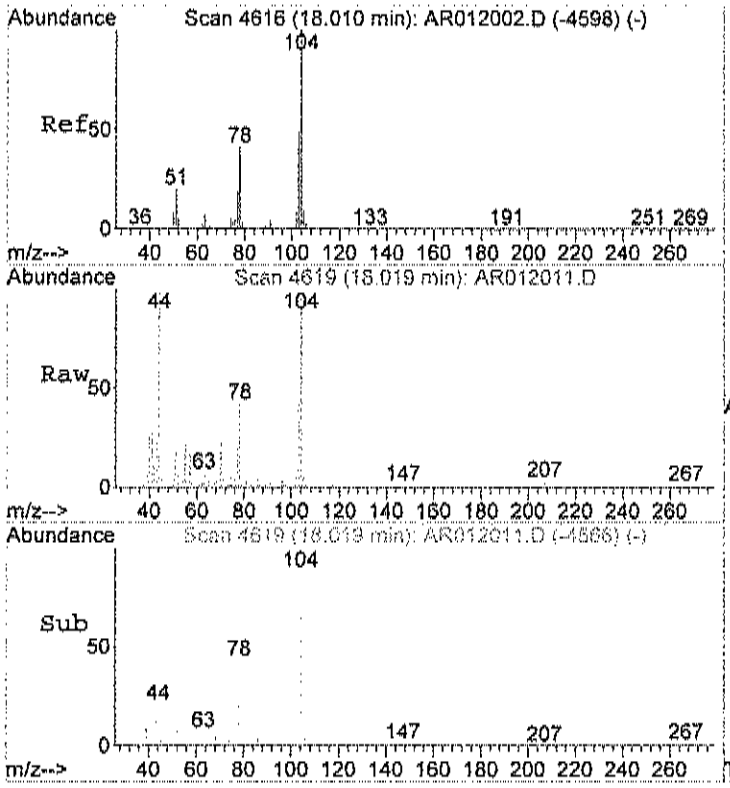


#59
m&p-xylene
Concen: 0.39 ppb
RT: 17.52 min Scan# 4454
Delta R.T. -0.03 min
Lab File: AR012011.D
Acq: 20 Jan 2020 6:12 pm

Tgt Ion: 91 Resp: 74285

Ion	Ratio	Lower	Upper
91	100		
106	51.5	29.0	69.0

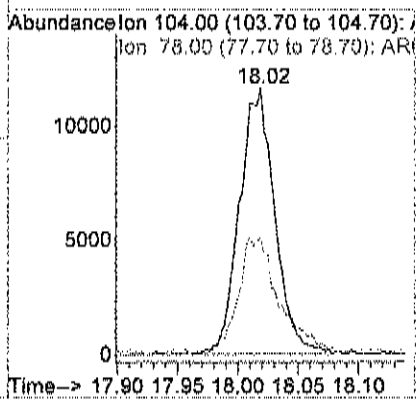


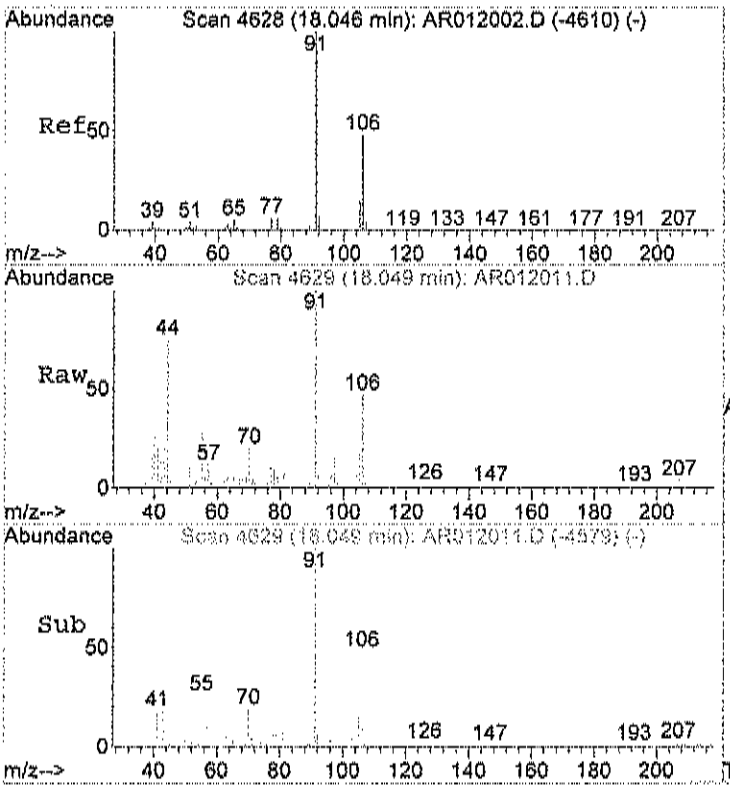


#61
Styrene
Concen: 0.17 ppb
RT: 18.02 min Scan# 4619
Delta R.T. 0.01 min
Lab File: AR012011.D
Acq: 20 Jan 2020 6:12 pm

Tgt Ion:104 Resp: 23635

Ion	Ratio	Lower	Upper
104	100		
78	51.5	34.7	74.7

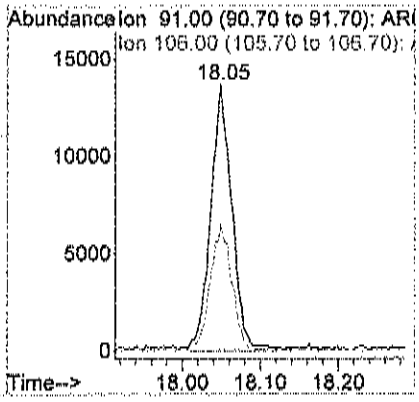




#63
o-xylene
Concen: 0.13 ppb
RT: 18.05 min Scan# 4629
Delta R.T. -0.00 min
Lab File: AR012011.D
Acq: 20 Jan 2020 6:12 pm

Tgt Ion: 91 Resp: 26322

Ion	Ratio	Lower	Upper
91	100		
106	46.9	26.2	66.2



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012022.D Vial: 22
Acq On : 21 Jan 2020 2:43 am Operator: RJP
Sample : C2001030-002A 10x Inst : MSD #1
Misc : A116_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 21 08:35:28 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 11:14:36 2020
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	9.94	128	40404	1.00 ppb	0.00
35) 1,4-difluorobenzene	12.21	114	192104	1.00 ppb	0.00
50) Chlorobenzene-d5	17.01	117	161527	1.00 ppb	0.00
System Monitoring Compounds					
65) Bromofluorobenzene	18.75	95	104769	0.97 ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97.00%		
Target Compounds					Qvalue
15) Acetone	6.14	58	14660	0.62 ppb #	100
17) Isopropyl alcohol	6.25	45	24362	0.33 ppb #	1
56) Tetrachloroethylene	16.04	164	15386	0.24 ppb	95

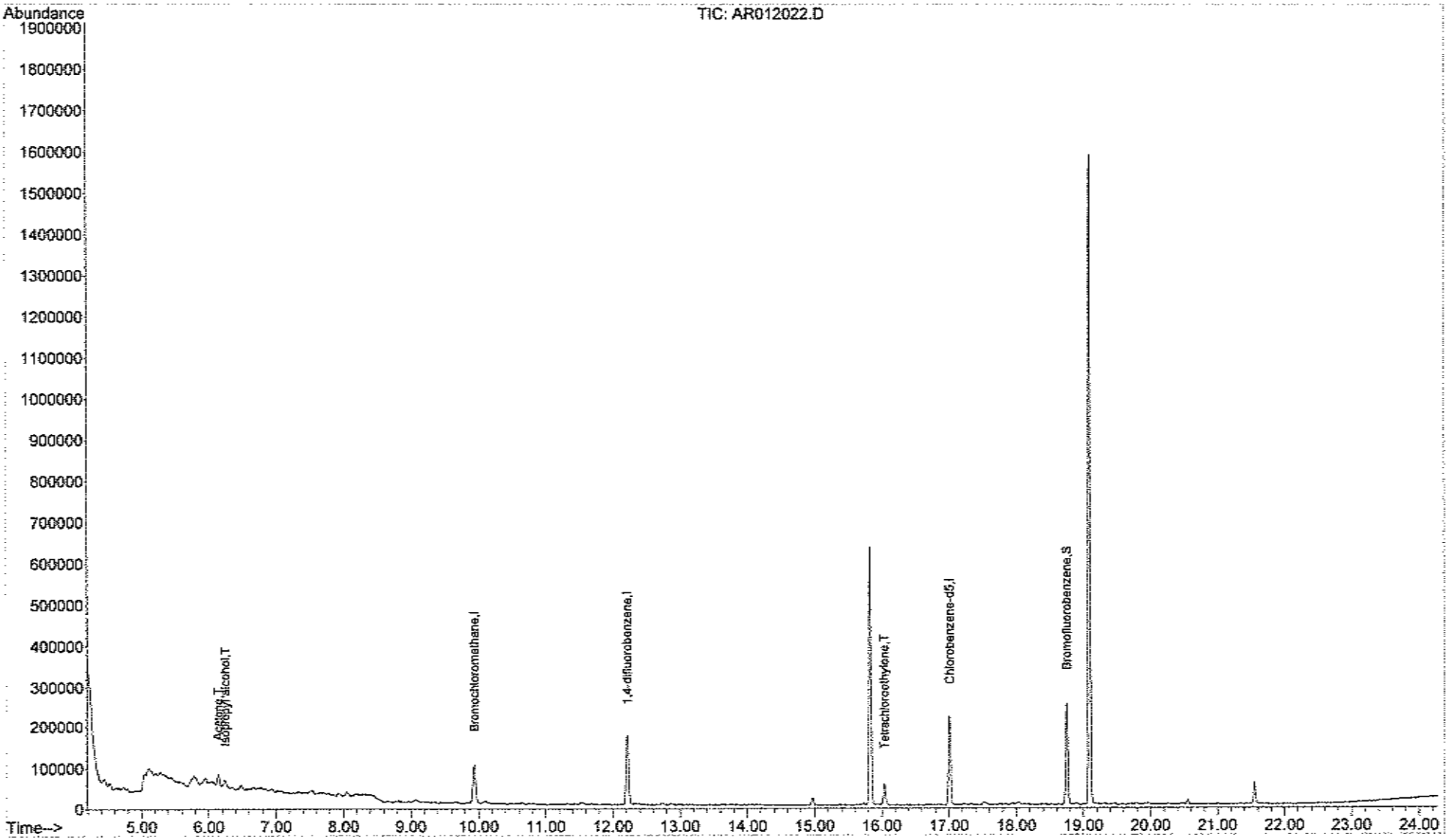
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012022.D
Acq On : 21 Jan 2020 2:43 am
Sample : C2001030-002A 10x
Misc : A116_1UG
MS Integration Params: RTEINT.P
Quant Time: Jan 23 12:20 2020

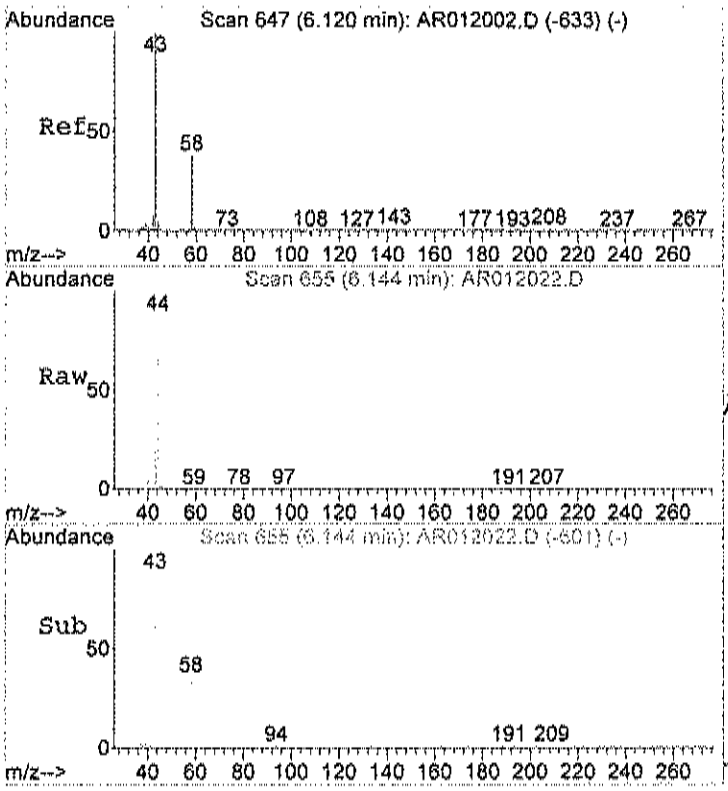
Vial: 22
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A116_1UG.RES

Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
Response via : Initial Calibration



AR012022.D A116_1UG.M Wed Feb 05 10:02:52 2020 MSD1

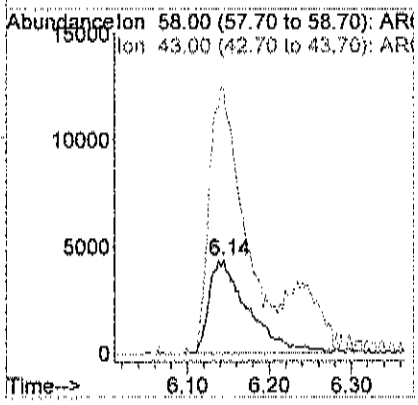
Centek Laboratories, LLC

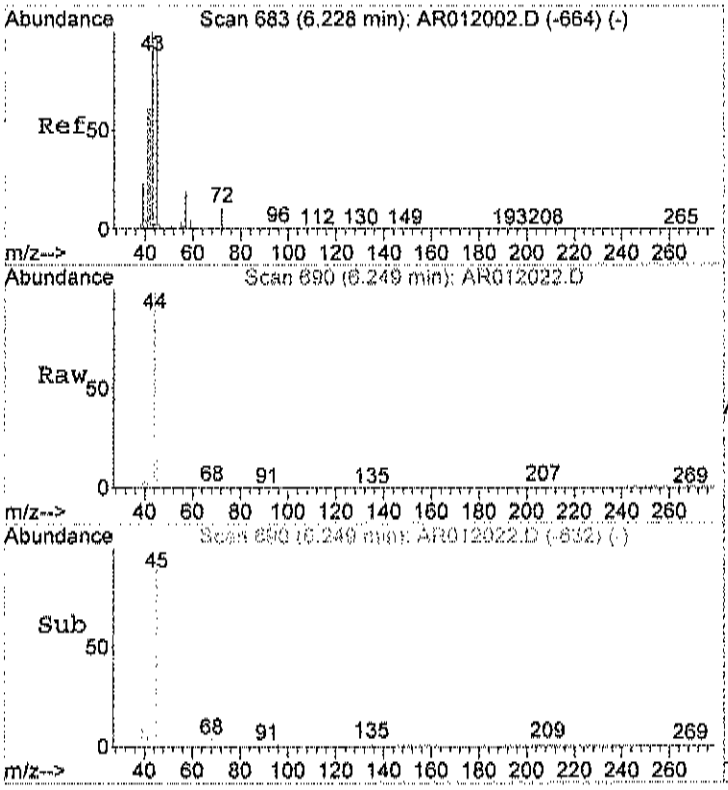


#15
Acetone
Concen: 0.62 ppb
RT: 6.14 min Scan# 655
Delta R.T. 0.01 min
Lab File: AR012022.D
Acq: 21 Jan 2020 2:43 am

Tgt Ion: 58 Resp: 14660

Ion	Ratio	Lower	Upper
58	100		
43	316.1	0.0	30.0#

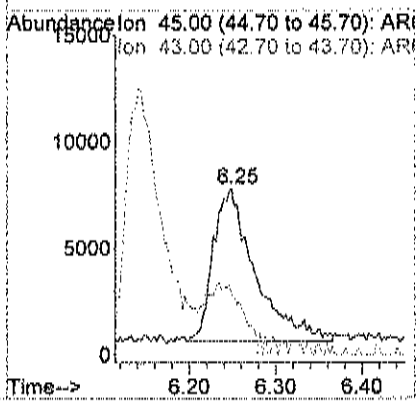


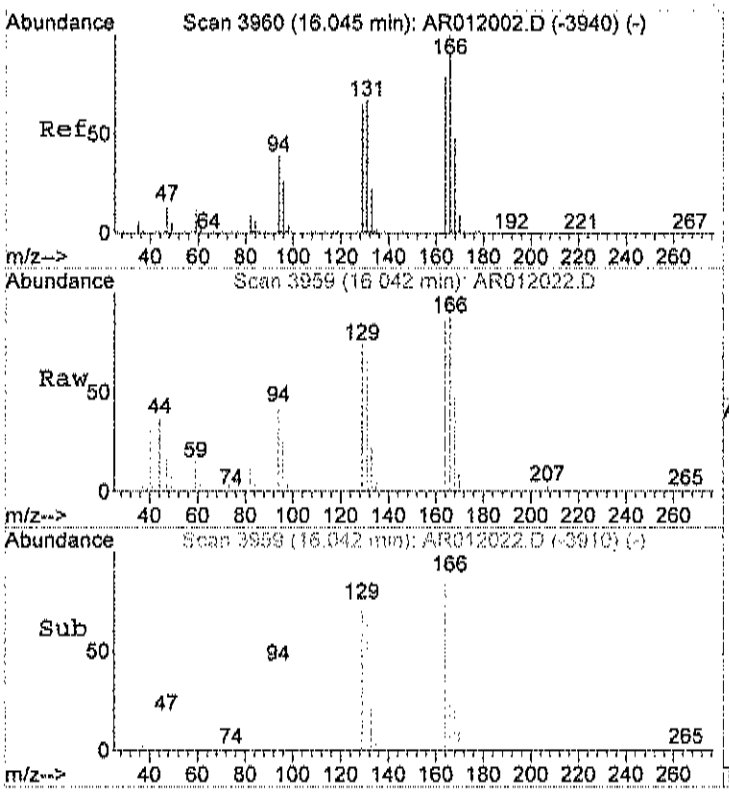


#17
Isopropyl alcohol
Concen: 0.33 ppb
RT: 6.25 min Scan# 690
Delta R.T. 0.02 min
Lab File: AR012022.D
Acq: 21 Jan 2020 2:43 am

Tgt Ion: 45 Resp: 24362

Ion	Ratio	Lower	Upper
45	100		
43	0.0	196.5	236.5#

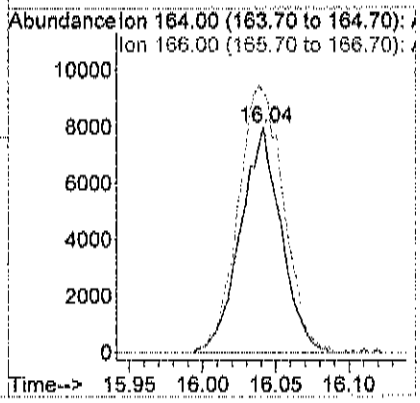




#56
Tetrachloroethylene
Concen: 0.24 ppb
RT: 16.04 min Scan# 3959
Delta R.T. -0.00 min
Lab File: AR012022.D
Acq: 21 Jan 2020 2:43 am

Tgt Ion:164 Resp: 15386

Ion	Ratio	Lower	Upper
164	100		
166	132.5	106.4	146.4



Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A1-Indoor
Lab Order:	C2001030	**Tag Number:**	1178,434
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-003A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-1			"Hg		1/20/2020
Lab Vacuum Out	-30			"Hg		1/20/2020
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	1/20/2020 6:59:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	1/20/2020 6:59:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
1,2,4-Trimethylbenzene	0.18	0.15		ppbV	1	1/20/2020 6:59:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
1,3,5-Trimethylbenzene	0.11	0.15	J	ppbV	1	1/20/2020 6:59:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/20/2020 6:59:00 PM
2,2,4-trimethylpentane	0.12	0.15	J	ppbV	1	1/20/2020 6:59:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Acetone	19	3.0		ppbV	10	1/21/2020 3:28:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Benzene	0.91	0.15		ppbV	1	1/20/2020 6:59:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Carbon tetrachloride	0.090	0.030		ppbV	1	1/20/2020 6:59:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Chloroform	0.33	0.15		ppbV	1	1/20/2020 6:59:00 PM
Chloromethane	1.3	0.15		ppbV	1	1/20/2020 6:59:00 PM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	1/20/2020 6:59:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Ethyl acetate	1.9	0.15		ppbV	1	1/20/2020 6:59:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A1-Indoor
Lab Order:	C2001030	**Tag Number:**	1178,434
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-003A	**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	0.24	0.15		ppbV	1	1/20/2020 6:59:00 PM
Freon 11	0.23	0.15		ppbV	1	1/20/2020 6:59:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Freon 12	0.58	0.15		ppbV	1	1/20/2020 6:59:00 PM
Heptane	0.51	0.15		ppbV	1	1/20/2020 6:59:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Hexane	0.53	0.15		ppbV	1	1/20/2020 6:59:00 PM
Isopropyl alcohol	20	1.5		ppbV	10	1/21/2020 3:28:00 AM
m&p-Xylene	0.78	0.30		ppbV	1	1/20/2020 6:59:00 PM
Methyl Butyl Ketone	0.14	0.30	J	ppbV	1	1/20/2020 6:59:00 PM
Methyl Ethyl Ketone	1.5	0.30		ppbV	1	1/20/2020 6:59:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/20/2020 6:59:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Methylene chloride	0.22	0.15		ppbV	1	1/20/2020 6:59:00 PM
o-Xylene	0.24	0.15		ppbV	1	1/20/2020 6:59:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Styrene	0.24	0.15		ppbV	1	1/20/2020 6:59:00 PM
Tetrachloroethylene	0.10	0.15	J	ppbV	1	1/20/2020 6:59:00 PM
Tetrahydrofuran	0.44	0.15		ppbV	1	1/20/2020 6:59:00 PM
Toluene	2.8	1.5		ppbV	10	1/21/2020 3:28:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Trichloroethene	< 0.030	0.030		ppbV	1	1/20/2020 6:59:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/20/2020 6:59:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	1/20/2020 6:59:00 PM
Surr: Bromofluorobenzene	101	70-130		%REC	1	1/20/2020 6:59:00 PM

Qualifiers:				
	SC	Sub-Contracted	.	Results reported are not blank corrected
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	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A1-Indoor
Lab Order:	C2001030	**Tag Number:**	1178,434
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-003A	**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	1/20/2020 6:59:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/20/2020 6:59:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	1/20/2020 6:59:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	1/20/2020 6:59:00 PM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 6:59:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/20/2020 6:59:00 PM
1,2,4-Trimethylbenzene	0.88	0.74		ug/m3	1	1/20/2020 6:59:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/20/2020 6:59:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 6:59:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	1/20/2020 6:59:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	1/20/2020 6:59:00 PM
1,3,5-Trimethylbenzene	0.54	0.74	J	ug/m3	1	1/20/2020 6:59:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	1/20/2020 6:59:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 6:59:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 6:59:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/20/2020 6:59:00 PM
2,2,4-trimethylpentane	0.56	0.70	J	ug/m3	1	1/20/2020 6:59:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	1/20/2020 6:59:00 PM
Acetone	44	7.1		ug/m3	10	1/21/2020 3:28:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	1/20/2020 6:59:00 PM
Benzene	2.9	0.48		ug/m3	1	1/20/2020 6:59:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	1/20/2020 6:59:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/20/2020 6:59:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/20/2020 6:59:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	1/20/2020 6:59:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/20/2020 6:59:00 PM
Carbon tetrachloride	0.57	0.19		ug/m3	1	1/20/2020 6:59:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	1/20/2020 6:59:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/20/2020 6:59:00 PM
Chloroform	1.6	0.73		ug/m3	1	1/20/2020 6:59:00 PM
Chloromethane	2.7	0.31		ug/m3	1	1/20/2020 6:59:00 PM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 6:59:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/20/2020 6:59:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/20/2020 6:59:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/20/2020 6:59:00 PM
Ethyl acetate	6.8	0.54		ug/m3	1	1/20/2020 6:59:00 PM
Ethylbenzene	1.0	0.65		ug/m3	1	1/20/2020 6:59:00 PM
Freon 11	1.3	0.84		ug/m3	1	1/20/2020 6:59:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	1/20/2020 6:59:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	1/20/2020 6:59:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A1-Indoor
Lab Order:	C2001030	**Tag Number:**	1178,434
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-003A	**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	2.9	0.74		ug/m3	1	1/20/2020 6:59:00 PM
Heptane	2.1	0.61		ug/m3	1	1/20/2020 6:59:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/20/2020 6:59:00 PM
Hexane	1.9	0.53		ug/m3	1	1/20/2020 6:59:00 PM
Isopropyl alcohol	49	3.7		ug/m3	10	1/21/2020 3:28:00 AM
m&p-Xylene	3.4	1.3		ug/m3	1	1/20/2020 6:59:00 PM
Methyl Butyl Ketone	0.57	1.2	J	ug/m3	1	1/20/2020 6:59:00 PM
Methyl Ethyl Ketone	4.4	0.88		ug/m3	1	1/20/2020 6:59:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/20/2020 6:59:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	1/20/2020 6:59:00 PM
Methylene chloride	0.76	0.52		ug/m3	1	1/20/2020 6:59:00 PM
o-Xylene	1.0	0.65		ug/m3	1	1/20/2020 6:59:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/20/2020 6:59:00 PM
Styrene	1.0	0.64		ug/m3	1	1/20/2020 6:59:00 PM
Tetrachloroethylene	0.68	1.0	J	ug/m3	1	1/20/2020 6:59:00 PM
Tetrahydrofuran	1.3	0.44		ug/m3	1	1/20/2020 6:59:00 PM
Toluene	11	6.7		ug/m3	10	1/21/2020 3:28:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	1/20/2020 6:59:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/20/2020 6:59:00 PM
Trichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 6:59:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	1/20/2020 6:59:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	1/20/2020 6:59:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	1/20/2020 6:59:00 PM

Qualifiers:				
	SC	Sub-Contracted	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012012.D Vial: 12
Acq On : 20 Jan 2020 6:59 pm Operator: RJP
Sample : C2001030-003A Inst : MSD #1
Misc : A116_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 21 08:35:18 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 11:14:36 2020
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.97	128	44294	1.00	ppb		0.04
35) 1,4-difluorobenzene	12.23	114	209383	1.00	ppb		0.02
50) Chlorobenzene-d5	17.02	117	182705	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.76	95	123059	1.01	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery	= 101.00%			
Target Compounds							Qvalue
3) Freon 12	4.24	85	67144	0.58	ppb		97
4) Chloromethane	4.45	50	35824	1.33	ppb		85
14) Freon 11	5.93	101	28626	0.23	ppb		84
15) Acetone	6.15	58	473076	18.37	ppb	#	100
17) Isopropyl alcohol	6.25	45	1891781	23.17	ppb	#	1
21) Methylene chloride	7.23	84	10212	0.22	ppb		91
28) Methyl Ethyl Ketone	9.07	72	36796	1.50	ppb	#	100
30) Hexane	9.12	57	45760	0.53	ppb		93
31) Ethyl acetate	9.66	43	209091	1.89	ppb		99
32) Chloroform	10.13	83	35345	0.33	ppb		99
33) Tetrahydrofuran	10.31	42	22098m	0.44	ppb		
38) Carbon tetrachloride	11.59	117	9533	0.09	ppb		92
39) Benzene	11.56	78	139766	0.91	ppb		98
42) 2,2,4-trimethylpentane	12.41	57	30186m	0.12	ppb		
43) Heptane	12.75	43	46363	0.51	ppb	#	69
51) Toluene	14.98	92	317061	2.84	ppb		99
54) Methyl Butyl Ketone	15.41	43	11950	0.14	ppb	#	68
56) Tetrachloroethylene	16.05	164	7270	0.10	ppb		99
58) Ethylbenzene	17.34	91	59224	0.24	ppb		100
59) m&p-xylene	17.52	91	146827	0.78	ppb		98
61) Styrene	18.02	104	34148	0.24	ppb		95
63) o-xylene	18.05	91	46336	0.24	ppb		99
70) 1,3,5-trimethylbenzene	19.47	105	25089m	0.11	ppb		
71) 1,2,4-trimethylbenzene	19.97	105	39190	0.18	ppb		98

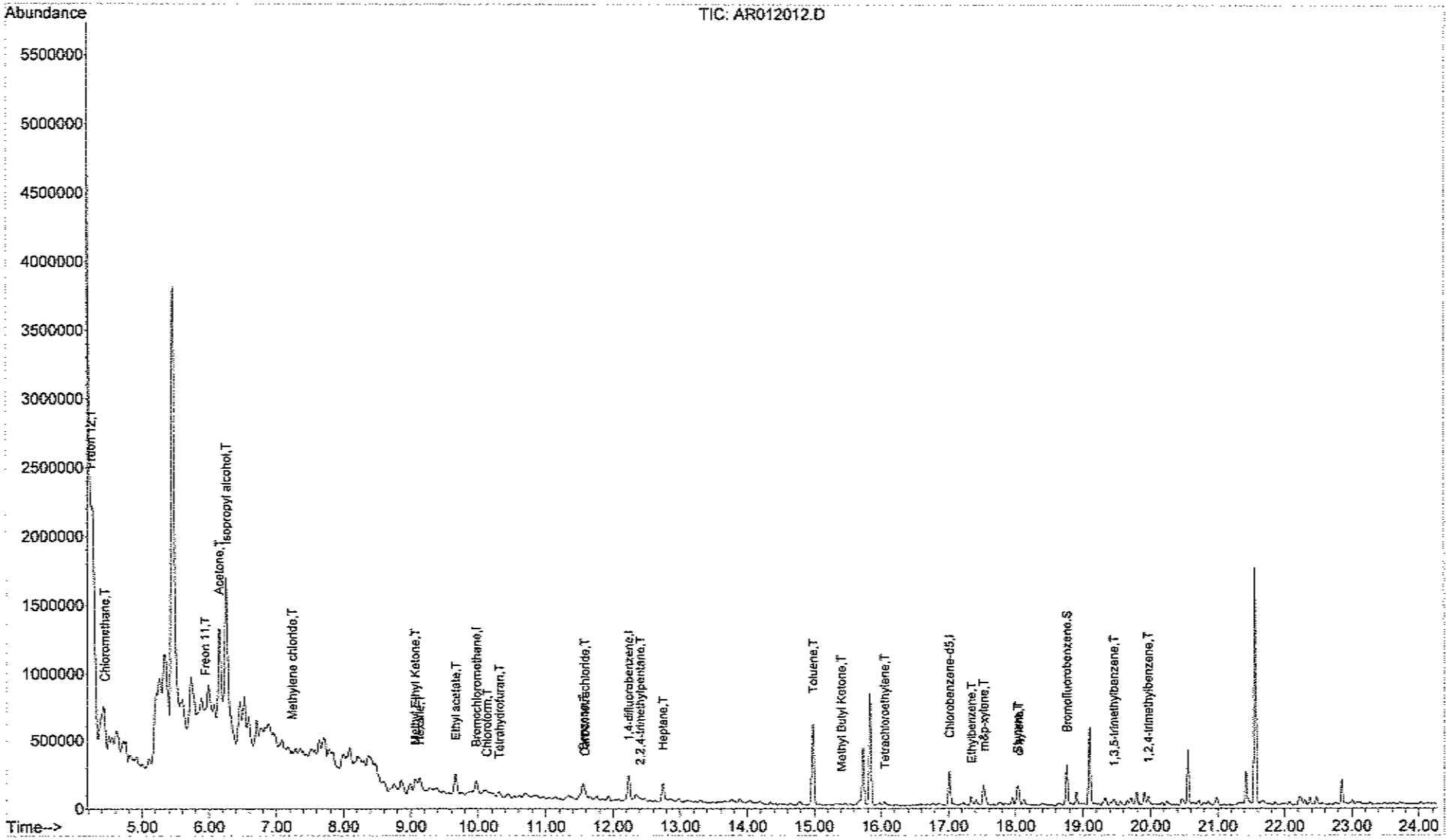
(#) = qualifier out of range (m) = manual integration (+) = signals summed

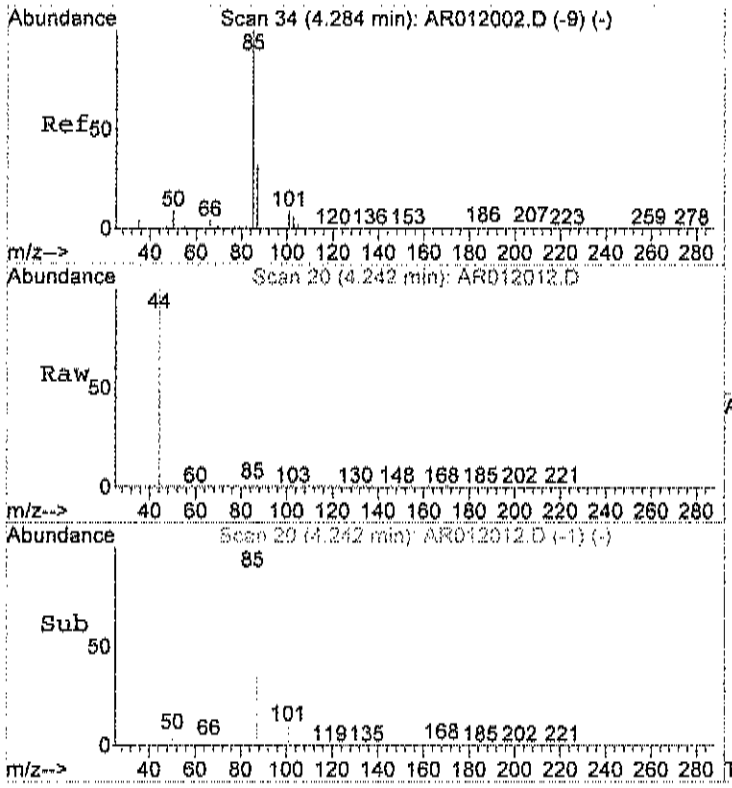
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012012.D
Acq On : 20 Jan 2020 6:59 pm
Sample : C2001030-003A
Misc : A116_1UG
MS Integration Params: RTEINT.P
Quant Time: Jan 23 8:48 2020

Vial: 12
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A116_1UG.RES

Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
Response via : Initial Calibration

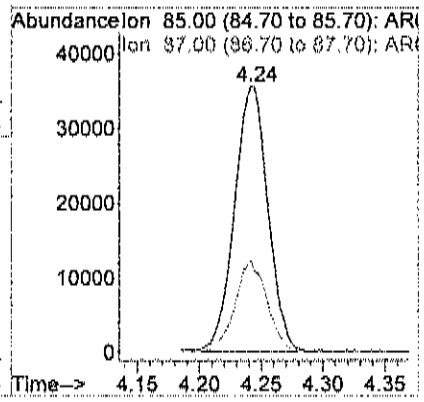


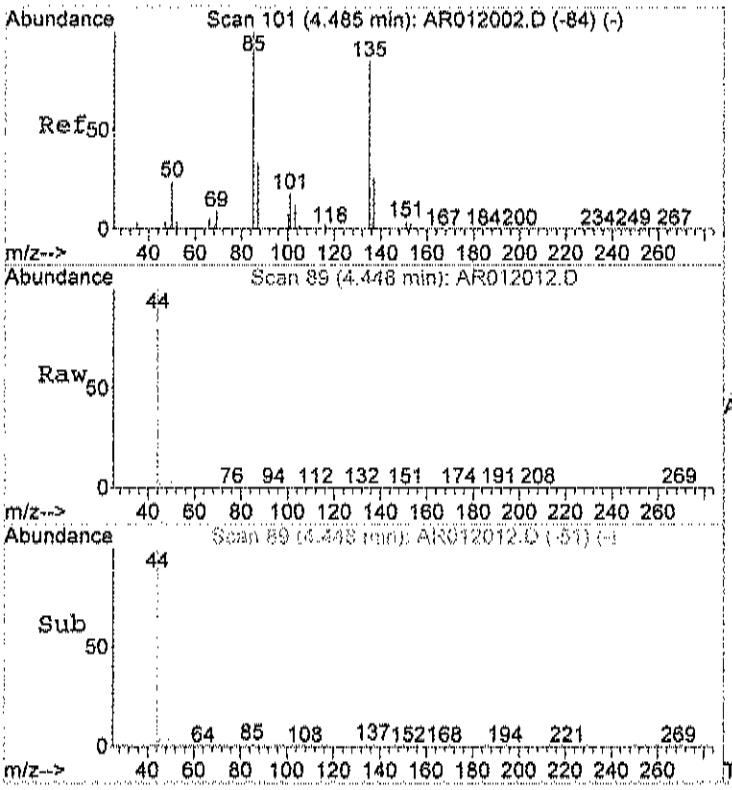


#3
Freon 12
Concen: 0.58 ppb
RT: 4.24 min Scan# 20
Delta R.T. -0.04 min
Lab File: AR012012.D
Acq: 20 Jan 2020 6:59 pm

Tgt Ion: 85 Resp: 67144

Ion	Ratio	Lower	Upper
85	100		
87	33.3	11.9	51.9

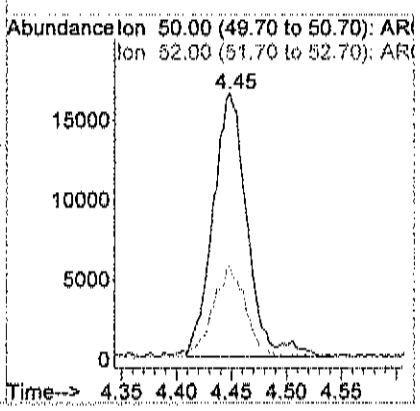


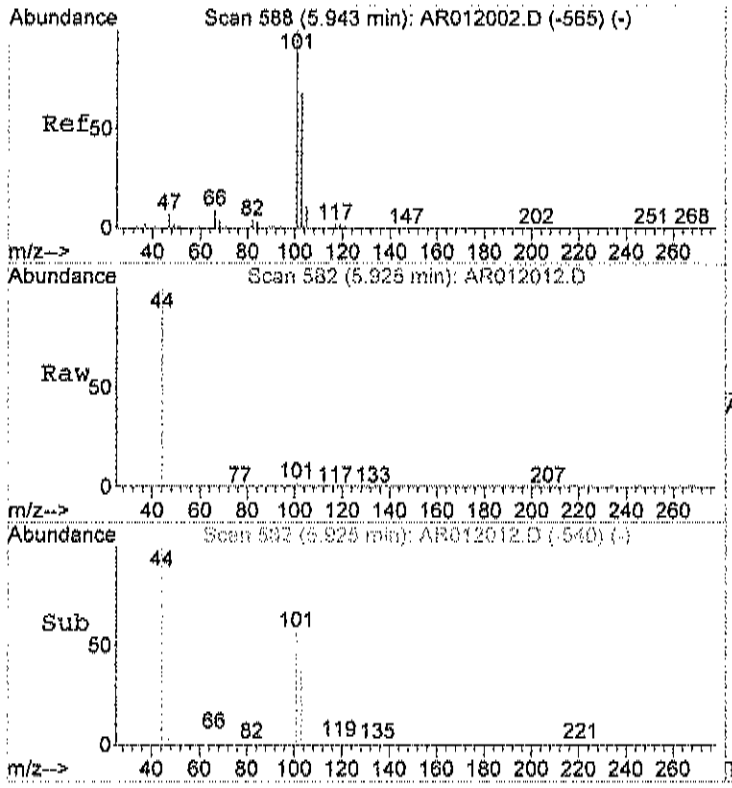


#4
Chloromethane
Concen: 1.33 ppb
RT: 4.45 min Scan# 89
Delta R.T. -0.04 min
Lab File: AR012012.D
Acq: 20 Jan 2020 6:59 pm

Tgt Ion: 50 Resp: 35824

Ion	Ratio	Lower	Upper
50	100		
52	33.6	6.1	46.1

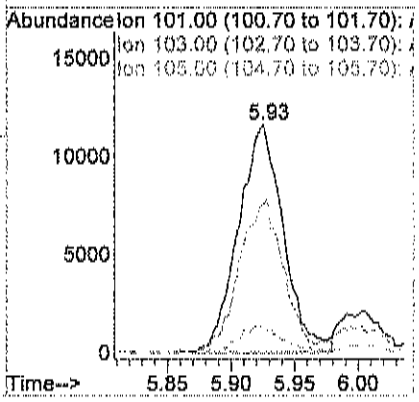


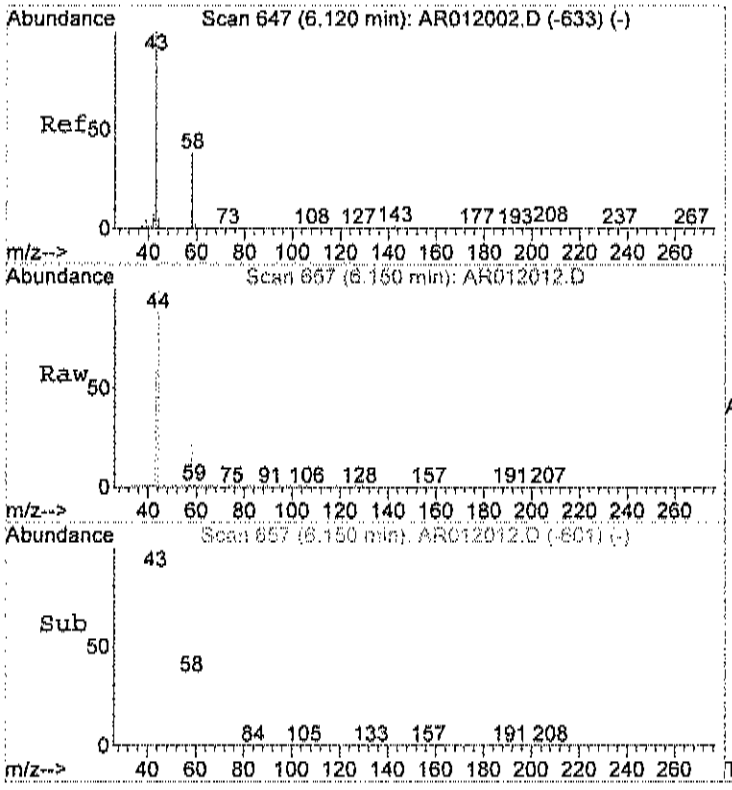


#14
Freon 11
Concen: 0.23 ppb
RT: 5.93 min Scan# 582
Delta R.T. -0.02 min
Lab File: AR012012.D
Acq: 20 Jan 2020 6:59 pm

Tgt Ion:101 Resp: 28626

Ion	Ratio	Lower	Upper
101	100		
103	78.1	44.2	84.2
105	12.5	0.0	30.3

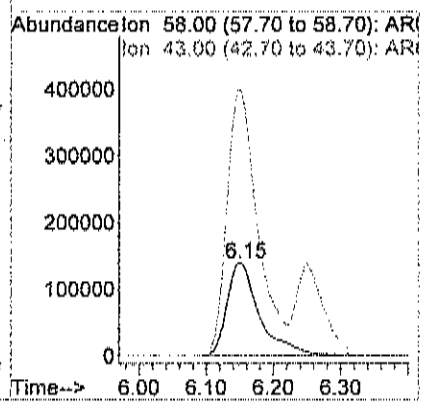


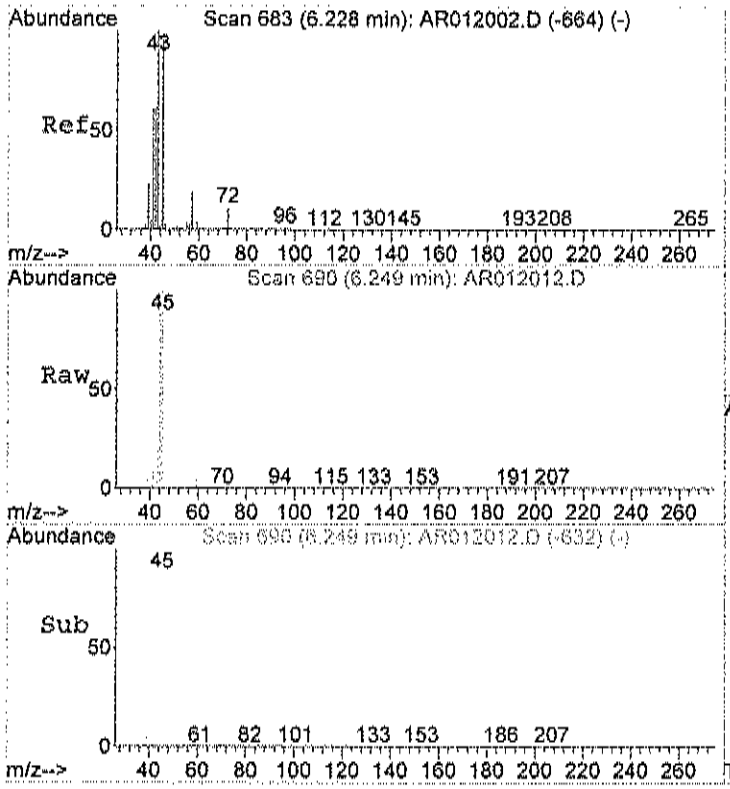


#15
Acetone
Concen: 18.37 ppb
RT: 6.15 min Scan# 657
Delta R.T. 0.02 min
Lab File: AR012012.D
Acq: 20 Jan 2020 6:59 pm

Tgt Ion: 58 Resp: 473076

Ion	Ratio	Lower	Upper
58	100		
43	348.1	0.0	30.0#

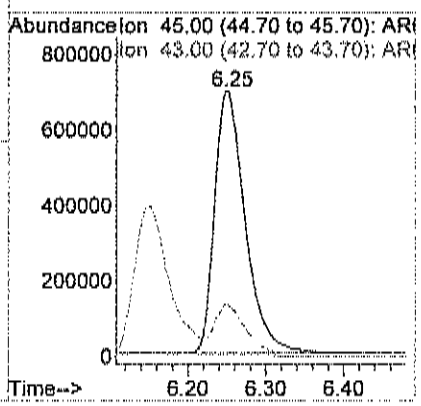


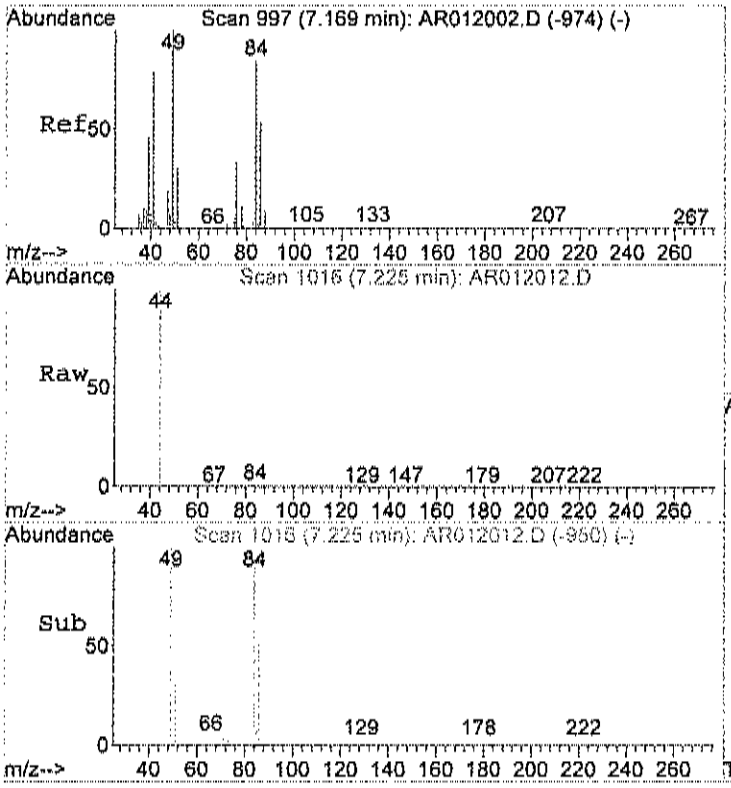


#17
Isopropyl alcohol
Concen: 23.17 ppb
RT: 6.25 min Scan# 690
Delta R.T. 0.02 min
Lab File: AR012012.D
Acq: 20 Jan 2020 6:59 pm

Tgt Ion: 45 Resp: 1891781

Ion	Ratio	Lower	Upper
45	100		
43	0.0	196.5	236.5#

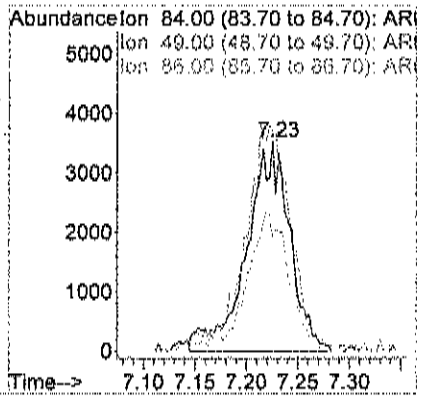


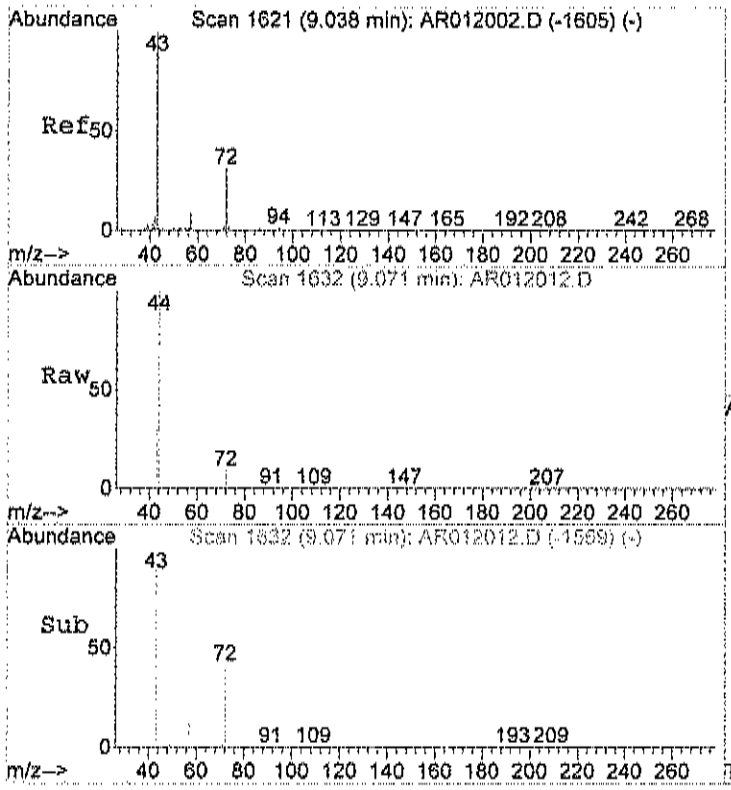


#21
Methylene chloride
Concen: 0.22 ppb
RT: 7.23 min Scan# 1016
Delta R.T. 0.05 min
Lab File: AR012012.D
Acq: 20 Jan 2020 6:59 pm

Tgt Ion: 84 Resp: 10212

Ion	Ratio	Lower	Upper
84	100		
49	107.2	101.4	141.4
86	63.4	45.4	85.4

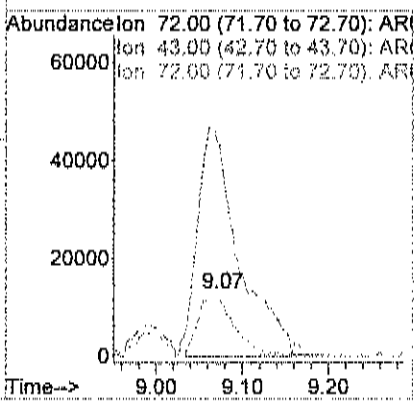


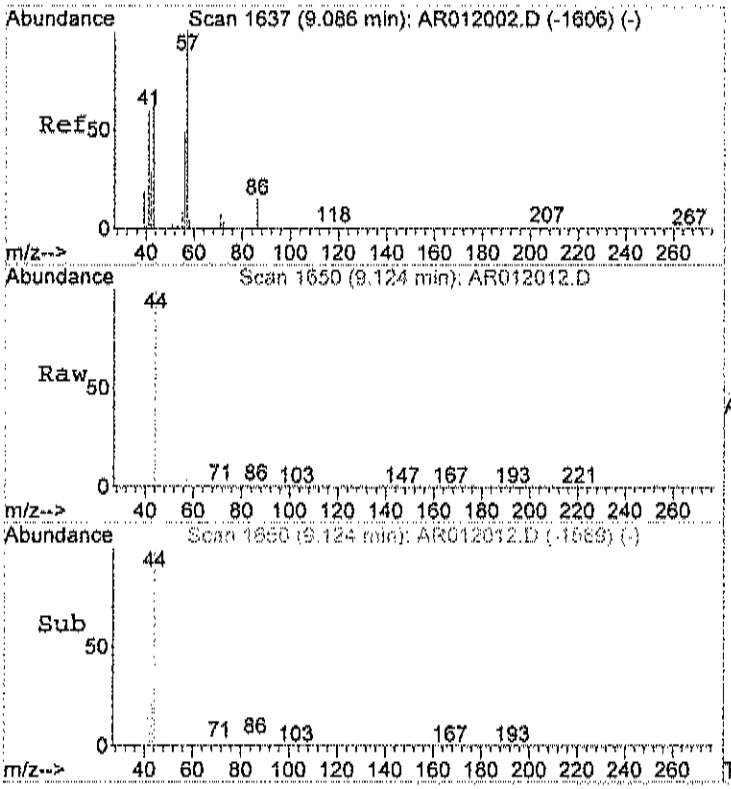


#28
Methyl Ethyl Ketone
Concen: 1.50 ppb
RT: 9.07 min Scan# 1632
Delta R.T. 0.04 min
Lab File: AR012012.D
Acq: 20 Jan 2020 6:59 pm

Tgt Ion: 72 Resp: 36796

Ion	Ratio	Lower	Upper
72	100		
43	421.0	0.0	20.0#
72	100.0	80.0	120.0

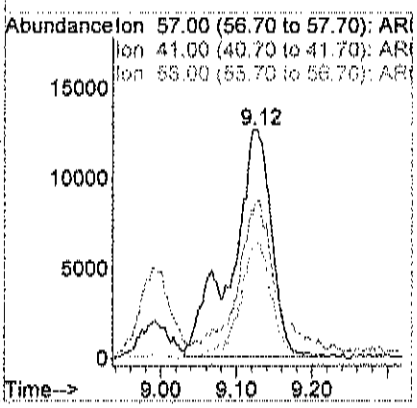


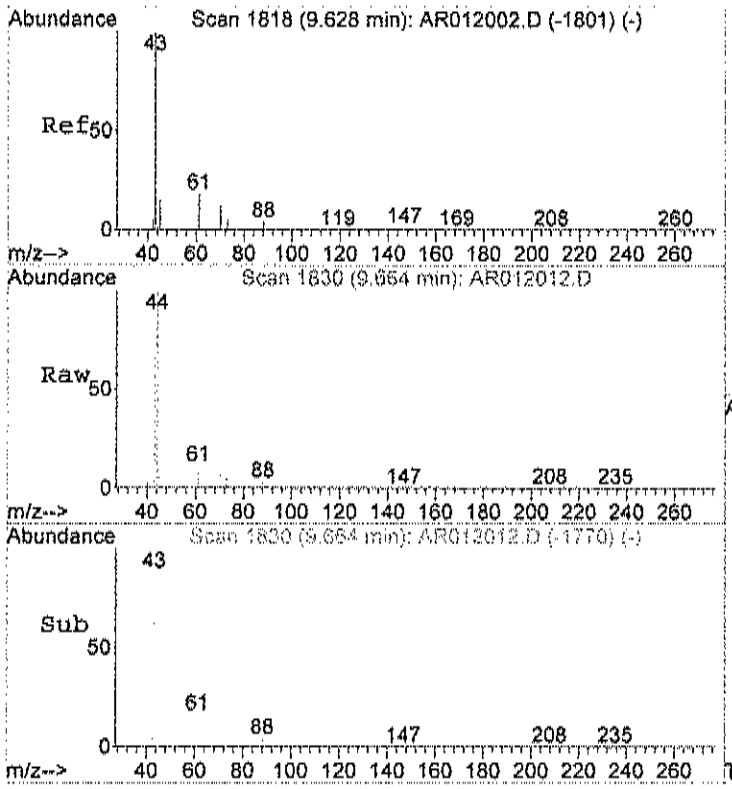


#30
Hexane
Concen: 0.53 ppb
RT: 9.12 min Scan# 1650
Delta R.T. 0.03 min
Lab File: AR012012.D
Acq: 20 Jan 2020 6:59 pm

Tgt Ion: 57 Resp: 45760

Ion	Ratio	Lower	Upper
57	100		
41	75.6	55.7	95.7
56	40.9	32.4	72.4

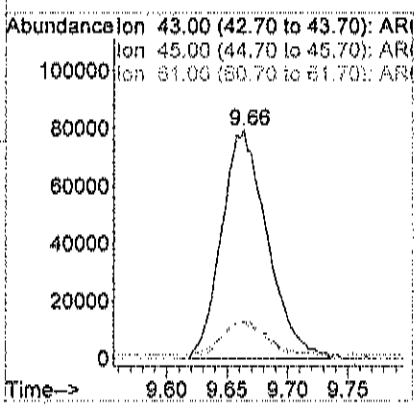


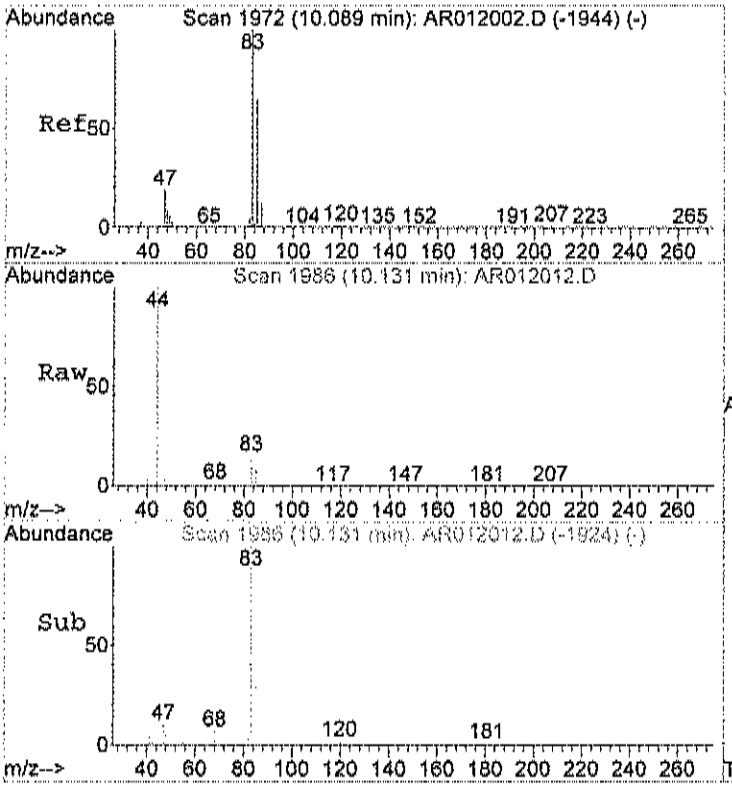


#31
Ethyl acetate
Concen: 1.89 ppb
RT: 9.66 min Scan# 1830
Delta R.T. 0.03 min
Lab File: AR012012.D
Acq: 20 Jan 2020 6:59 pm

Tgt Ion: 43 Resp: 209091

Ion	Ratio	Lower	Upper
43	100		
45	15.4	0.0	34.5
61	16.1	0.0	35.8

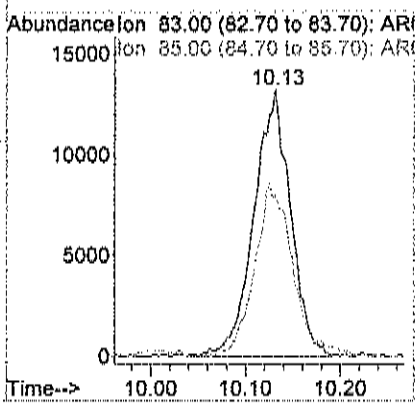


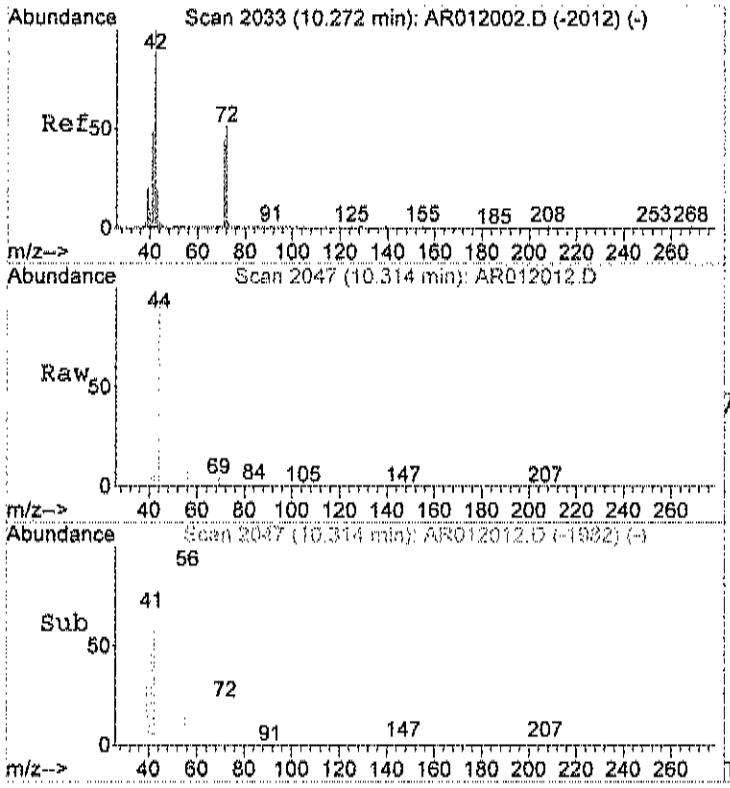


#32
Chloroform
Concen: 0.33 ppb
RT: 10.13 min Scan# 1986
Delta R.T. 0.04 min
Lab File: AR012012.D
Acq: 20 Jan 2020 6:59 pm

Tgt Ion: 83 Resp: 35345

Ion	Ratio	Lower	Upper
83	100		
85	67.1	46.5	86.5

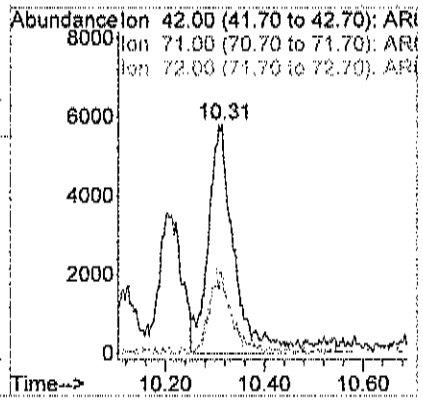


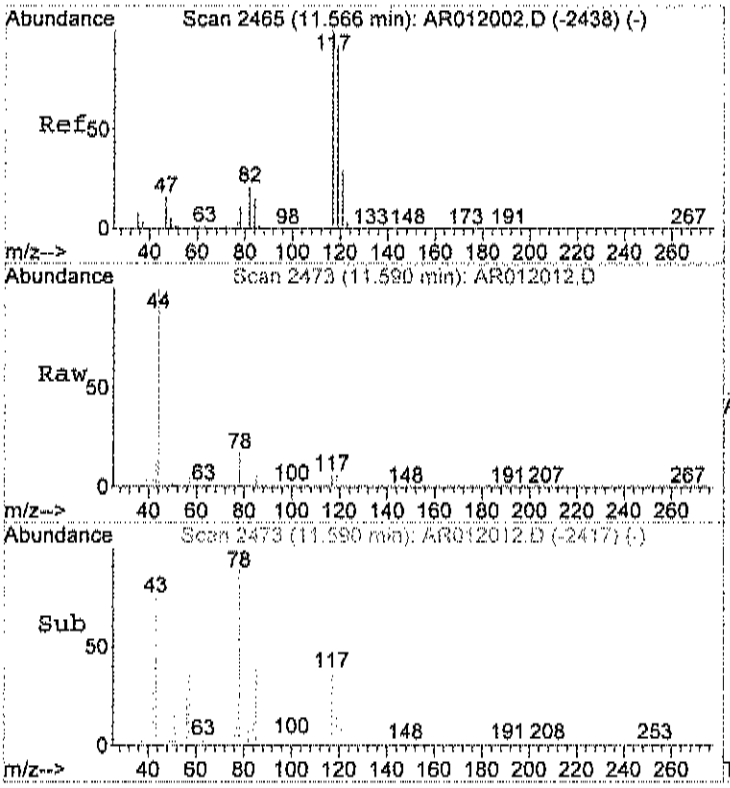


#33
Tetrahydrofuran
Concen: 0.44 ppb m
RT: 10.31 min Scan# 2047
Delta R.T. 0.04 min
Lab File: AR012012.D
Acq: 20 Jan 2020 6:59 pm

Tgt Ion: 42 Resp: 22098

Ion	Ratio	Lower	Upper
42	100		
71	28.8	25.1	65.1
72	30.0	23.3	63.3

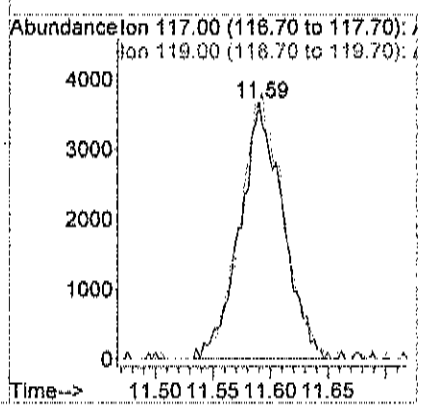


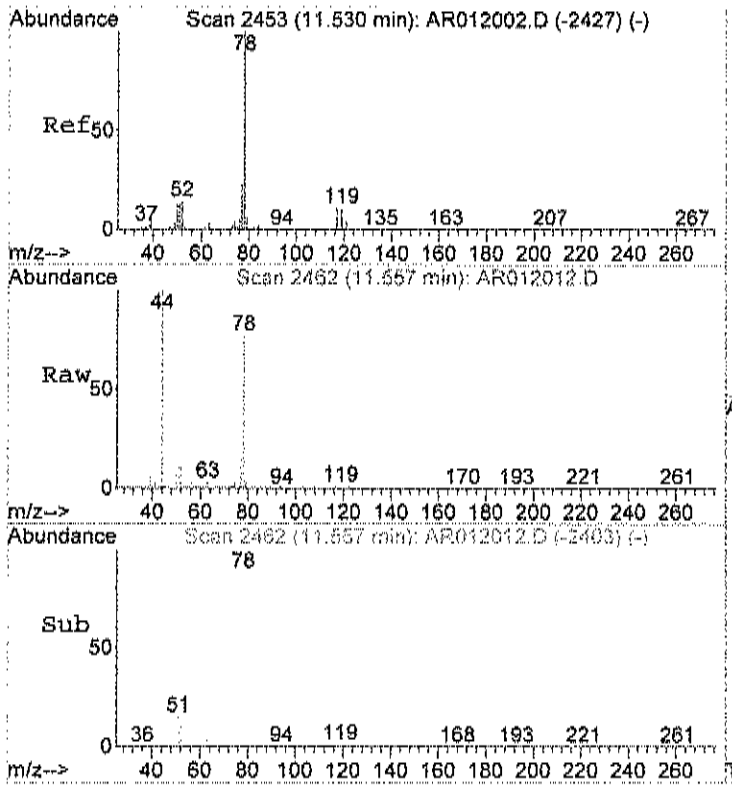


#38
Carbon tetrachloride
Concen: 0.09 ppb
RT: 11.59 min Scan# 2473
Delta R.T. 0.02 min
Lab File: AR012012.D
Acq: 20 Jan 2020 6:59 pm

Tgt Ion:117 Resp: 9533

Ion	Ratio	Lower	Upper
117	100		
119	103.8	75.6	115.6

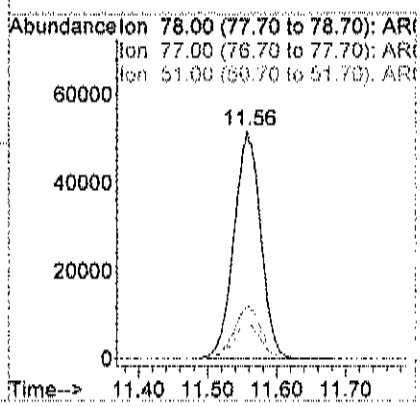


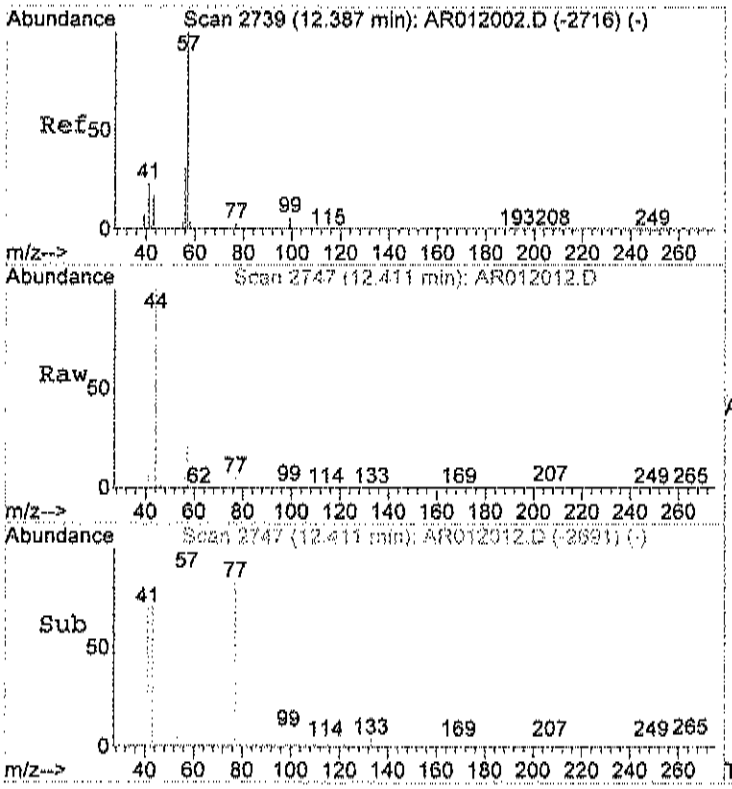


#39
Benzene
Concen: 0.91 ppb
RT: 11.56 min Scan# 2462
Delta R.T. 0.03 min
Lab File: AR012012.D
Acq: 20 Jan 2020 6:59 pm

Tgt Ion: 78 Resp: 139766

Ion	Ratio	Lower	Upper
78	100		
77	23.2	4.1	44.1
51	16.2	0.0	36.8

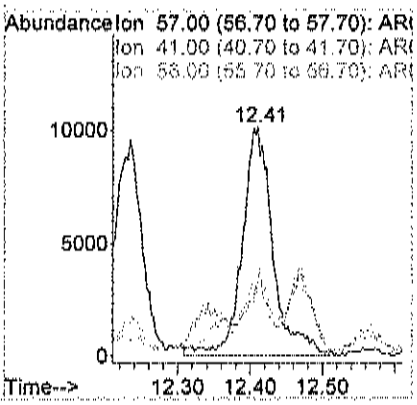


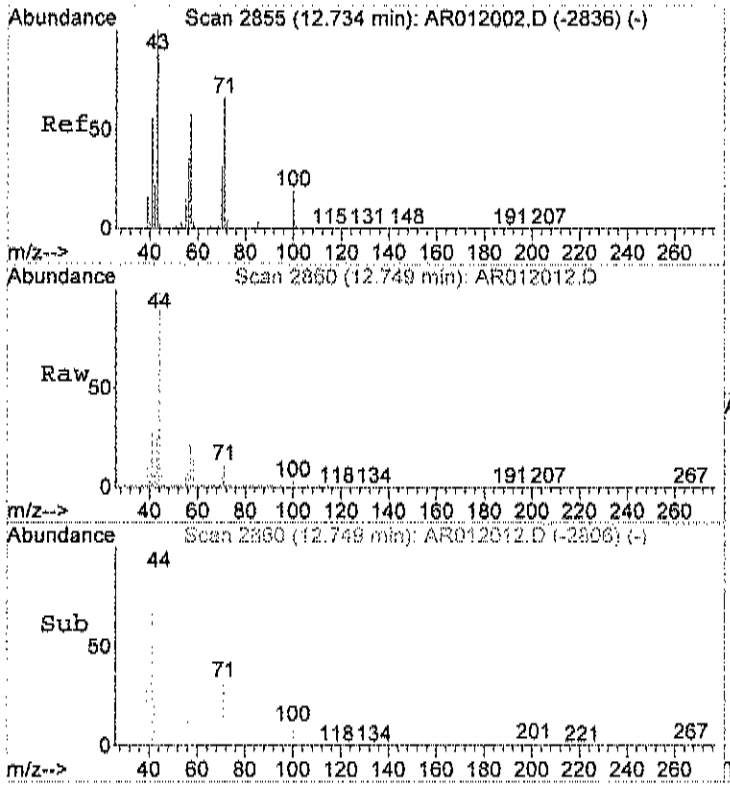


#42
2,2,4-trimethylpentane
Concen: 0.12 ppb m
RT: 12.41 min Scan# 2747
Delta R.T. 0.02 min
Lab File: AR012012.D
Acq: 20 Jan 2020 6:59 pm

Tgt Ion: 57 Resp: 30186

Ion	Ratio	Lower	Upper
57	100		
41	0.0	12.1	52.1#
56	0.0	12.7	52.7#

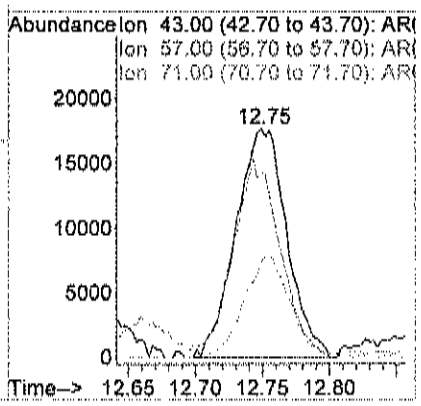


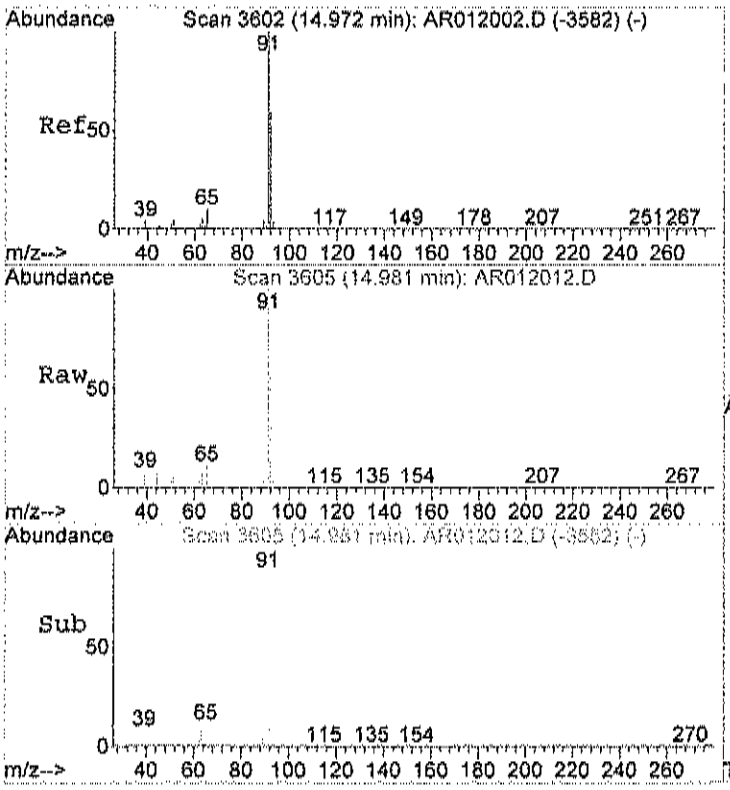


#43
Heptane
Concen: 0.51 ppb
RT: 12.75 min Scan# 2860
Delta R.T. 0.01 min
Lab File: AR012012.D
Acq: 20 Jan 2020 6:59 pm

Tgt Ion: 43 Resp: 46363

Ion	Ratio	Lower	Upper
43	100		
57	80.4	36.0	76.0#
71	39.8	42.5	82.5#

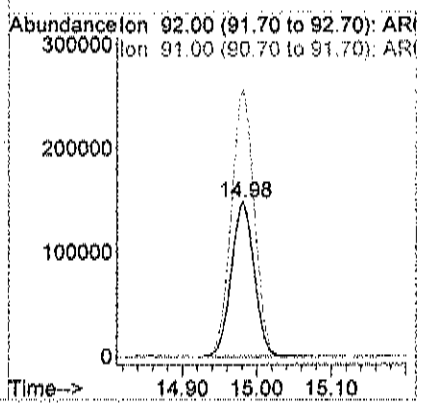


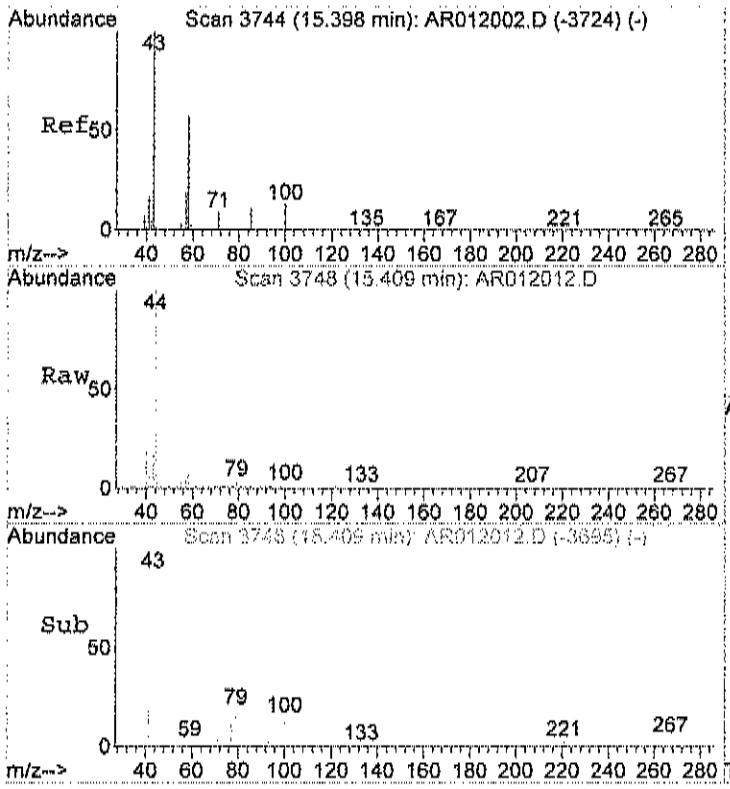


#51
Toluene
Concen: 2.84 ppb
RT: 14.98 min Scan# 3605
Delta R.T. 0.01 min
Lab File: AR012012.D
Acq: 20 Jan 2020 6:59 pm

Tgt Ion: 92 Resp: 317061

Ion	Ratio	Lower	Upper
92	100		
91	172.9	154.5	194.5

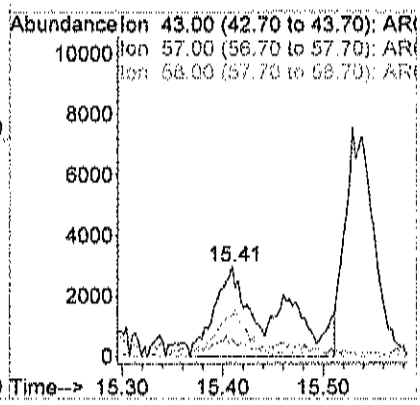


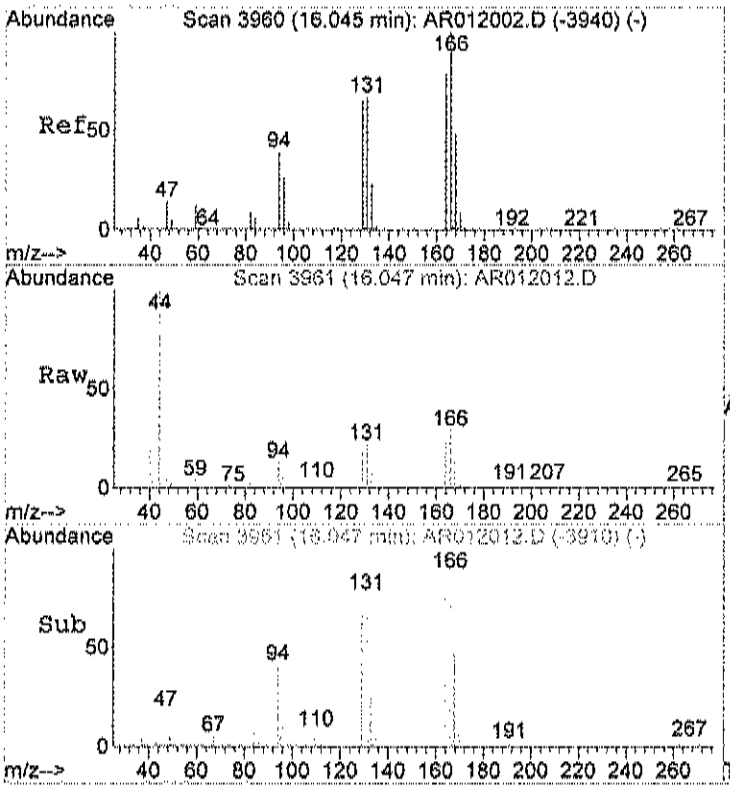


#54
Methyl Butyl Ketone
Concen: 0.14 ppb
RT: 15.41 min Scan# 3748
Delta R.T. 0.01 min
Lab File: AR012012.D
Acq: 20 Jan 2020 6:59 pm

Tgt Ion: 43 Resp: 11950

Ion	Ratio	Lower	Upper
43	100		
57	7.2	0.0	37.9
58	26.5	30.2	70.2#

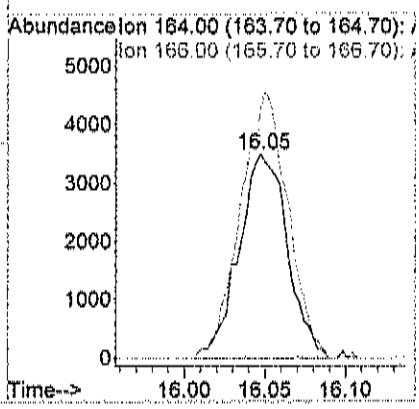


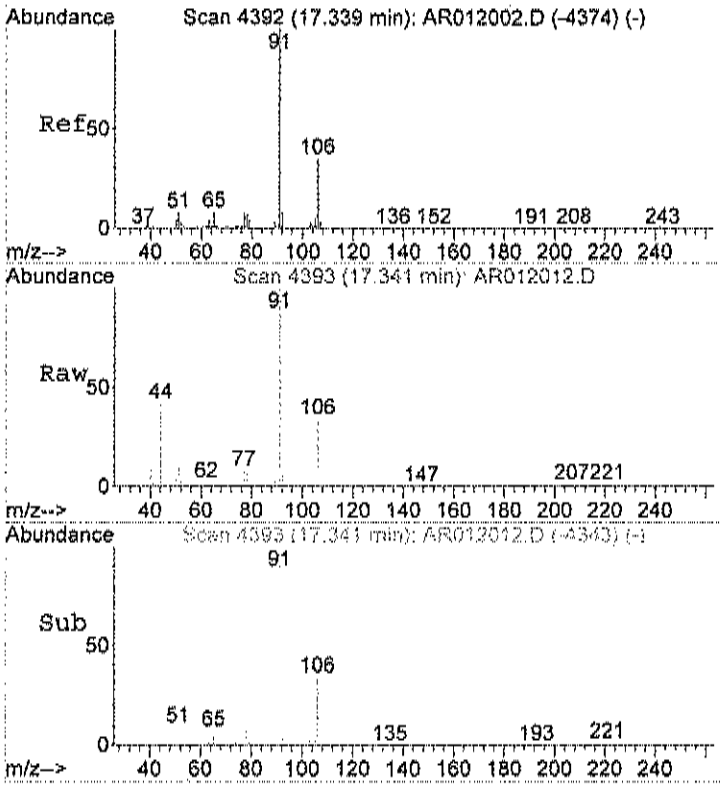


#56
Tetrachloroethylene
Concen: 0.10 ppb
RT: 16.05 min Scan# 3961
Delta R.T. 0.00 min
Lab File: AR012012.D
Acq: 20 Jan 2020 6:59 pm

Tgt Ion:164 Resp: 7270

Ion	Ratio	Lower	Upper
164	100		
166	127.5	106.4	146.4

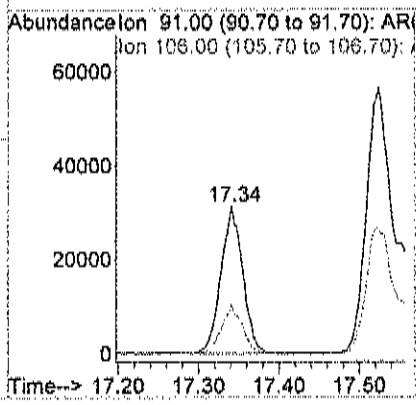


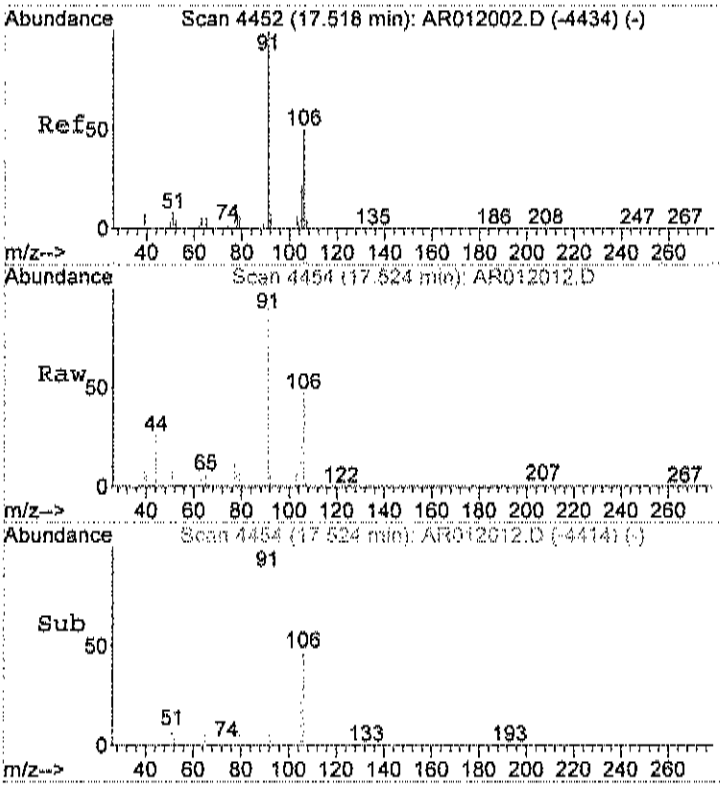


#58
Ethylbenzene
Concen: 0.24 ppb
RT: 17.34 min Scan# 4393
Delta R.T. -0.00 min
Lab File: AR012012.D
Acq: 20 Jan 2020 6:59 pm

Tgt Ion: 91 Resp: 59224

Ion	Ratio	Lower	Upper
91	100		
106	31.8	11.7	51.7

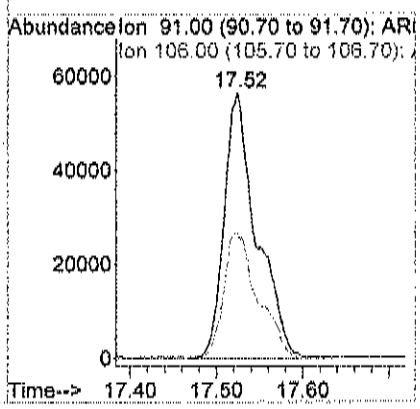


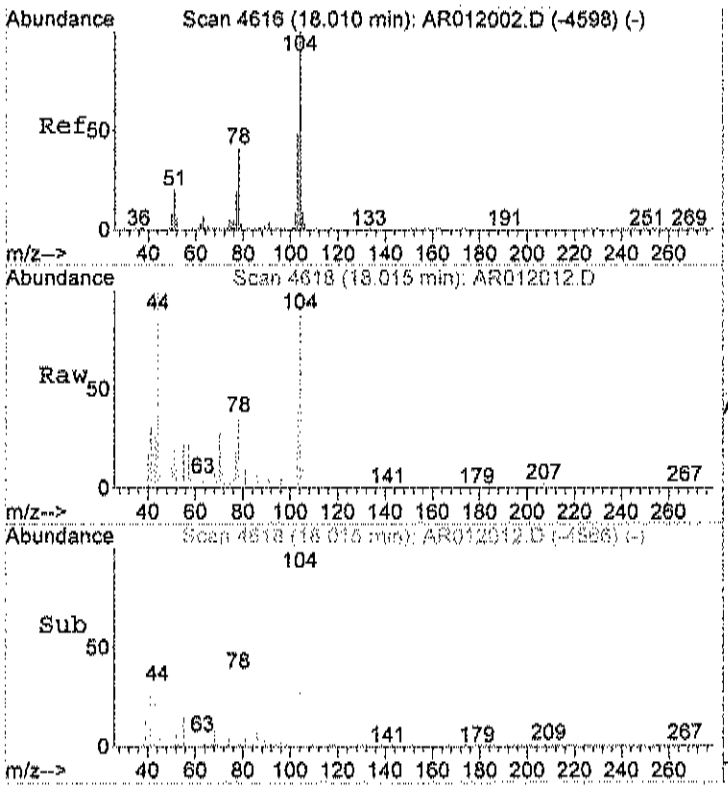


#59
m&p-xylene
Concen: 0.78 ppb
RT: 17.52 min Scan# 4454
Delta R.T. -0.03 min
Lab File: AR012012.D
Acq: 20 Jan 2020 6:59 pm

Tgt Ion: 91 Resp: 146827

Ion	Ratio	Lower	Upper
91	100		
106	50.2	29.0	69.0

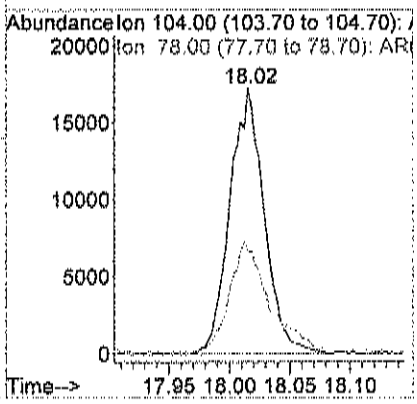


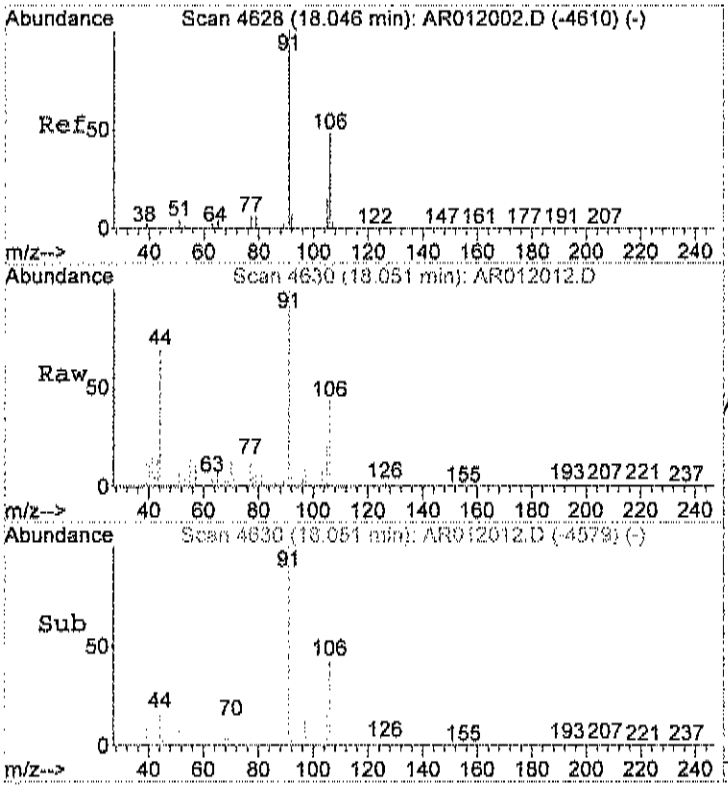


#61
Styrene
Concen: 0.24 ppb
RT: 18.02 min Scan# 4618
Delta R.T. 0.01 min
Lab File: AR012012.D
Acq: 20 Jan 2020 6:59 pm

Tgt Ion:104 Resp: 34148

Ion	Ratio	Lower	Upper
104	100		
78	51.2	34.7	74.7

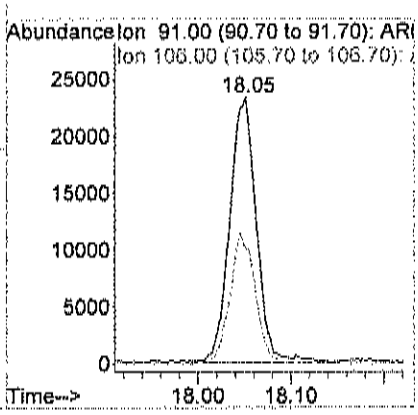


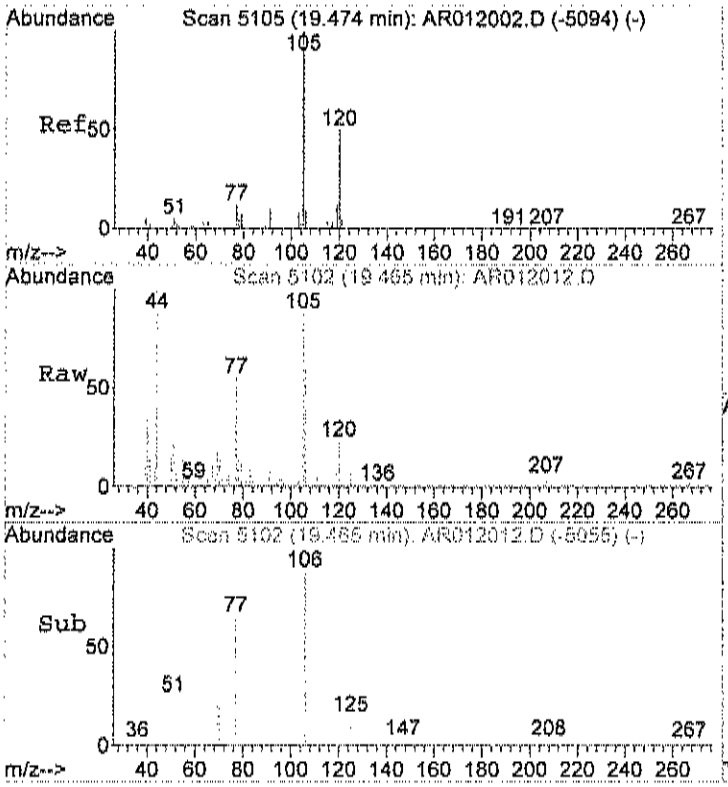


#63
o-xylene
Concen: 0.24 ppb
RT: 18.05 min Scan# 4630
Delta R.T. 0.00 min
Lab File: AR012012.D
Acq: 20 Jan 2020 6:59 pm

Tgt Ion: 91 Resp: 46336

Ion	Ratio	Lower	Upper
91	100		
106	47.0	26.2	66.2

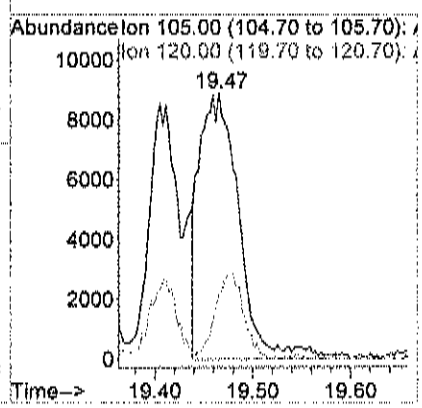


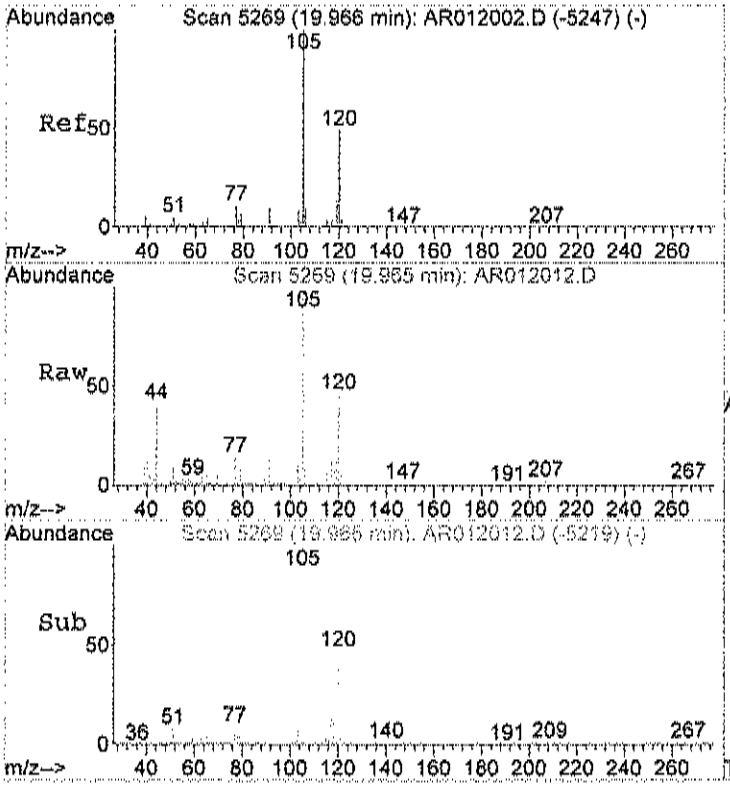


#70
1,3,5-trimethylbenzene
Concen: 0.11 ppb m
RT: 19.47 min Scan# 5102
Delta R.T. -0.01 min
Lab File: AR012012.D
Acq: 20 Jan 2020 6:59 pm

Tgt Ion:105 Resp: 25089

Ion	Ratio	Lower	Upper
105	100		
120	23.1	28.2	68.2#

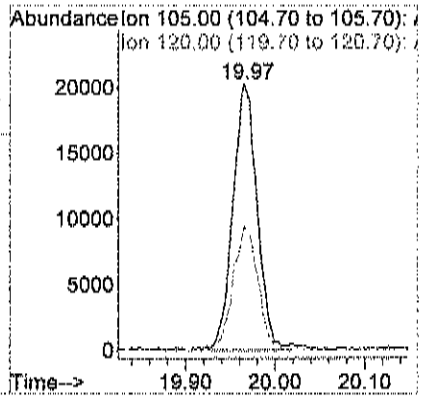




#71
1,2,4-trimethylbenzene
Concen: 0.18 ppb
RT: 19.97 min Scan# 5269
Delta R.T. -0.00 min
Lab File: AR012012.D
Acq: 20 Jan 2020 6:59 pm

Tgt Ion:105 Resp: 39190

Ion	Ratio	Lower	Upper
105	100		
120	46.2	24.9	64.9



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012023.D Vial: 23
Acq On : 21 Jan 2020 3:28 am Operator: RJP
Sample : C2001030-003A 10x Inst : MSD #1
Misc : A116_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 21 08:35:29 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 11:14:36 2020
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

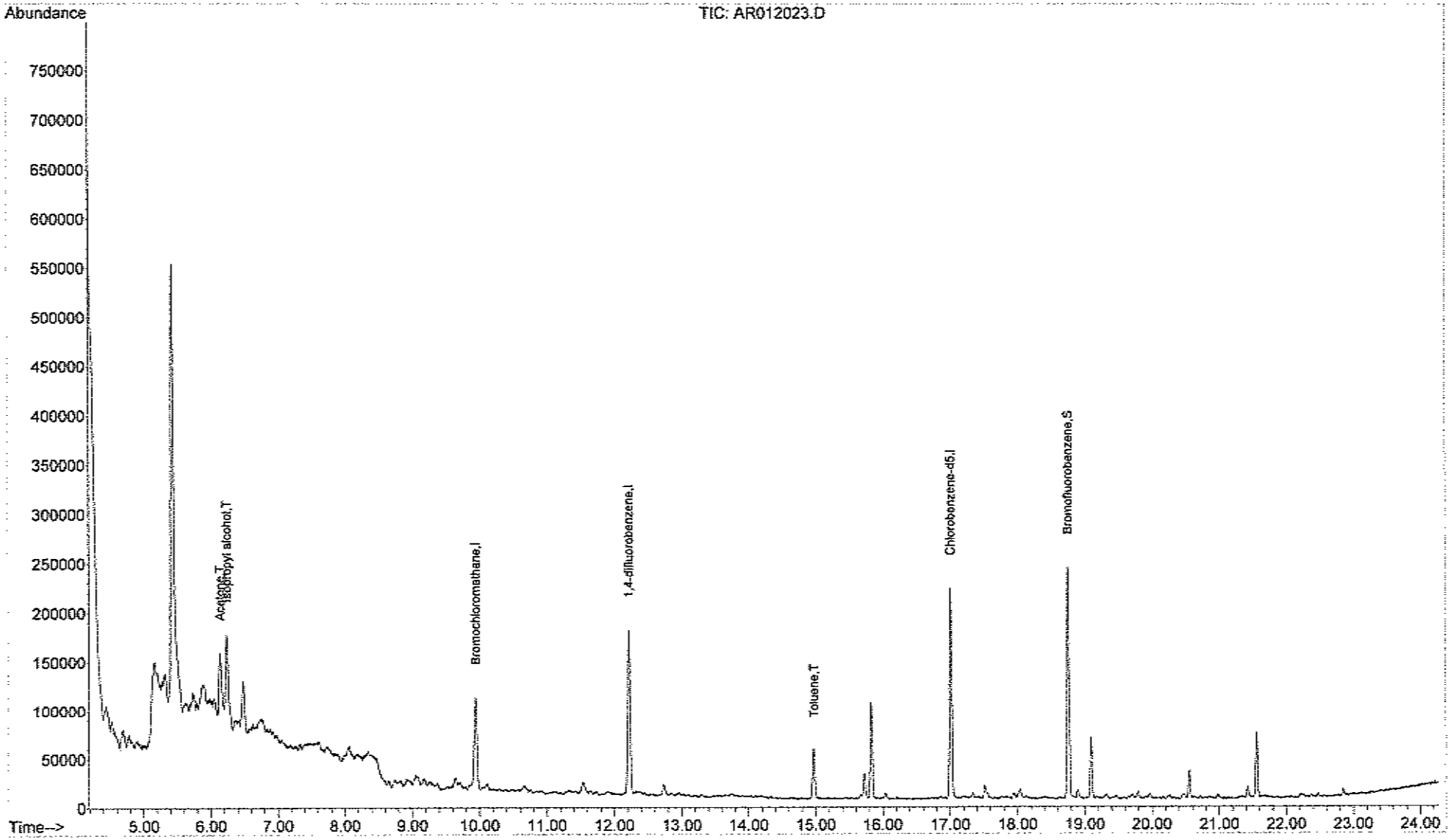
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	9.94	128	40213	1.00 ppb	0.00
35) 1,4-difluorobenzene	12.22	114	185163	1.00 ppb	0.00
50) Chlorobenzene-d5	17.01	117	155745	1.00 ppb	0.00
System Monitoring Compounds					
65) Bromofluorobenzene	18.76	95	99734	0.96 ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96.00%		
Target Compounds					Qvalue
15) Acetone	6.13	58	43409	1.86 ppb	# 100
17) Isopropyl alcohol	6.23	45	147236	1.99 ppb	# 1
51) Toluene	14.97	92	27075	0.28 ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012023.D Vial: 23
Acq On : 21 Jan 2020 3:28 am Operator: RJP
Sample : C2001030-003A 10x Inst : MSD #1
Misc : A116_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 23 12:20 2020 Quant Results File: A116_1UG.RES

Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
Response via : Initial Calibration



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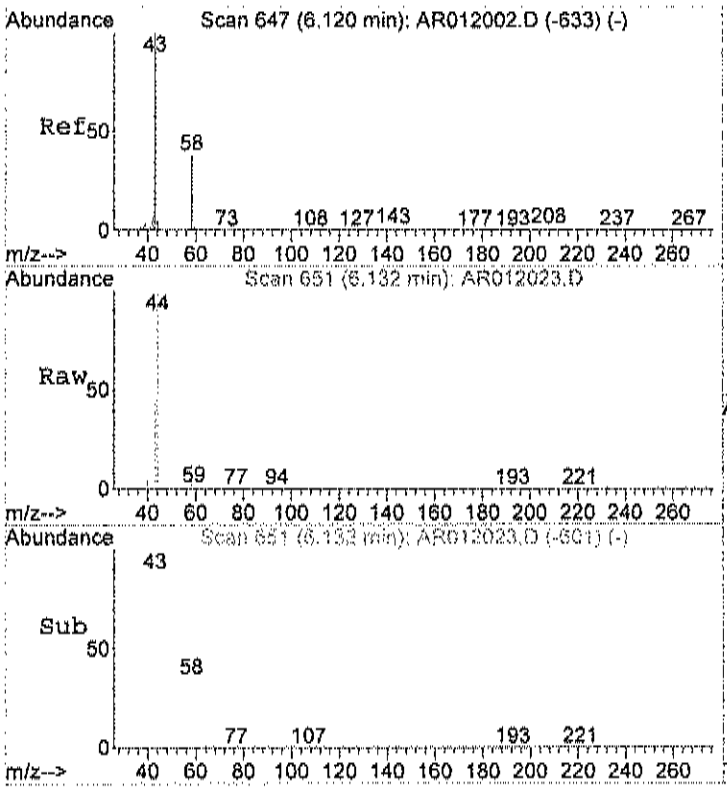
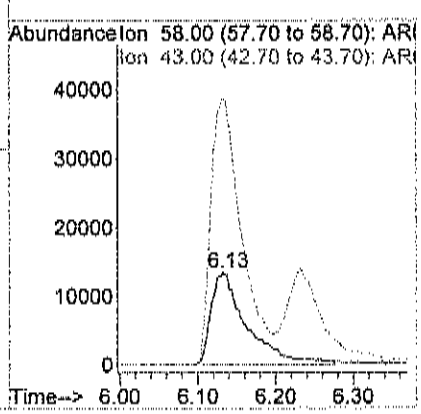
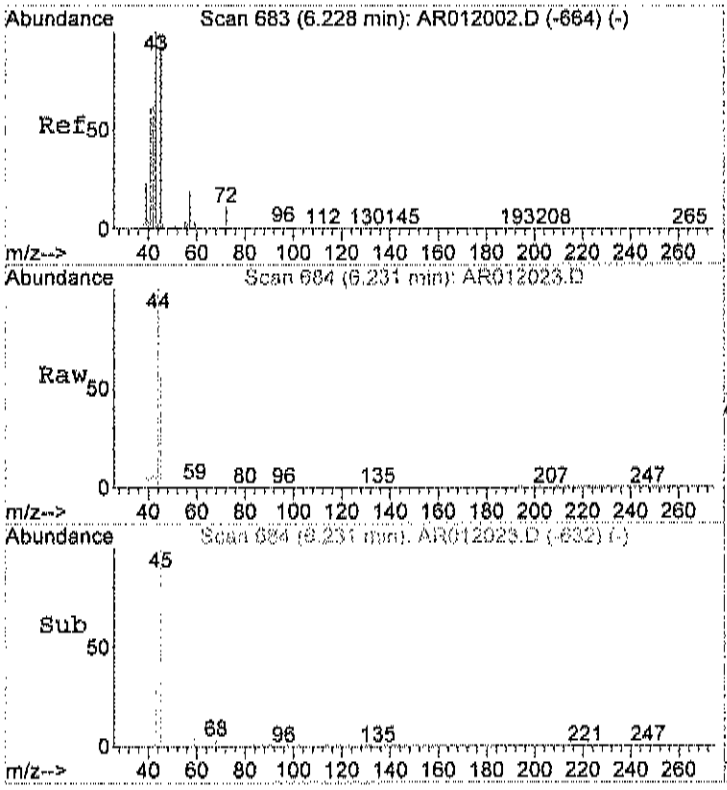


#15
Acetone
Concen: 1.86 ppb
RT: 6.13 min Scan# 651
Delta R.T. -0.00 min
Lab File: AR012023.D
Acq: 21 Jan 2020 3:28 am

Tgt Ion: 58 Resp: 43409

Ion	Ratio	Lower	Upper
58	100		
43	339.1	0.0	30.0#

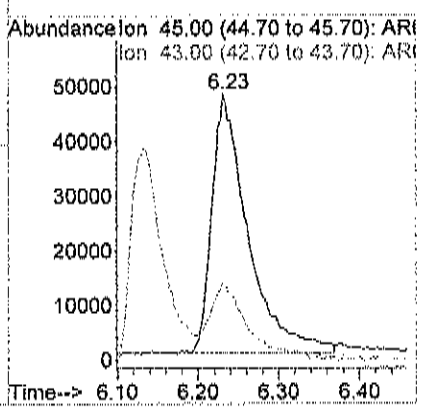


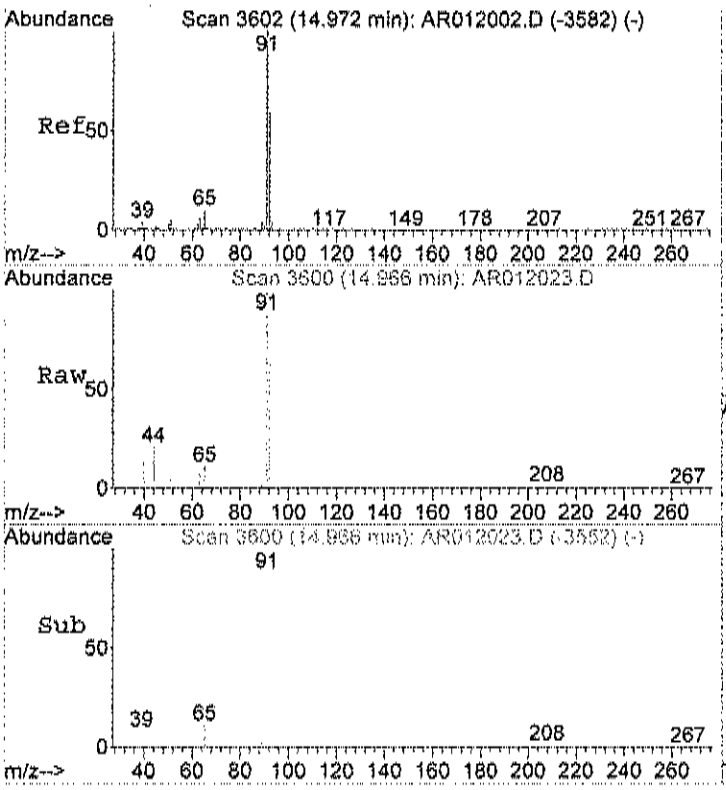


#17
Isopropyl alcohol
Concen: 1.99 ppb
RT: 6.23 min Scan# 684
Delta R.T. 0.01 min
Lab File: AR012023.D
Acq: 21 Jan 2020 3:28 am

Tgt Ion: 45 Resp: 147236

Ion	Ratio	Lower	Upper
45	100		
43	0.0	196.5	236.5#

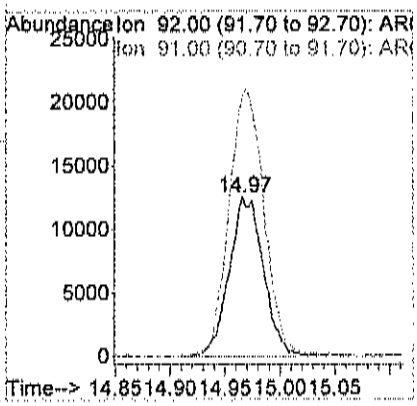




#51
Toluene
Concen: 0.28 ppb
RT: 14.97 min Scan# 3600
Delta R.T. -0.01 min
Lab File: AR012023.D
Acq: 21 Jan 2020 3:28 am

Tgt Ion: 92 Resp: 27075

Ion	Ratio	Lower	Upper
92	100		
91	173.1	154.5	194.5



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Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A3-Indoor
Lab Order:	C2001030	**Tag Number:**	285,439
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-004A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-1			"Hg		1/20/2020
Lab Vacuum Out	-30			"Hg		1/20/2020
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	1/20/2020 7:46:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	1/20/2020 7:46:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
1,2,4-Trimethylbenzene	0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
1,2-Dichloroethane	0.20	0.15		ppbV	1	1/20/2020 7:46:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
1,3,5-Trimethylbenzene	0.13	0.15	J	ppbV	1	1/20/2020 7:46:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/20/2020 7:46:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Acetone	55	12		ppbV	40	1/21/2020 4:59:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Benzene	0.28	0.15		ppbV	1	1/20/2020 7:46:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Carbon tetrachloride	0.080	0.030		ppbV	1	1/20/2020 7:46:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Chloroform	0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Chloromethane	5.0	1.5		ppbV	10	1/21/2020 4:14:00 AM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	1/20/2020 7:46:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Ethyl acetate	0.71	0.15		ppbV	1	1/20/2020 7:46:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A3-Indoor
Lab Order:	C2001030	**Tag Number:**	285,439
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-004A	**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	0.18	0.15		ppbV	1	1/20/2020 7:46:00 PM
Freon 11	0.28	0.15		ppbV	1	1/20/2020 7:46:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Freon 12	0.58	0.15		ppbV	1	1/20/2020 7:46:00 PM
Heptane	1.2	0.15		ppbV	1	1/20/2020 7:46:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Hexane	0.30	0.15		ppbV	1	1/20/2020 7:46:00 PM
Isopropyl alcohol	6.0	1.5		ppbV	10	1/21/2020 4:14:00 AM
m&p-Xylene	0.66	0.30		ppbV	1	1/20/2020 7:46:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/20/2020 7:46:00 PM
Methyl Ethyl Ketone	0.72	0.30		ppbV	1	1/20/2020 7:46:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/20/2020 7:46:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Methylene chloride	0.17	0.15		ppbV	1	1/20/2020 7:46:00 PM
o-Xylene	0.27	0.15		ppbV	1	1/20/2020 7:46:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Styrene	0.11	0.15	J	ppbV	1	1/20/2020 7:46:00 PM
Tetrachloroethylene	0.10	0.15	J	ppbV	1	1/20/2020 7:46:00 PM
Tetrahydrofuran	0.37	0.15		ppbV	1	1/20/2020 7:46:00 PM
Toluene	0.85	0.15		ppbV	1	1/20/2020 7:46:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Trichloroethene	< 0.030	0.030		ppbV	1	1/20/2020 7:46:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/20/2020 7:46:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	1/20/2020 7:46:00 PM
Surr: Bromofluorobenzene	103	70-130		%REC	1	1/20/2020 7:46:00 PM

Qualifiers:				
	SC	Sub-Contracted	,	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A3-Indoor
Lab Order:	C2001030	**Tag Number:**	285,439
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-004A	**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	1/20/2020 7:46:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/20/2020 7:46:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	1/20/2020 7:46:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	1/20/2020 7:46:00 PM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 7:46:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/20/2020 7:46:00 PM
1,2,4-Trimethylbenzene	0.74	0.74		ug/m3	1	1/20/2020 7:46:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/20/2020 7:46:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 7:46:00 PM
1,2-Dichloroethane	0.81	0.61		ug/m3	1	1/20/2020 7:46:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	1/20/2020 7:46:00 PM
1,3,5-Trimethylbenzene	0.64	0.74	J	ug/m3	1	1/20/2020 7:46:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	1/20/2020 7:46:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 7:46:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 7:46:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/20/2020 7:46:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	1/20/2020 7:46:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	1/20/2020 7:46:00 PM
Acetone	130	28		ug/m3	40	1/21/2020 4:59:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	1/20/2020 7:46:00 PM
Benzene	0.89	0.48		ug/m3	1	1/20/2020 7:46:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	1/20/2020 7:46:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/20/2020 7:46:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/20/2020 7:46:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	1/20/2020 7:46:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/20/2020 7:46:00 PM
Carbon tetrachloride	0.50	0.19		ug/m3	1	1/20/2020 7:46:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	1/20/2020 7:46:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/20/2020 7:46:00 PM
Chloroform	0.73	0.73		ug/m3	1	1/20/2020 7:46:00 PM
Chloromethane	10	3.1		ug/m3	10	1/21/2020 4:14:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 7:46:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/20/2020 7:46:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/20/2020 7:46:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/20/2020 7:46:00 PM
Ethyl acetate	2.6	0.54		ug/m3	1	1/20/2020 7:46:00 PM
Ethylbenzene	0.78	0.65		ug/m3	1	1/20/2020 7:46:00 PM
Freon 11	1.6	0.84		ug/m3	1	1/20/2020 7:46:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	1/20/2020 7:46:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	1/20/2020 7:46:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A3-Indoor
Lab Order:	C2001030	**Tag Number:**	285,439
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-004A	**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	2.9	0.74		ug/m3	1	1/20/2020 7:46:00 PM
Heptane	5.0	0.61		ug/m3	1	1/20/2020 7:46:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/20/2020 7:46:00 PM
Hexane	1.1	0.53		ug/m3	1	1/20/2020 7:46:00 PM
Isopropyl alcohol	15	3.7		ug/m3	10	1/21/2020 4:14:00 AM
m&p-Xylene	2.9	1.3		ug/m3	1	1/20/2020 7:46:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/20/2020 7:46:00 PM
Methyl Ethyl Ketone	2.1	0.88		ug/m3	1	1/20/2020 7:46:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/20/2020 7:46:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	1/20/2020 7:46:00 PM
Methylene chloride	0.59	0.52		ug/m3	1	1/20/2020 7:46:00 PM
o-Xylene	1.2	0.65		ug/m3	1	1/20/2020 7:46:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/20/2020 7:46:00 PM
Styrene	0.47	0.64	J	ug/m3	1	1/20/2020 7:46:00 PM
Tetrachloroethylene	0.68	1.0	J	ug/m3	1	1/20/2020 7:46:00 PM
Tetrahydrofuran	1.1	0.44		ug/m3	1	1/20/2020 7:46:00 PM
Toluene	3.2	0.57		ug/m3	1	1/20/2020 7:46:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	1/20/2020 7:46:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/20/2020 7:46:00 PM
Trichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 7:46:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	1/20/2020 7:46:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	1/20/2020 7:46:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	1/20/2020 7:46:00 PM

Qualifiers:				
	SC	Sub-Contracted	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012013.D Vial: 13
Acq On : 20 Jan 2020 7:46 pm Operator: RJP
Sample : C2001030-004A Inst : MSD #1
Misc : A116_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 21 08:35:19 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 11:14:36 2020
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.96	128	43684	1.00	ppb	0.03
35) 1,4-difluorobenzene	12.23	114	205581	1.00	ppb	0.02
50) Chlorobenzene-d5	17.02	117	176539	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.76	95	121277	1.03	ppb	0.00

Spiked Amount 1.000 Range 70 - 130 Recovery = 103.00%

Target Compounds							Qvalue
3) Freon 12	4.25	85	66371	0.58	ppb		98
4) Chloromethane	4.51	50	85964	3.24	ppb		79
14) Freon 11	5.92	101	34103	0.28	ppb		98
15) Acetone	6.14	58	1993385	78.48	ppb	#	100
17) Isopropyl alcohol	6.25	45	577786	7.18	ppb	#	1
21) Methylene chloride	7.21	84	7512	0.17	ppb		95
28) Methyl Ethyl Ketone	9.07	72	17445	0.72	ppb	#	100
30) Hexane	9.12	57	25063	0.30	ppb		84
31) Ethyl acetate	9.66	43	76912	0.71	ppb		98
32) Chloroform	10.13	83	15756	0.15	ppb		98
33) Tetrahydrofuran	10.31	42	18462m	0.37	ppb		
34) 1,2-dichloroethane	11.24	62	13295	0.20	ppb		99
38) Carbon tetrachloride	11.59	117	9145	0.08	ppb		97
39) Benzene	11.55	78	41570	0.28	ppb		98
43) Heptane	12.75	43	107016	1.21	ppb		94
51) Toluene	14.98	92	92187	0.85	ppb		98
56) Tetrachloroethylene	16.04	164	7347	0.10	ppb		100
58) Ethylbenzene	17.34	91	42041	0.18	ppb		98
59) m&p-xylene	17.52	91	119827	0.66	ppb		97
61) Styrene	18.02	104	15071	0.11	ppb		83
63) o-xylene	18.05	91	50396	0.27	ppb		97
70) 1,3,5-trimethylbenzene	19.46	105	27339m	0.13	ppb		
71) 1,2,4-trimethylbenzene	19.97	105	31123	0.15	ppb		95

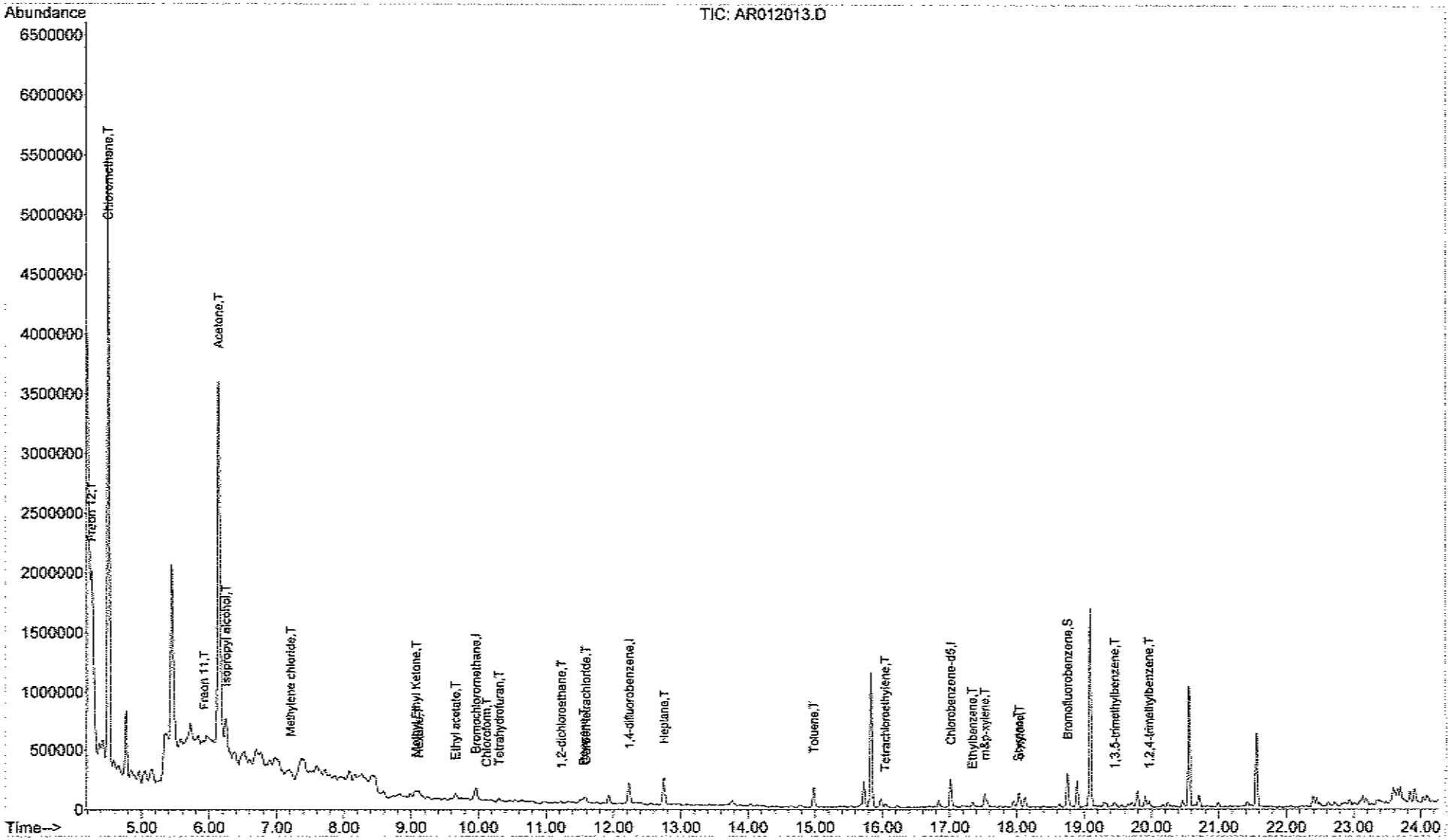
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

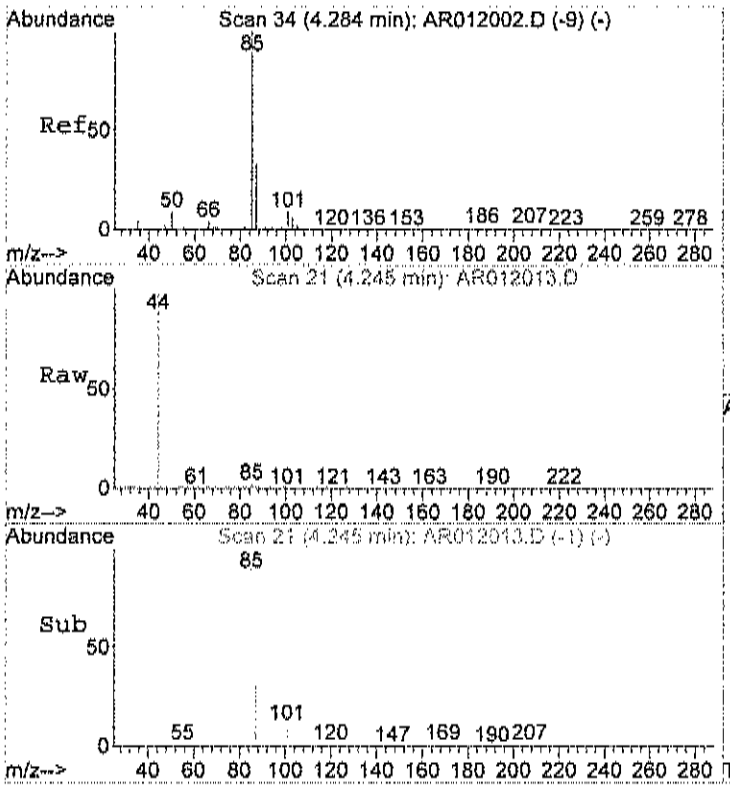
Data File : C:\HPCHEM\1\DATA\AR012013.D
Acq On : 20 Jan 2020 7:46 pm
Sample : C2001030-004A
Misc : A116_1UG
MS Integration Params: RTEINT.P
Quant Time: Jan 23 8:49 2020

Vial: 13
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A116_1UG.RES

Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
Response via : Initial Calibration



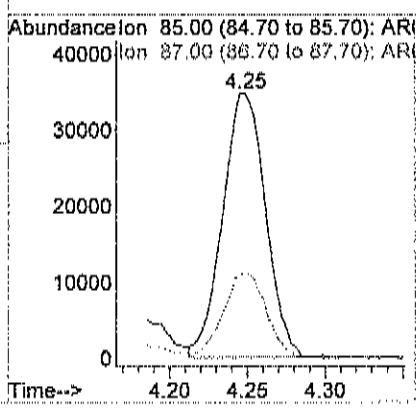
Centek Laboratories, LLC

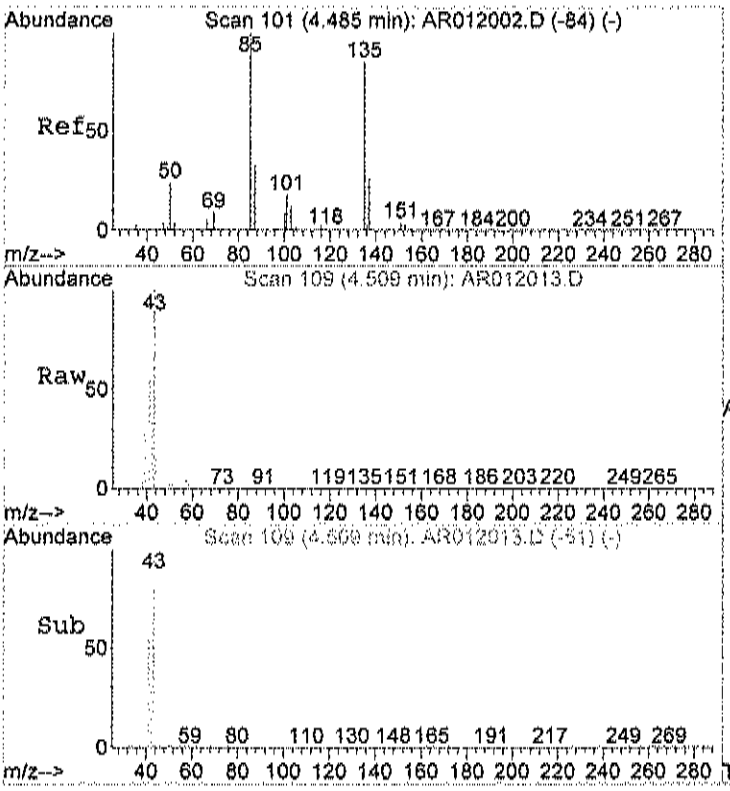


#3
Freon 12
Concen: 0.58 ppb
RT: 4.25 min Scan# 21
Delta R.T. -0.04 min
Lab File: AR012013.D
Acq: 20 Jan 2020 7:46 pm

Tgt Ion: 85 Resp: 66371

Ion	Ratio	Lower	Upper
85	100		
87	33.0	11.9	51.9

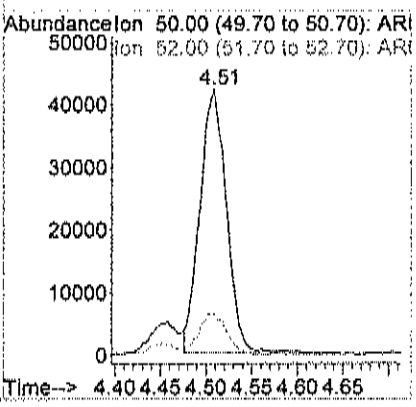


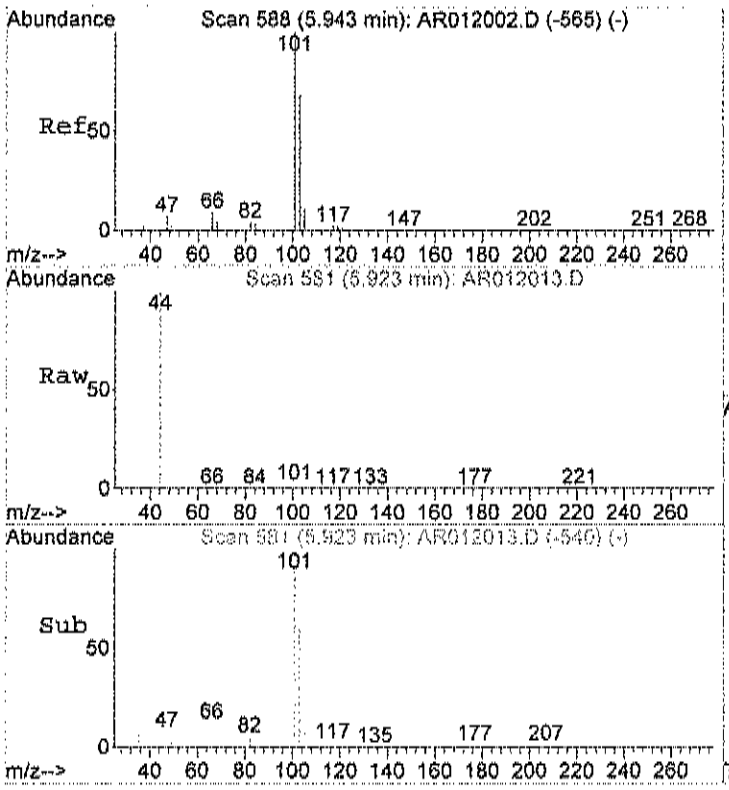


#4
Chloromethane
Concen: 3.24 ppb
RT: 4.51 min Scan# 109
Delta R.T. 0.02 min
Lab File: AR012013.D
Acq: 20 Jan 2020 7:46 pm

Tgt Ion: 50 Resp: 85964

Ion	Ratio	Lower	Upper
50	100		
52	15.5	6.1	46.1

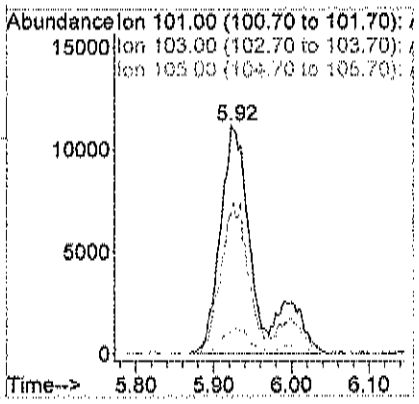


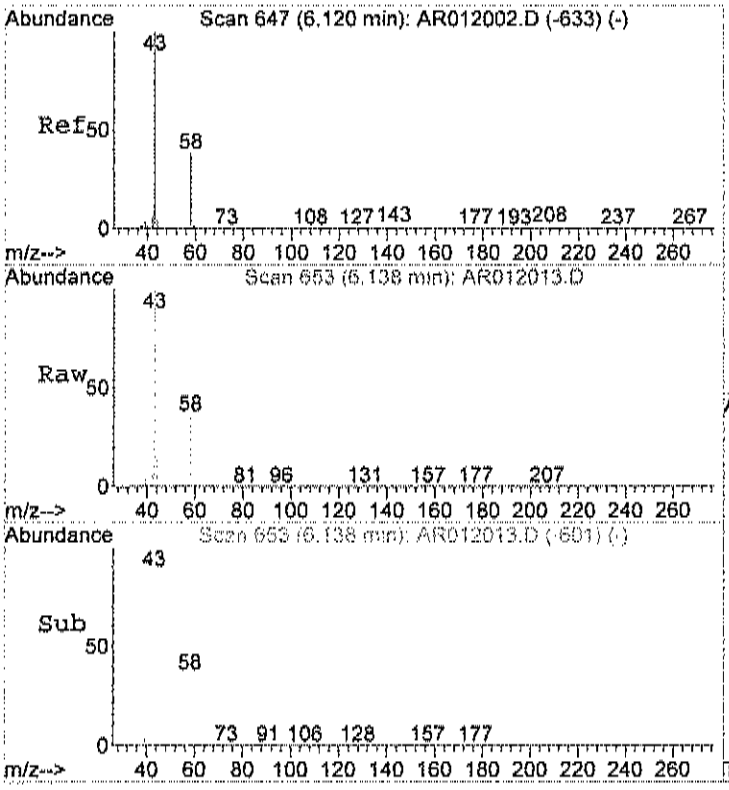


#14
Freon 11
Concen: 0.28 ppb
RT: 5.92 min Scan# 581
Delta R.T. -0.03 min
Lab File: AR012013.D
Acq: 20 Jan 2020 7:46 pm

Tgt Ion:101 Resp: 34103

Ion	Ratio	Lower	Upper
101	100		
103	65.9	44.2	84.2
105	9.6	0.0	30.3

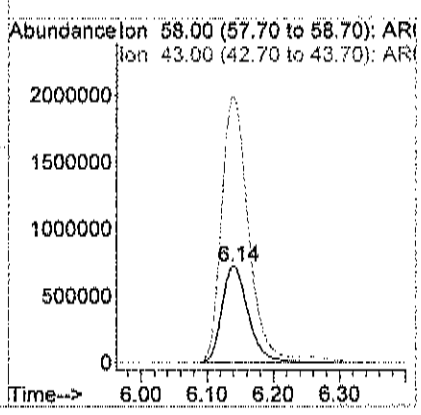


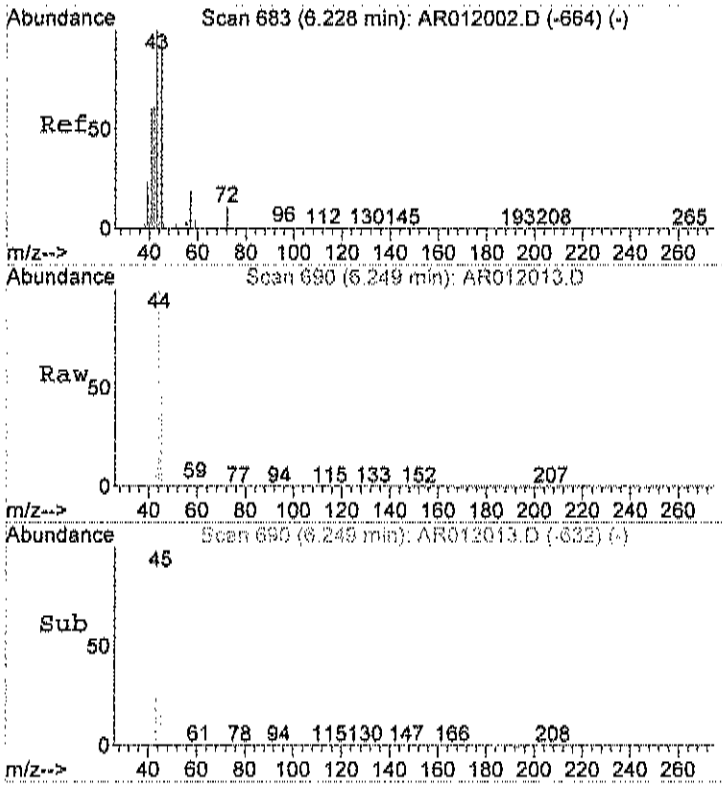


#15
Acetone
Concen: 78.48 ppb
RT: 6.14 min Scan# 653
Delta R.T. 0.01 min
Lab File: AR012013.D
Acq: 20 Jan 2020 7:46 pm

Tgt Ion: 58 Resp: 1993385

Ion	Ratio	Lower	Upper
58	100		
43	286.3	0.0	30.0#

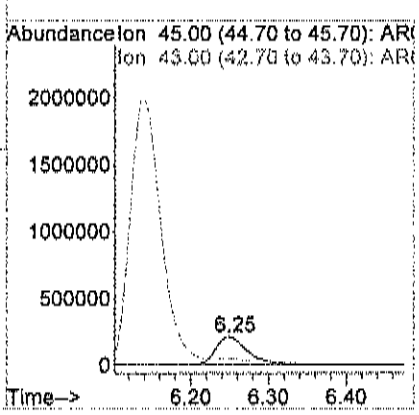


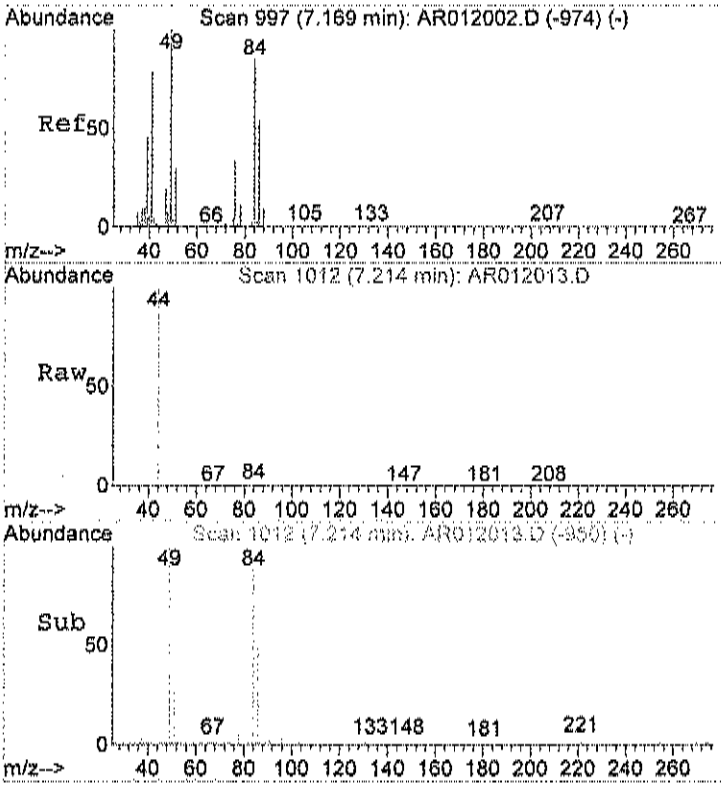


#17
Isopropyl alcohol
Concen: 7.18 ppb
RT: 6.25 min Scan# 690
Delta R.T. 0.02 min
Lab File: AR012013.D
Acq: 20 Jan 2020 7:46 pm

Tgt Ion: 45 Resp: 577786

Ion	Ratio	Lower	Upper
45	100		
43	0.0	196.5	236.5#

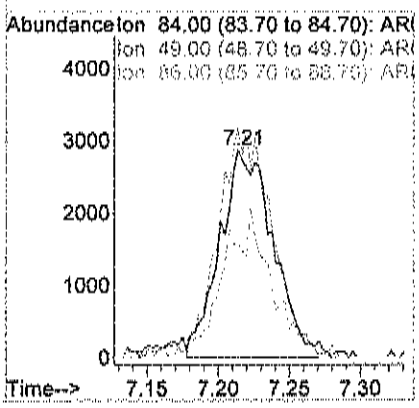


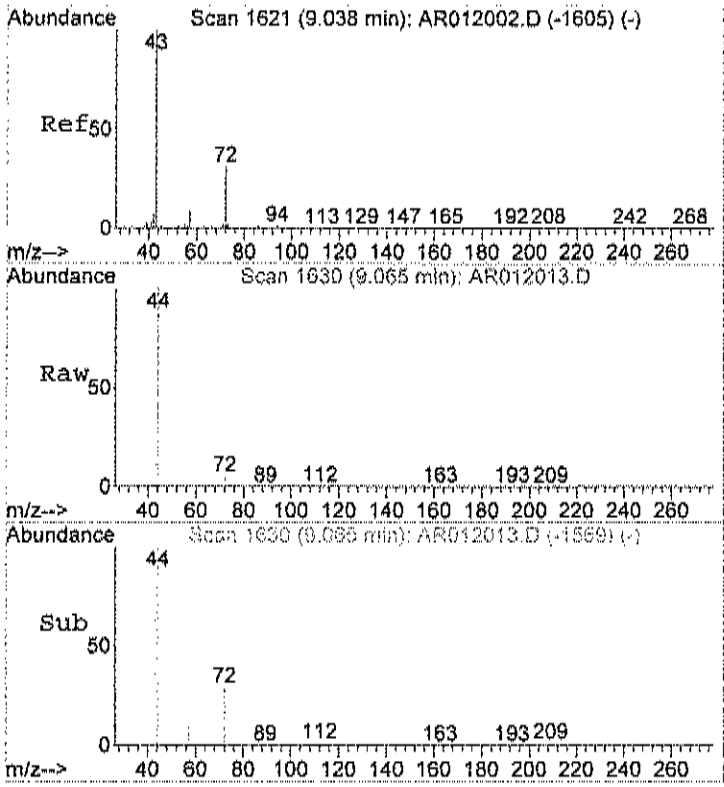


#21
Methylene chloride
Concen: 0.17 ppb
RT: 7.21 min Scan# 1012
Delta R.T. 0.04 min
Lab File: AR012013.D
Acq: 20 Jan 2020 7:46 pm

Tgt Ion: 84 Resp: 7512

Ion	Ratio	Lower	Upper
84	100		
49	114.1	101.4	141.4
86	62.8	45.4	85.4

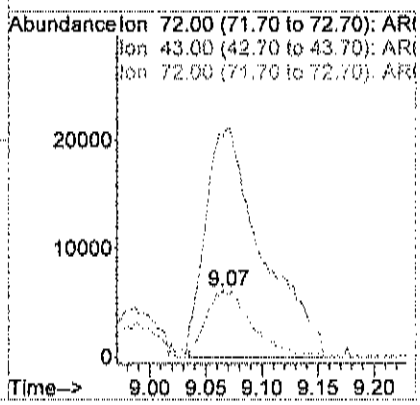


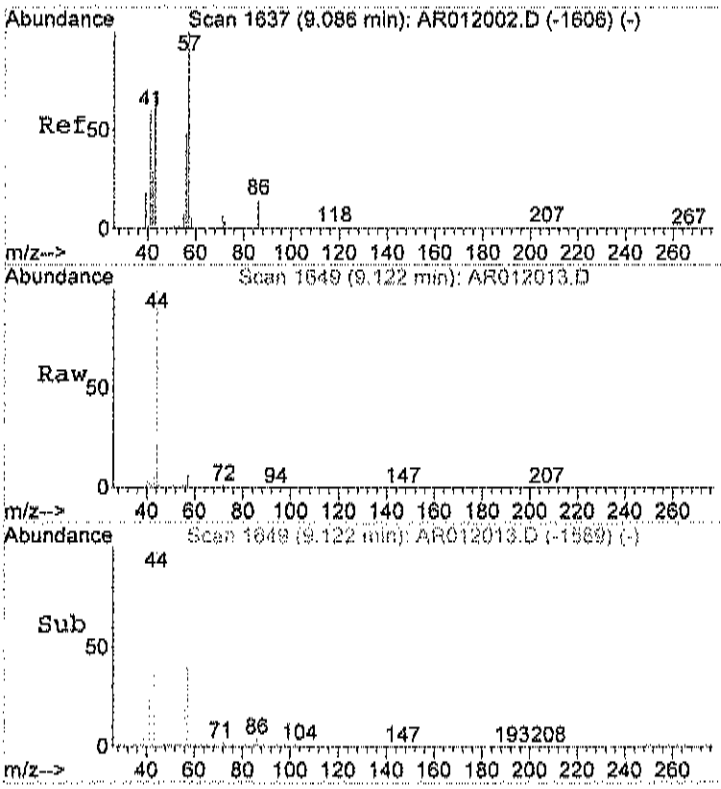


#28
Methyl Ethyl Ketone
Concen: 0.72 ppb
RT: 9.07 min Scan# 1630
Delta R.T. 0.03 min
Lab File: AR012013.D
Acq: 20 Jan 2020 7:46 pm

Tgt Ion: 72 Resp: 17445

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

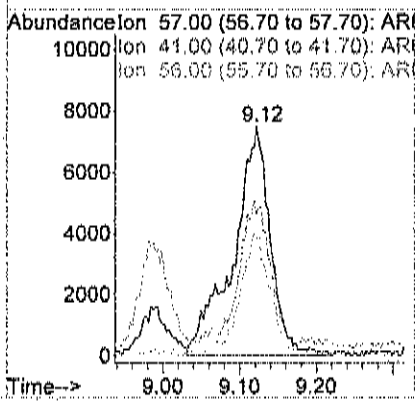


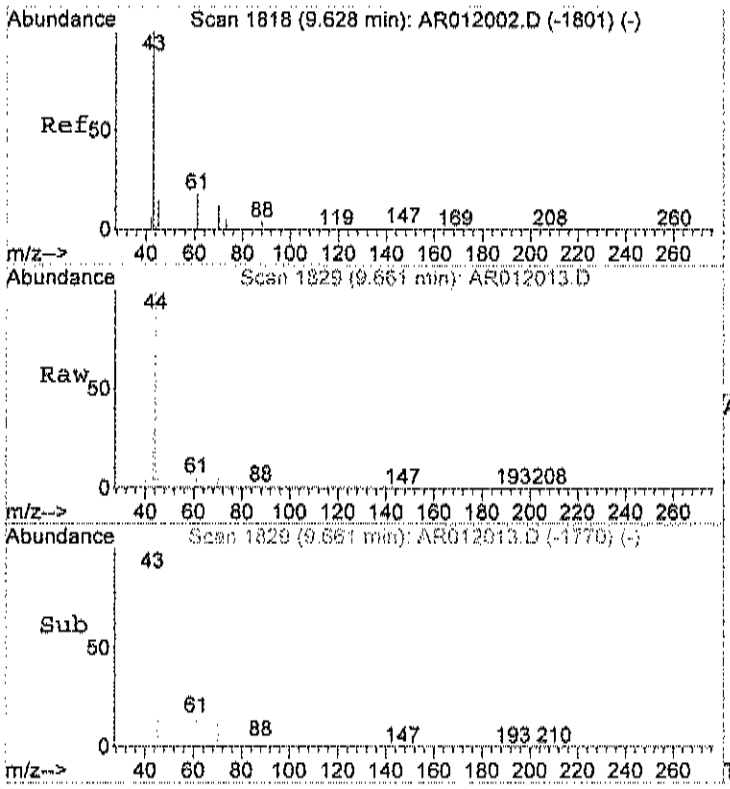


#30
Hexane
Concen: 0.30 ppb
RT: 9.12 min Scan# 1649
Delta R.T. 0.03 min
Lab File: AR012013.D
Acq: 20 Jan 2020 7:46 pm

Tgt Ion: 57 Resp: 25063

Ion	Ratio	Lower	Upper
57	100		
41	59.8	55.7	95.7
56	42.9	32.4	72.4

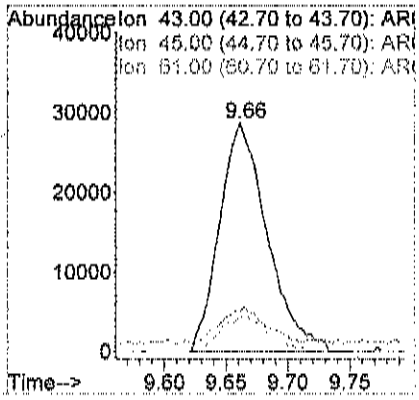


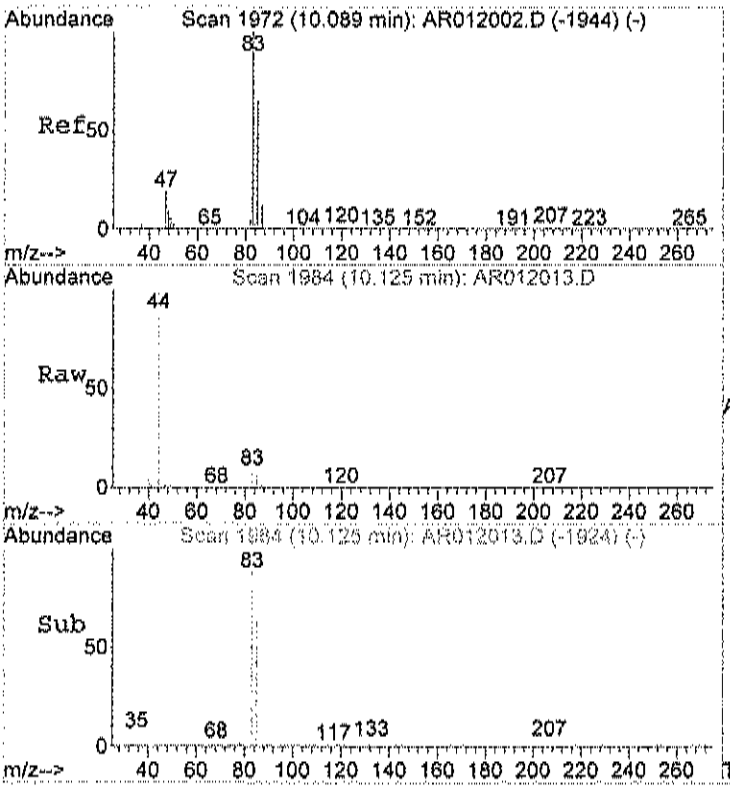


#31
Ethyl acetate
Concen: 0.71 ppb
RT: 9.66 min Scan# 1829
Delta R.T. 0.03 min
Lab File: AR012013.D
Acq: 20 Jan 2020 7:46 pm

Tgt Ion: 43 Resp: 76912

Ion	Ratio	Lower	Upper
43	100		
45	15.4	0.0	34.5
61	15.3	0.0	35.8

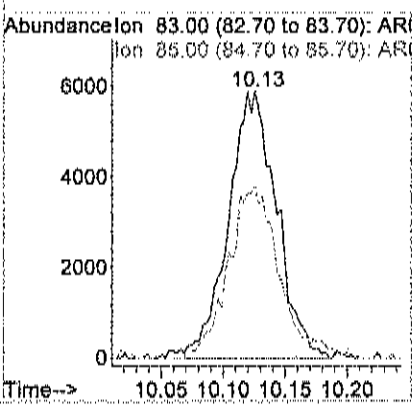


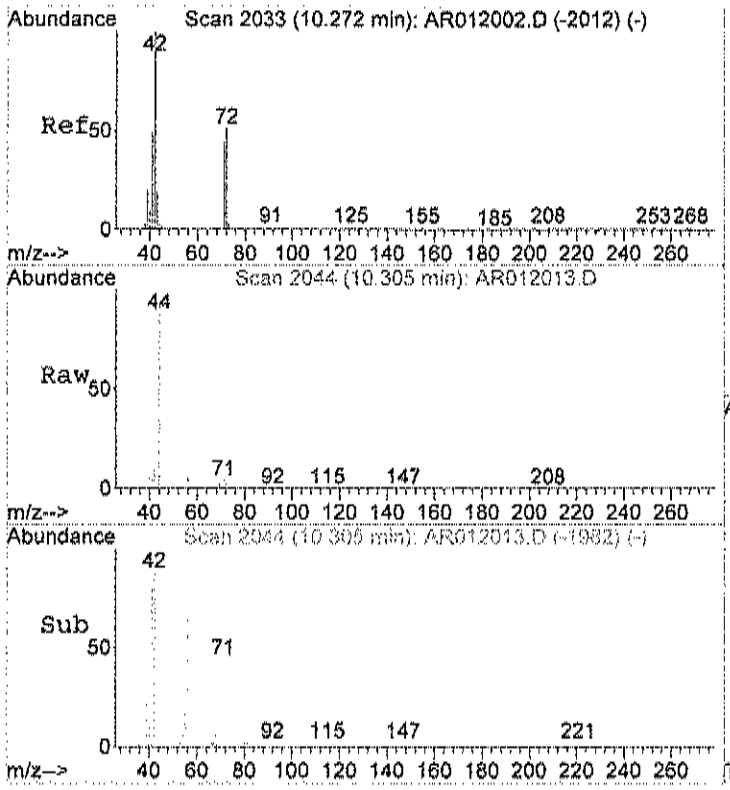


#32
Chloroform
Concen: 0.15 ppb
RT: 10.13 min Scan# 1984
Delta R.T. 0.03 min
Lab File: AR012013.D
Acq: 20 Jan 2020 7:46 pm

Tgt Ion: 83 Resp: 15756

Ion	Ratio	Lower	Upper
83	100		
85	68.1	46.5	86.5

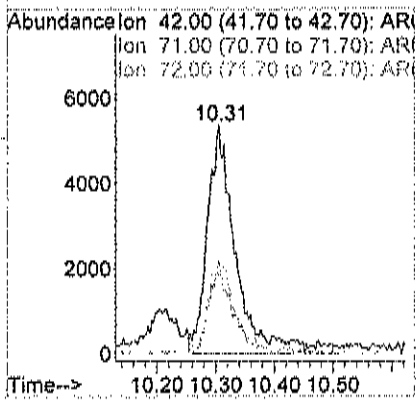


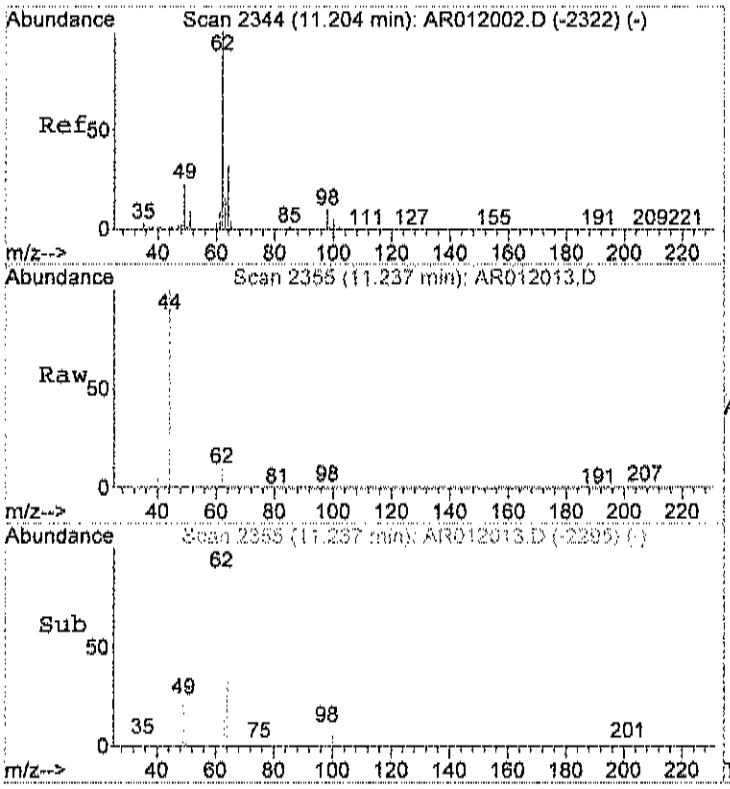


#33
Tetrahydrofuran
Concen: 0.37 ppb m
RT: 10.31 min Scan# 2044
Delta R.T. 0.04 min
Lab File: AR012013.D
Acq: 20 Jan 2020 7:46 pm

Tgt Ion: 42 Resp: 18462

Ion	Ratio	Lower	Upper
42	100		
71	33.0	25.1	65.1
72	35.1	23.3	63.3

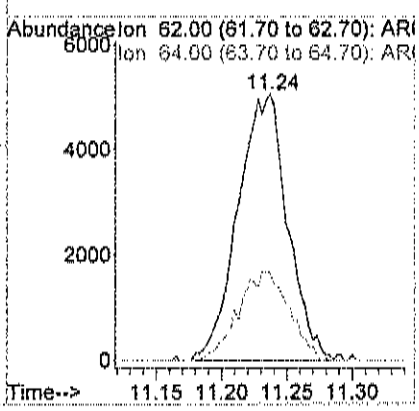


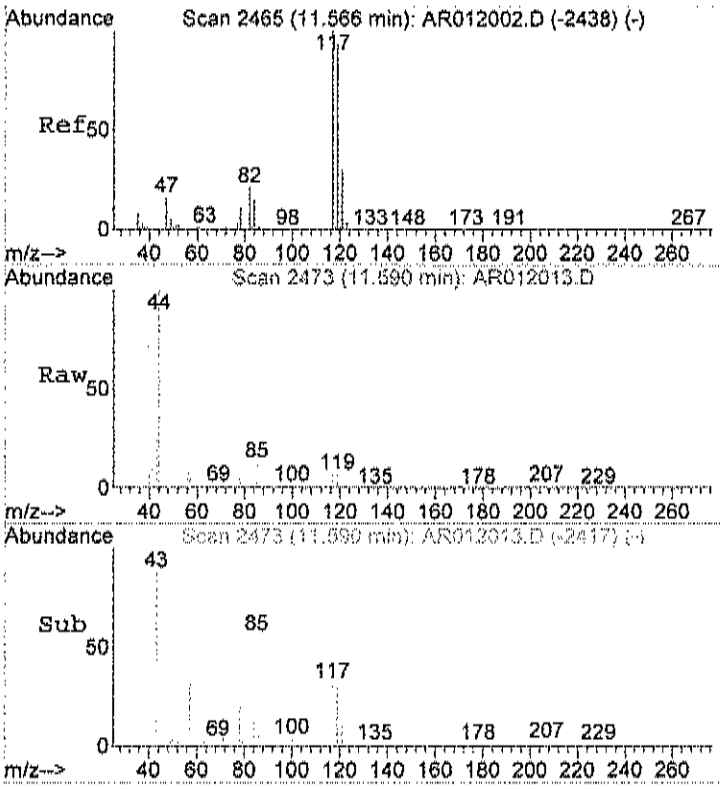


#34
1,2-dichloroethane
Concen: 0.20 ppb
RT: 11.24 min Scan# 2355
Delta R.T. 0.03 min
Lab File: AR012013.D
Acq: 20 Jan 2020 7:46 pm

Tgt Ion: 62 Resp: 13295

Ion	Ratio	Lower	Upper
62	100		
64	34.1	13.5	53.5

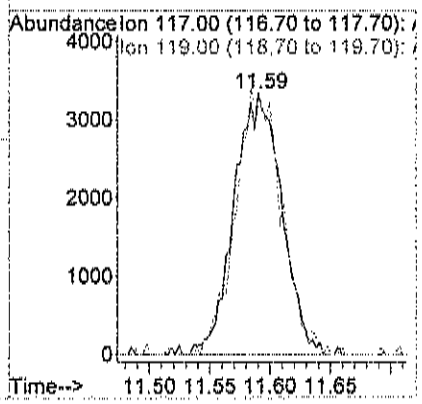


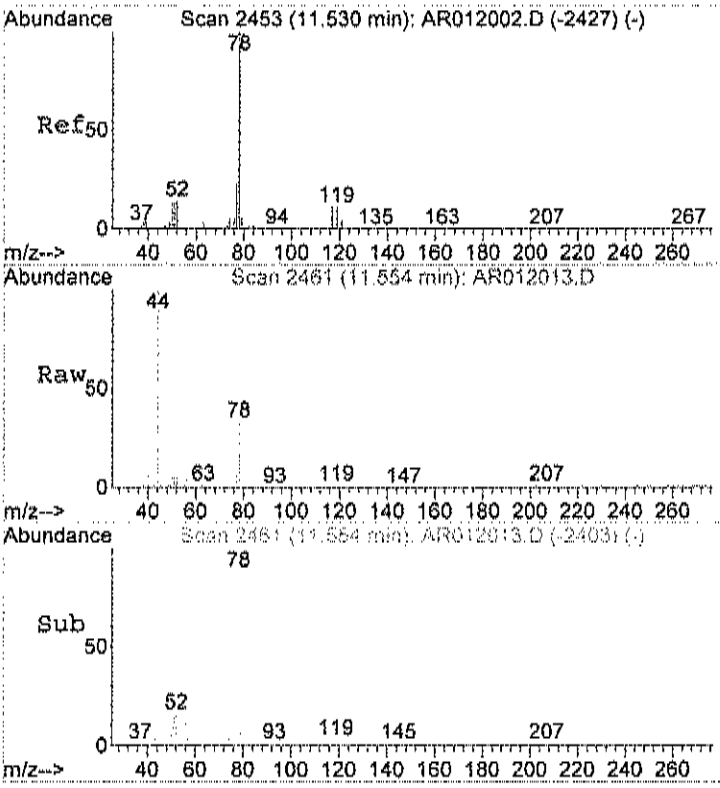


#38
Carbon tetrachloride
Concen: 0.08 ppb
RT: 11.59 min Scan# 2473
Delta R.T. 0.02 min
Lab File: AR012013.D
Acq: 20 Jan 2020 7:46 pm

Tgt Ion:117 Resp: 9145

Ion	Ratio	Lower	Upper
117	100		
119	98.3	75.6	115.6

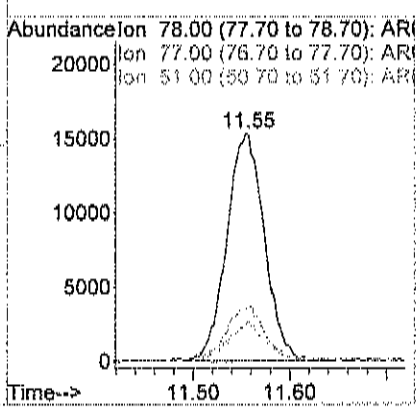


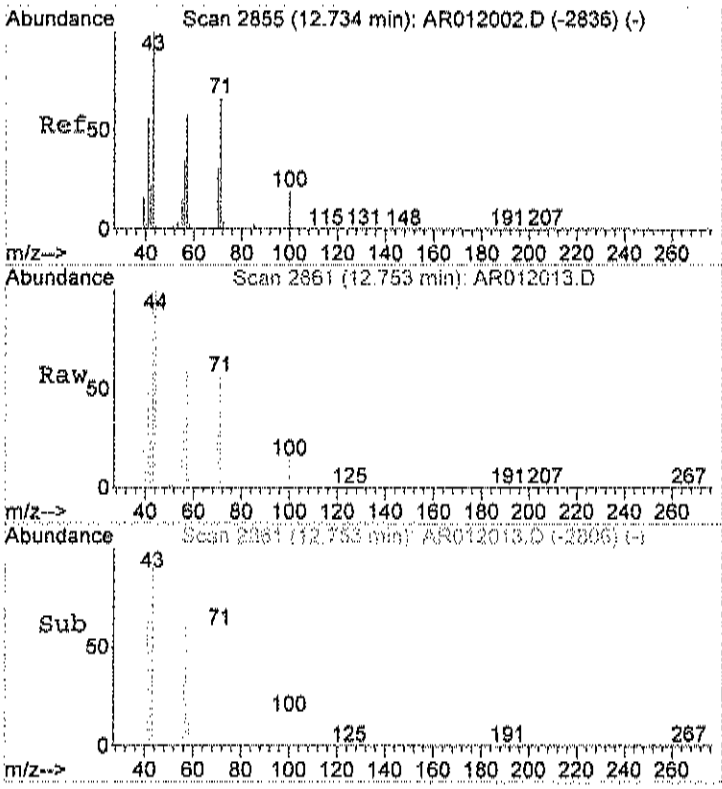


#39
Benzene
Concen: 0.28 ppb
RT: 11.55 min Scan# 2461
Delta R.T. 0.02 min
Lab File: AR012013.D
Acq: 20 Jan 2020 7:46 pm

Tgt Ion: 78 Resp: 41570

Ion	Ratio	Lower	Upper
78	100		
77	24.4	4.1	44.1
51	18.7	0.0	36.8

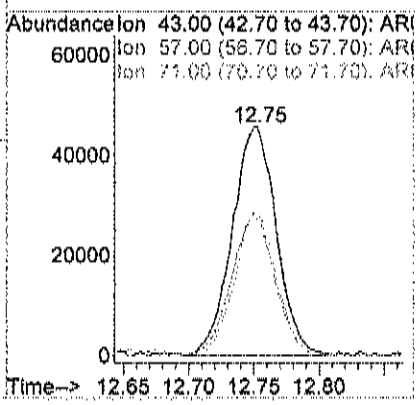


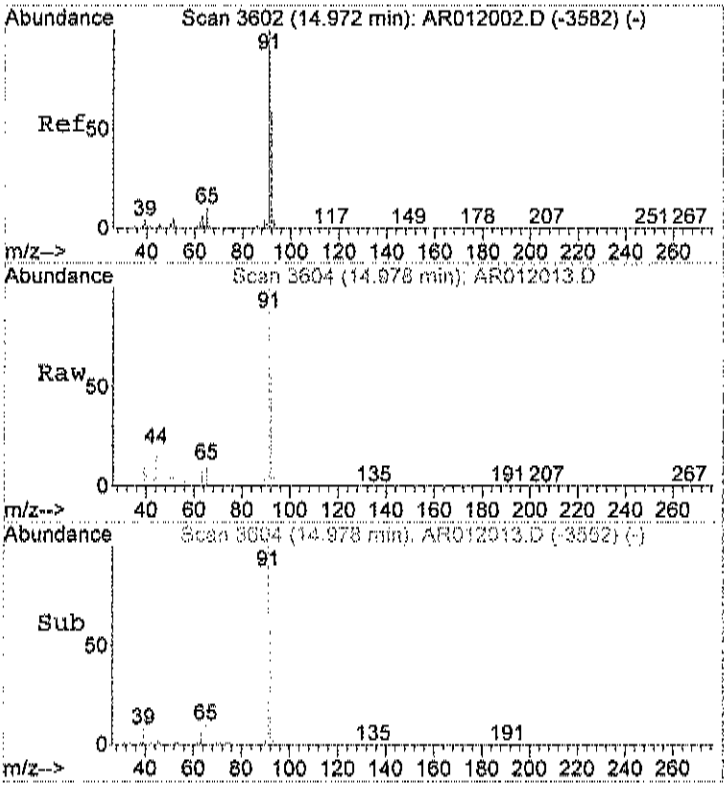


#43
Heptane
Concen: 1.21 ppb
RT: 12.75 min Scan# 2861
Delta R.T. 0.02 min
Lab File: AR012013.D
Acq: 20 Jan 2020 7:46 pm

Tgt Ion: 43 Resp: 107016

Ion	Ratio	Lower	Upper
43	100		
57	62.0	36.0	76.0
71	58.7	42.5	82.5

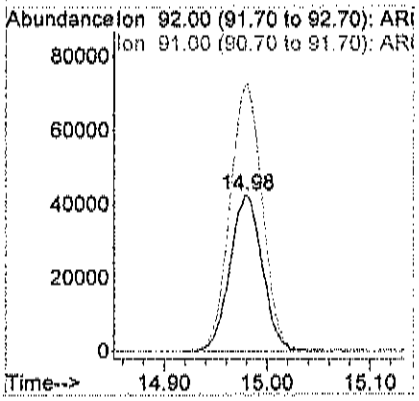


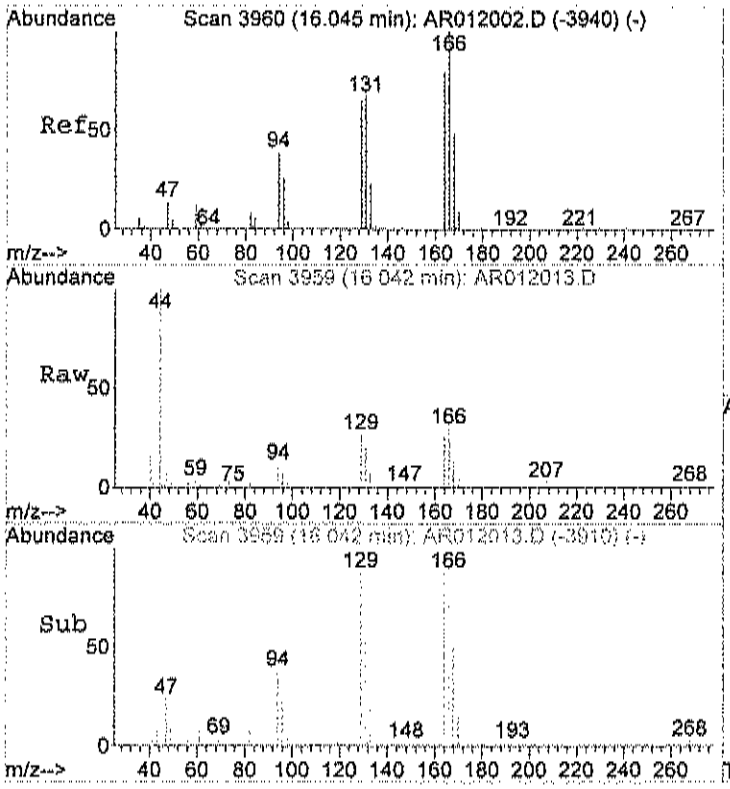


#51
Toluene
Concen: 0.85 ppb
RT: 14.98 min Scan# 3604
Delta R.T. 0.01 min
Lab File: AR012013.D
Acq: 20 Jan 2020 7:46 pm

Tgt Ion: 92 Resp: 92187

Ion	Ratio	Lower	Upper
92	100		
91	172.4	154.5	194.5

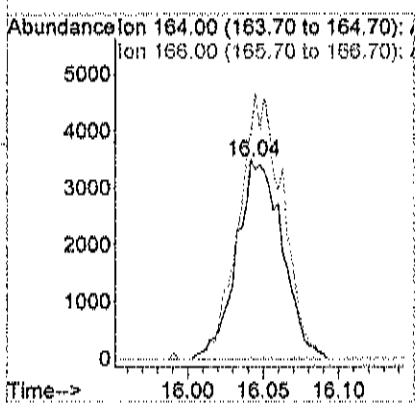


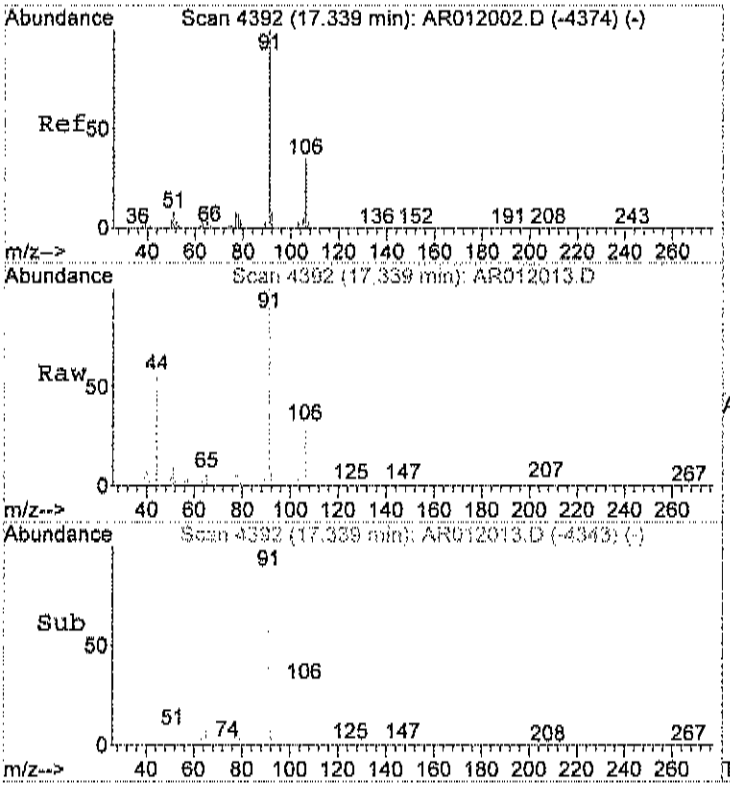


#56
Tetrachloroethylene
Concen: 0.10 ppb
RT: 16.04 min Scan# 3959
Delta R.T. -0.00 min
Lab File: AR012013.D
Acq: 20 Jan 2020 7:46 pm

Tgt Ion:164 Resp: 7347

Ion	Ratio	Lower	Upper
164	100		
166	126.6	106.4	146.4

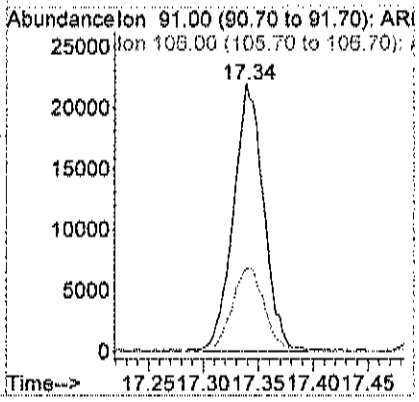


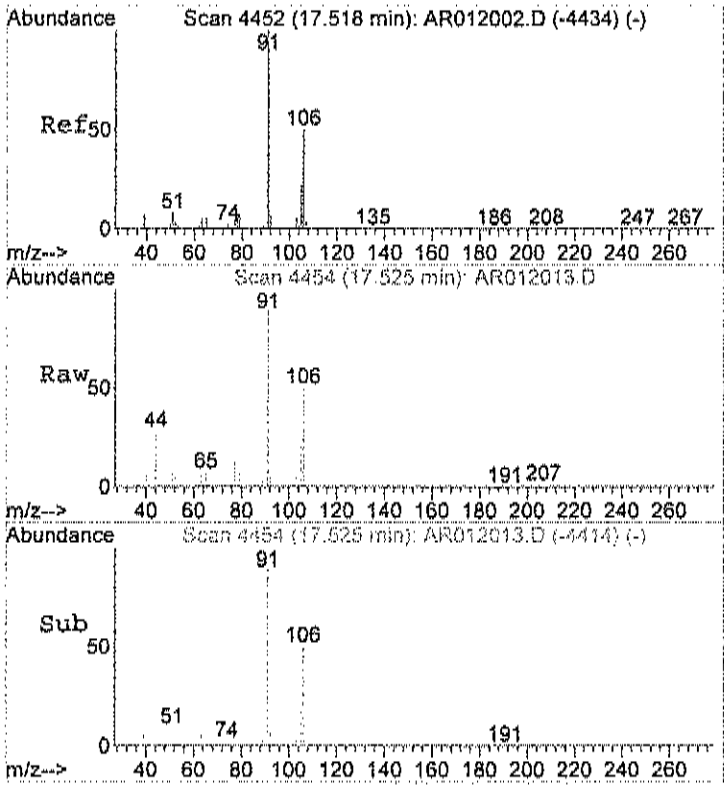


#58
Ethylbenzene
Concen: 0.18 ppb
RT: 17.34 min Scan# 4392
Delta R.T. -0.00 min
Lab File: AR012013.D
Acq: 20 Jan 2020 7:46 pm

Tgt Ion: 91 Resp: 42041

Ion	Ratio	Lower	Upper
91	100		
106	33.0	11.7	51.7

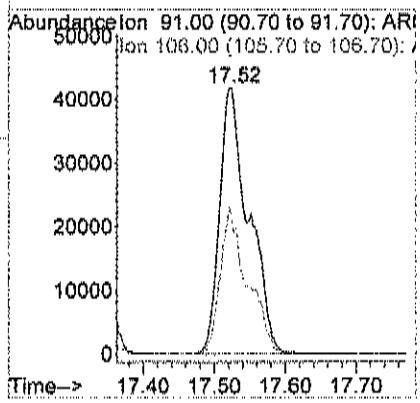


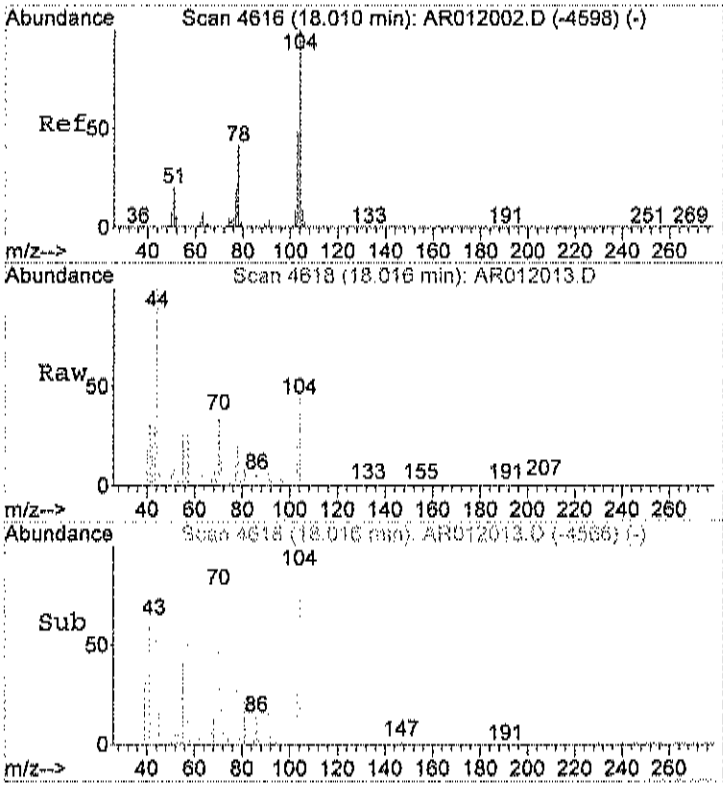


#59
m&p-xylene
Concen: 0.66 ppb
RT: 17.52 min Scan# 4454
Delta R.T. -0.03 min
Lab File: AR012013.D
Acq: 20 Jan 2020 7:46 pm

Tgt Ion: 91 Resp: 119827

Ion	Ratio	Lower	Upper
91	100		
106	51.0	29.0	69.0

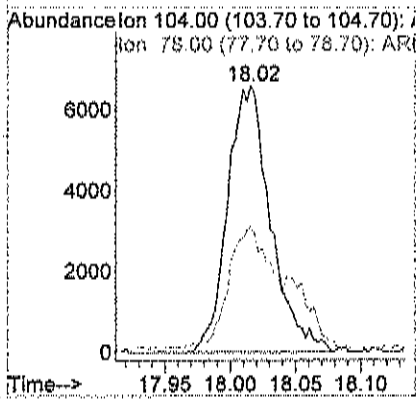


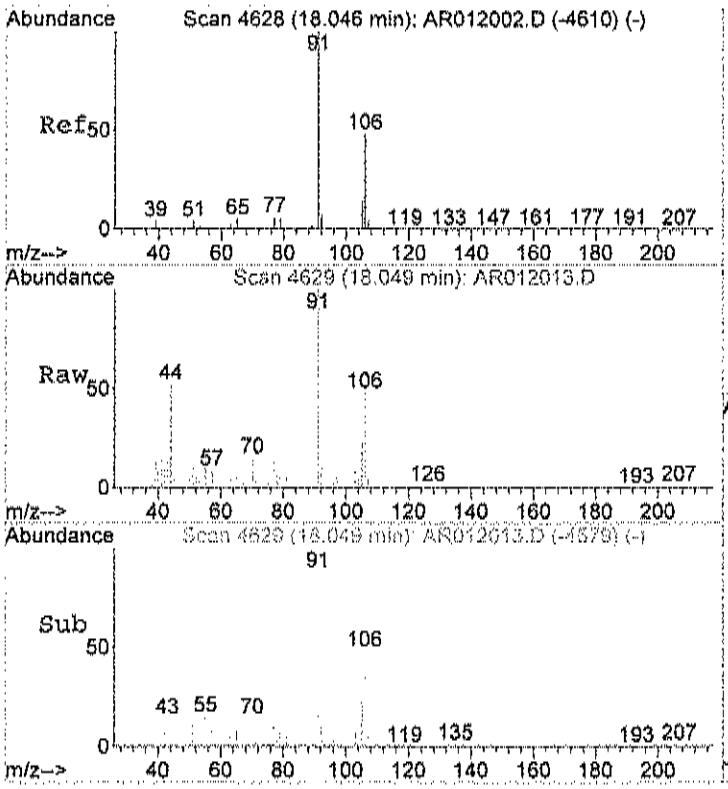


#61
Styrene
Concen: 0.11 ppb
RT: 18.02 min Scan# 4618
Delta R.T. 0.01 min
Lab File: AR012013.D
Acq: 20 Jan 2020 7:46 pm

Tgt Ion:104 Resp: 15071

Ion	Ratio	Lower	Upper
104	100		
78	67.1	34.7	74.7

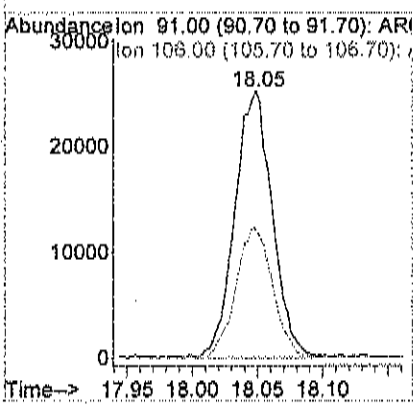


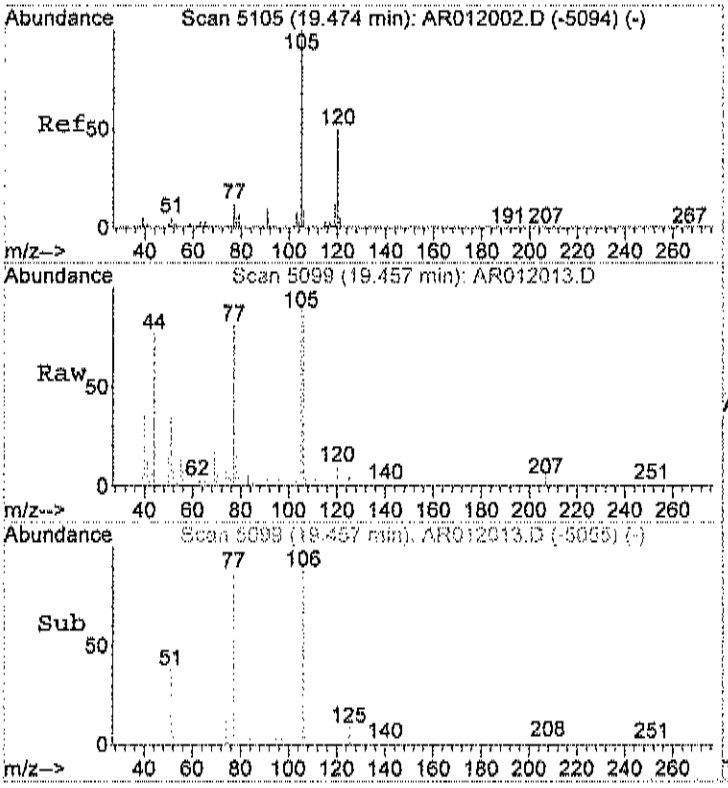


#63
o-xylene
Concen: 0.27 ppb
RT: 18.05 min Scan# 4629
Delta R.T. 0.00 min
Lab File: AR012013.D
Acq: 20 Jan 2020 7:46 pm

Tgt Ion: 91 Resp: 50396

Ion	Ratio	Lower	Upper
91	100		
106	48.0	26.2	66.2

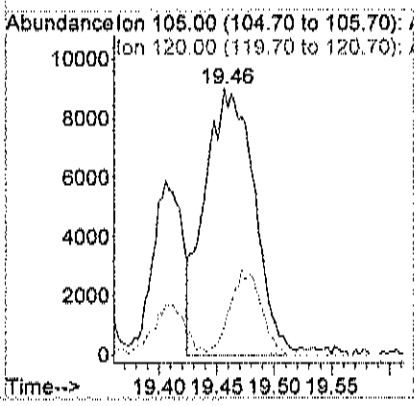


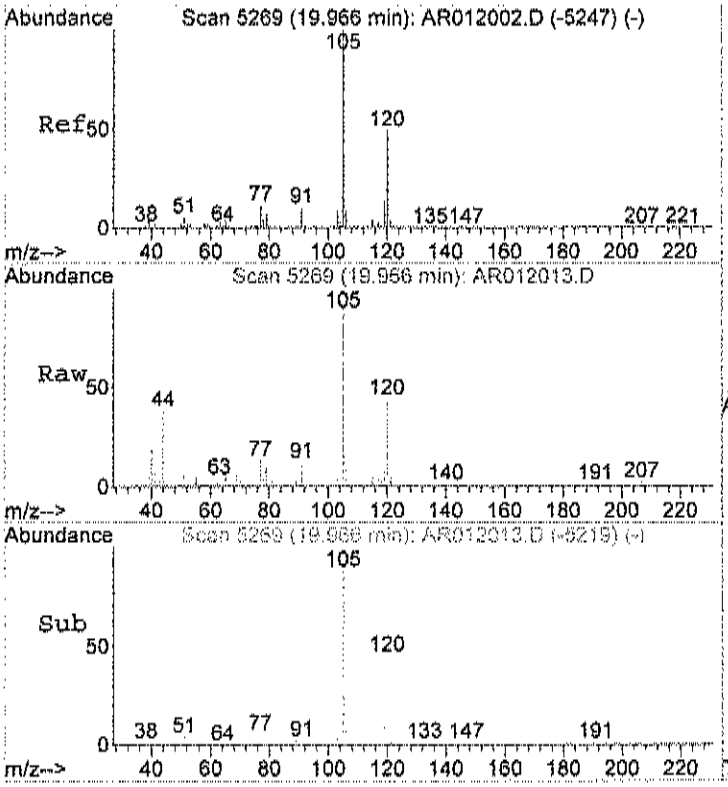


#70
1,3,5-trimethylbenzene
Concen: 0.13 ppb m
RT: 19.46 min Scan# 5099
Delta R.T. -0.02 min
Lab File: AR012013.D
Acq: 20 Jan 2020 7:46 pm

Tgt Ion:105 Resp: 27339

Ion	Ratio	Lower	Upper
105	100		
120	19.6	28.2	68.2#

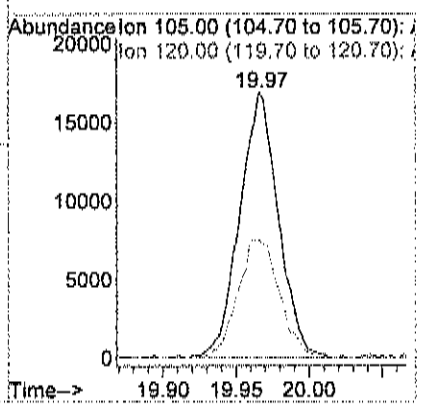




#71
1,2,4-trimethylbenzene
Concen: 0.15 ppb
RT: 19.97 min Scan# 5269
Delta R.T. 0.00 min
Lab File: AR012013.D
Acq: 20 Jan 2020 7:46 pm

Tgt Ion:105 Resp: 31123

Ion	Ratio	Lower	Upper
105	100		
120	48.2	24.9	64.9



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012024.D Vial: 24
Acq On : 21 Jan 2020 4:14 am Operator: RJP
Sample : C2001030-004A 10x Inst : MSD #1
Misc : A116_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 21 08:35:30 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 11:14:36 2020
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

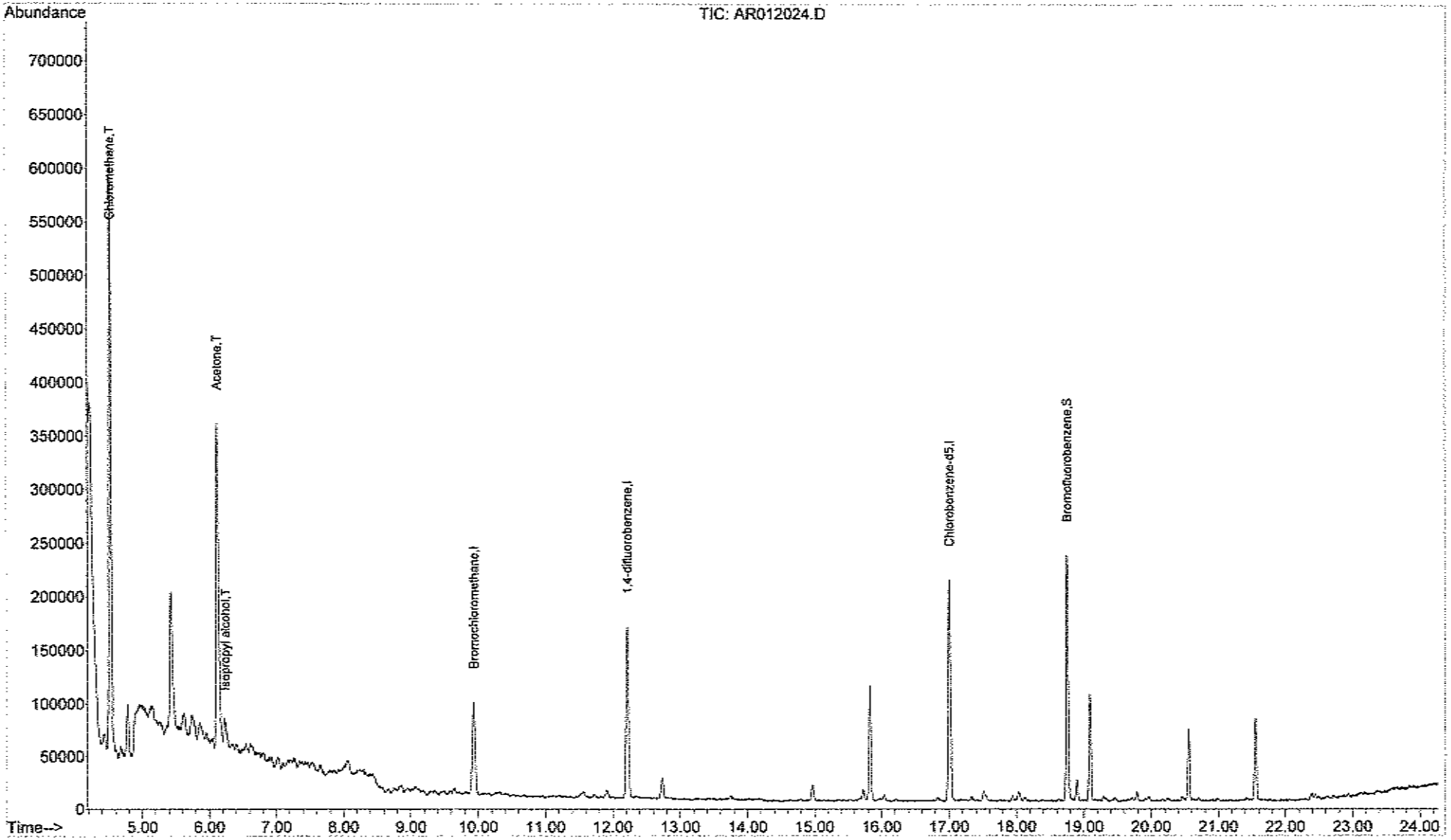
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.94	128	37656	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.21	114	179942	1.00	ppb	0.00
50) Chlorobenzene-d5	17.01	117	152306	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.76	95	95395	0.94	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94.00%			
Target Compounds						Qvalue
4) Chloromethane	4.52	50	11325m	0.50	ppb	
15) Acetone	6.11	58	181002	8.27	ppb	# 100
17) Isopropyl alcohol	6.24	45	41641	0.60	ppb	# 1

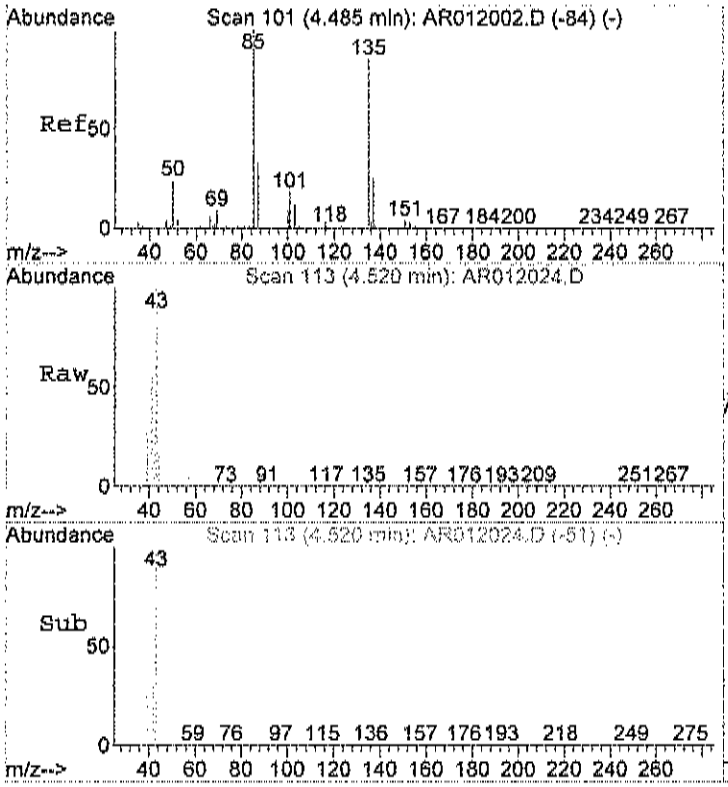
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012024.D Vial: 24
Acq On : 21 Jan 2020 4:14 am Operator: RJP
Sample : C2001030-004A 10x Inst : MSD #1
Misc : A116_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 23 12:21 2020 Quant Results File: A116_1UG.RES

Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
Response via : Initial Calibration

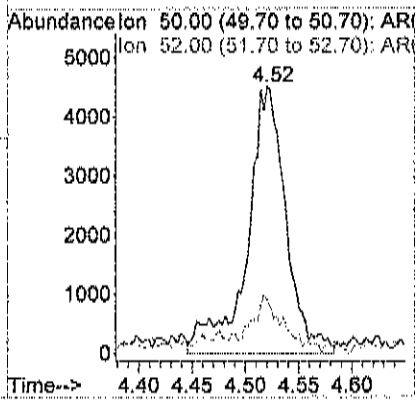


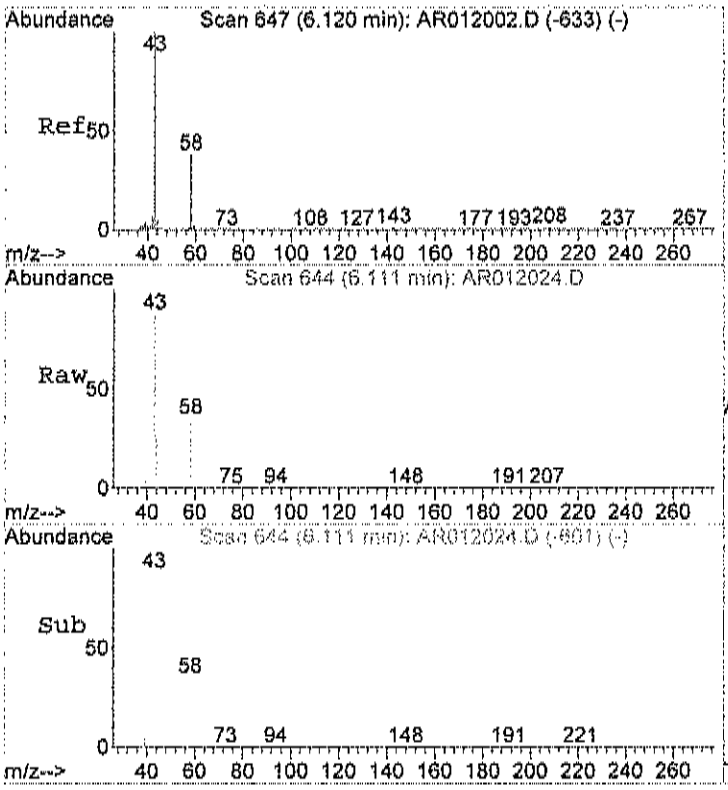


#4
Chloromethane
Concen: 0.50 ppb m
RT: 4.52 min Scan# 113
Delta R.T. 0.04 min
Lab File: AR012024.D
Acq: 21 Jan 2020 4:14 am

Tgt Ion: 50 Resp: 11325

Ion	Ratio	Lower	Upper
50	100		
52	0.0	6.1	46.1#

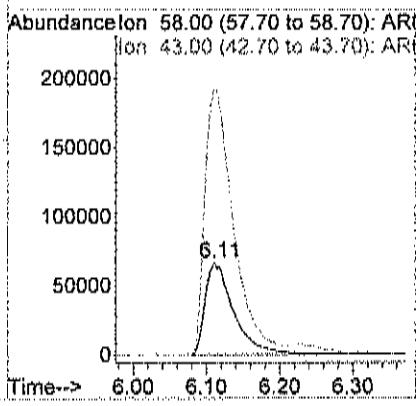


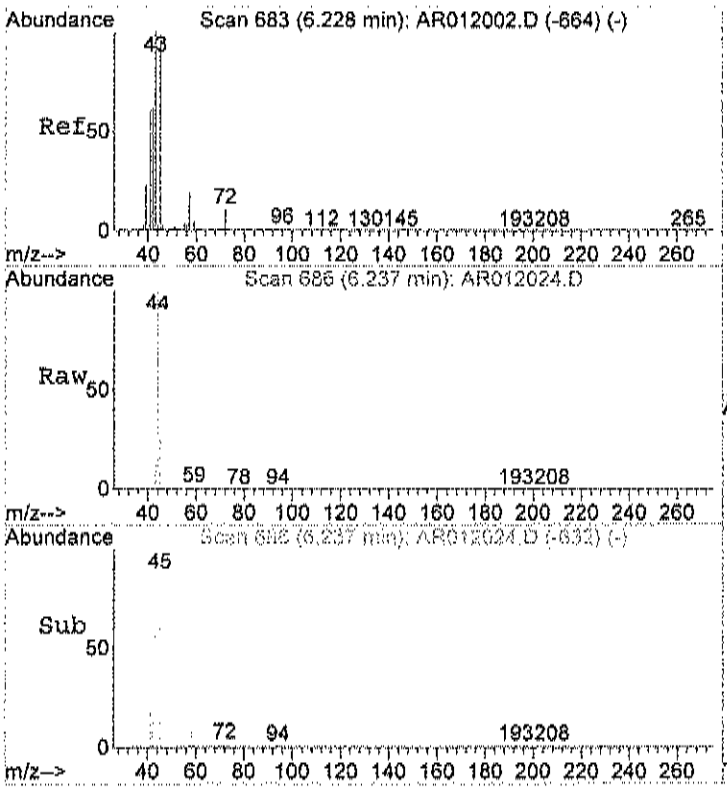


#15
Acetone
Concen: 8.27 ppb
RT: 6.11 min Scan# 644
Delta R.T. -0.02 min
Lab File: AR012024.D
Acq: 21 Jan 2020 4:14 am

Tgt Ion: 58 Resp: 181002

Ion	Ratio	Lower	Upper
58	100		
43	298.7	0.0	30.0#

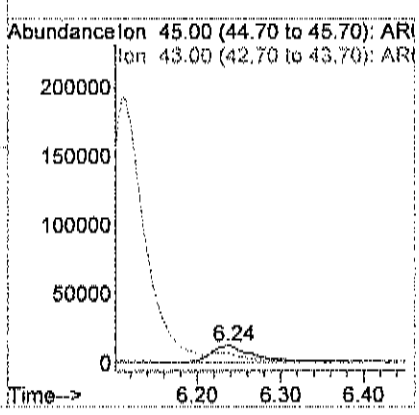




#17
Isopropyl alcohol
Concen: 0.60 ppb
RT: 6.24 min Scan# 686
Delta R.T. 0.01 min
Lab File: AR012024.D
Acq: 21 Jan 2020 4:14 am

Tgt Ion: 45 Resp: 41641

Ion	Ratio	Lower	Upper
45	100		
43	0.0	196.5	236.5#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012025.D Vial: 25
Acq On : 21 Jan 2020 4:59 am Operator: RJP
Sample : C2001030-004A 40x Inst : MSD #1
Misc : A116_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 21 08:35:31 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 11:14:36 2020
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

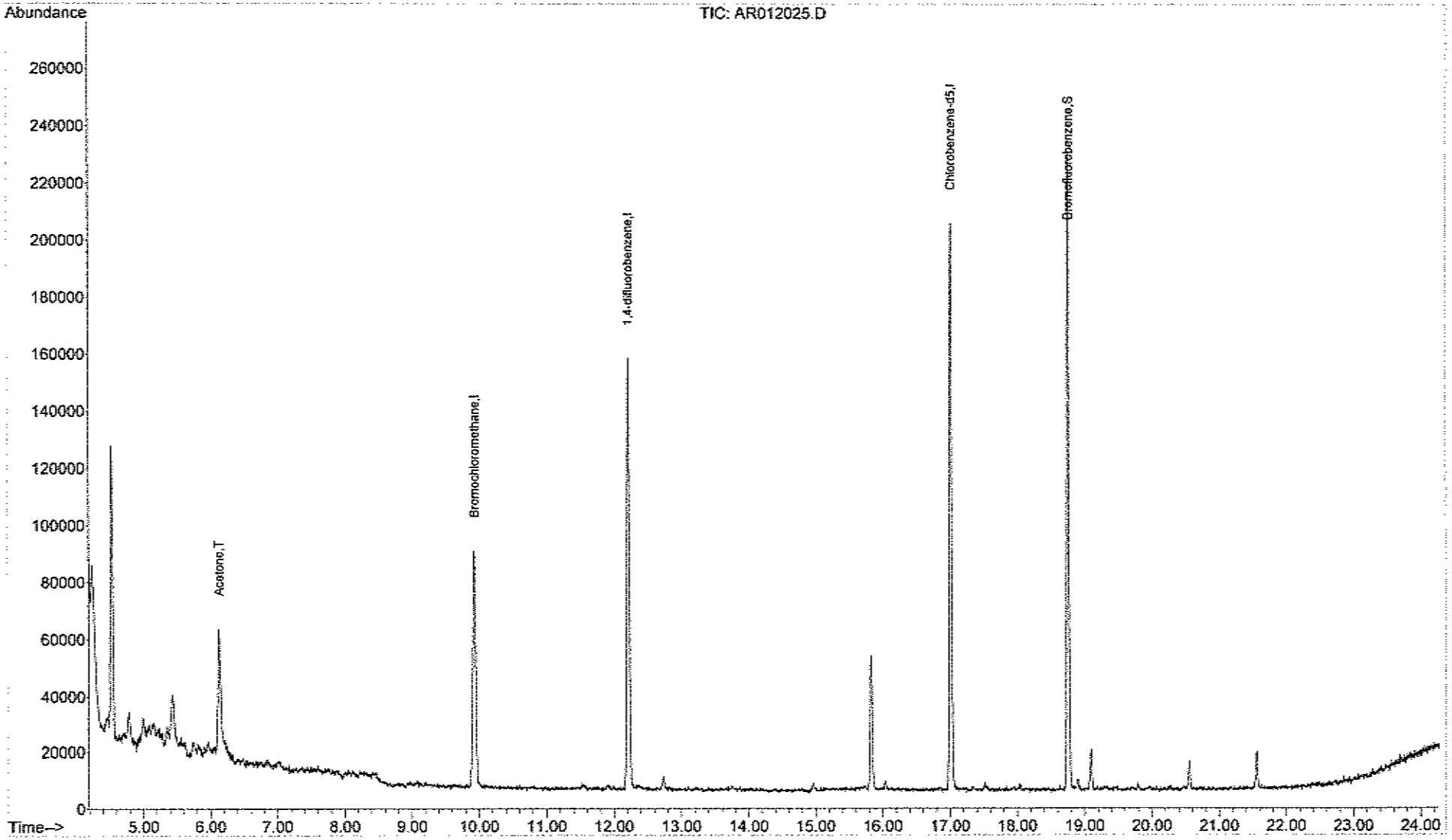
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	9.93	128	36580	1.00 ppb	0.00
35) 1,4-difluorobenzene	12.21	114	172505	1.00 ppb	0.00
50) Chlorobenzene-d5	17.01	117	143387	1.00 ppb	0.00
System Monitoring Compounds					
65) Bromofluorobenzene	18.75	95	91014	0.95 ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%		
Target Compounds					Qvalue
15) Acetone	6.12	58	29348	1.38 ppb	# 100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

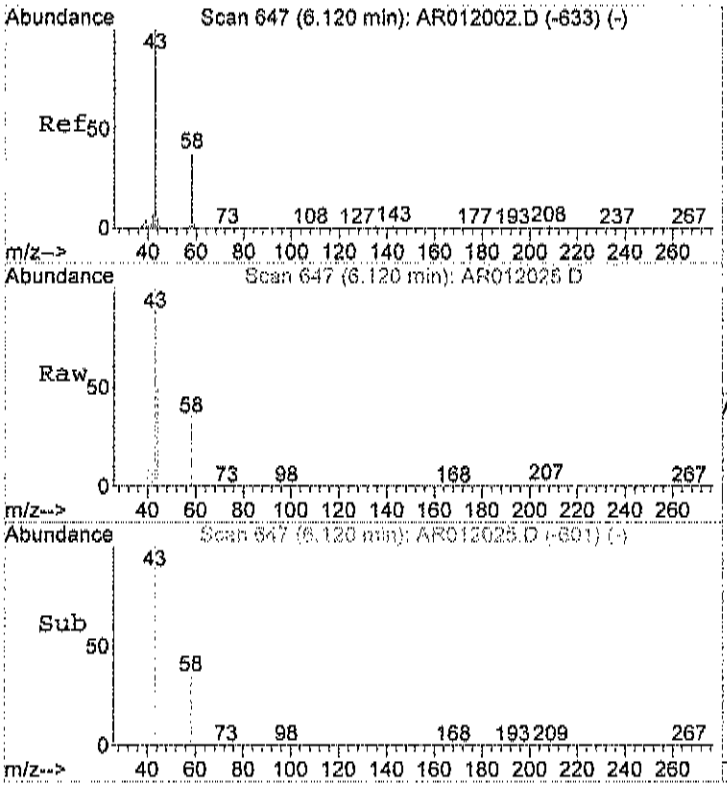
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012025.D Vial: 25
Acq On : 21 Jan 2020 4:59 am Operator: RJP
Sample : C2001030-004A 40x Inst : MSD #1
Misc : A116_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 23 12:22 2020 Quant Results File: A116_1UG.RES

Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
Response via : Initial Calibration



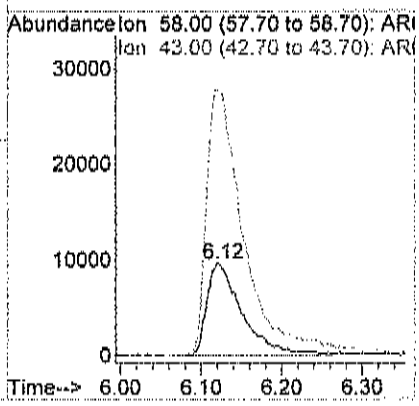
AR012025.D A116_1UG.M Wed Feb 05 10:03:07 2020 MSD1 Page 2



#15
Acetone
Concen: 1.38 ppb
RT: 6.12 min Scan# 647
Delta R.T. -0.01 min
Lab File: AR012025.D
Acq: 21 Jan 2020 4:59 am

Tgt Ion: 58 Resp: 29348

Ion	Ratio	Lower	Upper
58	100		
43	303.9	0.0	30.0#



Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A4-Indoor
Lab Order:	C2001030	**Tag Number:**	1183,372
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-005A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-1			"Hg		1/20/2020
Lab Vacuum Out	-30			"Hg		1/20/2020
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	1/20/2020 8:33:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	1/20/2020 8:33:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
1,2,4-Trimethylbenzene	0.13	0.15	J	ppbV	1	1/20/2020 8:33:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/20/2020 8:33:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Acetone	7.8	3.0		ppbV	10	1/21/2020 5:44:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Benzene	0.18	0.15		ppbV	1	1/20/2020 8:33:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Carbon tetrachloride	0.080	0.030		ppbV	1	1/20/2020 8:33:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Chloroform	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Chloromethane	0.44	0.15		ppbV	1	1/20/2020 8:33:00 PM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	1/20/2020 8:33:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Ethyl acetate	0.18	0.15		ppbV	1	1/20/2020 8:33:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A4-Indoor
Lab Order:	C2001030	**Tag Number:**	1183,372
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-005A	**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	1/20/2020 8:33:00 PM
Freon 11	0.27	0.15		ppbV	1	1/20/2020 8:33:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Freon 12	0.59	0.15		ppbV	1	1/20/2020 8:33:00 PM
Heptane	0.11	0.15	J	ppbV	1	1/20/2020 8:33:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Hexane	0.16	0.15		ppbV	1	1/20/2020 8:33:00 PM
Isopropyl alcohol	1.3	0.15		ppbV	1	1/20/2020 8:33:00 PM
m&p-Xylene	0.24	0.30	J	ppbV	1	1/20/2020 8:33:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/20/2020 8:33:00 PM
Methyl Ethyl Ketone	0.43	0.30		ppbV	1	1/20/2020 8:33:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/20/2020 8:33:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Methylene chloride	0.16	0.15		ppbV	1	1/20/2020 8:33:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Tetrachloroethylene	0.12	0.15	J	ppbV	1	1/20/2020 8:33:00 PM
Tetrahydrofuran	0.23	0.15		ppbV	1	1/20/2020 8:33:00 PM
Toluene	0.42	0.15		ppbV	1	1/20/2020 8:33:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Trichloroethene	< 0.030	0.030		ppbV	1	1/20/2020 8:33:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/20/2020 8:33:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	1/20/2020 8:33:00 PM
Surr: Bromofluorobenzene	102	70-130		%REC	1	1/20/2020 8:33:00 PM

Qualifiers:				
	SC	Sub-Contracted	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A4-Indoor
Lab Order:	C2001030	**Tag Number:**	1183,372
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-005A	**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	1/20/2020 8:33:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/20/2020 8:33:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	1/20/2020 8:33:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	1/20/2020 8:33:00 PM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 8:33:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/20/2020 8:33:00 PM
1,2,4-Trimethylbenzene	0.64	0.74	J	ug/m3	1	1/20/2020 8:33:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/20/2020 8:33:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 8:33:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	1/20/2020 8:33:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	1/20/2020 8:33:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	1/20/2020 8:33:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	1/20/2020 8:33:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 8:33:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 8:33:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/20/2020 8:33:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	1/20/2020 8:33:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	1/20/2020 8:33:00 PM
Acetone	19	7.1		ug/m3	10	1/21/2020 5:44:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	1/20/2020 8:33:00 PM
Benzene	0.57	0.48		ug/m3	1	1/20/2020 8:33:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	1/20/2020 8:33:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/20/2020 8:33:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/20/2020 8:33:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	1/20/2020 8:33:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/20/2020 8:33:00 PM
Carbon tetrachloride	0.50	0.19		ug/m3	1	1/20/2020 8:33:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	1/20/2020 8:33:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/20/2020 8:33:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	1/20/2020 8:33:00 PM
Chloromethane	0.91	0.31		ug/m3	1	1/20/2020 8:33:00 PM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 8:33:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/20/2020 8:33:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/20/2020 8:33:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/20/2020 8:33:00 PM
Ethyl acetate	0.65	0.54		ug/m3	1	1/20/2020 8:33:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	1/20/2020 8:33:00 PM
Freon 11	1.5	0.84		ug/m3	1	1/20/2020 8:33:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	1/20/2020 8:33:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	1/20/2020 8:33:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A4-Indoor
Lab Order:	C2001030	**Tag Number:**	1183,372
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-005A	**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	2.9	0.74		ug/m3	1	1/20/2020 8:33:00 PM
Heptane	0.45	0.61	J	ug/m3	1	1/20/2020 8:33:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/20/2020 8:33:00 PM
Hexane	0.56	0.53		ug/m3	1	1/20/2020 8:33:00 PM
Isopropyl alcohol	3.1	0.37		ug/m3	1	1/20/2020 8:33:00 PM
m&p-Xylene	1.0	1.3	J	ug/m3	1	1/20/2020 8:33:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/20/2020 8:33:00 PM
Methyl Ethyl Ketone	1.3	0.88		ug/m3	1	1/20/2020 8:33:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/20/2020 8:33:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	1/20/2020 8:33:00 PM
Methylene chloride	0.56	0.52		ug/m3	1	1/20/2020 8:33:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	1/20/2020 8:33:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/20/2020 8:33:00 PM
Styrene	< 0.64	0.64		ug/m3	1	1/20/2020 8:33:00 PM
Tetrachloroethylene	0.81	1.0	J	ug/m3	1	1/20/2020 8:33:00 PM
Tetrahydrofuran	0.68	0.44		ug/m3	1	1/20/2020 8:33:00 PM
Toluene	1.6	0.57		ug/m3	1	1/20/2020 8:33:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	1/20/2020 8:33:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/20/2020 8:33:00 PM
Trichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 8:33:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	1/20/2020 8:33:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	1/20/2020 8:33:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	1/20/2020 8:33:00 PM

Qualifiers:				
	SC	Sub-Contracted	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012014.D Vial: 14
Acq On : 20 Jan 2020 8:33 pm Operator: RJP
Sample : C2001030-005A Inst : MSD #1
Misc : A116_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 21 08:35:20 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 11:14:36 2020
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

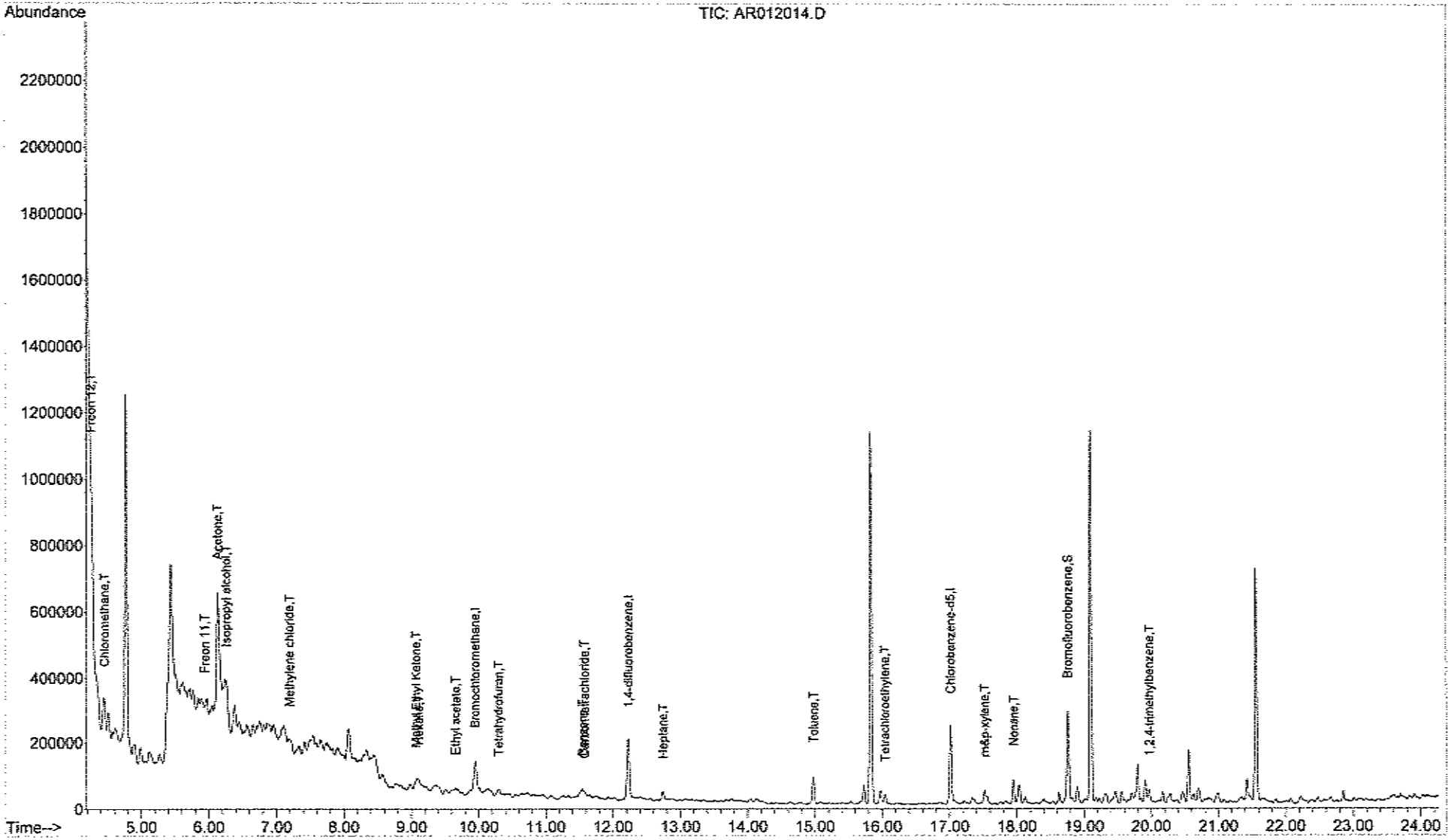
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.95	128	43265	1.00	ppb		0.02
35) 1,4-difluorobenzene	12.23	114	199717	1.00	ppb		0.00
50) Chlorobenzene-d5	17.01	117	173549	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.76	95	118344	1.02	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery	= 102.00%			
Target Compounds							Qvalue
3) Freon 12	4.26	85	66608	0.59	ppb		99
4) Chloromethane	4.46	50	11431	0.44	ppb		87
14) Freon 11	5.93	101	32684	0.27	ppb		96
15) Acetone	6.13	58	193829	7.71	ppb	#	100
17) Isopropyl alcohol	6.25	45	100089	1.26	ppb	#	1
21) Methylene chloride	7.20	84	7046	0.16	ppb		99
28) Methyl Ethyl Ketone	9.06	72	10205	0.43	ppb	#	100
30) Hexane	9.11	57	13750	0.16	ppb		83
31) Ethyl acetate	9.65	43	18932	0.18	ppb		97
33) Tetrahydrofuran	10.30	42	11360m	0.23	ppb		
38) Carbon tetrachloride	11.58	117	8666	0.08	ppb		99
39) Benzene	11.55	78	26967	0.18	ppb		99
43) Heptane	12.75	43	9246	0.11	ppb	#	66
51) Toluene	14.98	92	44231	0.42	ppb		100
56) Tetrachloroethylene	16.04	164	8087	0.12	ppb		96
59) m&p-xylene	17.52	91	42285	0.24	ppb		98
60) Nonane	17.95	43	26039	0.21	ppb		97
71) 1,2,4-trimethylbenzene	19.96	105	25916	0.13	ppb		99

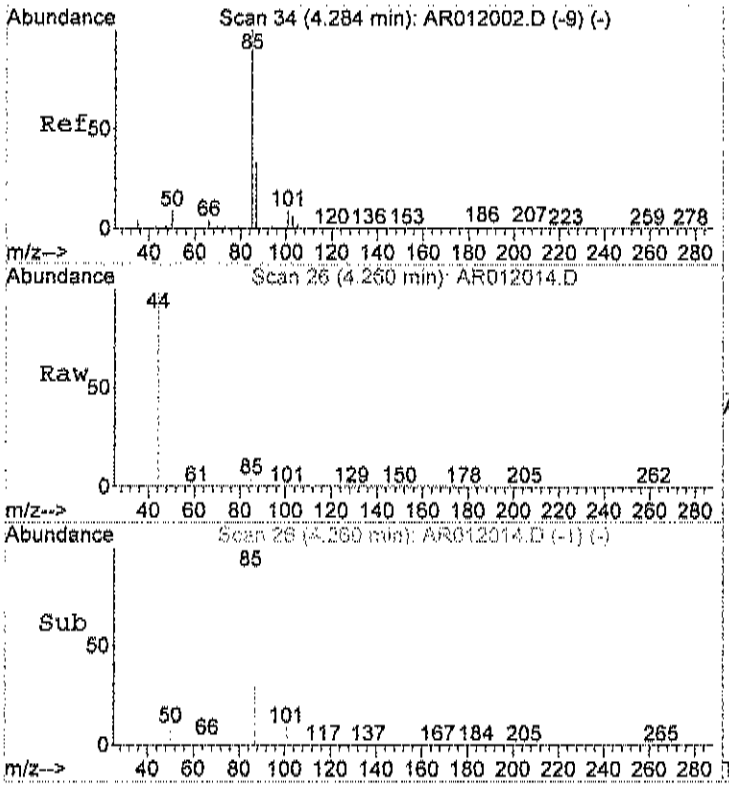
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012014.D Vial: 14
Acq On : 20 Jan 2020 8:33 pm Operator: RJP
Sample : C2001030-005A Inst : MSD #1
Misc : A116_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 23 8:51 2020 Quant Results File: A116_1UG.RES

Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
Response via : Initial Calibration

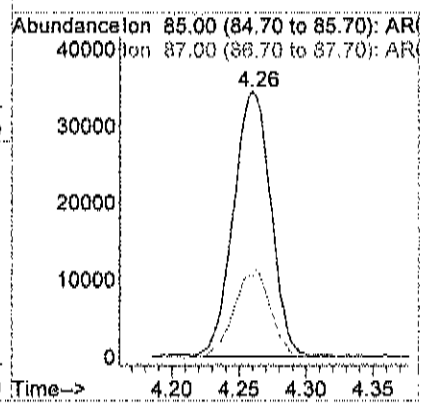


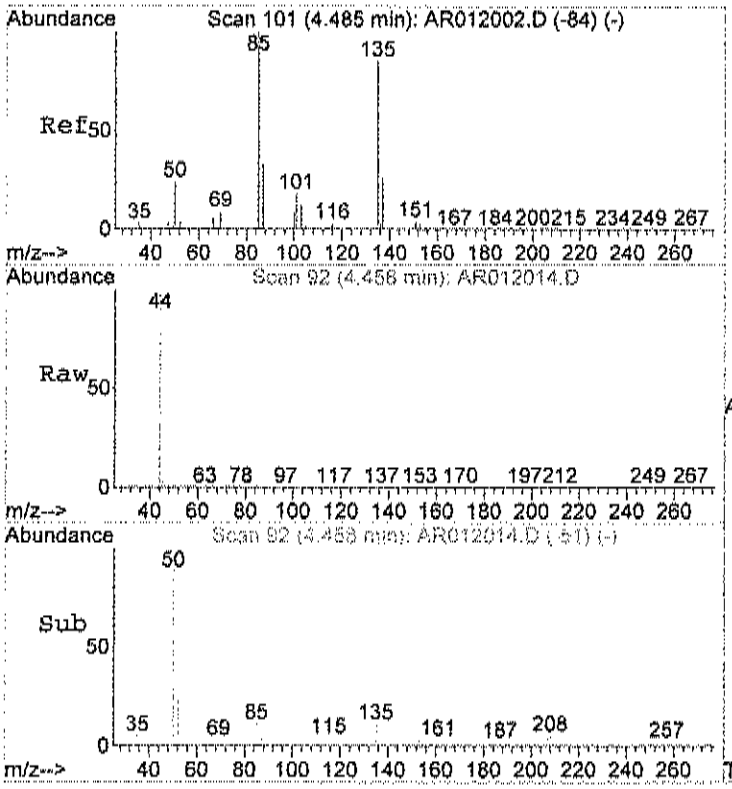


#3
Freon 12
Concen: 0.59 ppb
RT: 4.26 min Scan# 26
Delta R.T. -0.02 min
Lab File: AR012014.D
Acq: 20 Jan 2020 8:33 pm

Tgt Ion: 85 Resp: 66608

Ion	Ratio	Lower	Upper
85	100		
87	32.6	11.9	51.9

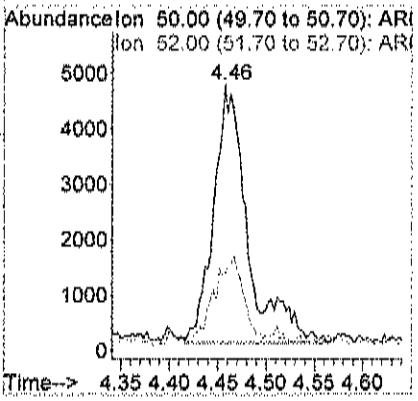


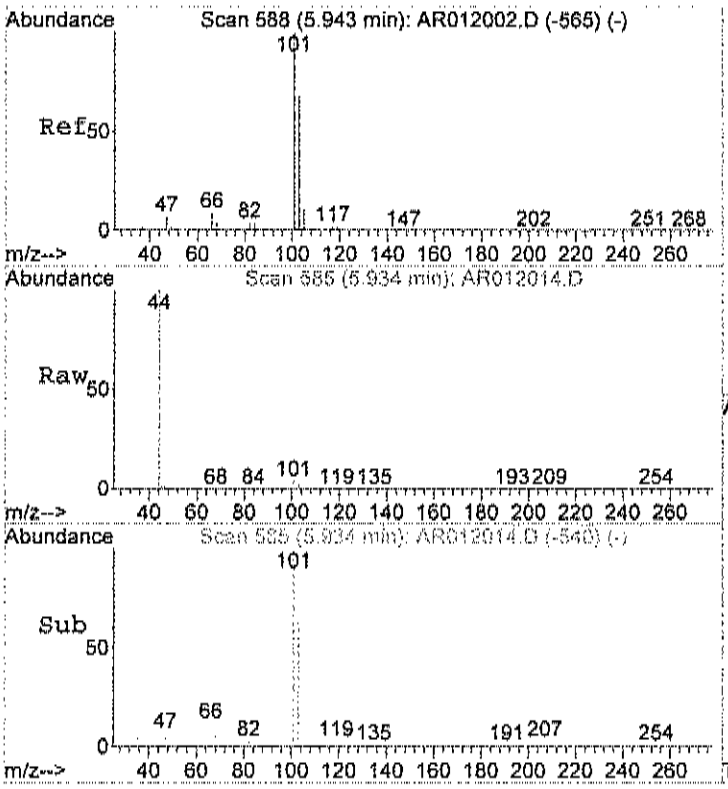


#4
Chloromethane
Concen: 0.44 ppb
RT: 4.46 min Scan# 92
Delta R.T. -0.03 min
Lab File: AR012014.D
Acq: 20 Jan 2020 8:33 pm

Tgt Ion: 50 Resp: 11431

Ion	Ratio	Lower	Upper
50	100		
52	32.9	6.1	46.1

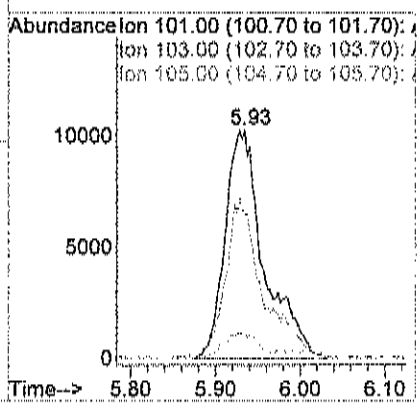


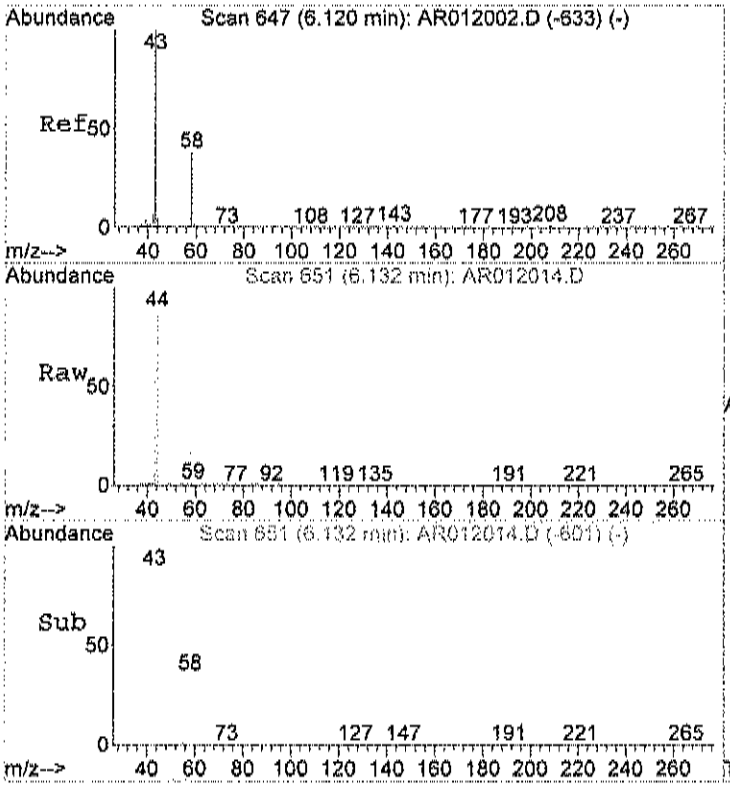


#14
Freon 11
Concen: 0.27 ppb
RT: 5.93 min Scan# 585
Delta R.T. -0.02 min
Lab File: AR012014.D
Acq: 20 Jan 2020 8:33 pm

Tgt Ion:101 Resp: 32684

Ion	Ratio	Lower	Upper
101	100		
103	67.3	44.2	84.2
105	12.2	0.0	30.3

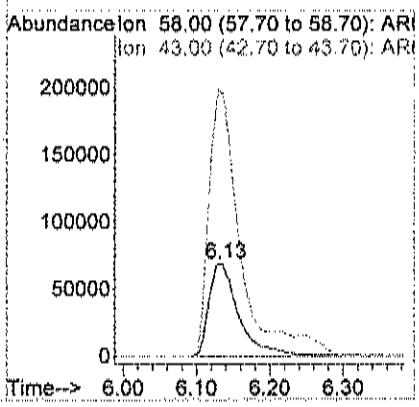


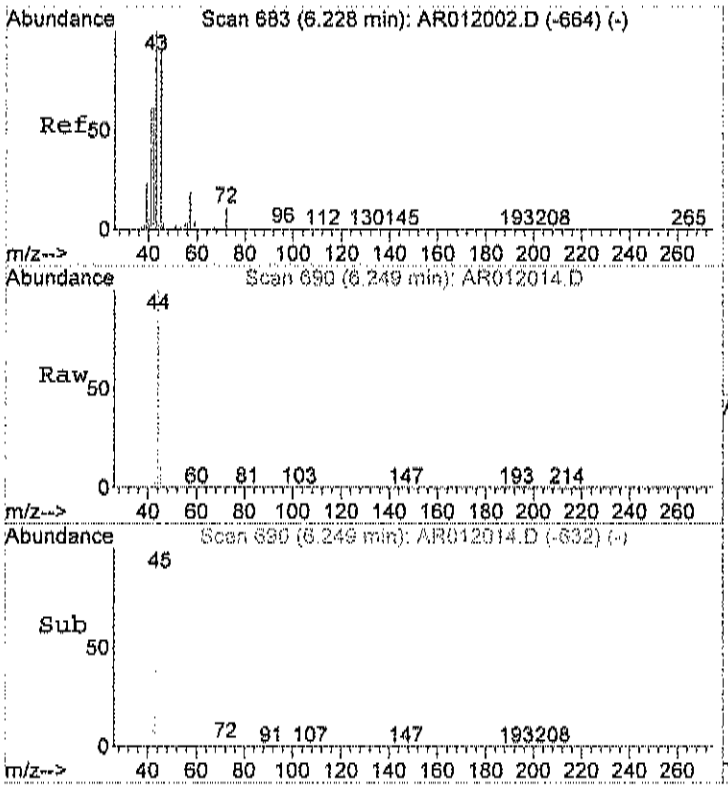


#15
Acetone
Concen: 7.71 ppb
RT: 6.13 min Scan# 651
Delta R.T. -0.00 min
Lab File: AR012014.D
Acq: 20 Jan 2020 8:33 pm

Tgt Ion: 58 Resp: 193829

Ion	Ratio	Lower	Upper
58	100		
43	307.3	0.0	30.0#

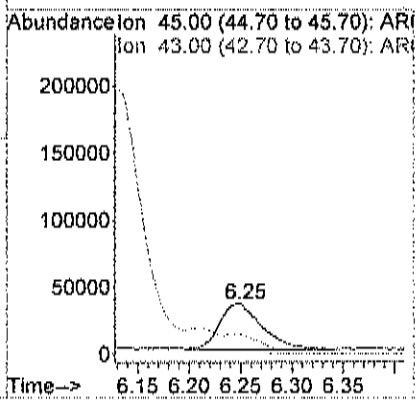


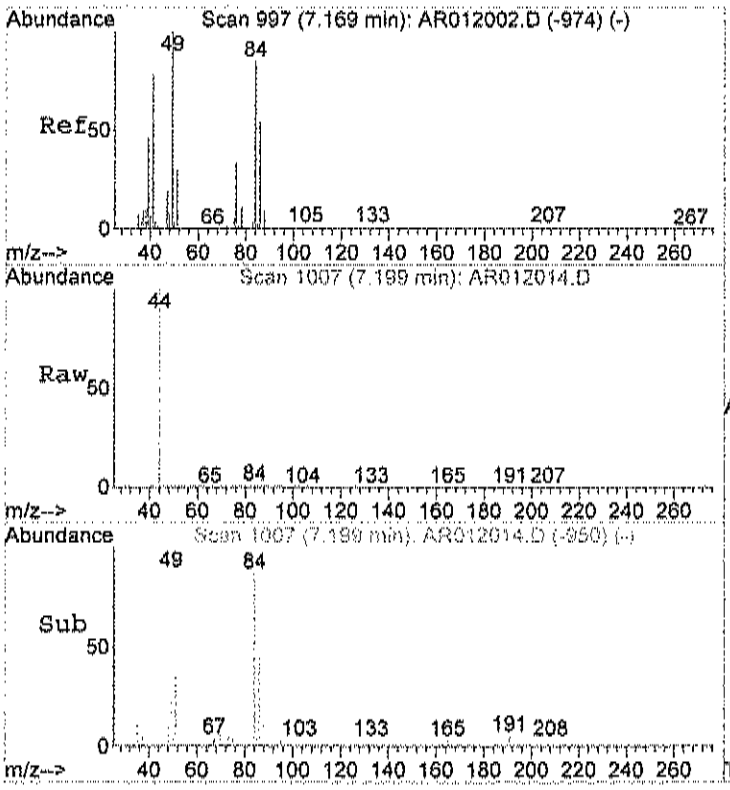


#17
Isopropyl alcohol
Concen: 1.26 ppb
RT: 6.25 min Scan# 690
Delta R.T. 0.02 min
Lab File: AR012014.D
Acq: 20 Jan 2020 8:33 pm

Tgt Ion: 45 Resp: 100089

Ion	Ratio	Lower	Upper
45	100		
43	0.0	196.5	236.5#

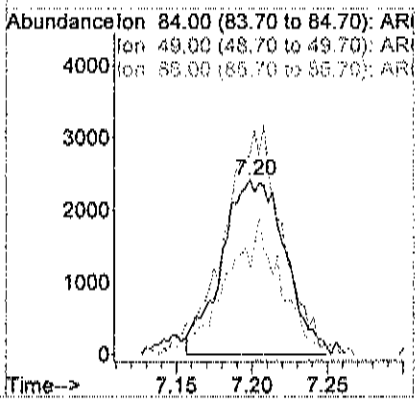


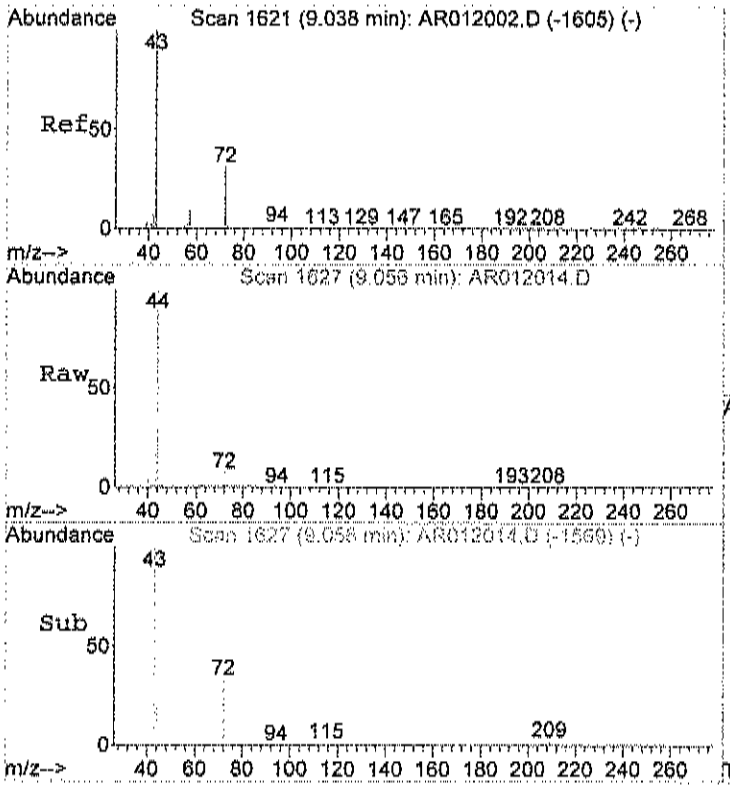


#21
Methylene chloride
Concen: 0.16 ppb
RT: 7.20 min Scan# 1007
Delta R.T. 0.02 min
Lab File: AR012014.D
Acq: 20 Jan 2020 8:33 pm

Tgt Ion: 84 Resp: 7046

Ion	Ratio	Lower	Upper
84	100		
49	119.3	101.4	141.4
86	65.3	45.4	85.4

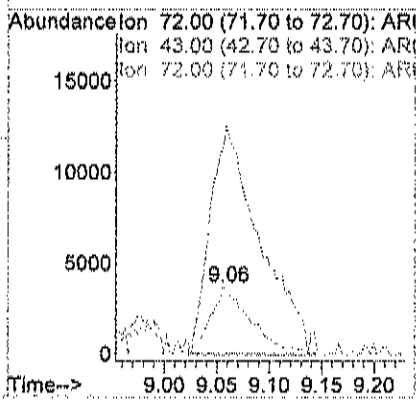


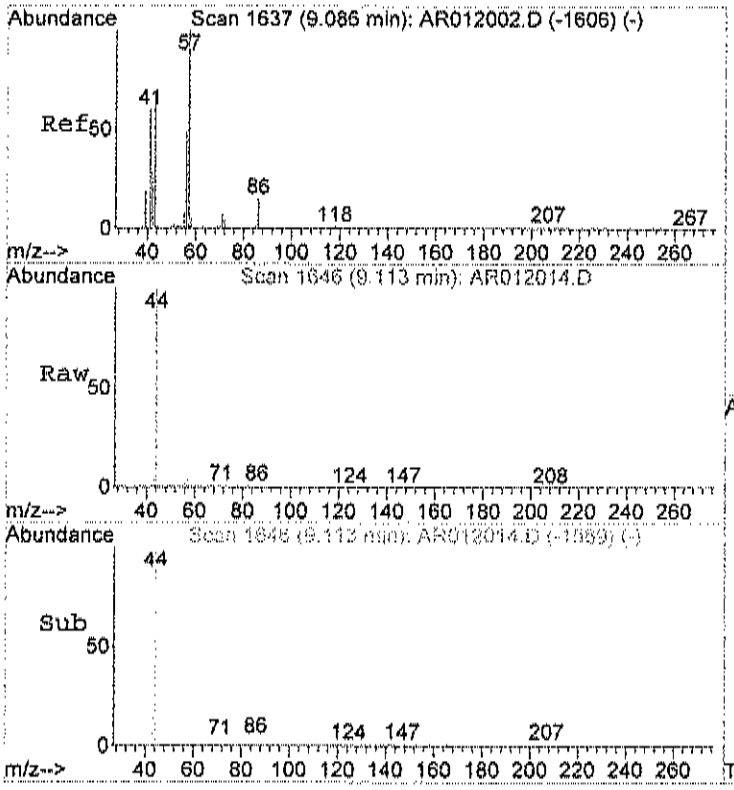


#28
Methyl Ethyl Ketone
Concen: 0.43 ppb
RT: 9.06 min Scan# 1627
Delta R.T. 0.02 min
Lab File: AR012014.D
Acq: 20 Jan 2020 8:33 pm

Tgt Ion: 72 Resp: 10205

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

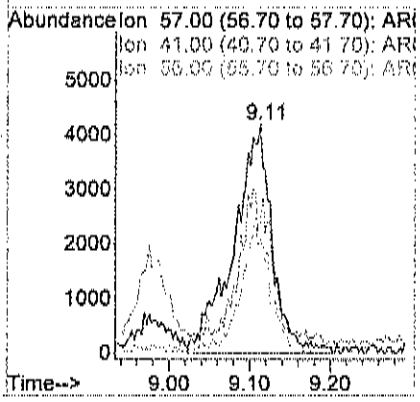


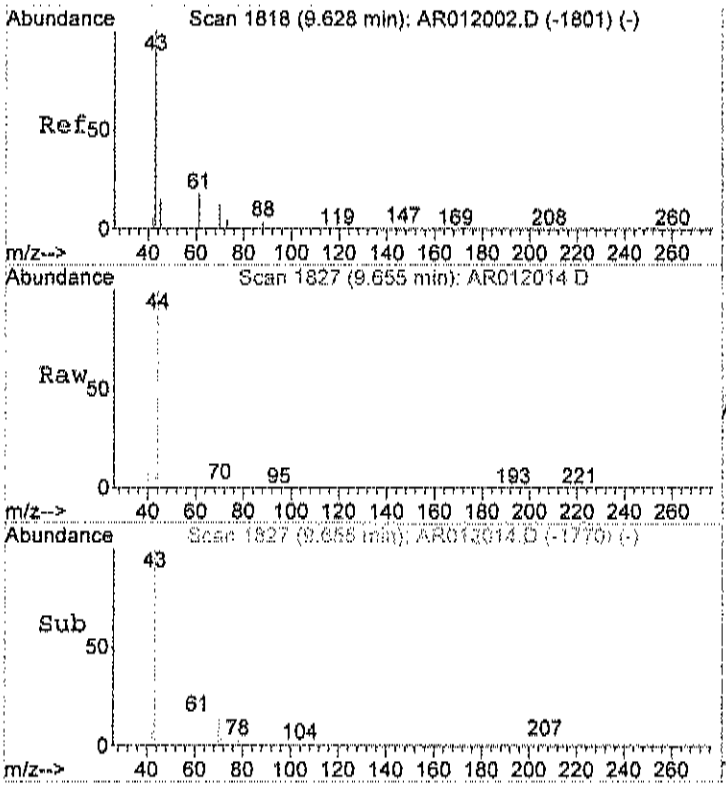


#30
Hexane
Concen: 0.16 ppb
RT: 9.11 min Scan# 1646
Delta R.T. 0.02 min
Lab File: AR012014.D
Acq: 20 Jan 2020 8:33 pm

Tgt Ion: 57 Resp: 13750

Ion	Ratio	Lower	Upper
57	100		
41	58.9	55.7	95.7
56	42.3	32.4	72.4

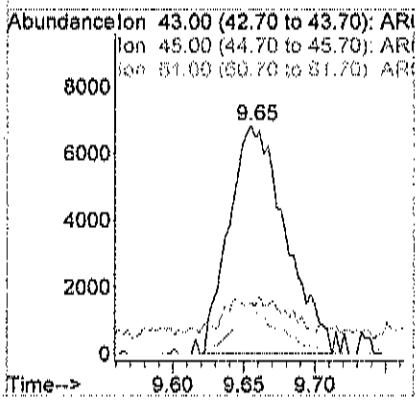


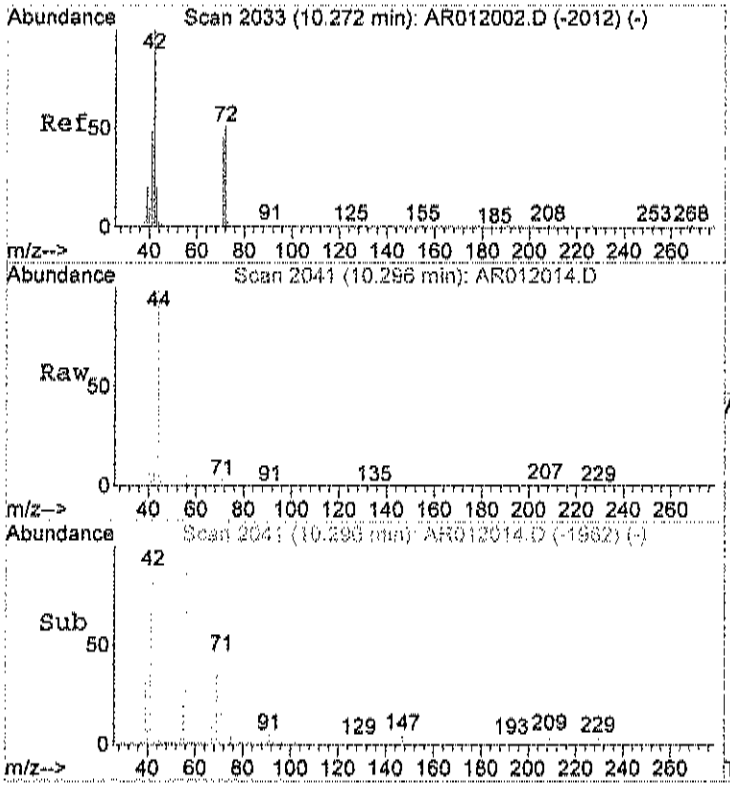


#31
Ethyl acetate
Concen: 0.18 ppb
RT: 9.65 min Scan# 1827
Delta R.T. 0.02 min
Lab File: AR012014.D
Acq: 20 Jan 2020 8:33 pm

Tgt Ion: 43 Resp: 18932

Ion	Ratio	Lower	Upper
43	100		
45	16.8	0.0	34.5
61	16.4	0.0	35.8

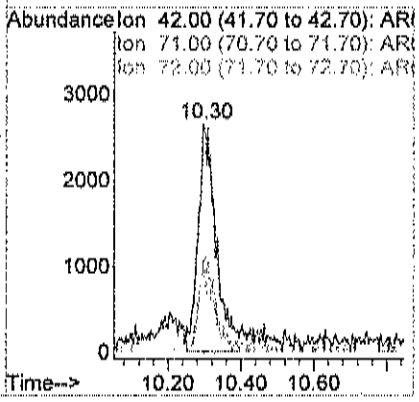


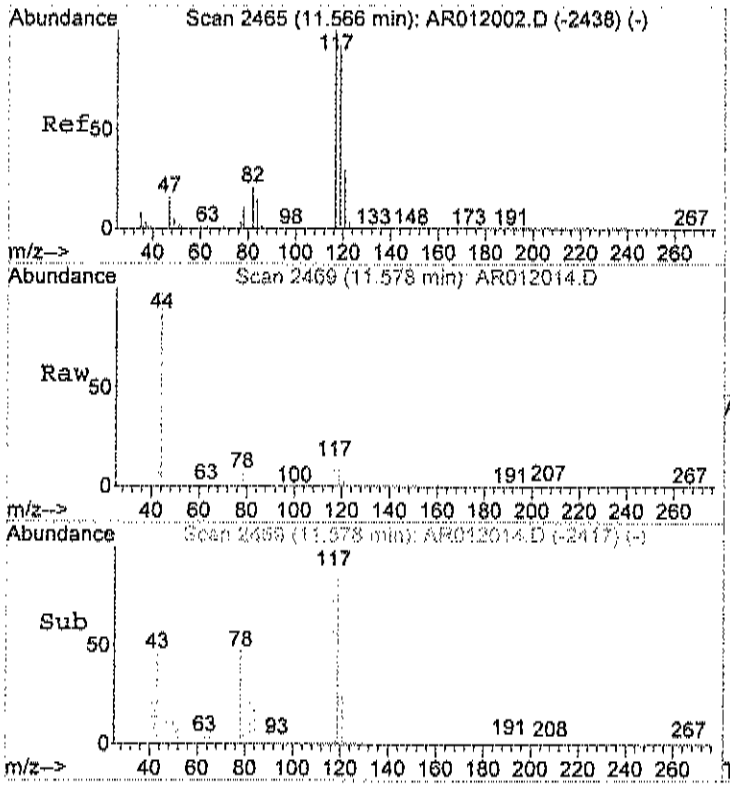


#33
Tetrahydrofuran
Concen: 0.23 ppb m
RT: 10.30 min Scan# 2041
Delta R.T. 0.03 min
Lab File: AR012014.D
Acq: 20 Jan 2020 8:33 pm

Tgt Ion: 42 Resp: 11360

Ion	Ratio	Lower	Upper
42	100		
71	29.1	25.1	65.1
72	29.0	23.3	63.3

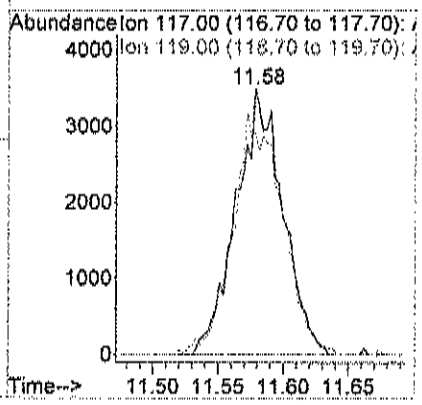


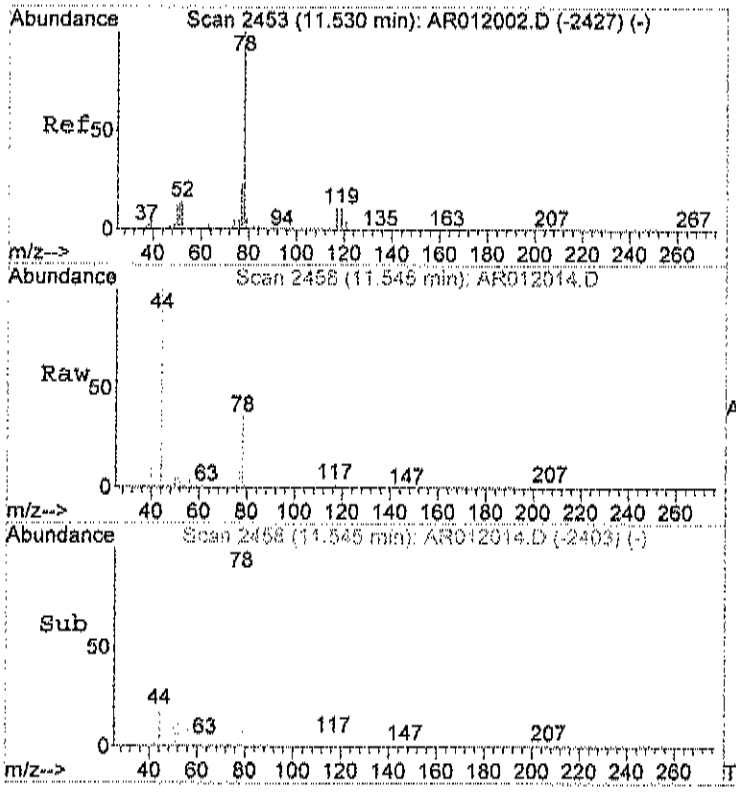


#38
Carbon tetrachloride
Concen: 0.08 ppb
RT: 11.58 min Scan# 2469
Delta R.T. 0.01 min
Lab File: AR012014.D
Acq: 20 Jan 2020 8:33 pm

Tgt Ion:117 Resp: 8666

Ion	Ratio	Lower	Upper
117	100		
119	96.9	75.6	115.6

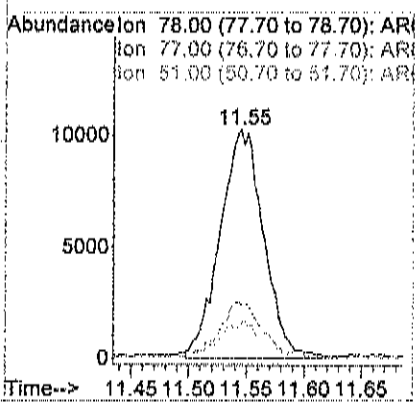


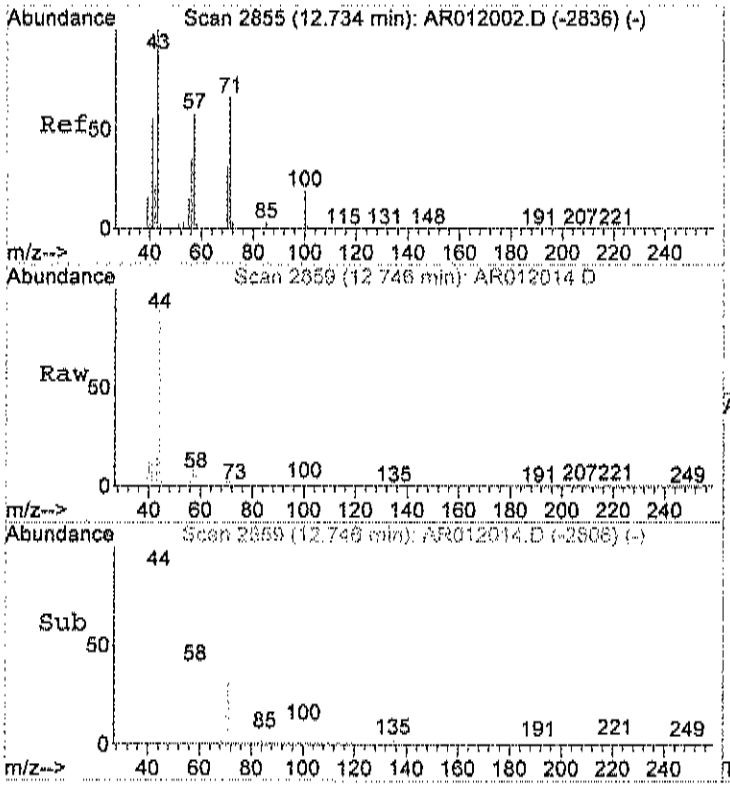


#39
Benzene
Concen: 0.18 ppb
RT: 11.55 min Scan# 2458
Delta R.T. 0.01 min
Lab File: AR012014.D
Acq: 20 Jan 2020 8:33 pm

Tgt Ion: 78 Resp: 26967

Ion	Ratio	Lower	Upper
78	100		
77	24.3	4.1	44.1
51	16.1	0.0	36.8

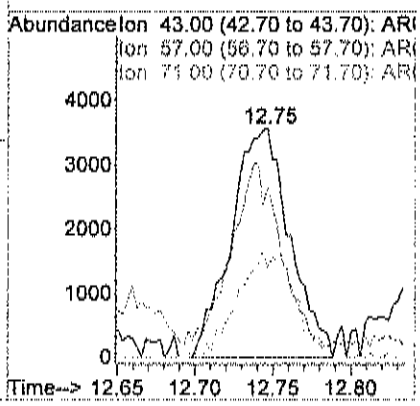


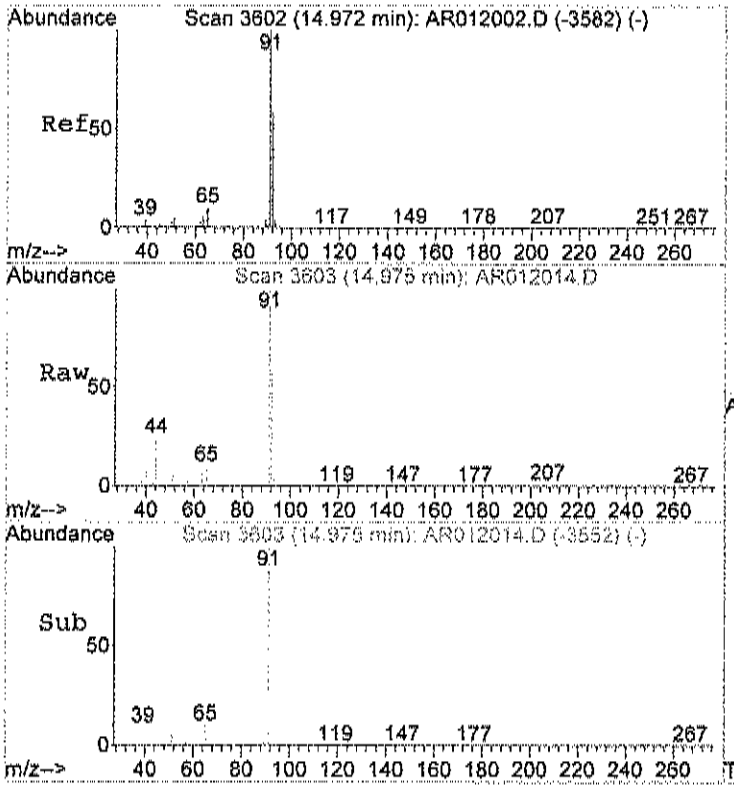


#43
Heptane
Concen: 0.11 ppb
RT: 12.75 min Scan# 2859
Delta R.T. 0.01 min
Lab File: AR012014.D
Acq: 20 Jan 2020 8:33 pm

Tgt Ion: 43 Resp: 9246

Ion	Ratio	Lower	Upper
43	100		
57	89.2	36.0	76.0#
71	43.9	42.5	82.5

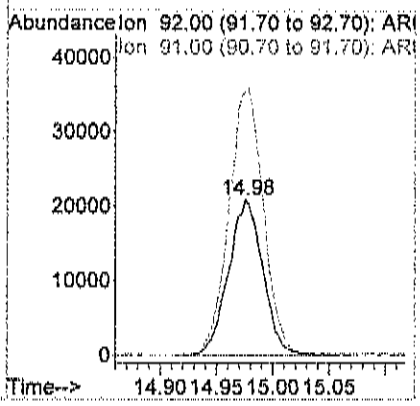


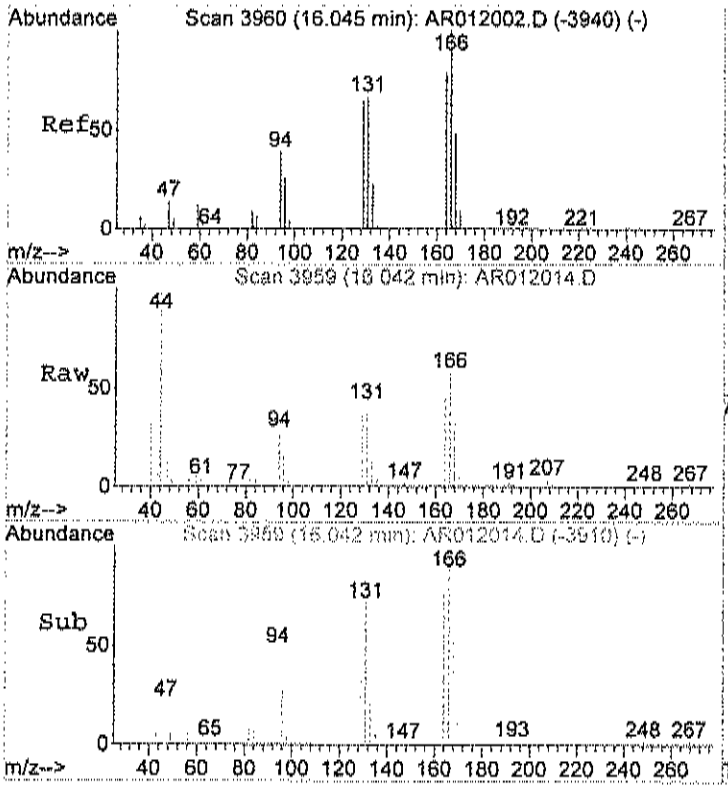


#51
Toluene
Concen: 0.42 ppb
RT: 14.98 min Scan# 3603
Delta R.T. 0.00 min
Lab File: AR012014.D
Acq: 20 Jan 2020 8:33 pm

Tgt Ion: 92 Resp: 44231

Ion	Ratio	Lower	Upper
92	100		
91	174.4	154.5	194.5

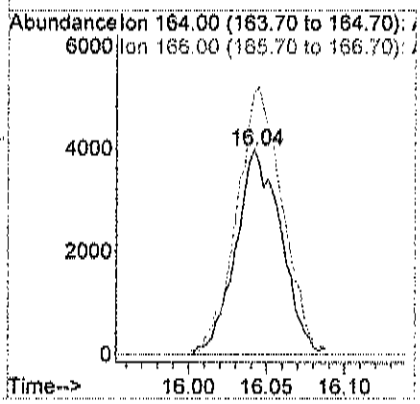


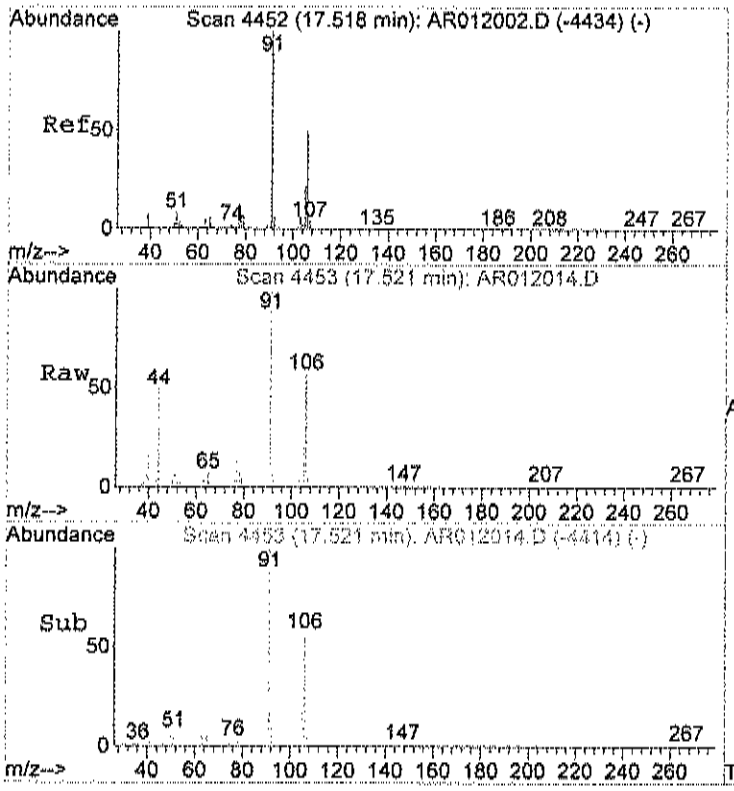


#56
Tetrachloroethylene
Concen: 0.12 ppb
RT: 16.04 min Scan# 3959
Delta R.T. -0.00 min
Lab File: AR012014.D
Acq: 20 Jan 2020 8:33 pm

Tgt Ion:164 Resp: 8087

Ion	Ratio	Lower	Upper
164	100		
166	131.0	106.4	146.4

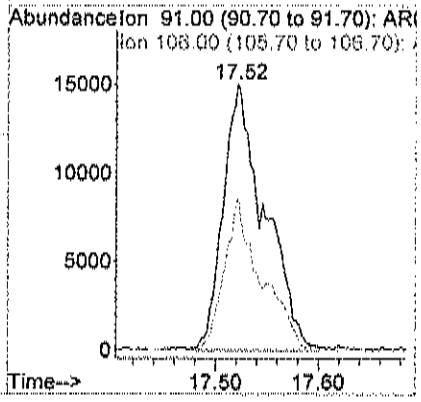


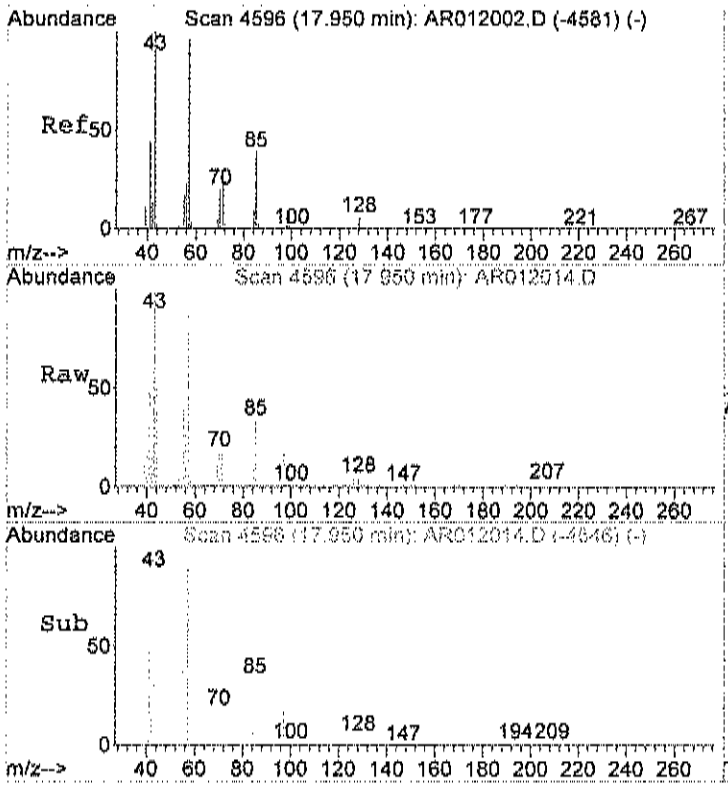


#59
m&p-xylene
Concen: 0.24 ppb
RT: 17.52 min Scan# 4453
Delta R.T. -0.03 min
Lab File: AR012014.D
Acq: 20 Jan 2020 8:33 pm

Tgt Ion: 91 Resp: 42285

Ion	Ratio	Lower	Upper
91	100		
106	50.6	29.0	69.0

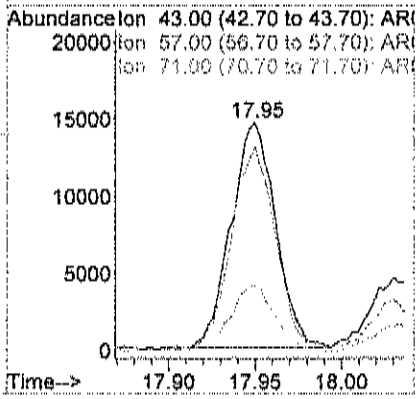


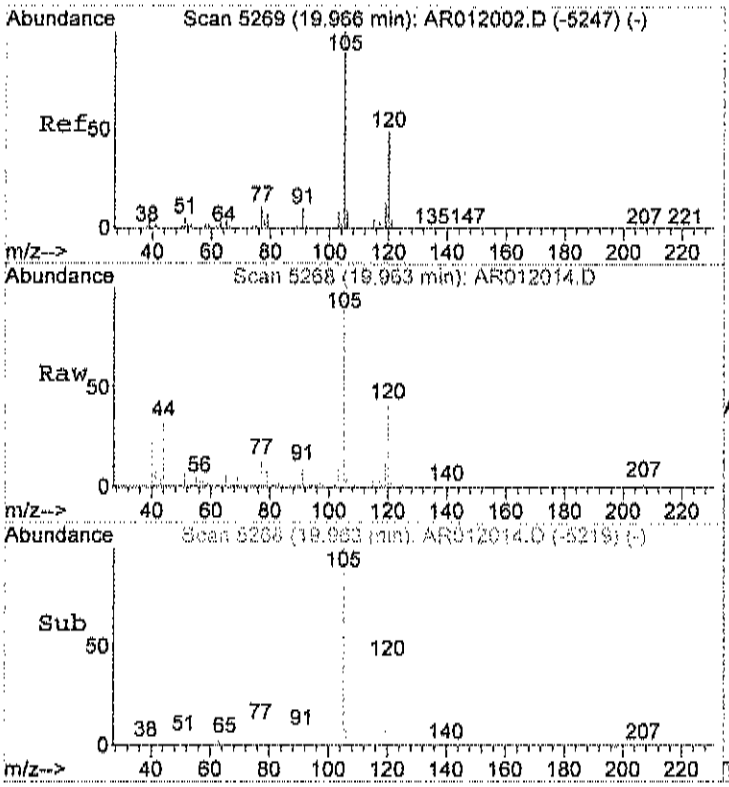


#60
Nonane
Concen: 0.21 ppb
RT: 17.95 min Scan# 4596
Delta R.T. -0.00 min
Lab File: AR012014.D
Acq: 20 Jan 2020 8:33 pm

Tgt Ion: 43 Resp: 26039

Ion	Ratio	Lower	Upper
43	100		
57	91.4	71.2	106.8
71	29.9	19.3	35.1

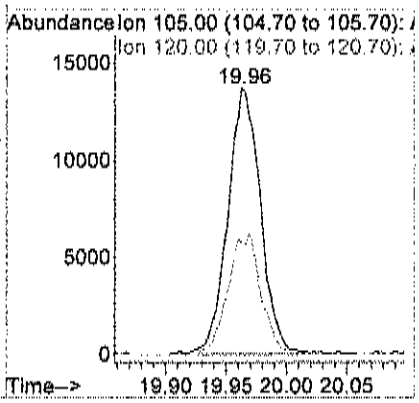




#71
1,2,4-trimethylbenzene
Concen: 0.13 ppb
RT: 19.96 min Scan# 5268
Delta R.T. -0.00 min
Lab File: AR012014.D
Acq: 20 Jan 2020 8:33 pm

Tgt Ion:105 Resp: 25916

Ion	Ratio	Lower	Upper
105	100		
120	45.4	24.9	64.9



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012026.D Vial: 26
Acq On : 21 Jan 2020 5:44 am Operator: RJP
Sample : C2001030-005A 10x Inst : MSD #1
Misc : A116_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 21 08:35:32 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 11:14:36 2020
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

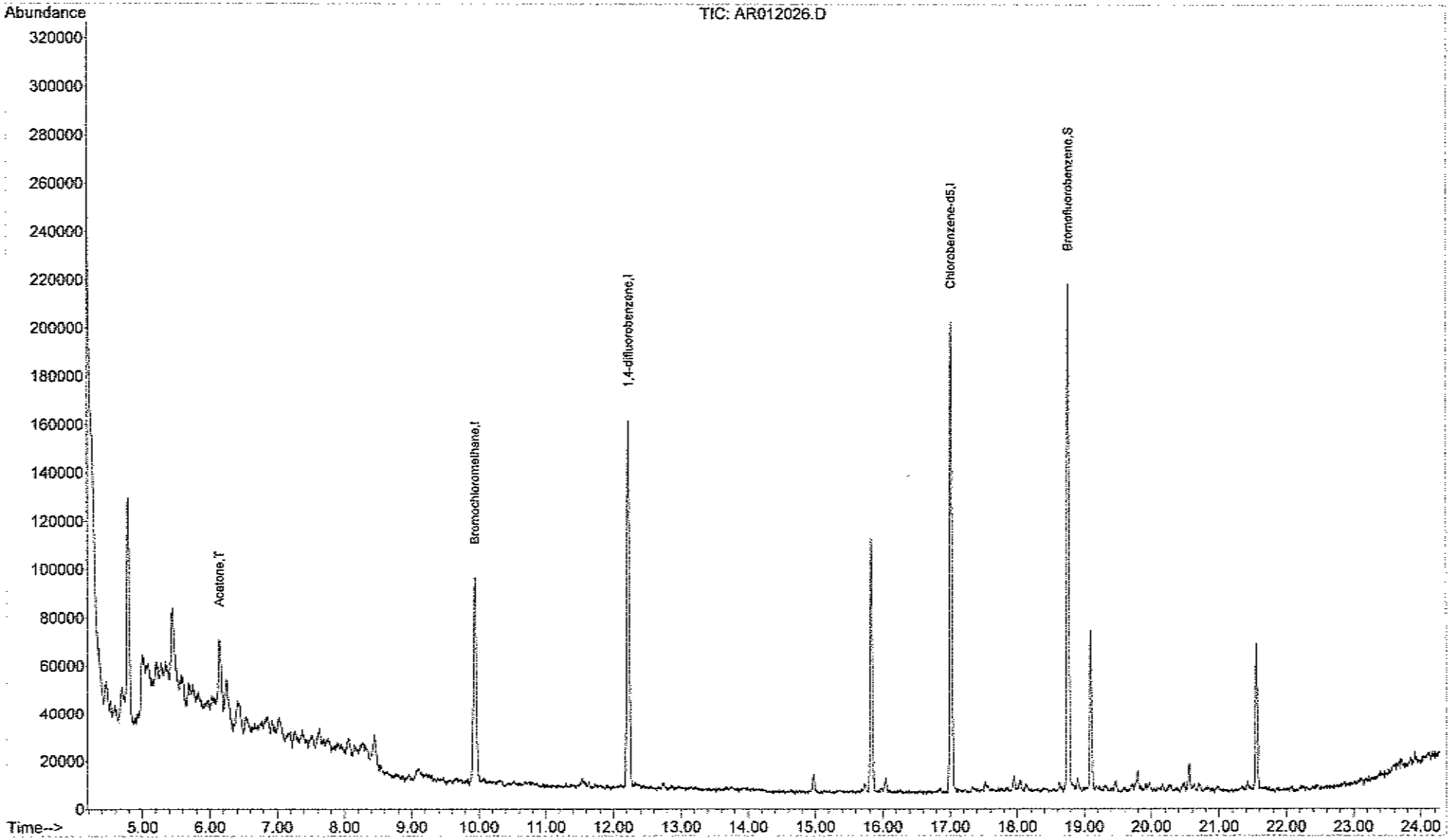
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	9.94	128	36105	1.00 ppb	0.00
35) 1,4-difluorobenzene	12.22	114	171203	1.00 ppb	0.00
50) Chlorobenzene-d5	17.01	117	140720	1.00 ppb	0.00
System Monitoring Compounds					
65) Bromofluorobenzene	18.76	95	88387	0.94 ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94.00%		
Target Compounds					Qvalue
15) Acetone	6.14	58	16397	0.78 ppb	# 100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

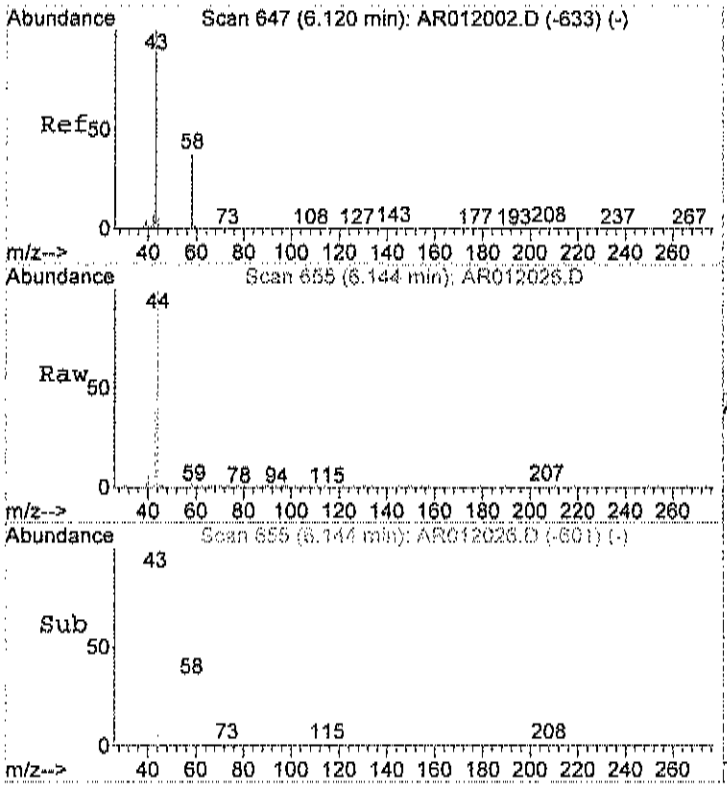
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012026.D Vial: 26
Acq On : 21 Jan 2020 5:44 am Operator: RJP
Sample : C2001030-005A 10x Inst : MSD #1
Misc : A116_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 23 12:23 2020 Quant Results File: A116_1UG.RES

Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
Response via : Initial Calibration



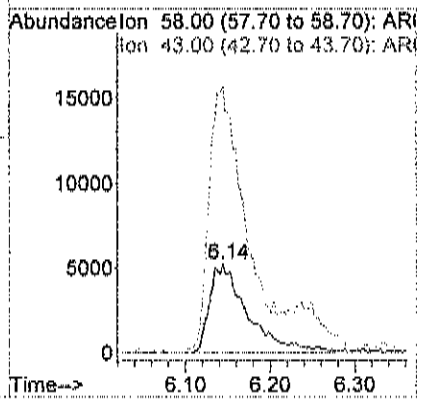
AR012026.D A116_1UG.M Wed Feb 05 10:03:11 2020 MSD1 Page 2



#15
Acetone
Concen: 0.78 ppb
RT: 6.14 min Scan# 655
Delta R.T. 0.01 min
Lab File: AR012026.D
Acq: 21 Jan 2020 5:44 am

Tgt Ion: 58 Resp: 16397

Ion	Ratio	Lower	Upper
58	100		
43	331.7	0.0	30.0#



Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A4-Dup
Lab Order:	C2001030	**Tag Number:**	1189,378
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-006A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-1			"Hg		1/20/2020
Lab Vacuum Out	-30			"Hg		1/20/2020
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	1/20/2020 9:20:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	1/20/2020 9:20:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
1,2,4-Trimethylbenzene	0.12	0.15	J	ppbV	1	1/20/2020 9:20:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
1,3-Dichlorobenzene	0.18	0.15		ppbV	1	1/20/2020 9:20:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/20/2020 9:20:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Acetone	7.4	3.0		ppbV	10	1/21/2020 6:30:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Benzene	0.18	0.15		ppbV	1	1/20/2020 9:20:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Carbon tetrachloride	0.080	0.030		ppbV	1	1/20/2020 9:20:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Chloroform	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	1/20/2020 9:20:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Ethyl acetate	0.19	0.15		ppbV	1	1/20/2020 9:20:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A4-Dup
Lab Order:	C2001030	**Tag Number:**	1189,378
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-006A	**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	1/20/2020 9:20:00 PM
Freon 11	0.28	0.15		ppbV	1	1/20/2020 9:20:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Freon 12	0.60	0.15		ppbV	1	1/20/2020 9:20:00 PM
Heptane	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Hexane	0.19	0.15		ppbV	1	1/20/2020 9:20:00 PM
Isopropyl alcohol	1.0	0.15		ppbV	1	1/20/2020 9:20:00 PM
m&p-Xylene	0.24	0.30	J	ppbV	1	1/20/2020 9:20:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/20/2020 9:20:00 PM
Methyl Ethyl Ketone	0.38	0.30		ppbV	1	1/20/2020 9:20:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/20/2020 9:20:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Methylene chloride	0.18	0.15		ppbV	1	1/20/2020 9:20:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Tetrahydrofuran	0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Toluene	0.42	0.15		ppbV	1	1/20/2020 9:20:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Trichloroethene	< 0.030	0.030		ppbV	1	1/20/2020 9:20:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/20/2020 9:20:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	1/20/2020 9:20:00 PM
Surr: Bromofluorobenzene	100	70-130		%REC	1	1/20/2020 9:20:00 PM

Qualifiers:	SC	Sub-Contracted	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A4-Dup
Lab Order:	C2001030	**Tag Number:**	1189,378
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-006A	**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	1/20/2020 9:20:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/20/2020 9:20:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	1/20/2020 9:20:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	1/20/2020 9:20:00 PM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 9:20:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/20/2020 9:20:00 PM
1,2,4-Trimethylbenzene	0.59	0.74	J	ug/m3	1	1/20/2020 9:20:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/20/2020 9:20:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 9:20:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	1/20/2020 9:20:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	1/20/2020 9:20:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	1/20/2020 9:20:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	1/20/2020 9:20:00 PM
1,3-Dichlorobenzene	1.1	0.90		ug/m3	1	1/20/2020 9:20:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 9:20:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/20/2020 9:20:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	1/20/2020 9:20:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	1/20/2020 9:20:00 PM
Acetone	18	7.1		ug/m3	10	1/21/2020 6:30:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	1/20/2020 9:20:00 PM
Benzene	0.57	0.48		ug/m3	1	1/20/2020 9:20:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	1/20/2020 9:20:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/20/2020 9:20:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/20/2020 9:20:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	1/20/2020 9:20:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/20/2020 9:20:00 PM
Carbon tetrachloride	0.50	0.19		ug/m3	1	1/20/2020 9:20:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	1/20/2020 9:20:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/20/2020 9:20:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	1/20/2020 9:20:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/20/2020 9:20:00 PM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 9:20:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/20/2020 9:20:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/20/2020 9:20:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/20/2020 9:20:00 PM
Ethyl acetate	0.68	0.54		ug/m3	1	1/20/2020 9:20:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	1/20/2020 9:20:00 PM
Freon 11	1.6	0.84		ug/m3	1	1/20/2020 9:20:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	1/20/2020 9:20:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	1/20/2020 9:20:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A4-Dup
Lab Order:	C2001030	**Tag Number:**	1189,378
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/15/2020
Lab ID:	C2001030-006A	**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	3.0	0.74		ug/m3	1	1/20/2020 9:20:00 PM
Heptane	< 0.61	0.61		ug/m3	1	1/20/2020 9:20:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/20/2020 9:20:00 PM
Hexane	0.67	0.53		ug/m3	1	1/20/2020 9:20:00 PM
Isopropyl alcohol	2.6	0.37		ug/m3	1	1/20/2020 9:20:00 PM
m&p-Xylene	1.0	1.3	J	ug/m3	1	1/20/2020 9:20:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/20/2020 9:20:00 PM
Methyl Ethyl Ketone	1.1	0.88		ug/m3	1	1/20/2020 9:20:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/20/2020 9:20:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	1/20/2020 9:20:00 PM
Methylene chloride	0.63	0.52		ug/m3	1	1/20/2020 9:20:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	1/20/2020 9:20:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/20/2020 9:20:00 PM
Styrene	< 0.64	0.64		ug/m3	1	1/20/2020 9:20:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	1/20/2020 9:20:00 PM
Tetrahydrofuran	0.44	0.44		ug/m3	1	1/20/2020 9:20:00 PM
Toluene	1.6	0.57		ug/m3	1	1/20/2020 9:20:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	1/20/2020 9:20:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/20/2020 9:20:00 PM
Trichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 9:20:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	1/20/2020 9:20:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	1/20/2020 9:20:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	1/20/2020 9:20:00 PM

Qualifiers:				
	SC	Sub-Contracted	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012015.D Vial: 15
Acq On : 20 Jan 2020 9:20 pm Operator: RJP
Sample : C2001030-006A Inst : MSD #1
Misc : A116_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 21 08:35:21 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 11:14:36 2020
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.95	128	42084	1.00	ppb		0.02
35) 1,4-difluorobenzene	12.23	114	197482	1.00	ppb		0.01
50) Chlorobenzene-d5	17.02	117	171778	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.76	95	114403	1.00	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
3) Freon 12	4.26	85	66401	0.60	ppb		100
14) Freon 11	5.93	101	32850	0.28	ppb		99
15) Acetone	6.14	58	183976	7.52	ppb	#	100
17) Isopropyl alcohol	6.25	45	80607	1.04	ppb	#	1
21) Methylene chloride	7.20	84	7723	0.18	ppb		98
28) Methyl Ethyl Ketone	9.06	72	8982	0.38	ppb	#	100
30) Hexane	9.11	57	15281	0.19	ppb	#	76
31) Ethyl acetate	9.66	43	20108	0.19	ppb		90
33) Tetrahydrofuran	10.31	42	7307	0.15	ppb		97
38) Carbon tetrachloride	11.59	117	7952	0.08	ppb		96
39) Benzene	11.55	78	26529	0.18	ppb		99
51) Toluene	14.98	92	43895	0.42	ppb		99
59) m&p-xylene	17.52	91	42430	0.24	ppb		98
60) Nonane	17.95	43	26320	0.21	ppb		100
71) 1,2,4-trimethylbenzene	19.96	105	24195	0.12	ppb		99
72) 1,3-dichlorobenzene	20.29	146	19206	0.18	ppb		91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

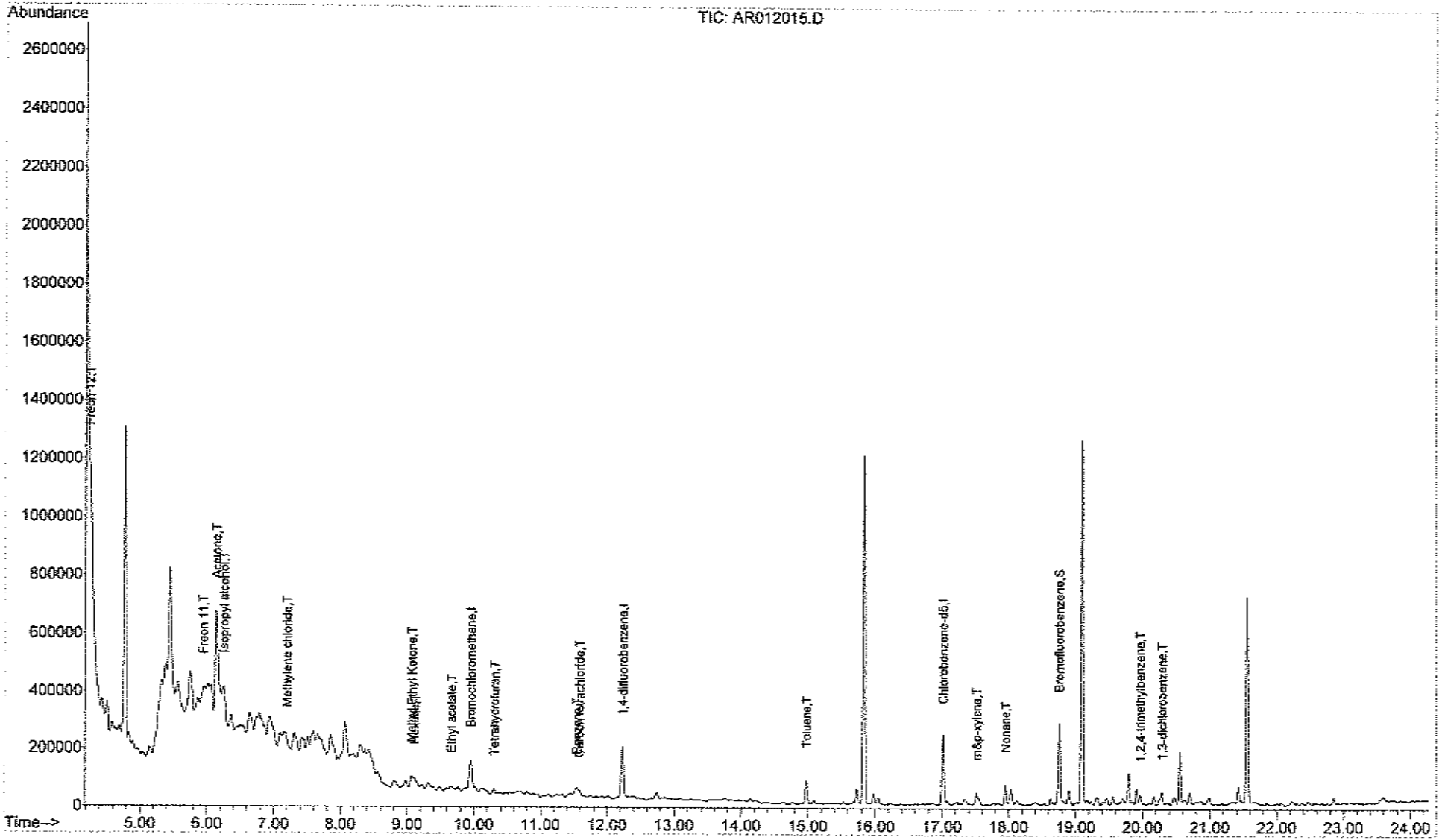
Quantitation Report (QT Reviewed)

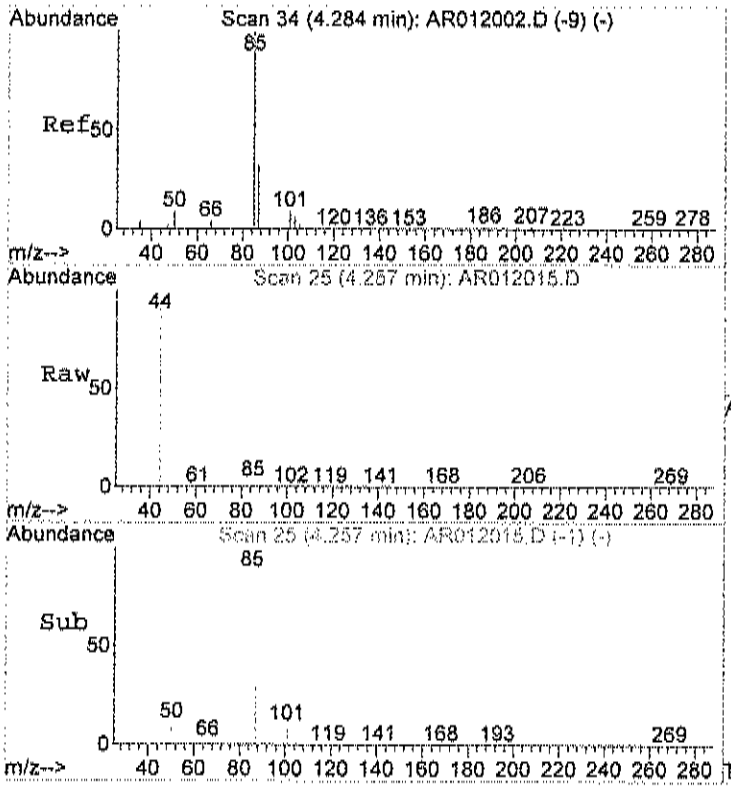
Data File : C:\HPCHEM\1\DATA\AR012015.D
Acq On : 20 Jan 2020 9:20 pm
Sample : C2001030-006A
Misc : A116_1UG
MS Integration Params: RTEINT.P
Quant Time: Jan 23 8:51 2020

Vial: 15
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A116_1UG.RES

Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
Response via : Initial Calibration

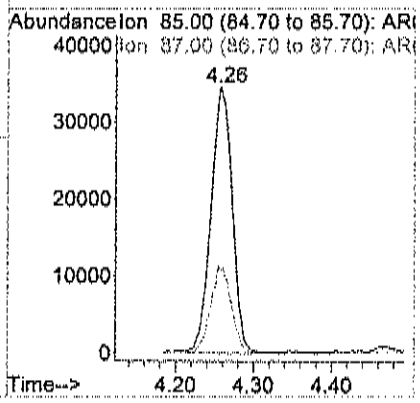


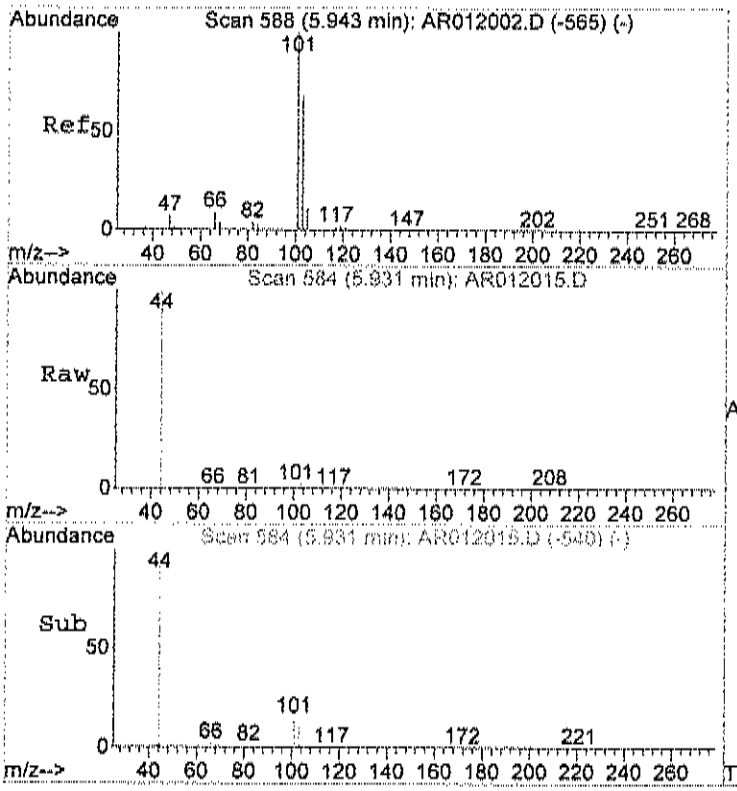


#3
Freon 12
Concen: 0.60 ppb
RT: 4.26 min Scan# 25
Delta R.T. -0.03 min
Lab File: AR012015.D
Acq: 20 Jan 2020 9:20 pm

Tgt Ion: 85 Resp: 66401

Ion	Ratio	Lower	Upper
85	100		
87	31.8	11.9	51.9

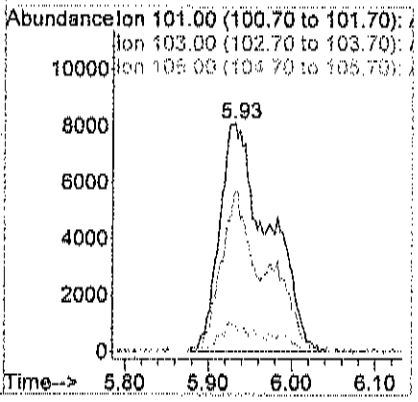


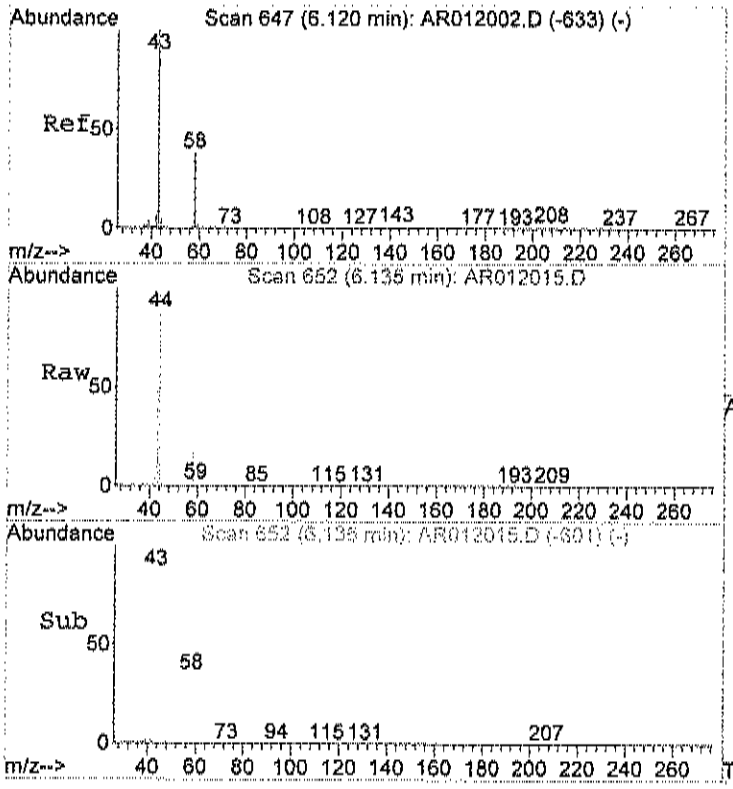


#14
Freon 11
Concen: 0.28 ppb
RT: 5.93 min Scan# 584
Delta R.T. -0.02 min
Lab File: AR012015.D
Acq: 20 Jan 2020 9:20 pm

Tgt Ion:101 Resp: 32850

Ion	Ratio	Lower	Upper
101	100		
103	64.2	44.2	84.2
105	12.0	0.0	30.3

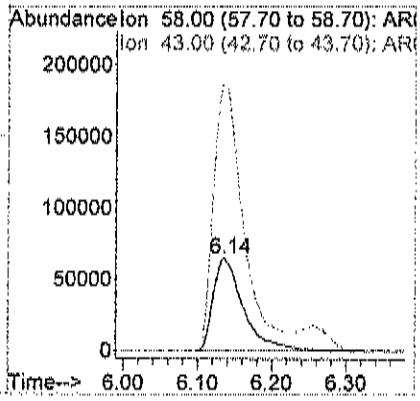


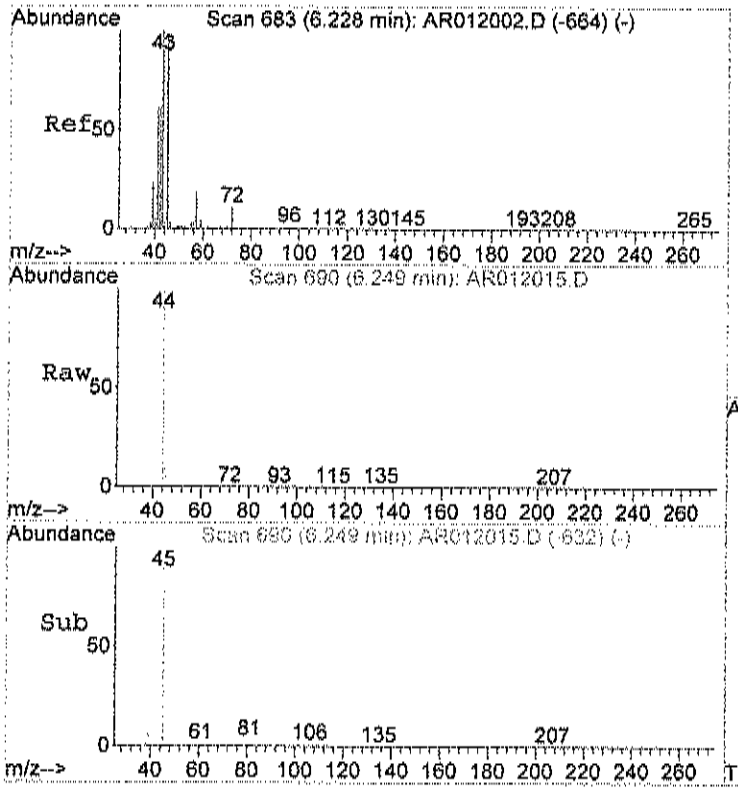


#15
Acetone
Concen: 7.52 ppb
RT: 6.14 min Scan# 652
Delta R.T. 0.00 min
Lab File: AR012015.D
Acq: 20 Jan 2020 9:20 pm

Tgt Ion: 58 Resp: 183976

Ion	Ratio	Lower	Upper
58	100		
43	311.8	0.0	30.0#

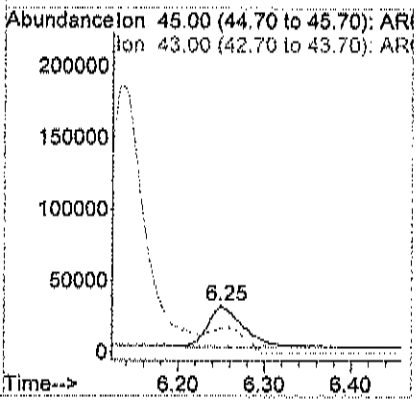


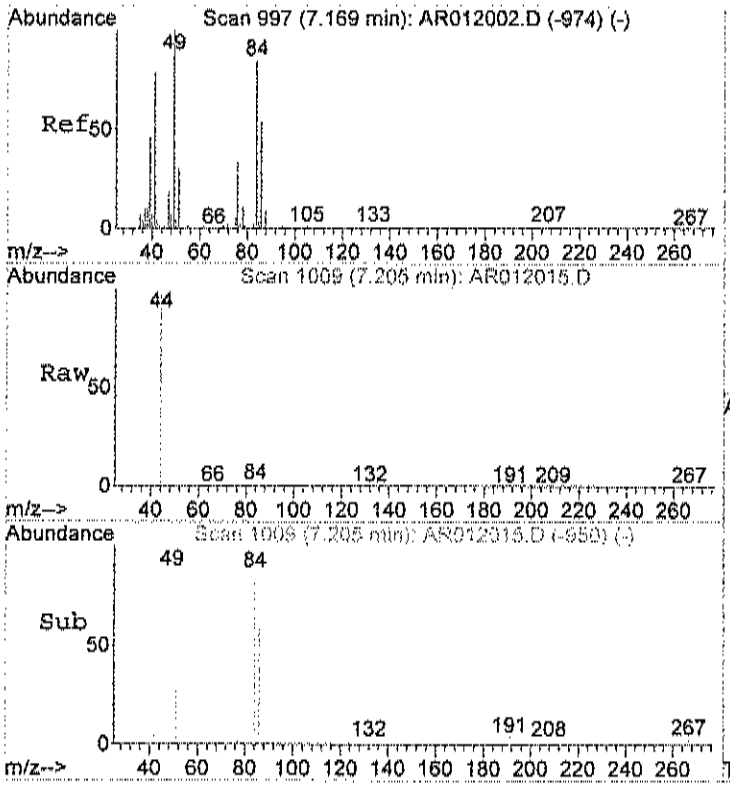


#17
Isopropyl alcohol
Concen: 1.04 ppb
RT: 6.25 min Scan# 690
Delta R.T. 0.02 min
Lab File: AR012015.D
Acq: 20 Jan 2020 9:20 pm

Tgt Ion: 45 Resp: 80607

Ion	Ratio	Lower	Upper
45	100		
43	0.0	196.5	236.5#

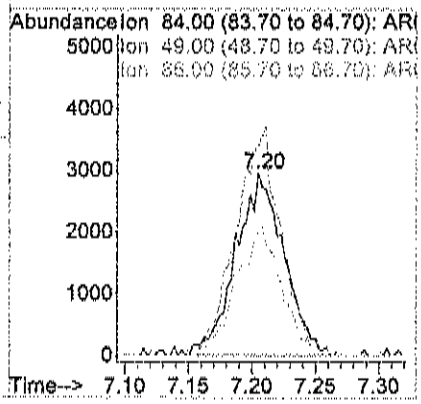


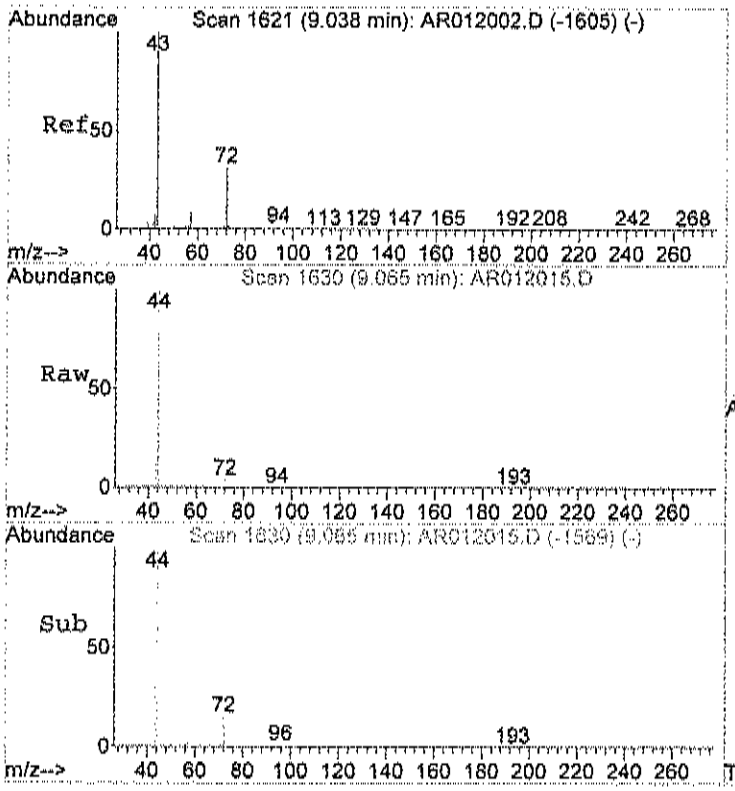


#21
Methylene chloride
Concen: 0.18 ppb
RT: 7.20 min Scan# 1009
Delta R.T. 0.03 min
Lab File: AR012015.D
Acq: 20 Jan 2020 9:20 pm

Tgt Ion: 84 Resp: 7723

Ion	Ratio	Lower	Upper
84	100		
49	118.3	101.4	141.4
86	66.3	45.4	85.4

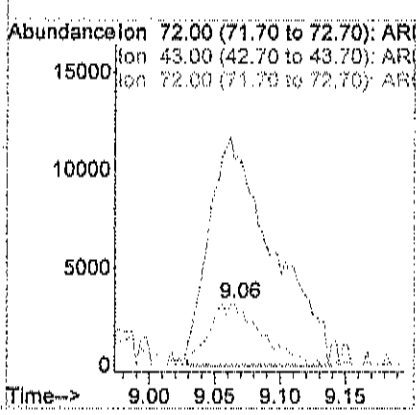


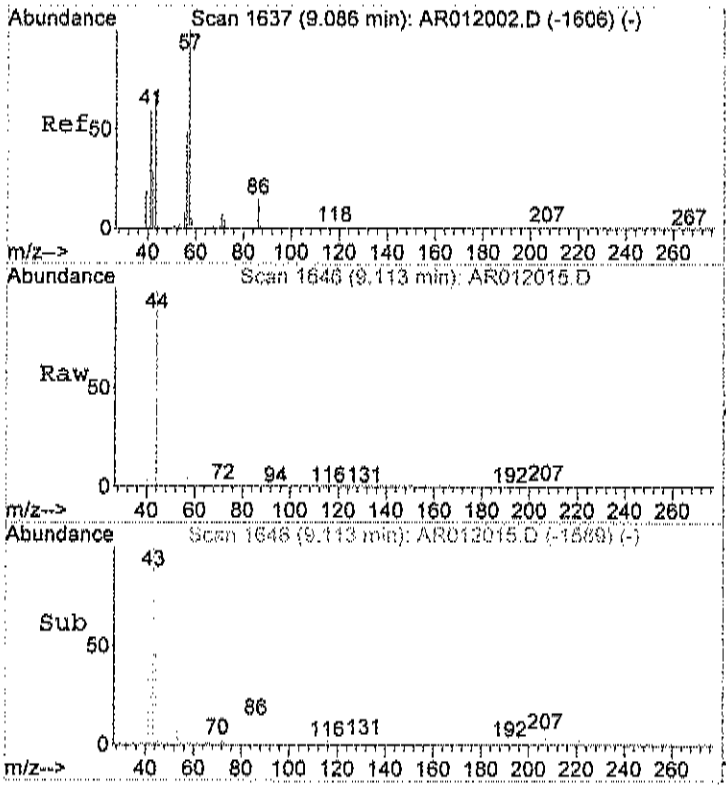


#28
Methyl Ethyl Ketone
Concen: 0.38 ppb
RT: 9.06 min Scan# 1630
Delta R.T. 0.03 min
Lab File: AR012015.D
Acq: 20 Jan 2020 9:20 pm

Tgt Ion: 72 Resp: 8982

Ion	Ratio	Lower	Upper
72	100		
43	448.3	0.0	20.0#
72	100.0	80.0	120.0

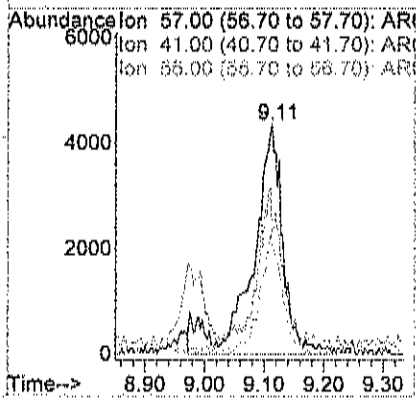


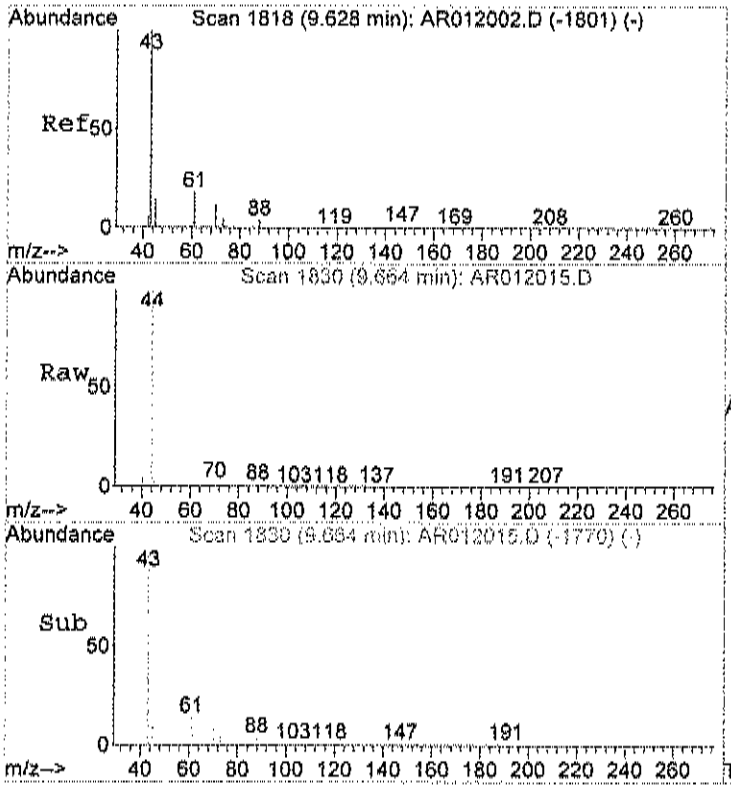


#30
Hexane
Concen: 0.19 ppb
RT: 9.11 min Scan# 1646
Delta R.T. 0.02 min
Lab File: AR012015.D
Acq: 20 Jan 2020 9:20 pm

Tgt Ion: 57 Resp: 15281

Ion	Ratio	Lower	Upper
57	100		
41	54.6	55.7	95.7#
56	35.7	32.4	72.4

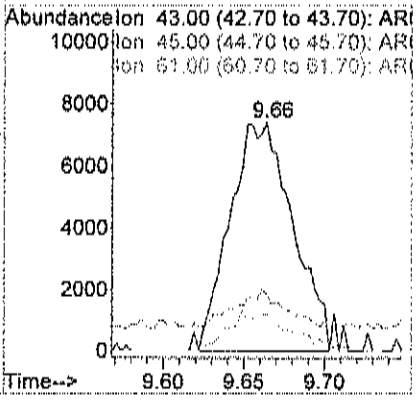


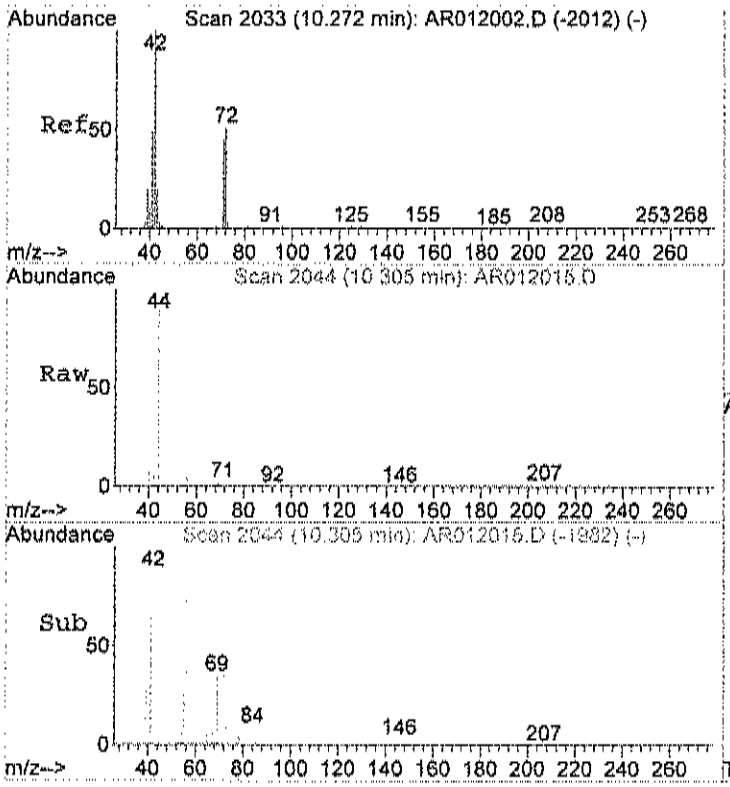


#31
Ethyl acetate
Concen: 0.19 ppb
RT: 9.66 min Scan# 1830
Delta R.T. 0.03 min
Lab File: AR012015.D
Acq: 20 Jan 2020 9:20 pm

Tgt Ion: 43 Resp: 20108

Ion	Ratio	Lower	Upper
43	100		
45	22.0	0.0	34.5
61	16.6	0.0	35.8

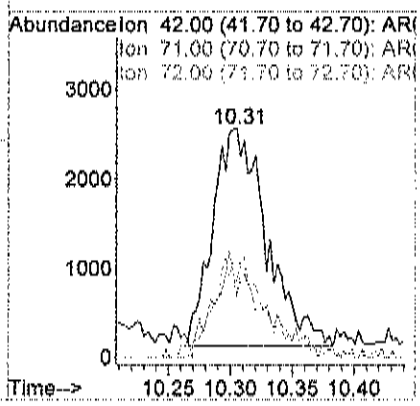


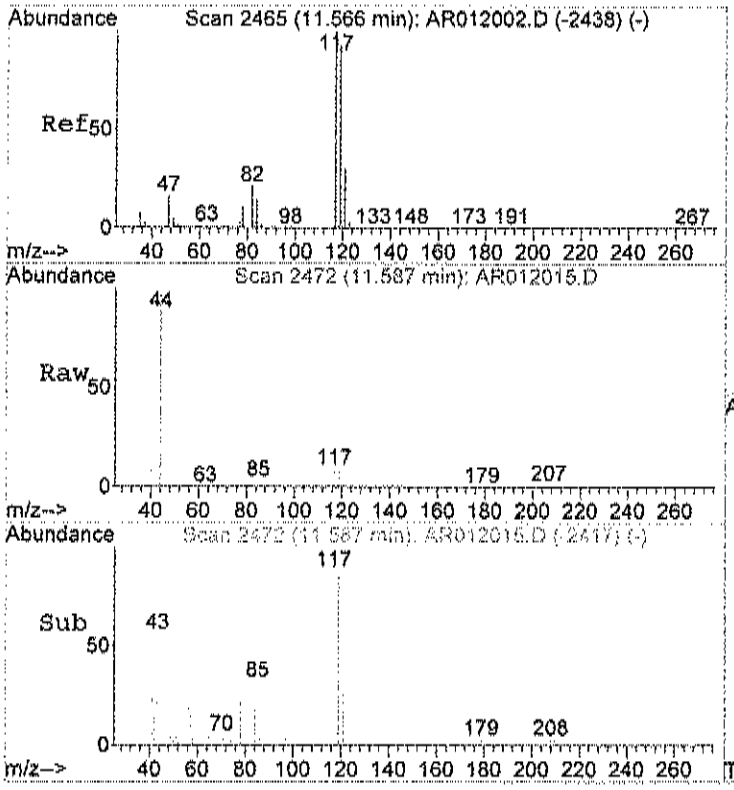


#33
Tetrahydrofuran
Concen: 0.15 ppb
RT: 10.31 min Scan# 2044
Delta R.T. 0.04 min
Lab File: AR012015.D
Acq: 20 Jan 2020 9:20 pm

Tgt Ion: 42 Resp: 7307

Ion	Ratio	Lower	Upper
42	100		
71	42.4	25.1	65.1
72	44.1	23.3	63.3

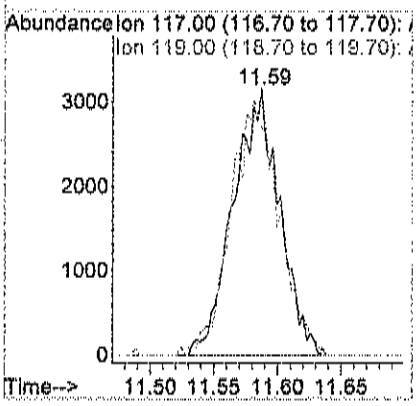


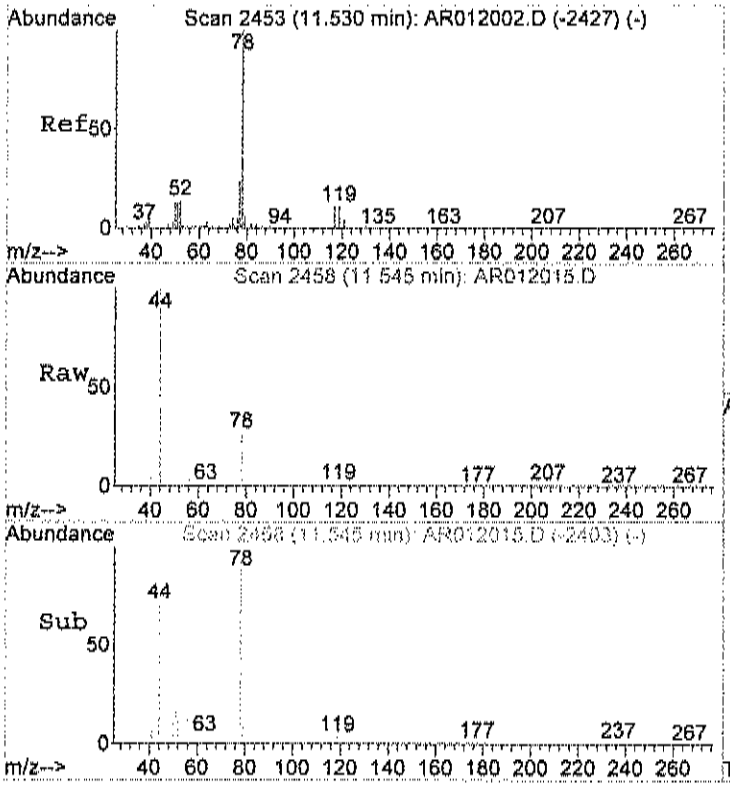


#38
Carbon tetrachloride
Concen: 0.08 ppb
RT: 11.59 min Scan# 2472
Delta R.T. 0.01 min
Lab File: AR012015.D
Acq: 20 Jan 2020 9:20 pm

Tgt Ion:117 Resp: 7952

Ion	Ratio	Lower	Upper
117	100		
119	99.7	75.6	115.6

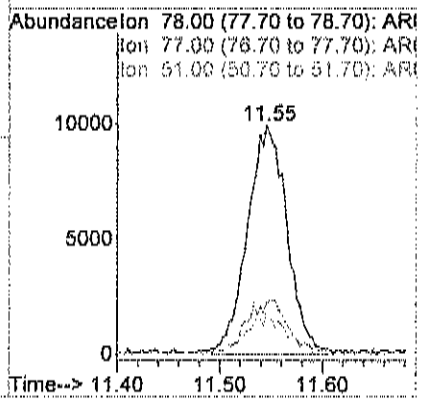


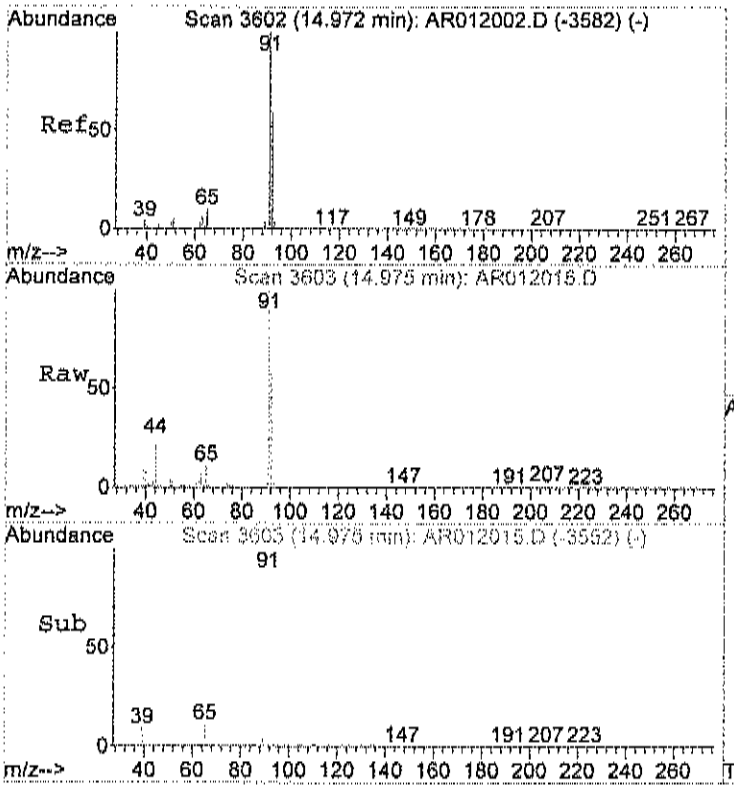


#39
Benzene
Concen: 0.18 ppb
RT: 11.55 min Scan# 2458
Delta R.T. 0.01 min
Lab File: AR012015.D
Acq: 20 Jan 2020 9:20 pm

Tgt Ion: 78 Resp: 26529

Ion	Ratio	Lower	Upper
78	100		
77	24.5	4.1	44.1
51	16.7	0.0	36.8

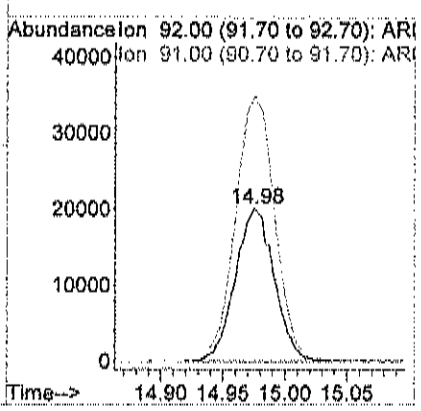


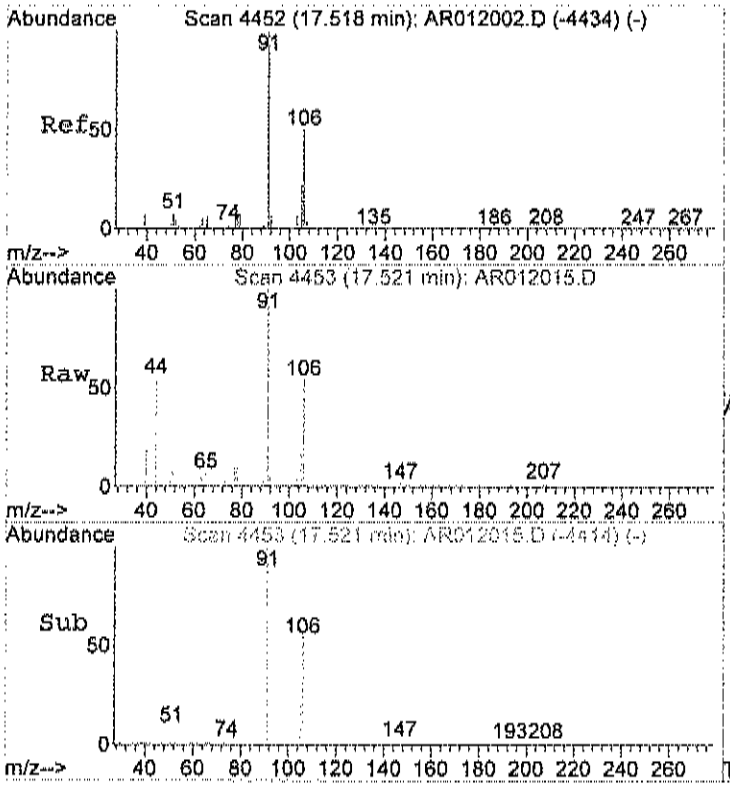


#51
Toluene
Concen: 0.42 ppb
RT: 14.98 min Scan# 3603
Delta R.T. 0.00 min
Lab File: AR012015.D
Acq: 20 Jan 2020 9:20 pm

Tgt Ion: 92 Resp: 43895

Ion	Ratio	Lower	Upper
92	100		
91	175.4	154.5	194.5

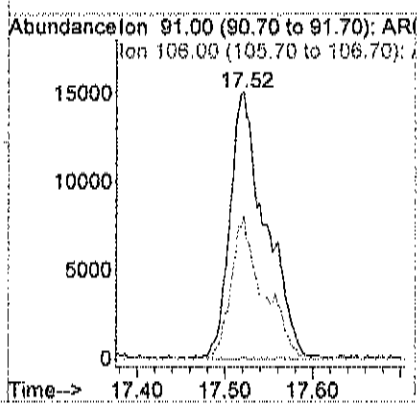


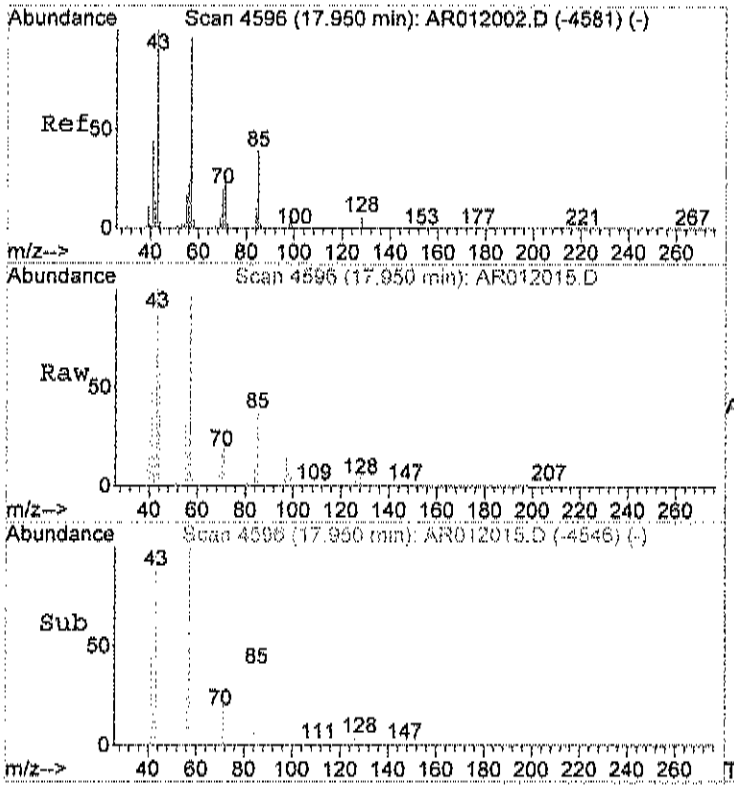


#59
m&p-xylene
Concen: 0.24 ppb
RT: 17.52 min Scan# 4453
Delta R.T. -0.03 min
Lab File: AR012015.D
Acq: 20 Jan 2020 9:20 pm

Tgt Ion: 91 Resp: 42430

Ion	Ratio	Lower	Upper
91	100		
106	47.9	29.0	69.0

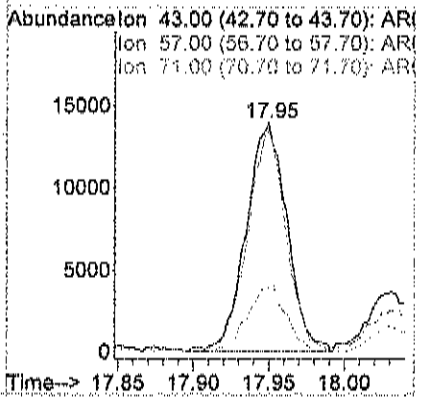


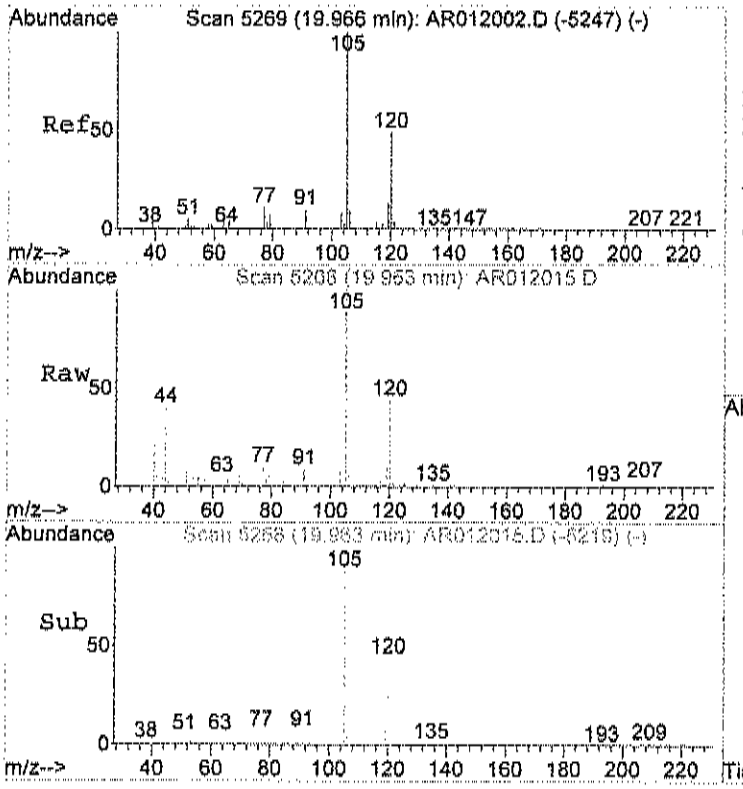


#60
Nonane
Concen: 0.21 ppb
RT: 17.95 min Scan# 4596
Delta R.T. -0.00 min
Lab File: AR012015.D
Acq: 20 Jan 2020 9:20 pm

Tgt Ion: 43 Resp: 26320

Ion	Ratio	Lower	Upper
43	100		
57	89.2	71.2	106.8
71	27.7	19.3	35.1

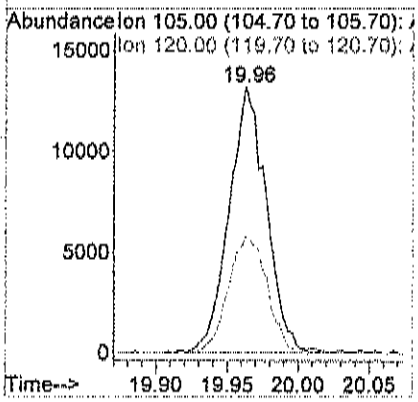


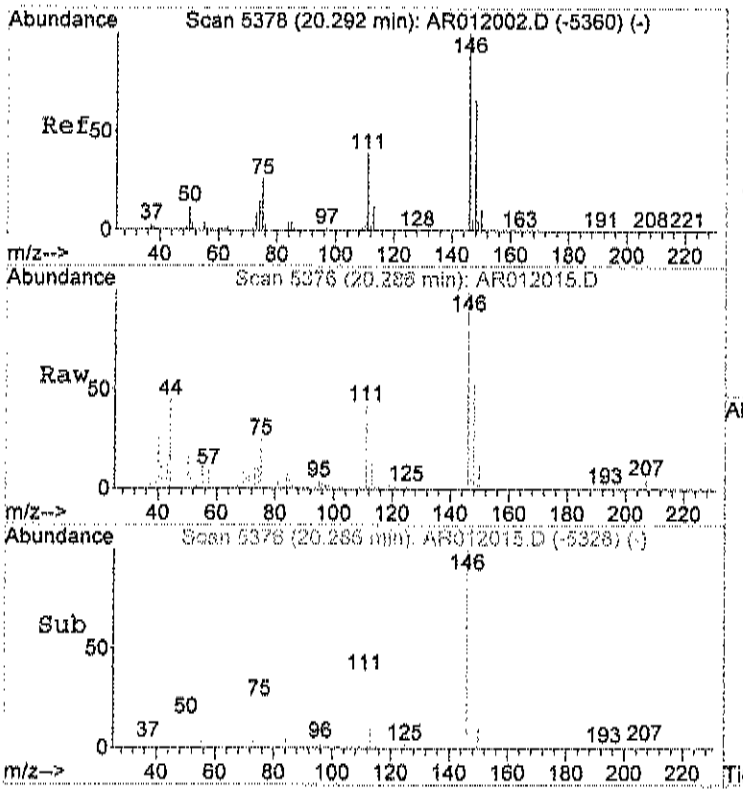


#71
1,2,4-trimethylbenzene
Concen: 0.12 ppb
RT: 19.96 min Scan# 5268
Delta R.T. -0.00 min
Lab File: AR012015.D
Acq: 20 Jan 2020 9:20 pm

Tgt Ion:105 Resp: 24195

Ion	Ratio	Lower	Upper
105	100		
120	45.7	24.9	64.9

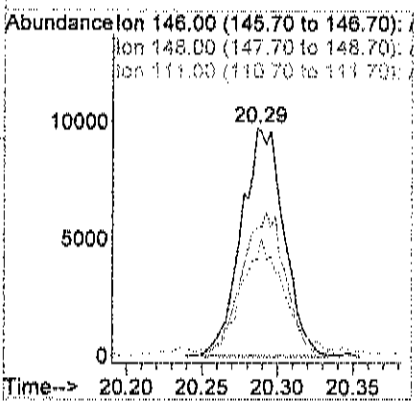




#72
1,3-dichlorobenzene
Concen: 0.18 ppb
RT: 20.29 min Scan# 5376
Delta R.T. -0.01 min
Lab File: AR012015.D
Acq: 20 Jan 2020 9:20 pm

Tgt Ion:146 Resp: 19206

Ion	Ratio	Lower	Upper
146	100		
148	64.7	44.1	84.1
111	52.5	19.3	59.3



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012027.D Vial: 27
Acq On : 21 Jan 2020 6:30 am Operator: RJP
Sample : C2001030-006A 10x Inst : MSD #1
Misc : A116_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 21 08:35:33 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 11:14:36 2020
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	9.94	128	36339	1.00 ppb	0.01
35) 1,4-difluorobenzene	12.23	114	168084	1.00 ppb	0.00
50) Chlorobenzene-d5	17.02	117	144667	1.00 ppb	0.00
System Monitoring Compounds					
65) Bromofluorobenzene	18.76	95	92450	0.96 ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96.00%		
Target Compounds					Qvalue
15) Acetone	6.15	58	15575	0.74 ppb	# 100

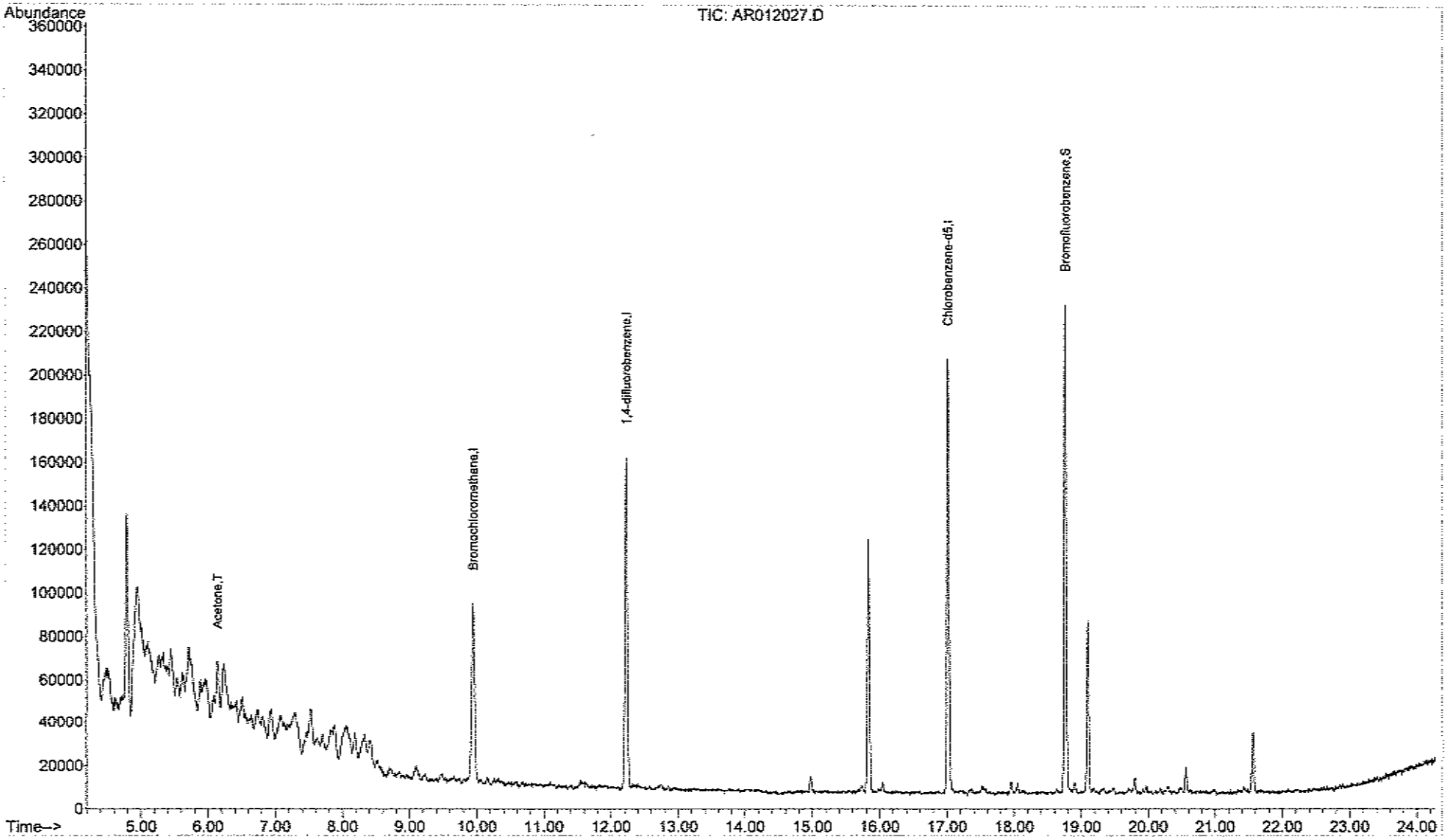
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

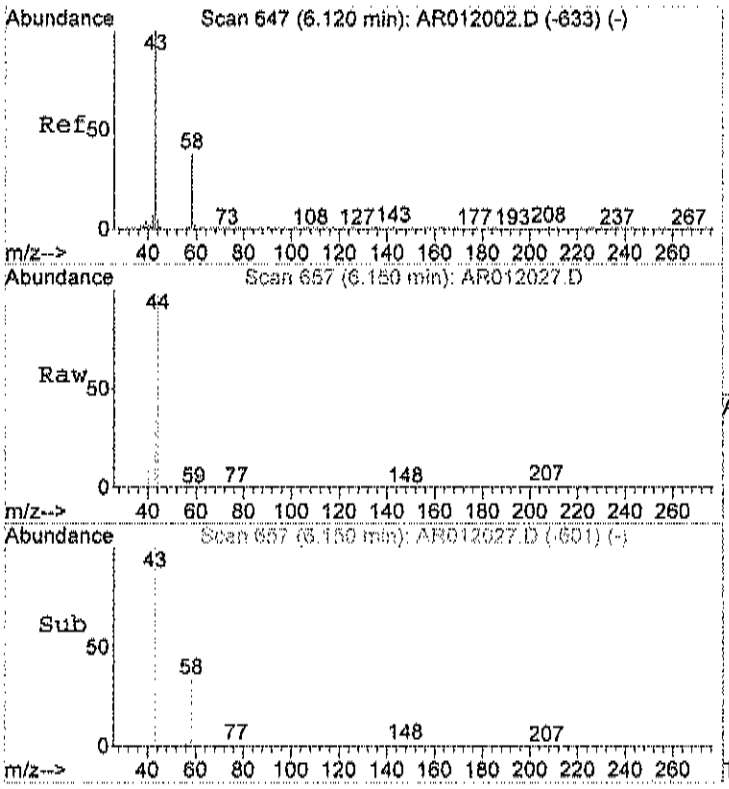
Data File : C:\HPCHEM\1\DATA\AR012027.D
Acq On : 21 Jan 2020 6:30 am
Sample : C2001030-006A 10x
Misc : A116_1UG
MS Integration Params: RTEINT.P
Quant Time: Jan 23 12:23 2020

Vial: 27
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A116_1UG.RES

Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
Response via : Initial Calibration



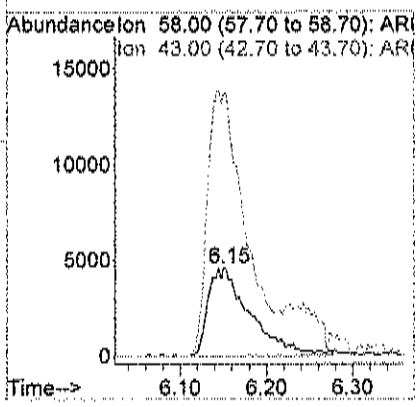
AR012027.D A116_1UG.M Wed Feb 05 10:03:15 2020 MSD1 Page 2



#15
Acetone
Concen: 0.74 ppb
RT: 6.15 min Scan# 657
Delta R.T. 0.02 min
Lab File: AR012027.D
Acq: 21 Jan 2020 6:30 am

Tgt Ion: 58 Resp: 15575

Ion	Ratio	Lower	Upper
58	100		
43	312.7	0.0	30.0#



Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A2-Indoor
Lab Order:	C2001030	**Tag Number:**	1316,440
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/16/2020
Lab ID:	C2001030-007A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	0			"Hg		1/20/2020
Lab Vacuum Out	-30			"Hg		1/20/2020
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	1/20/2020 10:06:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	1/20/2020 10:06:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
1,2,4-Trimethylbenzene	0.97	0.15		ppbV	1	1/20/2020 10:06:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
1,3,5-Trimethylbenzene	0.27	0.15		ppbV	1	1/20/2020 10:06:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/20/2020 10:06:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
4-ethyltoluene	0.28	0.15		ppbV	1	1/20/2020 10:06:00 PM
Acetone	20	3.0		ppbV	10	1/21/2020 7:15:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Benzene	0.86	0.15		ppbV	1	1/20/2020 10:06:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Carbon tetrachloride	0.080	0.030		ppbV	1	1/20/2020 10:06:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Chloroform	0.11	0.15	J	ppbV	1	1/20/2020 10:06:00 PM
Chloromethane	0.89	0.15		ppbV	1	1/20/2020 10:06:00 PM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	1/20/2020 10:06:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Cyclohexane	0.61	0.15		ppbV	1	1/20/2020 10:06:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Ethyl acetate	0.61	0.15		ppbV	1	1/20/2020 10:06:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A2-Indoor
Lab Order:	C2001030	**Tag Number:**	1316,440
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/16/2020
Lab ID:	C2001030-007A	**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	0.62	0.15		ppbV	1	1/20/2020 10:06:00 PM
Freon 11	0.30	0.15		ppbV	1	1/20/2020 10:06:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Freon 12	0.59	0.15		ppbV	1	1/20/2020 10:06:00 PM
Heptane	0.79	0.15		ppbV	1	1/20/2020 10:06:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Hexane	0.37	0.15		ppbV	1	1/20/2020 10:06:00 PM
Isopropyl alcohol	10	1.5		ppbV	10	1/21/2020 7:15:00 AM
m&p-Xylene	2.4	0.30		ppbV	1	1/20/2020 10:06:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/20/2020 10:06:00 PM
Methyl Ethyl Ketone	1.1	0.30		ppbV	1	1/20/2020 10:06:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/20/2020 10:06:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Methylene chloride	0.16	0.15		ppbV	1	1/20/2020 10:06:00 PM
o-Xylene	0.81	0.15		ppbV	1	1/20/2020 10:06:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Styrene	0.30	0.15		ppbV	1	1/20/2020 10:06:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Tetrahydrofuran	0.46	0.15		ppbV	1	1/20/2020 10:06:00 PM
Toluene	3.3	1.5		ppbV	10	1/21/2020 7:15:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Trichloroethene	< 0.030	0.030		ppbV	1	1/20/2020 10:06:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/20/2020 10:06:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	1/20/2020 10:06:00 PM
Surr: Bromofluorobenzene	101	70-130		%REC	1	1/20/2020 10:06:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A2-Indoor
Lab Order:	C2001030	**Tag Number:**	1316,440
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/16/2020
Lab ID:	C2001030-007A	**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	1/20/2020 10:06:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/20/2020 10:06:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	1/20/2020 10:06:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	1/20/2020 10:06:00 PM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 10:06:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/20/2020 10:06:00 PM
1,2,4-Trimethylbenzene	4.8	0.74		ug/m3	1	1/20/2020 10:06:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/20/2020 10:06:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 10:06:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	1/20/2020 10:06:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	1/20/2020 10:06:00 PM
1,3,5-Trimethylbenzene	1.3	0.74		ug/m3	1	1/20/2020 10:06:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	1/20/2020 10:06:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 10:06:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/20/2020 10:06:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/20/2020 10:06:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	1/20/2020 10:06:00 PM
4-ethyltoluene	1.4	0.74		ug/m3	1	1/20/2020 10:06:00 PM
Acetone	47	7.1		ug/m3	10	1/21/2020 7:15:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	1/20/2020 10:06:00 PM
Benzene	2.7	0.48		ug/m3	1	1/20/2020 10:06:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	1/20/2020 10:06:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/20/2020 10:06:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/20/2020 10:06:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	1/20/2020 10:06:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/20/2020 10:06:00 PM
Carbon tetrachloride	0.50	0.19		ug/m3	1	1/20/2020 10:06:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	1/20/2020 10:06:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/20/2020 10:06:00 PM
Chloroform	0.54	0.73	J	ug/m3	1	1/20/2020 10:06:00 PM
Chloromethane	1.8	0.31		ug/m3	1	1/20/2020 10:06:00 PM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 10:06:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/20/2020 10:06:00 PM
Cyclohexane	2.1	0.52		ug/m3	1	1/20/2020 10:06:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/20/2020 10:06:00 PM
Ethyl acetate	2.2	0.54		ug/m3	1	1/20/2020 10:06:00 PM
Ethylbenzene	2.7	0.65		ug/m3	1	1/20/2020 10:06:00 PM
Freon 11	1.7	0.84		ug/m3	1	1/20/2020 10:06:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	1/20/2020 10:06:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	1/20/2020 10:06:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Centek Laboratories, LLC

Date: *05-Feb-20*

CLIENT:	Matrix Environmental Technologies, Inc	**Client Sample ID:**	Apartment A2-Indoor
Lab Order:	C2001030	**Tag Number:**	1316,440
Project:	Aquino Lake Ave Apts	**Collection Date:**	1/16/2020
Lab ID:	C2001030-007A	**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	2.9	0.74		ug/m3	1	1/20/2020 10:06:00 PM
Heptane	3.2	0.61		ug/m3	1	1/20/2020 10:06:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/20/2020 10:06:00 PM
Hexane	1.3	0.53		ug/m3	1	1/20/2020 10:06:00 PM
Isopropyl alcohol	26	3.7		ug/m3	10	1/21/2020 7:15:00 AM
m&p-Xylene	11	1.3		ug/m3	1	1/20/2020 10:06:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/20/2020 10:06:00 PM
Methyl Ethyl Ketone	3.2	0.88		ug/m3	1	1/20/2020 10:06:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/20/2020 10:06:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	1/20/2020 10:06:00 PM
Methylene chloride	0.56	0.52		ug/m3	1	1/20/2020 10:06:00 PM
o-Xylene	3.5	0.65		ug/m3	1	1/20/2020 10:06:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/20/2020 10:06:00 PM
Styrene	1.3	0.64		ug/m3	1	1/20/2020 10:06:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	1/20/2020 10:06:00 PM
Tetrahydrofuran	1.4	0.44		ug/m3	1	1/20/2020 10:06:00 PM
Toluene	12	5.7		ug/m3	10	1/21/2020 7:15:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	1/20/2020 10:06:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/20/2020 10:06:00 PM
Trichloroethene	< 0.16	0.16		ug/m3	1	1/20/2020 10:06:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	1/20/2020 10:06:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	1/20/2020 10:06:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	1/20/2020 10:06:00 PM

Qualifiers:	SC	Sub-Contracted	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	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	DL	Detection Limit

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012016.D Vial: 16
Acq On : 20 Jan 2020 10:06 pm Operator: RJP
Sample : C2001030-007A Inst : MSD #1
Misc : A116_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 21 08:35:22 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 11:14:36 2020
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

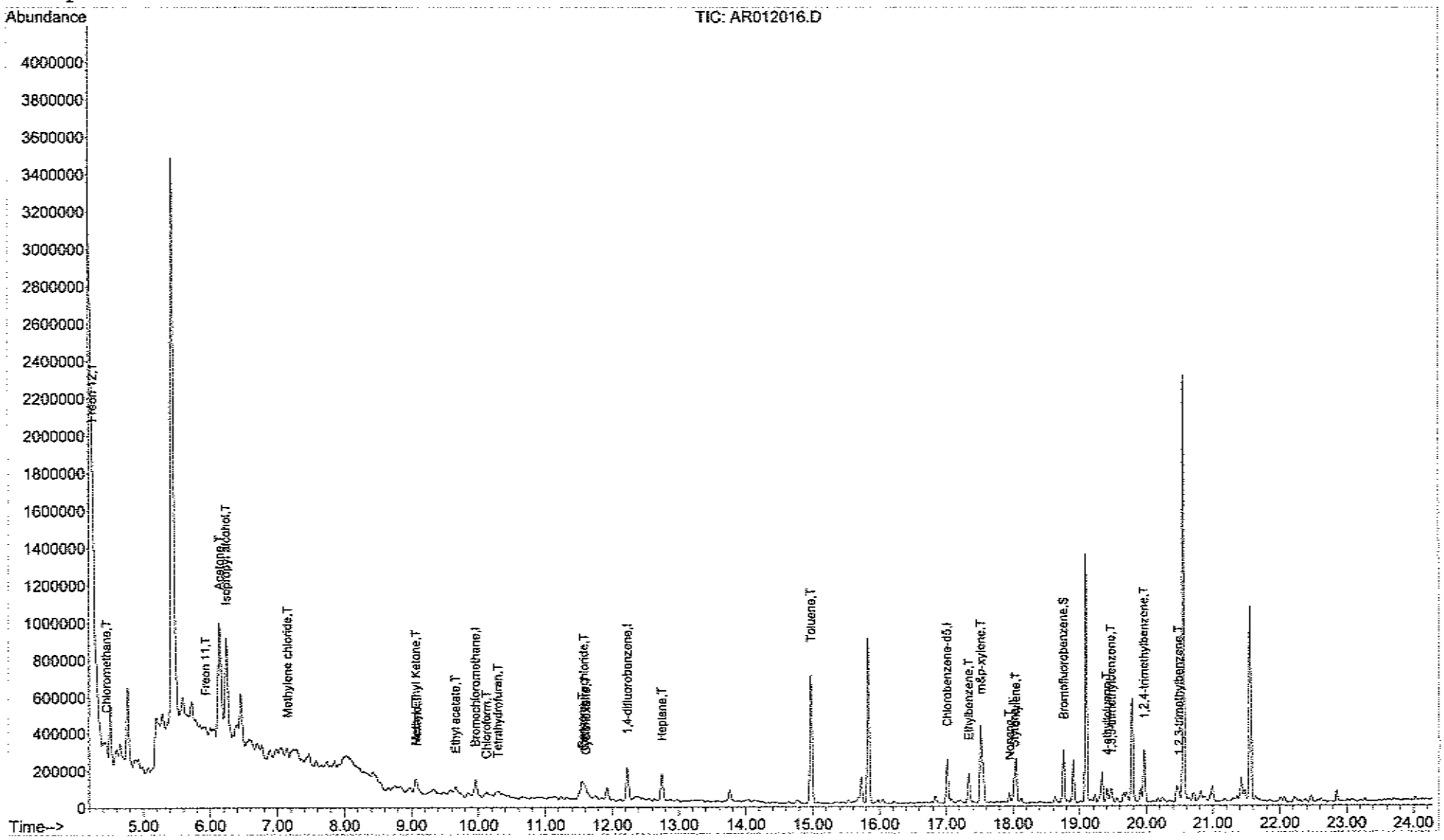
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	9.96	128	41768	1.00 ppb	0.03
35) 1,4-difluorobenzene	12.23	114	196706	1.00 ppb	0.02
50) Chlorobenzene-d5	17.01	117	172403	1.00 ppb	0.00
System Monitoring Compounds					
65) Bromofluorobenzene	18.76	95	116382	1.01 ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 101.00%		
Target Compounds					Qvalue
3) Freon 12	4.25	85	64139	0.59 ppb	99
4) Chloromethane	4.45	50	22658	0.89 ppb	83
14) Freon 11	5.93	101	35009	0.30 ppb	98
15) Acetone	6.14	58	475906	19.60 ppb #	100
17) Isopropyl alcohol	6.24	45	1046251	13.59 ppb #	1
21) Methylene chloride	7.16	84	7036	0.16 ppb	98
28) Methyl Ethyl Ketone	9.06	72	25413	1.10 ppb #	100
30) Hexane	9.08	57	30141	0.37 ppb	83
31) Ethyl acetate	9.66	43	63493	0.61 ppb	98
32) Chloroform	10.12	83	11366	0.11 ppb	96
33) Tetrahydrofuran	10.30	42	21668m	0.46 ppb	
37) Cyclohexane	11.62	56	45846m	0.61 ppb	
38) Carbon tetrachloride	11.59	117	8731	0.08 ppb	96
39) Benzene	11.55	78	123285	0.86 ppb	99
43) Heptane	12.75	43	67170	0.79 ppb	91
51) Toluene	14.98	92	374086	3.55 ppb	99
58) Ethylbenzene	17.34	91	143769	0.62 ppb	99
59) m&p-xylene	17.52	91	429862	2.42 ppb	98
60) Nonane	17.95	43	20709	0.17 ppb	94
61) Styrene	18.01	104	39335	0.30 ppb	87
63) o-xylene	18.04	91	147701	0.81 ppb	98
69) 4-ethyltoluene	19.41	105	63745m	0.28 ppb	
70) 1,3,5-trimethylbenzene	19.47	105	56002m	0.27 ppb	
71) 1,2,4-trimethylbenzene	19.96	105	196561	0.97 ppb	99
75) 1,2,3-trimethylbenzene	20.49	105	43642	0.21 ppb	84

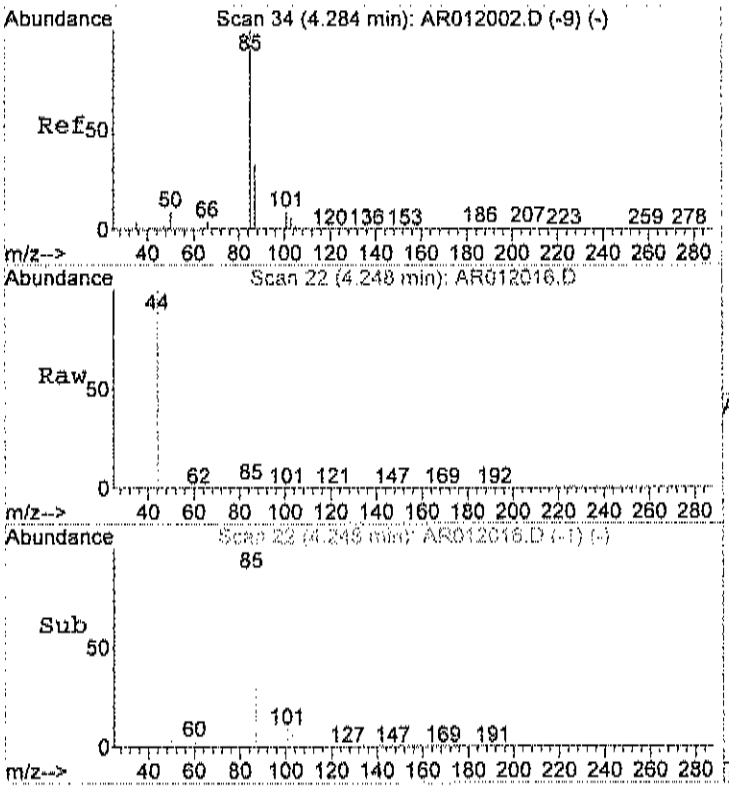
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012016.D Vial: 16
Acq On : 20 Jan 2020 10:06 pm Operator: RJP
Sample : C2001030-007A Inst : MSD #1
Misc : A116_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 23 8:53 2020 Quant Results File: A116_1UG.RES

Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
Response via : Initial Calibration

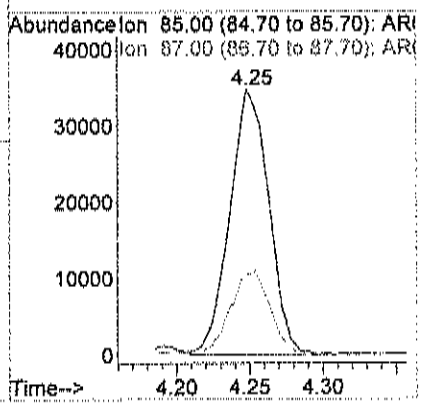


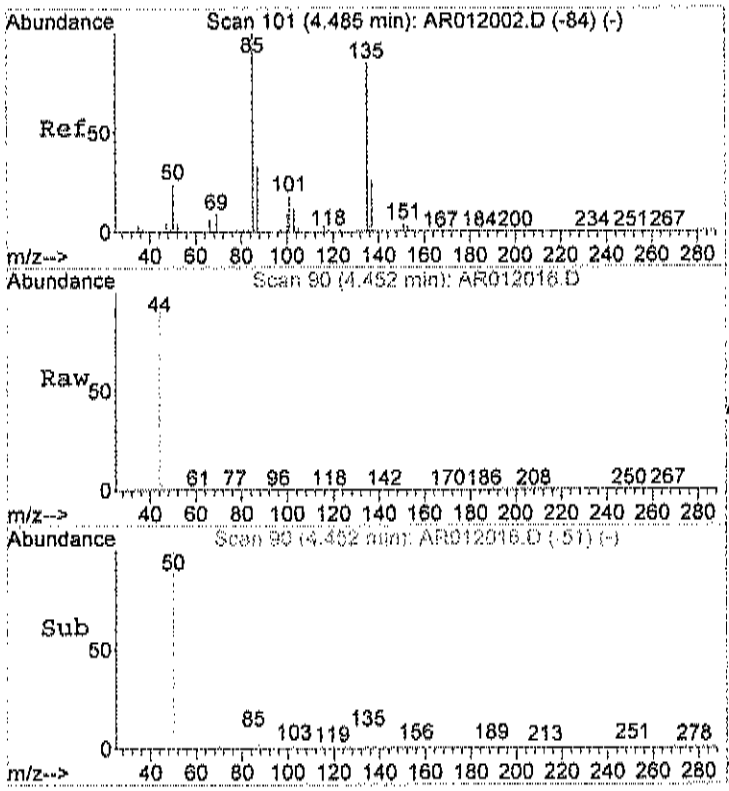


#3
Freon 12
Concen: 0.59 ppb
RT: 4.25 min Scan# 22
Delta R.T. -0.04 min
Lab File: AR012016.D
Acq: 20 Jan 2020 10:06 pm

Tgt Ion: 85 Resp: 64139

Ion	Ratio	Lower	Upper
85	100		
87	32.2	11.9	51.9

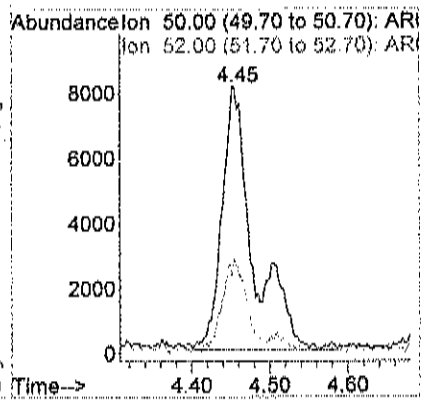


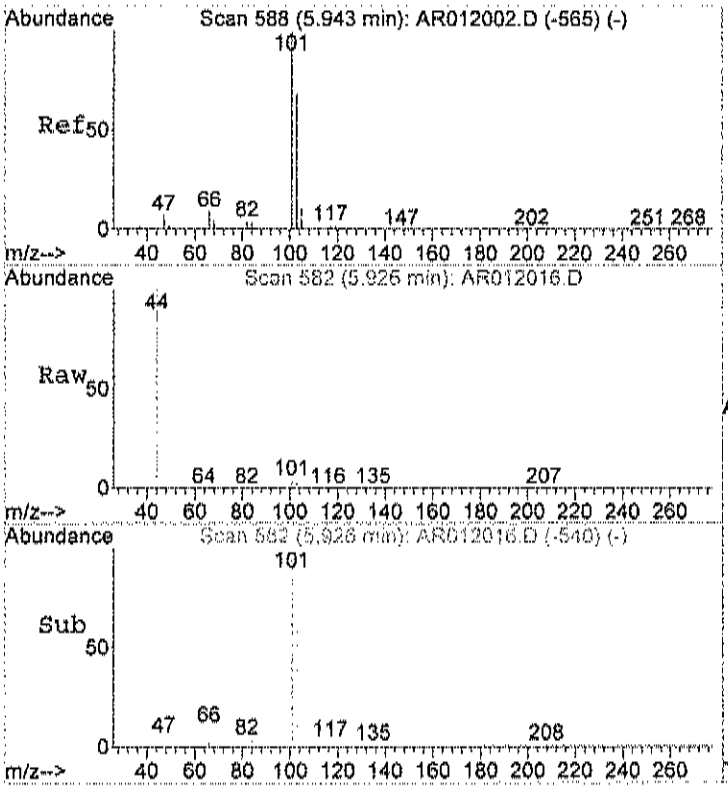


#4
Chloromethane
Concen: 0.89 ppb
RT: 4.45 min Scan# 90
Delta R.T. -0.03 min
Lab File: AR012016.D
Acq: 20 Jan 2020 10:06 pm

Tgt Ion: 50 Resp: 22658

Ion	Ratio	Lower	Upper
50	100		
52	35.0	6.1	46.1

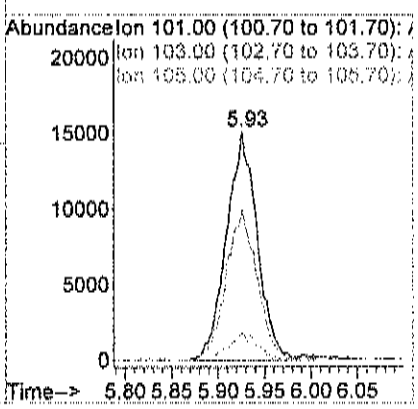


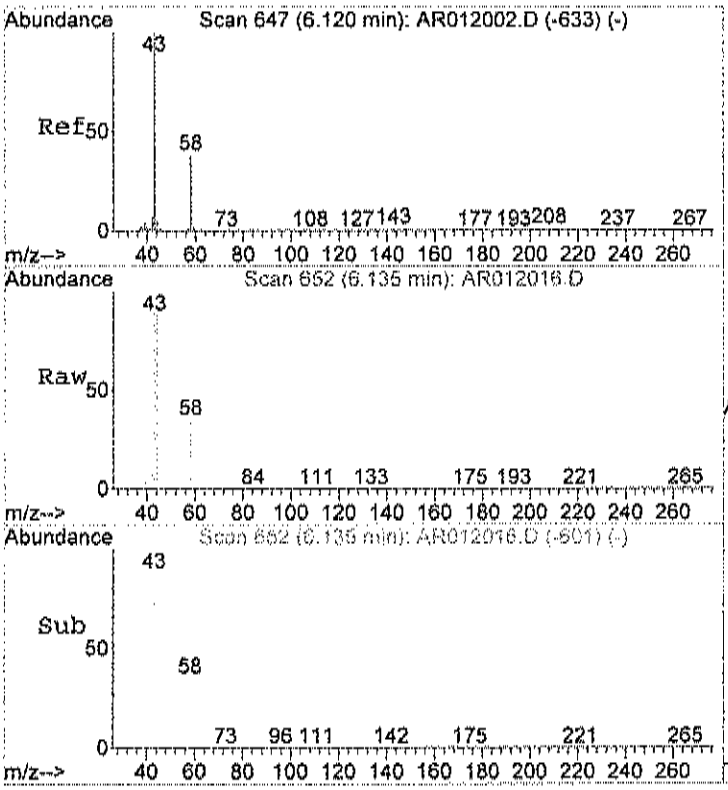


#14
Freon 11
Concen: 0.30 ppb
RT: 5.93 min Scan# 582
Delta R.T. -0.02 min
Lab File: AR012016.D
Acq: 20 Jan 2020 10:06 pm

Tgt Ion:101 Resp: 35009

Ion	Ratio	Lower	Upper
101	100		
103	65.7	44.2	84.2
105	11.3	0.0	30.3

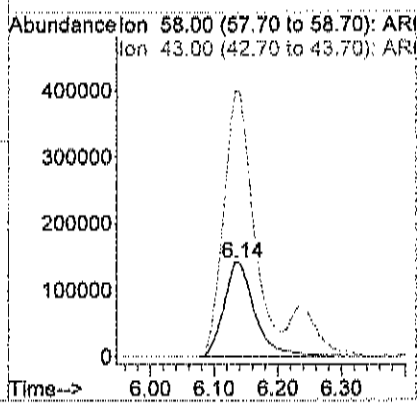


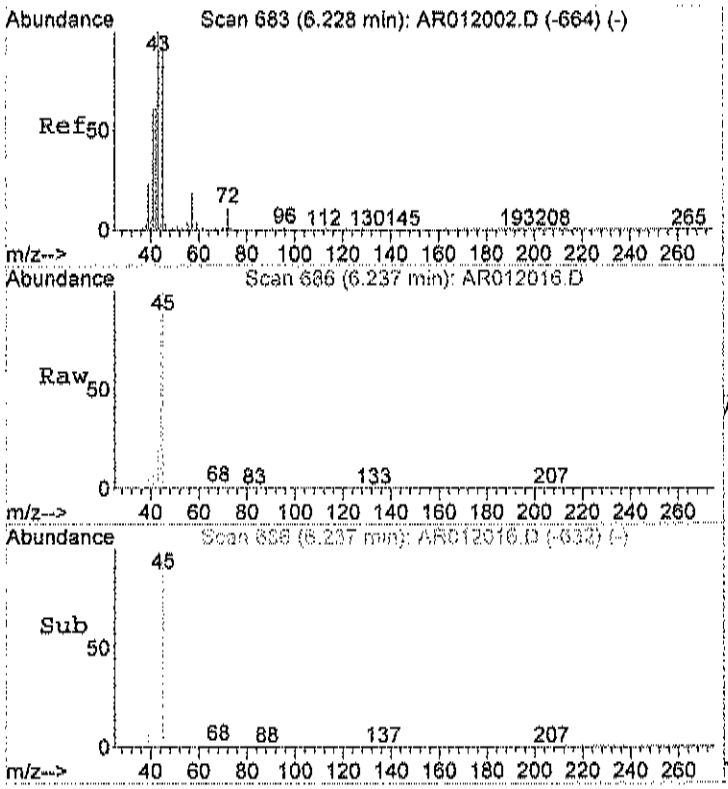


#15
Acetone
Concen: 19.60 ppb
RT: 6.14 min Scan# 652
Delta R.T. 0.00 min
Lab File: AR012016.D
Acq: 20 Jan 2020 10:06 pm

Tgt Ion: 58 Resp: 475906

Ion	Ratio	Lower	Upper
58	100		
43	320.3	0.0	30.0#

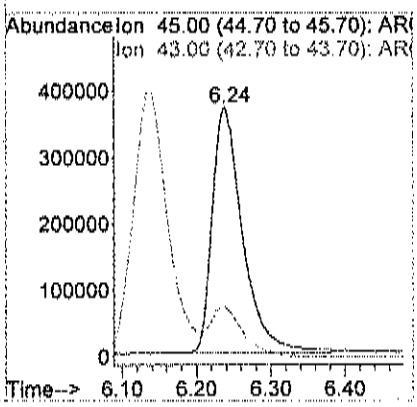


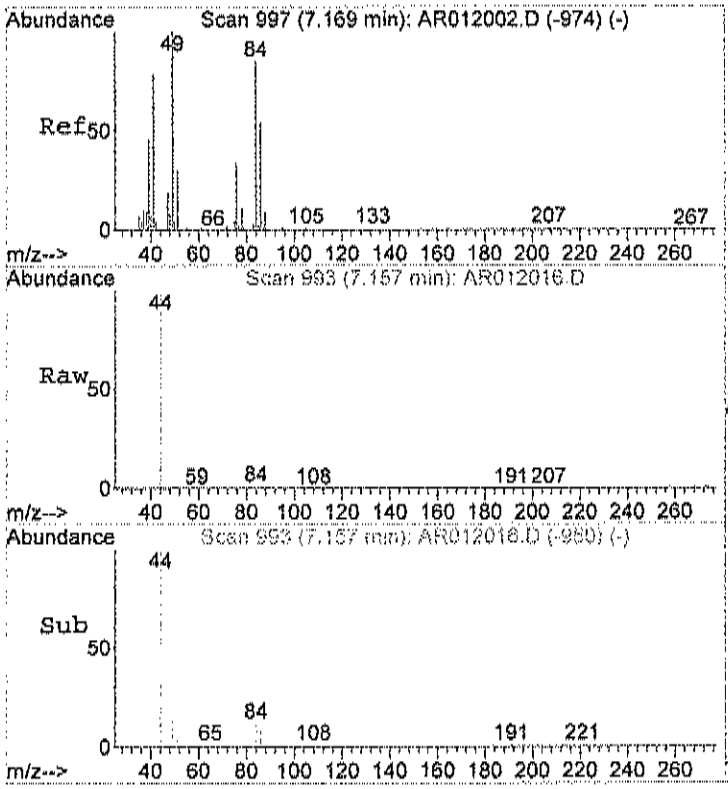


#17
Isopropyl alcohol
Concen: 13.59 ppb
RT: 6.24 min Scan# 686
Delta R.T. 0.01 min
Lab File: AR012016.D
Acq: 20 Jan 2020 10:06 pm

Tgt Ion: 45 Resp: 1046251

Ion	Ratio	Lower	Upper
45	100		
43	0.0	196.5	236.5#

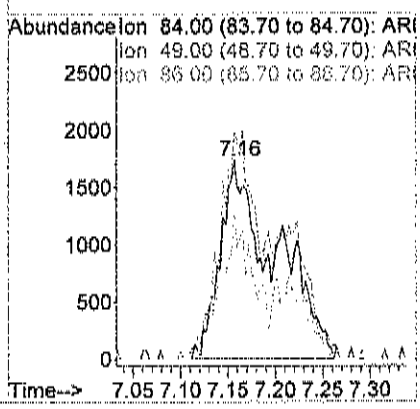


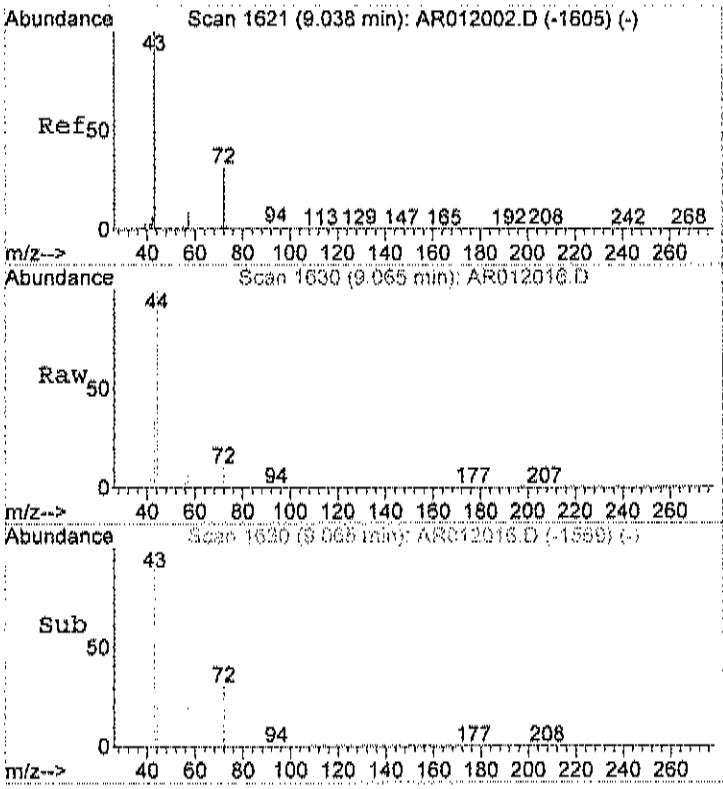


#21
Methylene chloride
Concen: 0.16 ppb
RT: 7.16 min Scan# 993
Delta R.T. -0.02 min
Lab File: AR012016.D
Acq: 20 Jan 2020 10:06 pm

Tgt Ion: 84 Resp: 7036

Ion	Ratio	Lower	Upper
84	100		
49	117.6	101.4	141.4
86	65.7	45.4	85.4

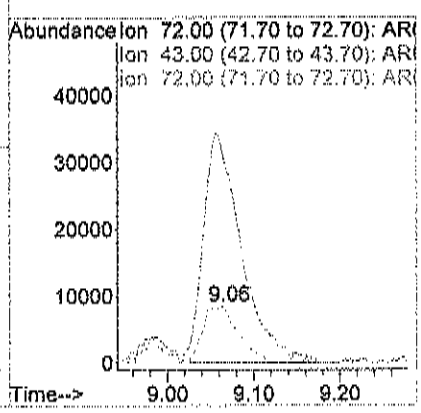


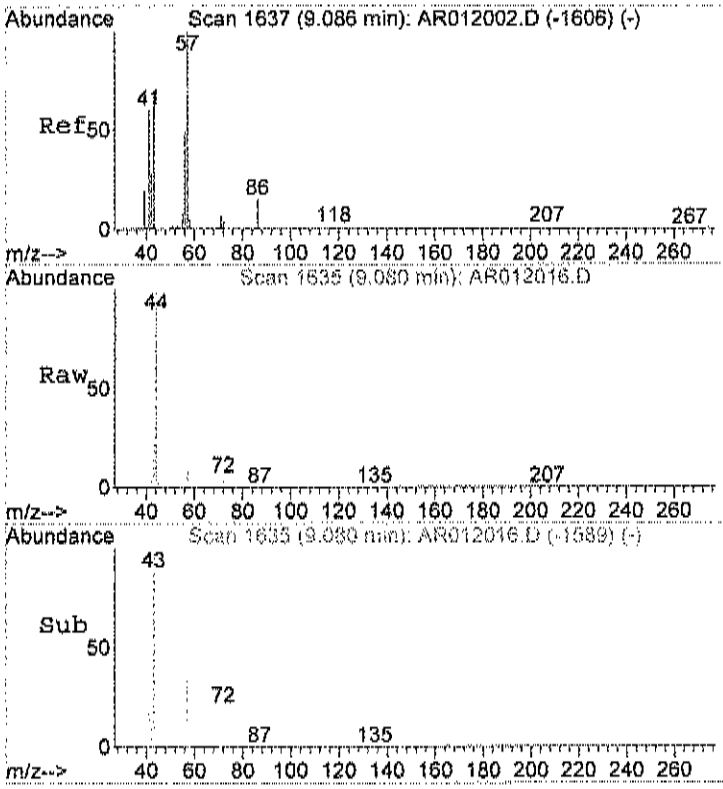


#28
Methyl Ethyl Ketone
Concen: 1.10 ppb
RT: 9.06 min Scan# 1630
Delta R.T. 0.03 min
Lab File: AR012016.D
Acq: 20 Jan 2020 10:06 pm

Tgt Ion: 72 Resp: 25413

Ion	Ratio	Lower	Upper
72	100		
43	409.9	0.0	20.0#
72	100.0	80.0	120.0

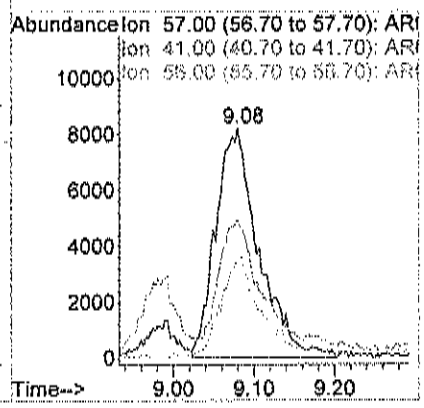


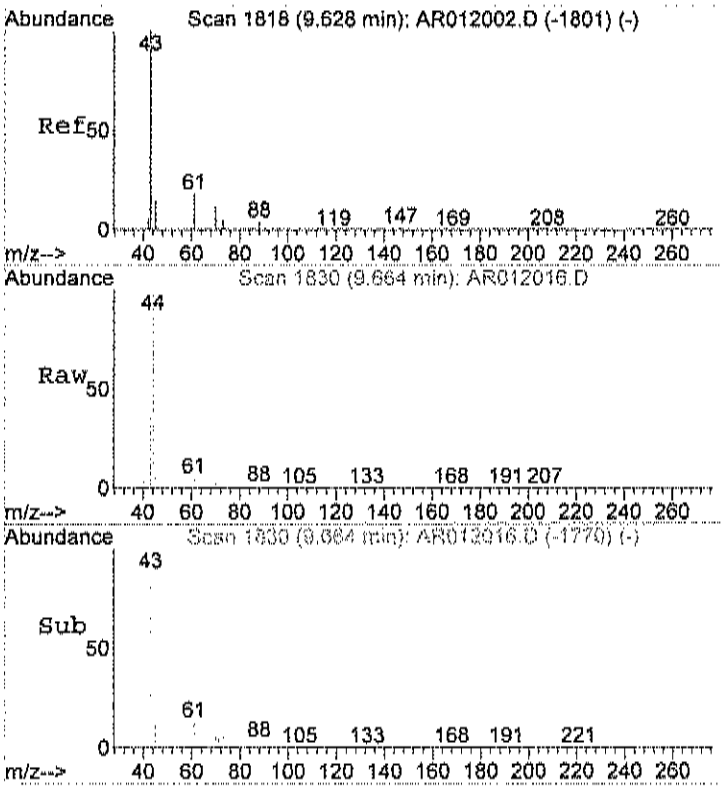


#30
Hexane
Concen: 0.37 ppb
RT: 9.08 min Scan# 1635
Delta R.T. -0.01 min
Lab File: AR012016.D
Acq: 20 Jan 2020 10:06 pm

Tgt Ion: 57 Resp: 30141

Ion	Ratio	Lower	Upper
57	100		
41	61.8	55.7	95.7
56	39.0	32.4	72.4

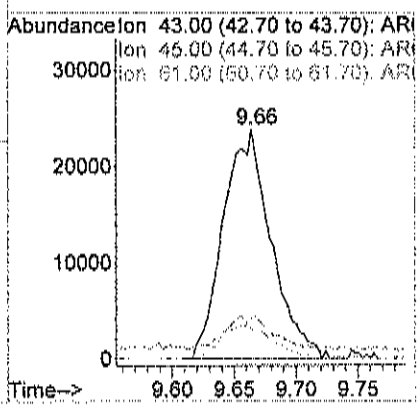


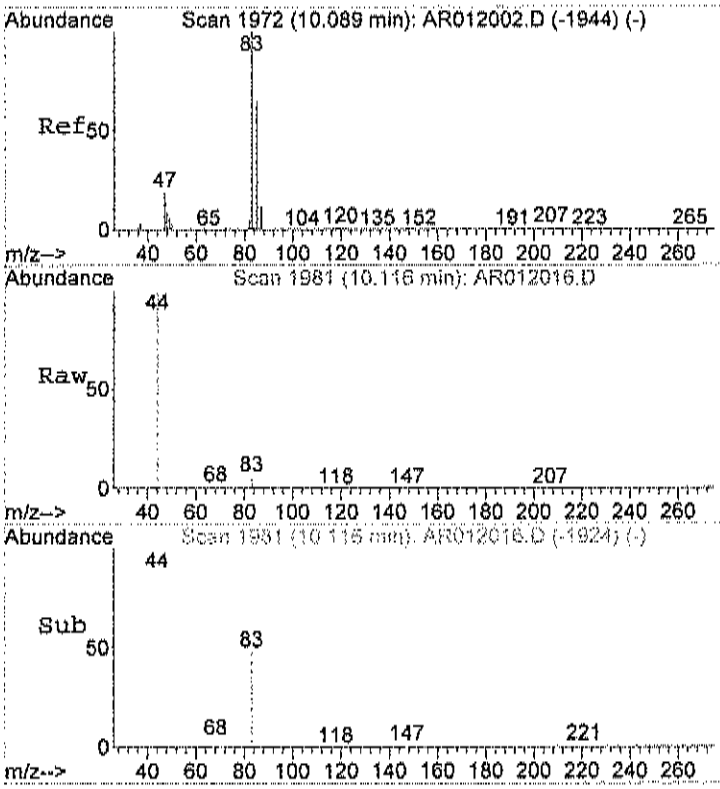


#31
Ethyl acetate
Concen: 0.61 ppb
RT: 9.66 min Scan# 1830
Delta R.T. 0.03 min
Lab File: AR012016.D
Acq: 20 Jan 2020 10:06 pm

Tgt Ion: 43 Resp: 63493

Ion	Ratio	Lower	Upper
43	100		
45	16.0	0.0	34.5
61	15.7	0.0	35.8

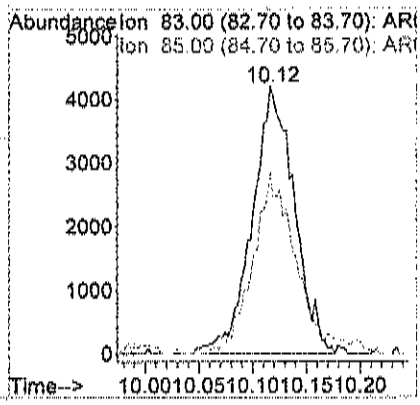


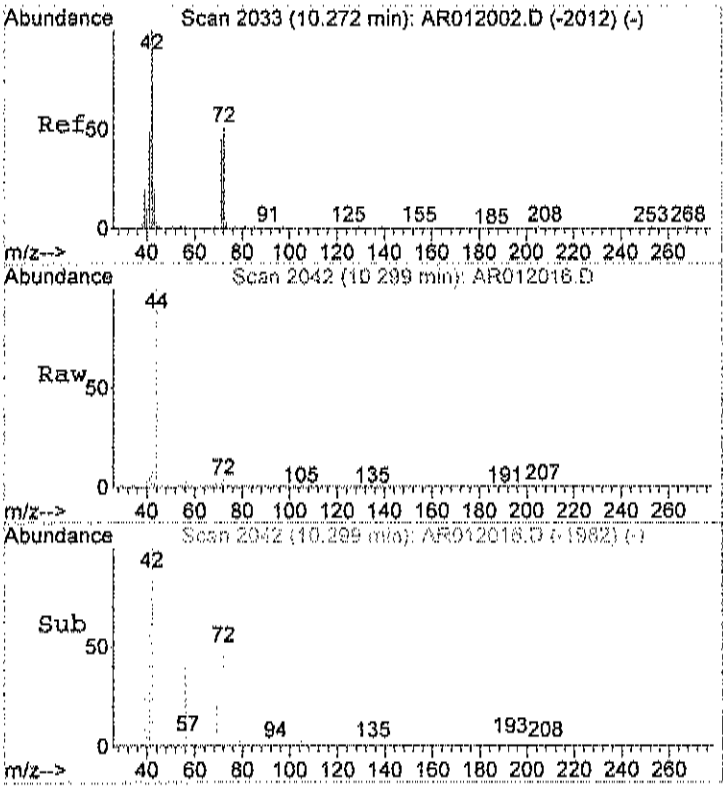


#32
Chloroform
Concen: 0.11 ppb
RT: 10.12 min Scan# 1981
Delta R.T. 0.02 min
Lab File: AR012016.D
Acq: 20 Jan 2020 10:06 pm

Tgt Ion: 83 Resp: 11366

Ion	Ratio	Lower	Upper
83	100		
85	70.0	46.5	86.5

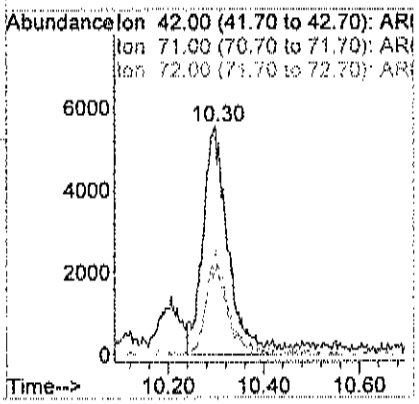


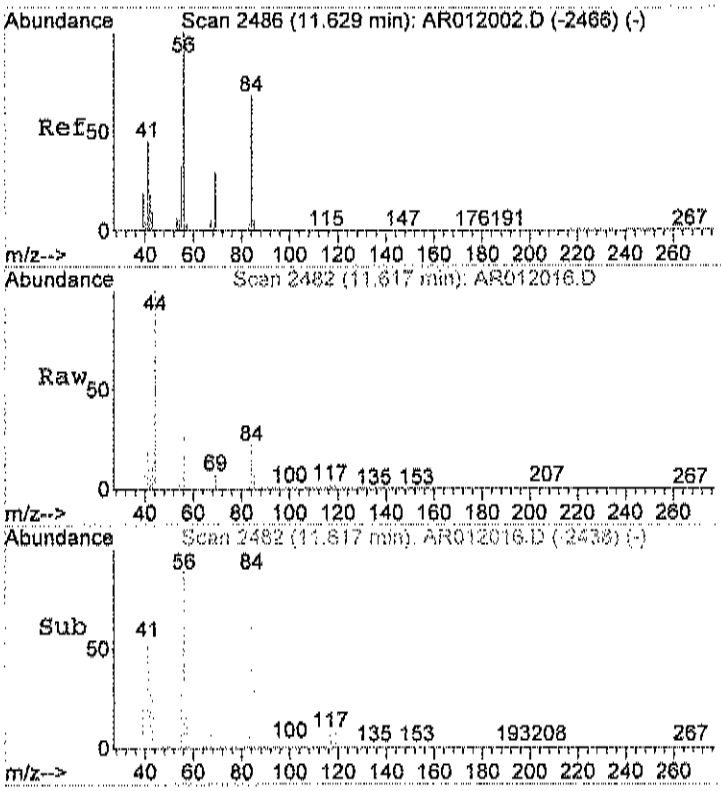


#33
Tetrahydrofuran
Concen: 0.46 ppb m
RT: 10.30 min Scan# 2042
Delta R.T. 0.03 min
Lab File: AR012016.D
Acq: 20 Jan 2020 10:06 pm

Tgt Ion: 42 Resp: 21668

Ion	Ratio	Lower	Upper
42	100		
71	32.5	25.1	65.1
72	33.1	23.3	63.3

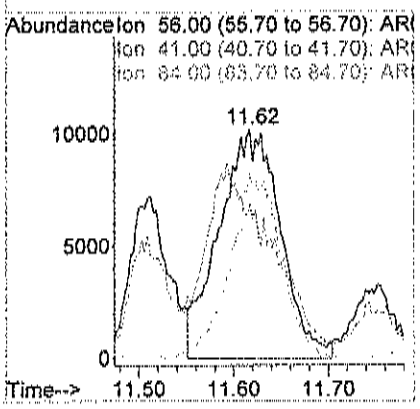


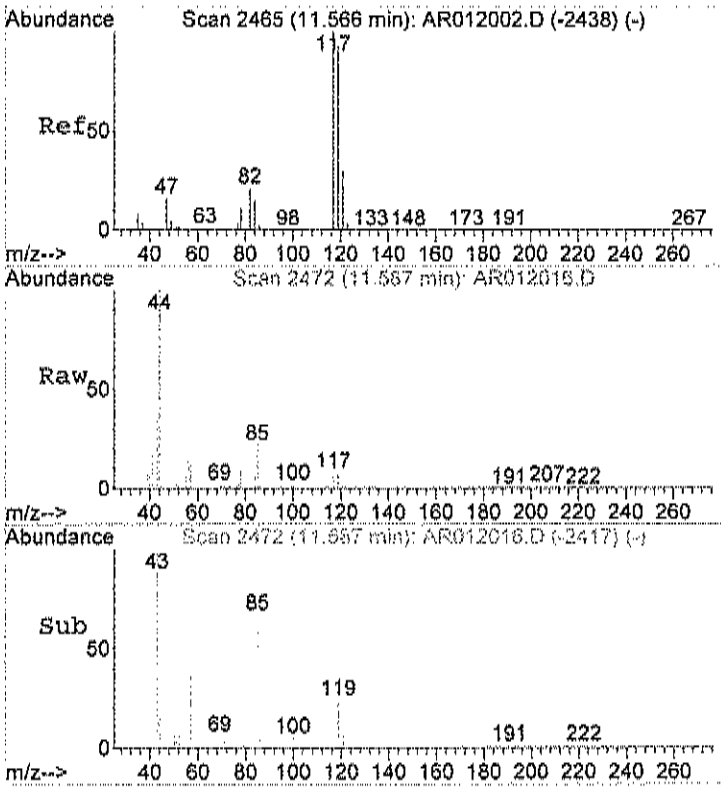


#37
Cyclohexane
Concen: 0.61 ppb m
RT: 11.62 min Scan# 2482
Delta R.T. -0.02 min
Lab File: AR012016.D
Acq: 20 Jan 2020 10:06 pm

Tgt Ion: 56 Resp: 45846

Ion	Ratio	Lower	Upper
56	100		
41	92.0	42.3	82.3#
84	66.0	107.7	147.7#

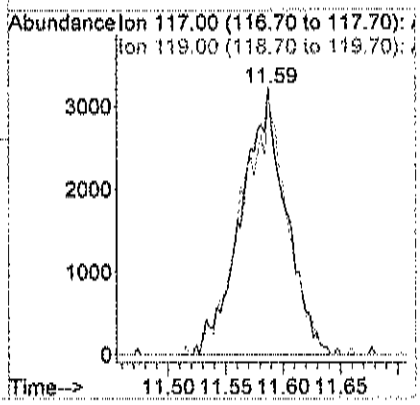


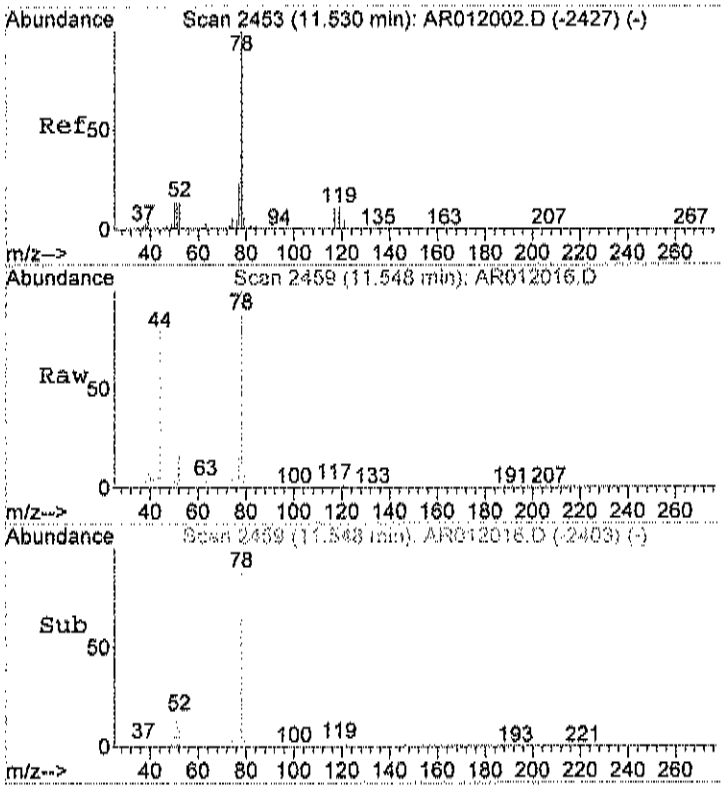


#38
Carbon tetrachloride
Concen: 0.08 ppb
RT: 11.59 min Scan# 2472
Delta R.T. 0.02 min
Lab File: AR012016.D
Acq: 20 Jan 2020 10:06 pm

Tgt Ion:117 Resp: 8731

Ion	Ratio	Lower	Upper
117	100		
119	99.3	75.6	115.6

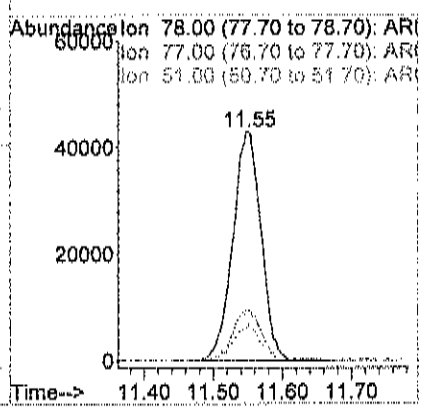


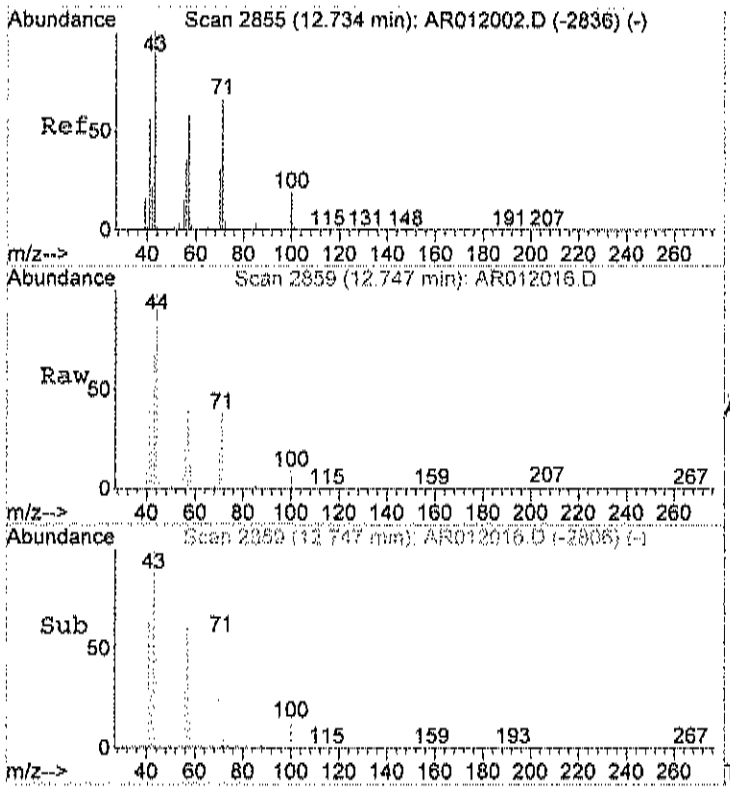


#39
Benzene
Concen: 0.86 ppb
RT: 11.55 min Scan# 2459
Delta R.T. 0.02 min
Lab File: AR012016.D
Acq: 20 Jan 2020 10:06 pm

Tgt Ion: 78 Resp: 123285

Ion	Ratio	Lower	Upper
78	100		
77	23.3	4.1	44.1
51	16.8	0.0	36.8

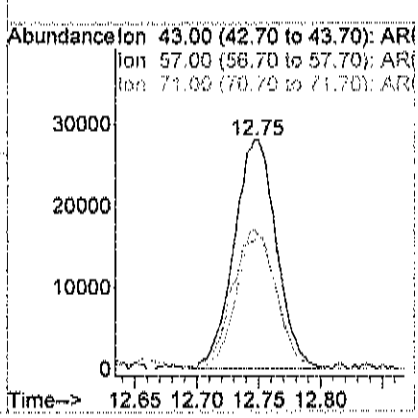


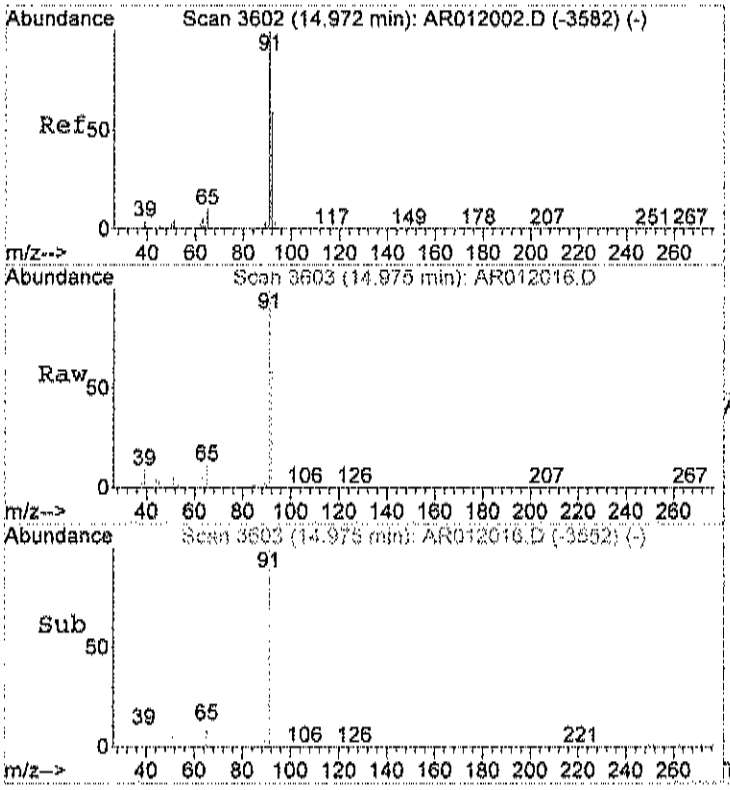


#43
Heptane
Concen: 0.79 ppb
RT: 12.75 min Scan# 2859
Delta R.T. 0.01 min
Lab File: AR012016.D
Acq: 20 Jan 2020 10:06 pm

Tgt Ion: 43 Resp: 67170

Ion	Ratio	Lower	Upper
43	100		
57	63.4	36.0	76.0
71	56.4	42.5	82.5

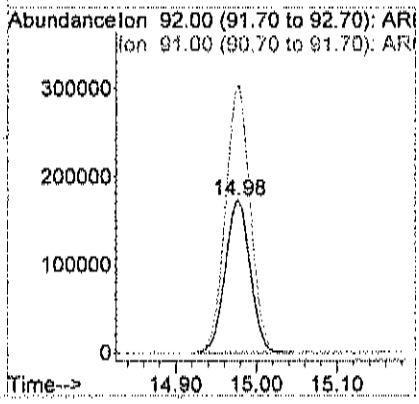


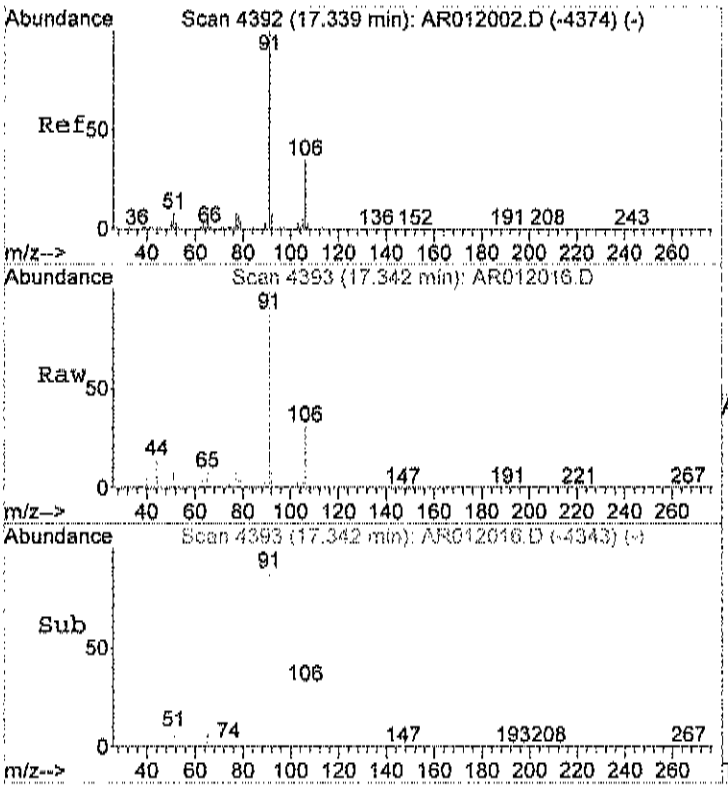


#51
Toluene
Concen: 3.55 ppb
RT: 14.98 min Scan# 3603
Delta R.T. 0.00 min
Lab File: AR012016.D
Acq: 20 Jan 2020 10:06 pm

Tgt Ion: 92 Resp: 374086

Ion	Ratio	Lower	Upper
92	100		
91	173.5	154.5	194.5

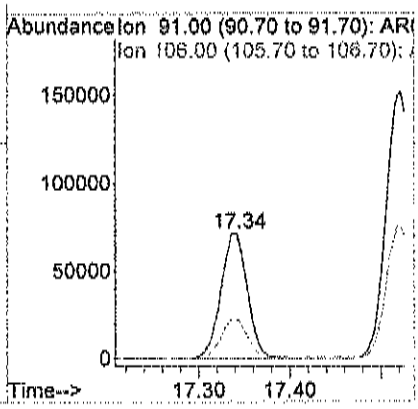


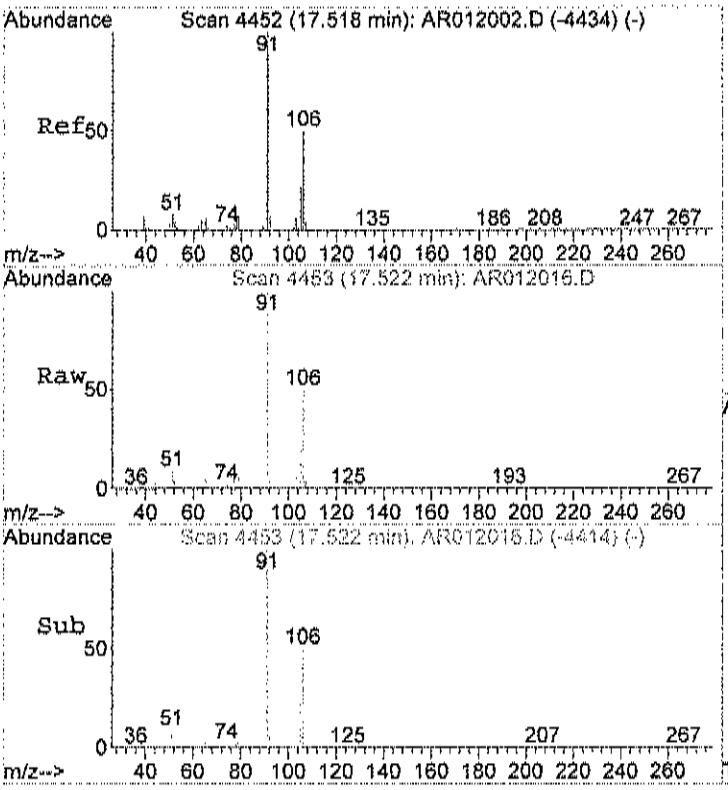


#58
Ethylbenzene
Concen: 0.62 ppb
RT: 17.34 min Scan# 4393
Delta R.T. 0.00 min
Lab File: AR012016.D
Acq: 20 Jan 2020 10:06 pm

Tgt Ion: 91 Resp: 143769

Ion	Ratio	Lower	Upper
91	100		
106	32.0	11.7	51.7

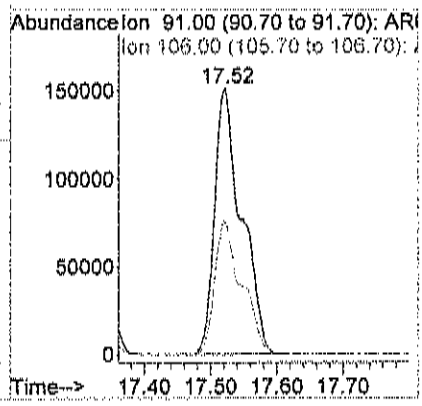


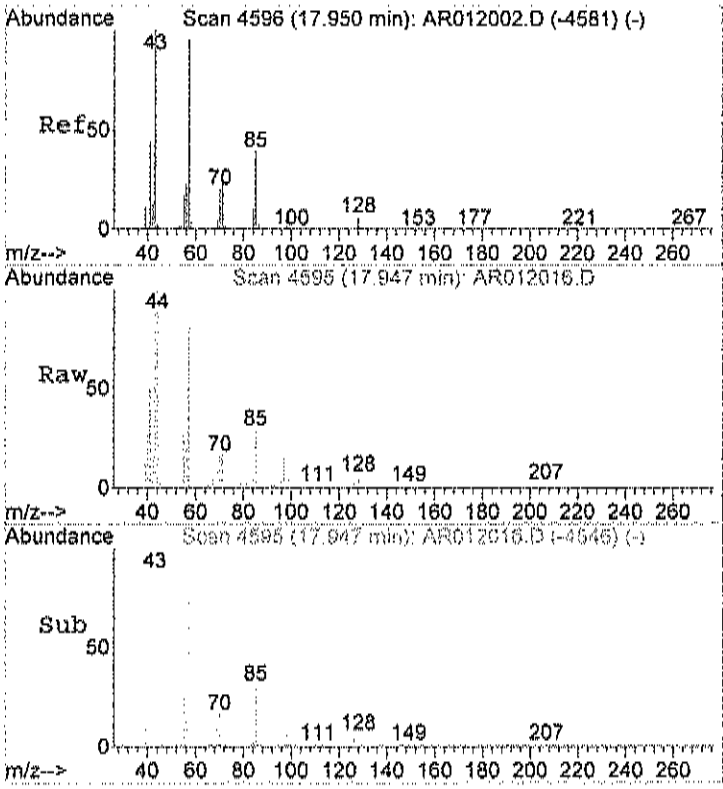


#59
m&p-xylene
Concen: 2.42 ppb
RT: 17.52 min Scan# 4453
Delta R.T. -0.03 min
Lab File: AR012016.D
Acq: 20 Jan 2020 10:06 pm

Tgt Ion: 91 Resp: 429862

Ion	Ratio	Lower	Upper
91	100		
106	50.3	29.0	69.0

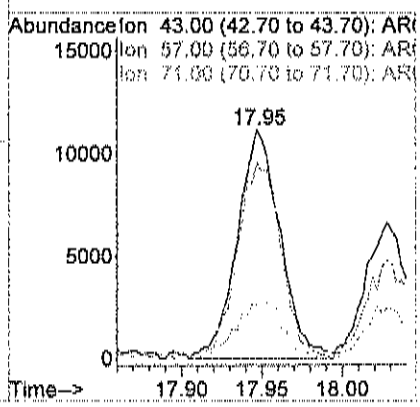


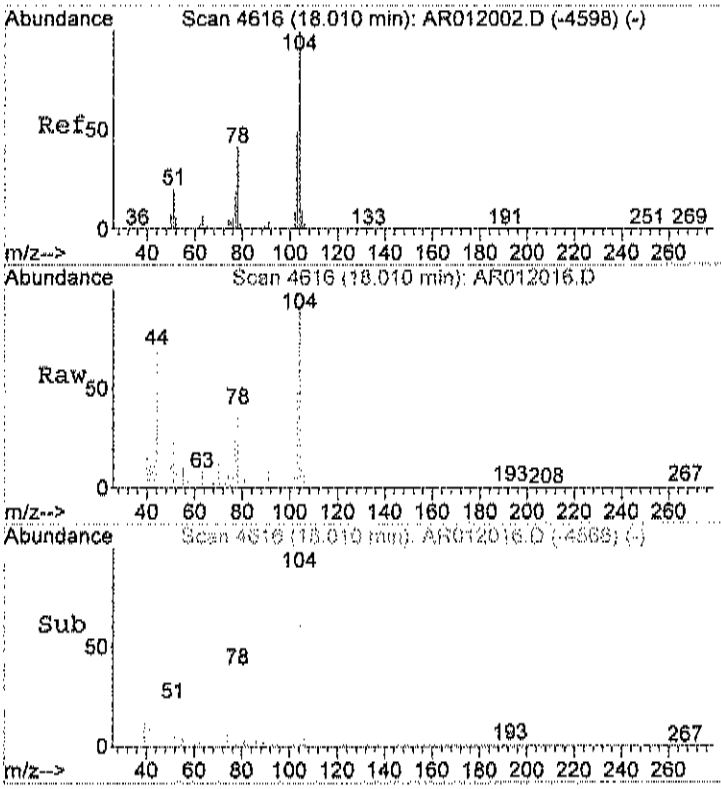


#60
Nonane
Concen: 0.17 ppb
RT: 17.95 min Scan# 4595
Delta R.T. -0.00 min
Lab File: AR012016.D
Acq: 20 Jan 2020 10:06 pm

Tgt Ion: 43 Resp: 20709

Ion	Ratio	Lower	Upper
43	100		
57	82.1	71.2	106.8
71	26.4	19.3	35.1

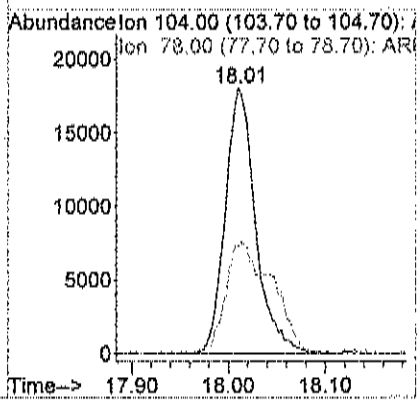


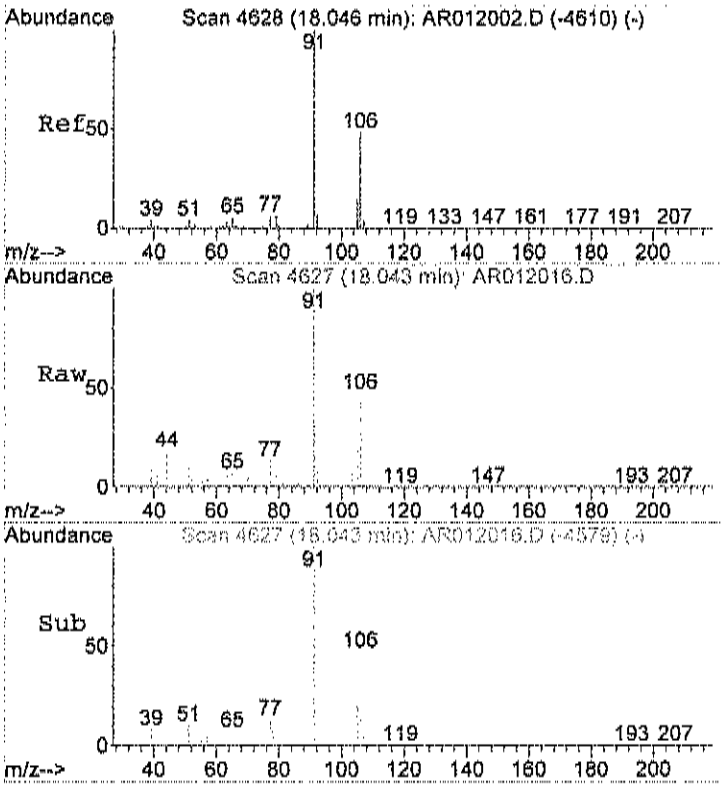


#61
Styrene
Concen: 0.30 ppb
RT: 18.01 min Scan# 4616
Delta R.T. 0.00 min
Lab File: AR012016.D
Acq: 20 Jan 2020 10:06 pm

Tgt Ion:104 Resp: 39335

Ion	Ratio	Lower	Upper
104	100		
78	64.2	34.7	74.7

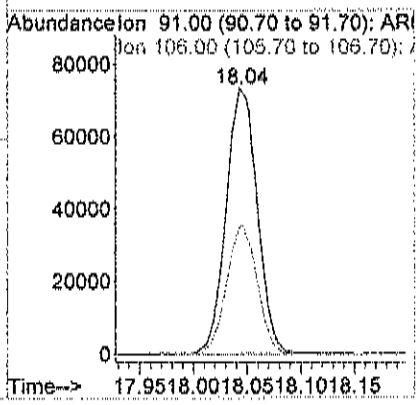


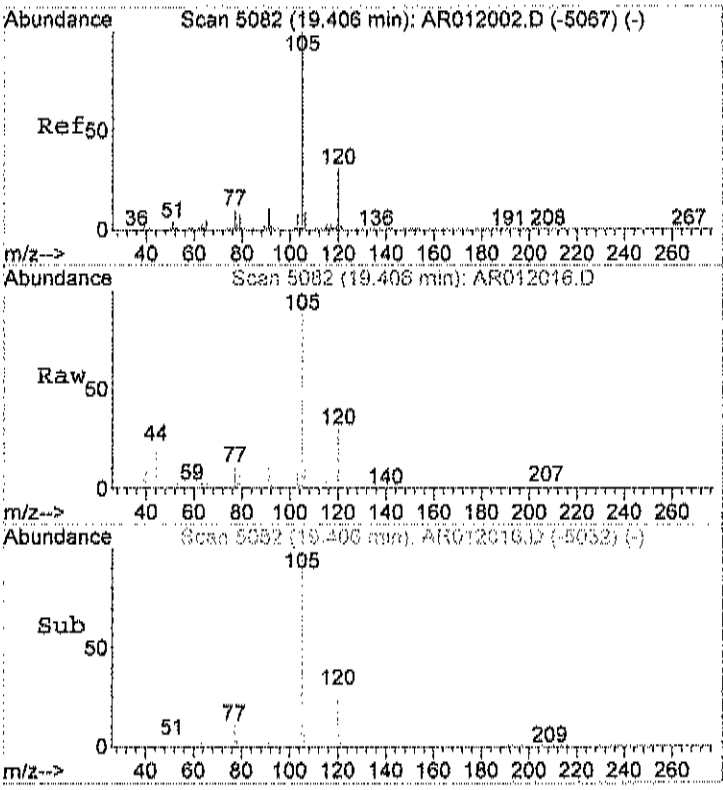


#63
o-xylene
Concen: 0.81 ppb
RT: 18.04 min Scan# 4627
Delta R.T. -0.01 min
Lab File: AR012016.D
Acq: 20 Jan 2020 10:06 pm

Tgt Ion: 91 Resp: 147701

Ion	Ratio	Lower	Upper
91	100		
106	47.7	26.2	66.2

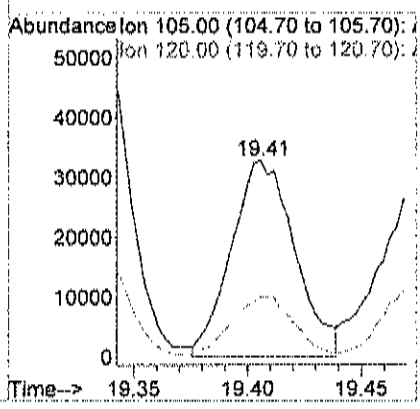


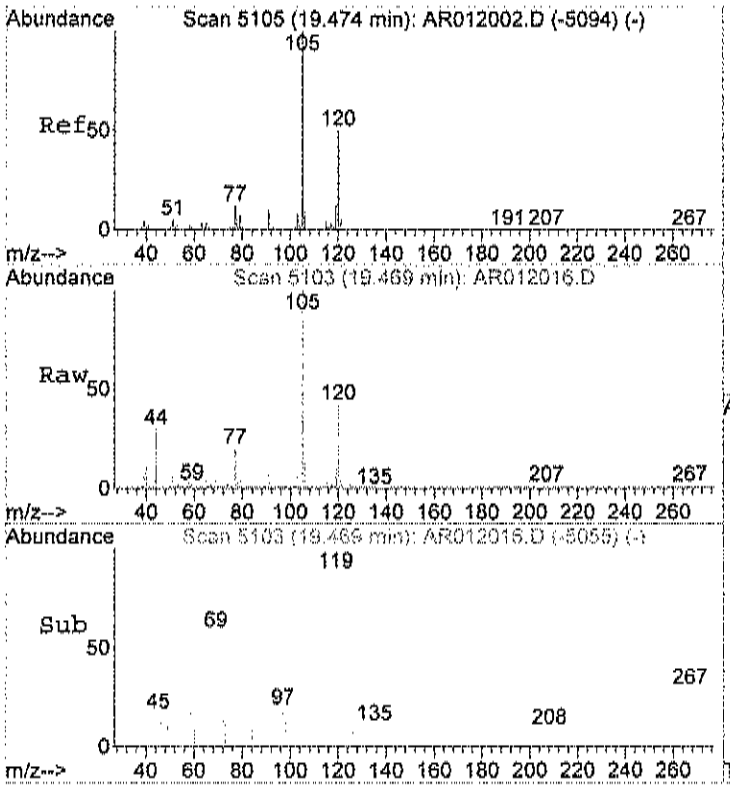


#69
4-ethyltoluene
Concen: 0.28 ppb m
RT: 19.41 min Scan# 5082
Delta R.T. 0.00 min
Lab File: AR012016.D
Acq: 20 Jan 2020 10:06 pm

Tgt Ion:105 Resp: 63745

Ion	Ratio	Lower	Upper
105	100		
120	30.5	10.1	50.1

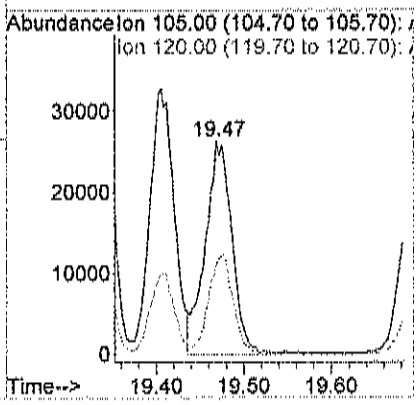


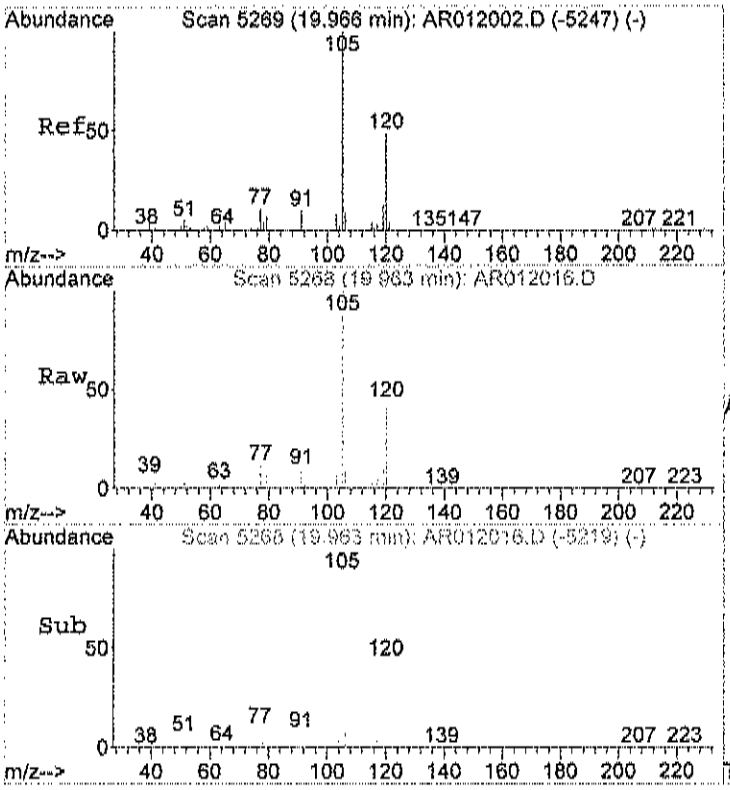


#70
1,3,5-trimethylbenzene
Concen: 0.27 ppb m
RT: 19.47 min Scan# 5103
Delta R.T. -0.01 min
Lab File: AR012016.D
Acq: 20 Jan 2020 10:06 pm

Tgt Ion:105 Resp: 56002

Ion	Ratio	Lower	Upper
105	100		
120	32.2	28.2	68.2

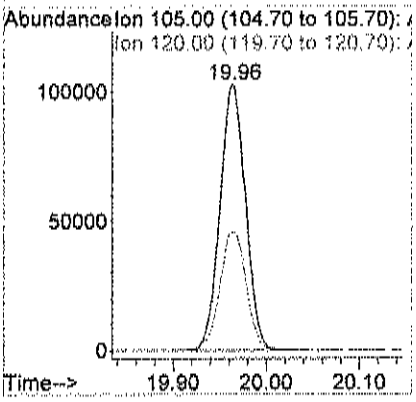


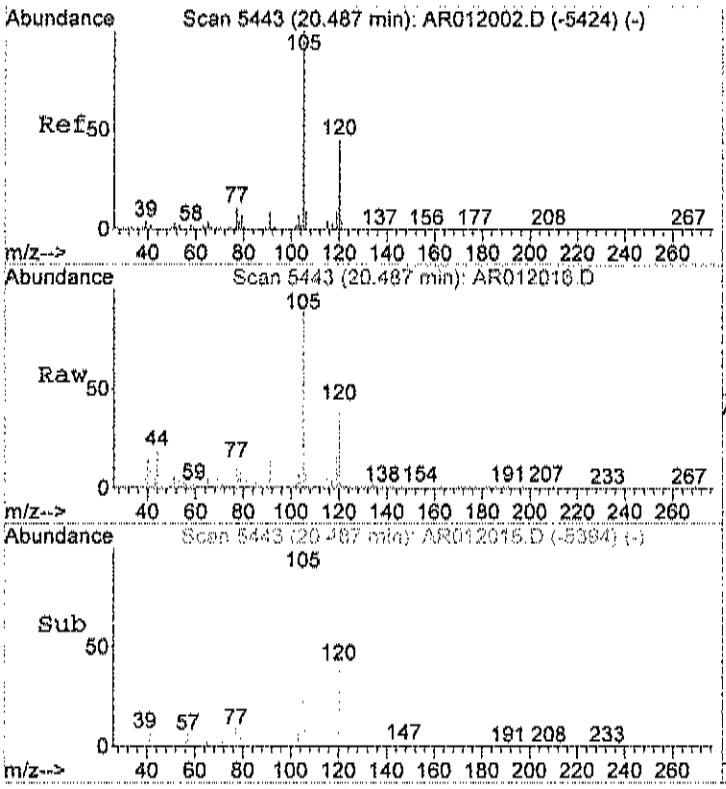


#71
1,2,4-trimethylbenzene
Concen: 0.97 ppb
RT: 19.96 min Scan# 5268
Delta R.T. -0.00 min
Lab File: AR012016.D
Acq: 20 Jan 2020 10:06 pm

Tgt Ion:105 Resp: 196561

Ion	Ratio	Lower	Upper
105	100		
120	45.8	24.9	64.9

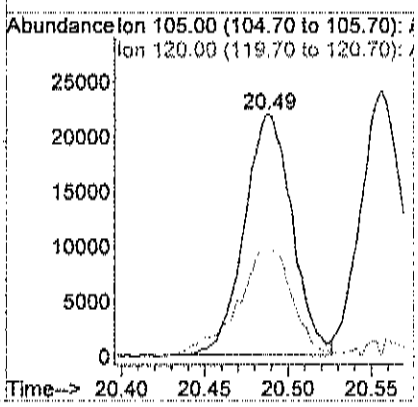




#75
1,2,3-trimethylbenzene
Concen: 0.21 ppb
RT: 20.49 min Scan# 5443
Delta R.T. -0.00 min
Lab File: AR012016.D
Acq: 20 Jan 2020 10:06 pm

Tgt Ion:105 Resp: 43642

Ion	Ratio	Lower	Upper
105	100		
120	53.0	32.0	53.4



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012028.D Vial: 28
Acq On : 21 Jan 2020 7:15 am Operator: RJP
Sample : C2001030-007A 10x Inst : MSD #1
Misc : A116_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 21 08:35:34 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 11:14:36 2020
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	9.95	128	35503	1.00 ppb	0.02
35) 1,4-difluorobenzene	12.23	114	166360	1.00 ppb	0.01
50) Chlorobenzene-d5	17.02	117	144069	1.00 ppb	0.00
System Monitoring Compounds					
65) Bromofluorobenzene	18.76	95	94512	0.98 ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98.00%		
Target Compounds					Qvalue
15) Acetone	6.14	58	40574	1.97 ppb	# 100
17) Isopropyl alcohol	6.25	45	68889	1.05 ppb	# 1
51) Toluene	14.98	92	29101	0.33 ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

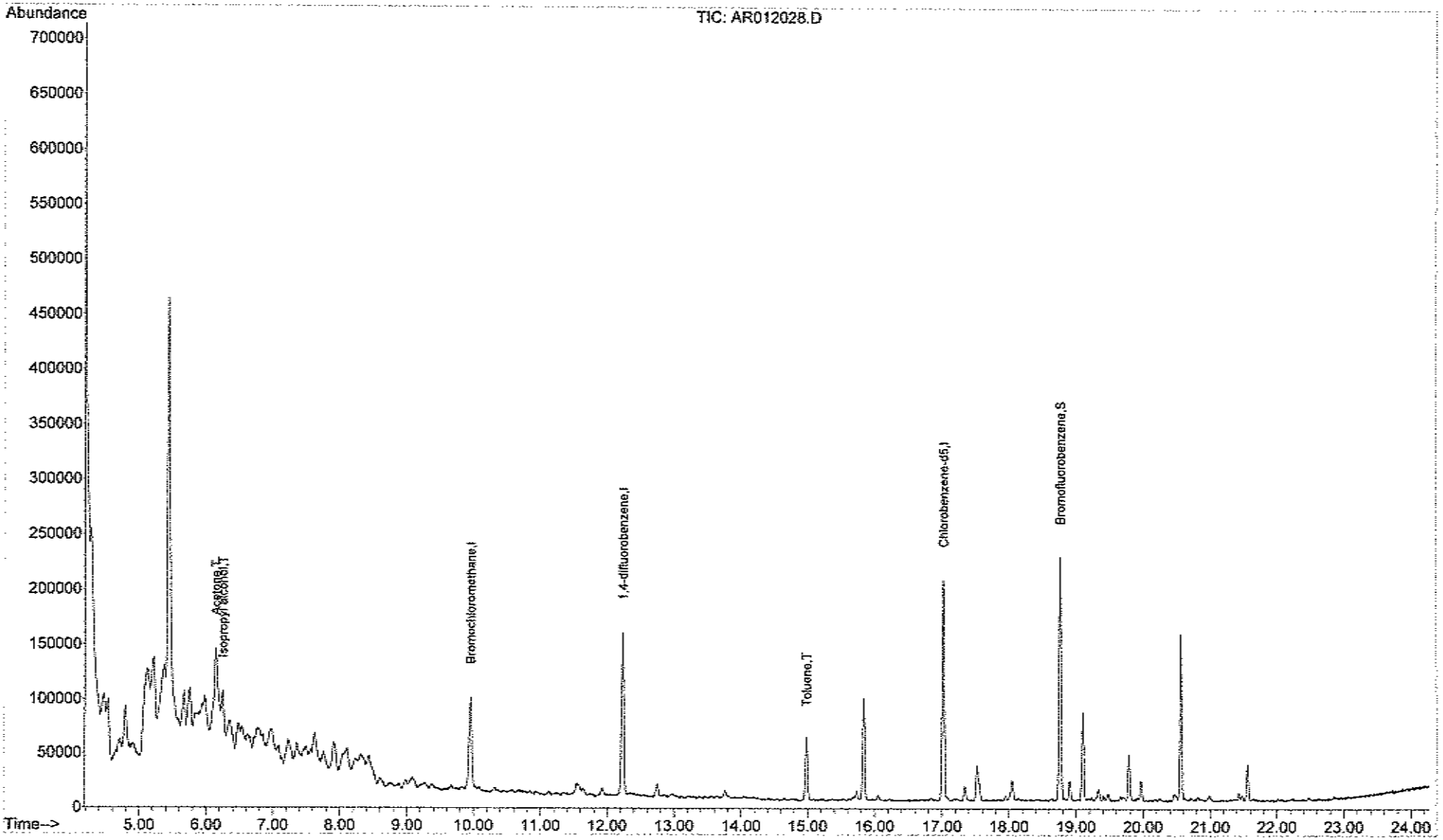
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012028.D
Acq On : 21 Jan 2020 7:15 am
Sample : C2001030-007A 10x
Misc : A116_1UG
MS Integration Params: RTEINT.P
Quant Time: Jan 23 12:24 2020

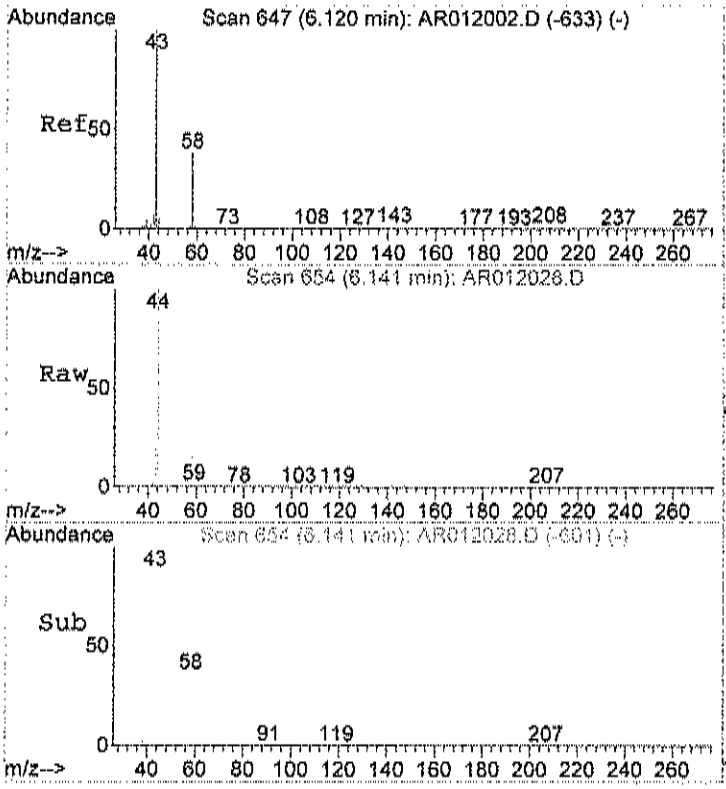
Vial: 28
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A116_1UG.RES

Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
Response via : Initial Calibration



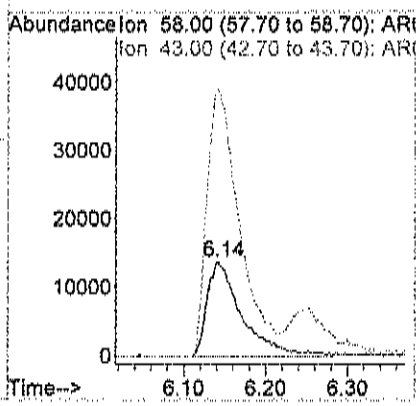
AR012028.D A116_1UG.M Wed Feb 05 10:10:08 2020 MSD1

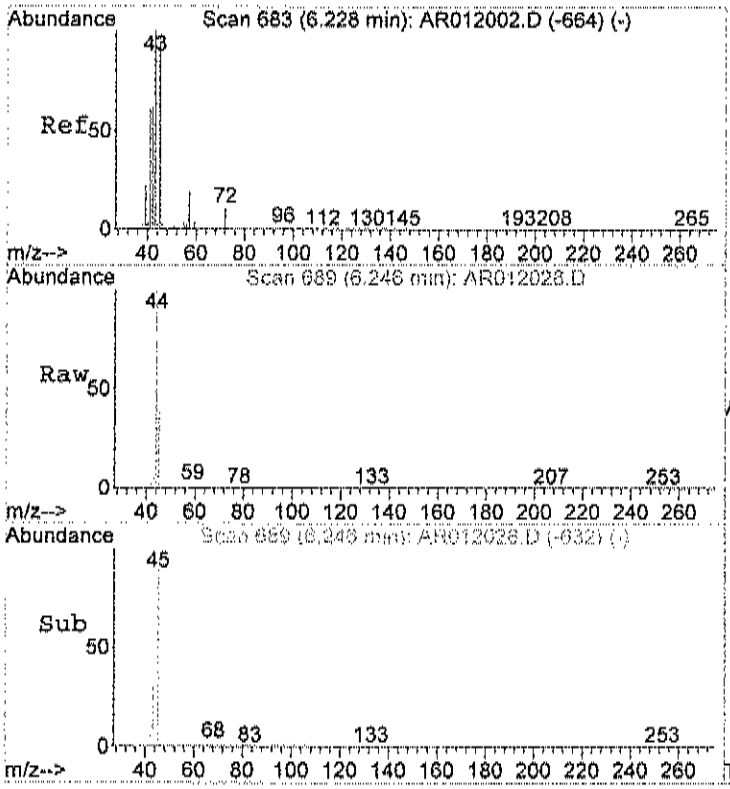


#15
Acetone
Concen: 1.97 ppb
RT: 6.14 min Scan# 654
Delta R.T. 0.01 min
Lab File: AR012028.D
Acq: 21 Jan 2020 7:15 am

Tgt Ion: 58 Resp: 40574

Ion	Ratio	Lower	Upper
58	100		
43	315.9	0.0	30.0#

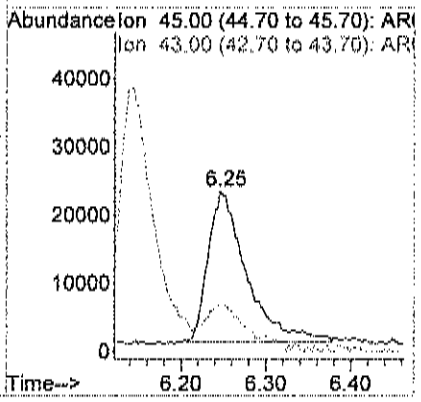


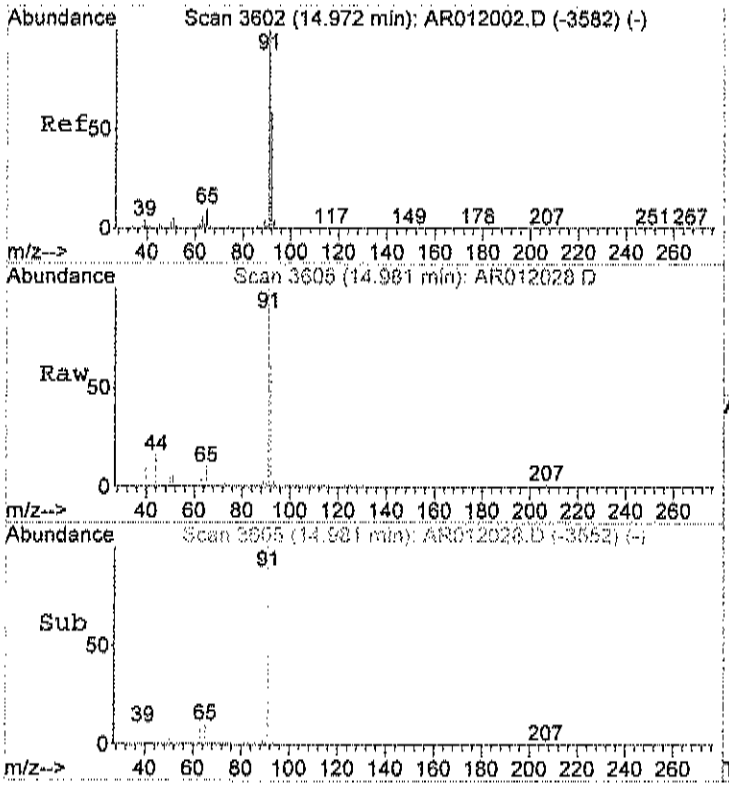


#17
Isopropyl alcohol
Concen: 1.05 ppb
RT: 6.25 min Scan# 689
Delta R.T. 0.02 min
Lab File: AR012028.D
Acq: 21 Jan 2020 7:15 am

Tgt Ion: 45 Resp: 68889

Ion	Ratio	Lower	Upper
45	100		
43	0.0	196.5	236.5#

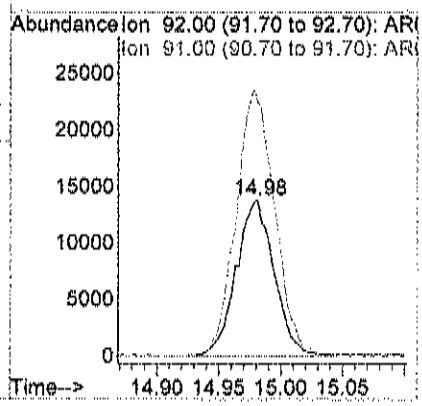




#51
Toluene
Concen: 0.33 ppb
RT: 14.98 min Scan# 3605
Delta R.T. 0.01 min
Lab File: AR012028.D
Acq: 21 Jan 2020 7:15 am

Tgt Ion: 92 Resp: 29101

Ion	Ratio	Lower	Upper
92	100		
91	176.1	154.5	194.5



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\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
Response via : Initial Calibration

Calibration Files
2.0 =AR011504.D 1.50 =AR011505.D 1.25 =AR011506.D
1.0 =AR011507.D 0.75 =AR011508.D 0.50 =AR011509.D

		Compound	2.0	1.50	1.25	1.0	0.75	0.50	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)	T	Propylene	0.679	0.729	0.680	0.738	0.726	0.687	0.683	7.43
3)	T	Freon 12	2.612	2.567	2.551	2.636	2.632	2.571	2.620	2.13
4)	T	Chloromethane	0.637	0.626	0.658	0.602	0.597	0.569	0.607	5.01
5)	T	Freon 114	2.017	2.004	2.003	1.967	1.868	1.784	1.900	6.06
6)	T	Vinyl Chloride	0.648	0.650	0.634	0.636	0.610	0.582	0.638	5.96
7)	T	Butane	1.350	1.348	1.547	1.289	1.109	1.308	1.305	13.05
8)	T	1,3-butadiene	0.758	0.742	0.785	0.833	0.660	0.823	0.765	7.00
9)	T	Bromomethane	1.086	1.068	1.044	1.088	1.110	1.043	1.064	2.72
10)	T	Chloroethane	0.563	0.552	0.549	0.573	0.578	0.552	0.564	2.04
11)	T	Ethanol	0.406	0.375	0.382	0.407	0.426	0.423	0.419	8.16
12)	T	Acrolein	0.433	0.435	0.404	0.453	0.412	0.426	0.421	5.69
13)	T	Vinyl Bromide	1.133	1.105	1.096	1.177	1.135	1.120	1.126	2.17
14)	T	Freon 11	2.895	2.830	2.742	2.905	2.825	2.737	2.770	4.31
15)	T	Acetone	0.570	0.555	0.557	0.587	0.587	0.619	0.581	3.65
16)	T	Pentane	1.183	1.174	1.141	1.204	1.214	1.298	1.207	3.94
17)	T	Isopropyl alcoh	1.889	1.782	1.769	1.848	1.904	1.730	1.843	4.84
18)	T	1,1-dichloroeth	1.196	1.162	1.123	1.194	1.142	1.135	1.138	4.37
19)	T	Freon 113	2.432	2.376	2.311	2.444	2.374	2.320	2.338	3.80
20)	t	t-Butyl alcohol	2.462	2.251	2.272	2.402	2.476	2.247	2.327	4.74
21)	T	Methylene chlor	1.031	1.019	0.996	1.057	1.048	1.052	1.033	2.19
22)	T	Allyl chloride	1.477	1.400	1.404	1.491	1.509	1.494	1.465	2.80
23)	T	Carbon disulfid	3.399	3.300	3.213	3.381	3.328	3.224	3.266	3.35
24)	T	trans-1,2-dichl	1.705	1.648	1.613	1.690	1.652	1.595	1.636	2.77
25)	T	methyl tert-but	3.360	3.291	3.189	3.382	3.273	3.183	3.243	3.02
26)	T	1,1-dichloroeth	2.094	2.053	2.005	2.105	2.049	1.999	2.042	2.00
27)	T	Vinyl acetate	2.584	2.543	2.449	2.595	2.590	2.405	2.514	2.92
28)	T	Methyl Ethyl Ke	0.576	0.550	0.540	0.554	0.587	0.549	0.555	5.31
29)	T	cis-1,2-dichlor	1.617	1.582	1.518	1.632	1.611	1.487	1.548	4.28
30)	T	Hexane	1.994	1.945	1.917	2.034	2.003	1.947	1.935	4.85
31)	T	Ethyl acetate	2.616	2.583	2.435	2.552	2.603	2.348	2.497	4.16
32)	T	Chloroform	2.520	2.459	2.380	2.529	2.446	2.402	2.419	3.88
33)	T	Tetrahydrofuran	1.159	1.101	1.129	1.140	1.160	1.114	1.139	2.73
34)	T	1,2-dichloroeth	1.544	1.514	1.466	1.548	1.522	1.490	1.496	3.04
35)	I	1,4-difluorobenzene	----------ISTD----------							
36)	T	1,1,1-trichloro	0.518	0.520	0.517	0.518	0.524	0.512	0.513	2.35
37)	T	Cyclohexane	0.376	0.381	0.379	0.390	0.391	0.385	0.383	1.52
38)	T	Carbon tetrachl	0.541	0.547	0.542	0.546	0.549	0.525	0.524	4.76
39)	T	Benzene	0.740	0.755	0.739	0.746	0.745	0.739	0.733	3.15
40)	T	Methyl methacry	0.328	0.323	0.317	0.306	0.335	0.300	0.322	4.26
41)	T	1,4-dioxane	0.155	0.149	0.150	0.151	0.159	0.145	0.151	2.86
42)	T	2,2,4-trimethyl	1.177	1.203	1.198	1.200	1.223	1.200	1.189	2.15
43)	T	Heptane	0.419	0.431	0.427	0.431	0.439	0.439	0.432	2.24
44)	T	Trichloroethene	0.338	0.338	0.340	0.341	0.337	0.327	0.312	12.22
45)	T	1,2-dichloropro	0.283	0.287	0.292	0.285	0.288	0.288	0.288	1.35
46)	T	Bromodichlorome	0.545	0.551	0.541	0.545	0.544	0.533	0.535	3.29
47)	T	cis-1,3-dichlor	0.461	0.459	0.457	0.455	0.466	0.438	0.446	4.95
48)	T	trans-1,3-dichl	0.395	0.394	0.387	0.378	0.395	0.371	0.378	5.70
49)	T	1,1,2-trichloro	0.314	0.315	0.316	0.310	0.318	0.305	0.308	3.30
50)	I	Chlorobenzene-d5	----------ISTD----------							
51)	T	Toluene	0.607	0.630	0.623	0.618	0.608	0.604	0.611	1.92

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
Response via : Initial Calibration

Calibration Files
2.0 =AR011504.D 1.50 =AR011505.D 1.25 =AR011506.D
1.0 =AR011507.D 0.75 =AR011508.D 0.50 =AR011509.D

		Compound	2.0	1.50	1.25	1.0	0.75	0.50	Avg	%RSD
52)	T	Methyl Isobutyl	0.608	0.610	0.613	0.618	0.637	0.614	0.620	1.80
53)	T	Dibromochlorome	0.652	0.658	0.654	0.647	0.627	0.625	0.632	4.07
54)	T	Methyl Butyl Ke	0.532	0.472	0.480	0.491	0.493	0.445	0.474	6.65
55)	T	1,2-dibromoetha	0.546	0.550	0.548	0.552	0.542	0.513	0.534	3.84
56)	T	Tetrachloroethy	0.401	0.410	0.411	0.402	0.400	0.399	0.397	3.76
57)	T	Chlorobenzene	0.810	0.832	0.817	0.822	0.811	0.783	0.799	3.75
58)	T	Ethylbenzene	1.358	1.377	1.373	1.363	1.357	1.332	1.341	2.81
59)	T	m&p-xylene	1.049	1.069	1.060	1.049	1.035	1.021	1.030	3.76
60)	T	Nonane	0.719	0.734	0.739	0.719	0.721	0.734	0.724	2.03
61)	T	Styrene	0.802	0.816	0.799	0.776	0.786	0.726	0.766	6.08
62)	T	Bromoform	0.618	0.622	0.614	0.603	0.598	0.560	0.587	6.00
63)	T	o-xylene	1.072	1.094	1.091	1.074	1.075	1.037	1.057	3.34
64)	T	Cumene	1.527	1.553	1.529	1.531	1.523	1.477	1.497	3.62
65)	S	Bromofluorobenz	0.720	0.716	0.702	0.700	0.702	0.629	0.668	6.64
66)	T	1,1,2,2-tetrach	0.783	0.783	0.766	0.750	0.773	0.728	0.759	2.72
67)	T	Propylbenzene	0.431	0.426	0.420	0.401	0.411	0.374	0.402	5.95
68)	T	2-Chlorotoluene	0.375	0.385	0.380	0.372	0.375	0.344	0.368	3.77
69)	T	4-ethyltoluene	1.437	1.437	1.373	1.326	1.391	1.218	1.338	6.44
70)	T	1,3,5-trimethyl	1.248	1.275	1.254	1.228	1.243	1.198	1.219	3.82
71)	T	1,2,4-trimethyl	1.232	1.219	1.205	1.204	1.213	1.128	1.181	4.11
72)	T	1,3-dichloroben	0.754	0.645	0.606	0.590	0.719	0.507	0.633	12.35
73)	T	benzyl chloride	0.813	0.592	0.560	0.582	0.682	0.487	0.617	16.45
74)	T	1,4-dichloroben	0.722	0.571	0.517	0.506	0.664	0.419	0.567	16.66
75)	T	1,2,3-trimethyl	1.265	1.254	1.240	1.235	1.249	1.180	1.219	3.48
76)	T	1,2-dichloroben	0.749	0.645	0.636	0.640	0.717	0.586	0.656	8.16
77)	T	1,2,4-trichloro	0.310	0.217	0.209	0.223	0.216	0.178	0.215	19.60
78)	T	Naphthalene	0.896	0.662	0.631	0.647	0.618	0.580	0.652	15.92
79)	T	Hexachloro-1,3-	0.613	0.587	0.582	0.567	0.559	0.530	0.555	7.60

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011504.D Vial: 3
Acq On : 16 Jan 2020 10:26 pm Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : A114_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 10:52:44 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 10:50:25 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.93	128	51232	1.00	ppb		0.00
35) 1,4-difluorobenzene	12.22	114	260767	1.00	ppb		0.00
50) Chlorobenzene-d5	17.02	117	228816	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.76	95	164775	1.03	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery	=	103.00%		
Target Compounds							Qvalue
2) Propylene	4.24	41	69558m	2.01	ppb		
3) Freon 12	4.29	85	267597	1.99	ppb		98
4) Chloromethane	4.49	50	65306	2.13	ppb		99
5) Freon 114	4.49	85	206633	2.06	ppb		90
6) Vinyl Chloride	4.69	62	66409	2.05	ppb		96
7) Butane	4.80	43	138374m	1.84	ppb		
8) 1,3-butadiene	4.80	39	77690m	1.91	ppb		
9) Bromomethane	5.15	94	111313	2.01	ppb		97
10) Chloroethane	5.33	64	57658	1.98	ppb		99
11) Ethanol	5.43	45	41587	2.03	ppb		92
12) Acrolein	6.01	56	44381	1.92	ppb		96
13) Vinyl Bromide	5.67	106	116060	1.94	ppb		98
14) Freon 11	5.95	101	296643	2.01	ppb		99
15) Acetone	6.12	58	58358	1.95	ppb	#	100
16) Pentane	6.23	42	121221	1.98	ppb		93
17) Isopropyl alcohol	6.22	45	193591	2.06	ppb		89
18) 1,1-dichloroethene	6.72	96	122505	2.02	ppb		98
19) Freon 113	6.92	101	249191	2.00	ppb		97
20) t-Butyl alcohol	6.93	59	252235	2.06	ppb	#	86
21) Methylene chloride	7.18	84	105621	1.96	ppb		95
22) Allyl chloride	7.16	41	151375	1.99	ppb		98
23) Carbon disulfide	7.34	76	348224	2.02	ppb		99
24) trans-1,2-dichloroethene	8.12	61	174654	2.03	ppb		99
25) methyl tert-butyl ether	8.14	73	344284	2.00	ppb		88
26) 1,1-dichloroethane	8.55	63	214553	2.00	ppb		98
27) Vinyl acetate	8.53	43	264812	2.01	ppb		100
28) Methyl Ethyl Ketone	9.03	72	58971	2.09	ppb	#	100
29) cis-1,2-dichloroethene	9.49	61	165645	1.99	ppb		98
30) Hexane	9.09	57	204337	1.97	ppb		88
31) Ethyl acetate	9.63	43	268074	2.07	ppb		99
32) Chloroform	10.10	83	258217	2.01	ppb		98
33) Tetrahydrofuran	10.26	42	118759	2.05	ppb		97
34) 1,2-dichloroethane	11.21	62	158244	2.01	ppb		99
36) 1,1,1-trichloroethane	10.93	97	270215	2.00	ppb		97
37) Cyclohexane	11.64	56	196123	1.95	ppb	#	81
38) Carbon tetrachloride	11.57	117	282079	1.98	ppb		99
39) Benzene	11.54	78	385789	1.98	ppb		98
40) Methyl methacrylate	13.09	41	171161	2.14	ppb		99
41) 1,4-dioxane	13.11	88	80725	2.05	ppb		99
42) 2,2,4-trimethylpentane	12.39	57	614027	1.96	ppb		92
43) Heptane	12.74	43	218703	1.94	ppb		99
44) Trichloroethene	12.87	130	176310	1.98	ppb		99
45) 1,2-dichloropropane	12.97	63	147854	1.99	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011504.D
Acq On : 16 Jan 2020 10:26 pm
Sample : A1UG_2.0
Misc : A114_1UG
MS Integration Params: RTEINT.P
Quant Time: Jan 17 10:52:44 2020

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 10:50:25 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D
DataAcq Meth : 1UG_ENT

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46) Bromodichloromethane	13.31	83	284044	2.00	ppb		99
47) cis-1,3-dichloropropene	14.12	75	240193	2.02	ppb		99
48) trans-1,3-dichloropropene	14.89	75	206259	2.09	ppb		95
49) 1,1,2-trichloroethane	15.22	97	163573	2.02	ppb		100
51) Toluene	14.97	92	277582	1.96	ppb		98
52) Methyl Isobutyl Ketone	14.03	43	278126	1.96	ppb		97
53) Dibromochloromethane	15.95	129	298251	2.01	ppb		100
54) Methyl Butyl Ketone	15.40	43	243289	2.16	ppb		92
55) 1,2-dibromoethane	16.22	107	249666	1.97	ppb		97
56) Tetrachloroethylene	16.04	164	183738	1.99	ppb		98
57) Chlorobenzene	17.07	112	370704	1.97	ppb		100
58) Ethylbenzene	17.34	91	621416	1.99	ppb		99
59) m&p-xylene	17.55	91	960539	3.99	ppb		98
60) Nonane	17.95	43	329175	2.00	ppb		97
61) Styrene	18.01	104	367166	2.06	ppb		95
62) Bromoform	18.14	173	282790	2.05	ppb		100
63) o-xylene	18.05	91	490542	1.99	ppb		97
64) Cumene	18.64	105	698860	1.99	ppb		98
66) 1,1,2,2-tetrachloroethane	18.52	83	358530	2.08	ppb		99
67) Propylbenzene	19.23	120	197189	2.14	ppb		87
68) 2-Chlorotoluene	19.27	126	171702	2.01	ppb	#	71
69) 4-ethyltoluene	19.41	105	657821	2.16	ppb		100
70) 1,3,5-trimethylbenzene	19.48	105	571154	2.03	ppb		99
71) 1,2,4-trimethylbenzene	19.97	105	563993	2.04	ppb		98
72) 1,3-dichlorobenzene	20.29	146	345258	2.55	ppb		99
73) benzyl chloride	20.37	91	372222m	2.79	ppb		
74) 1,4-dichlorobenzene	20.44	146	330199	2.85	ppb		99
75) 1,2,3-trimethylbenzene	20.49	105	578786	2.04	ppb		99
76) 1,2-dichlorobenzene	20.81	146	342795	2.34	ppb		100
77) 1,2,4-trichlorobenzene	23.06	180	141840m	2.78	ppb		
78) Naphthalene	23.27	128	409998	2.76	ppb		98
79) Hexachloro-1,3-butadiene	23.40	225	280427	2.16	ppb		91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

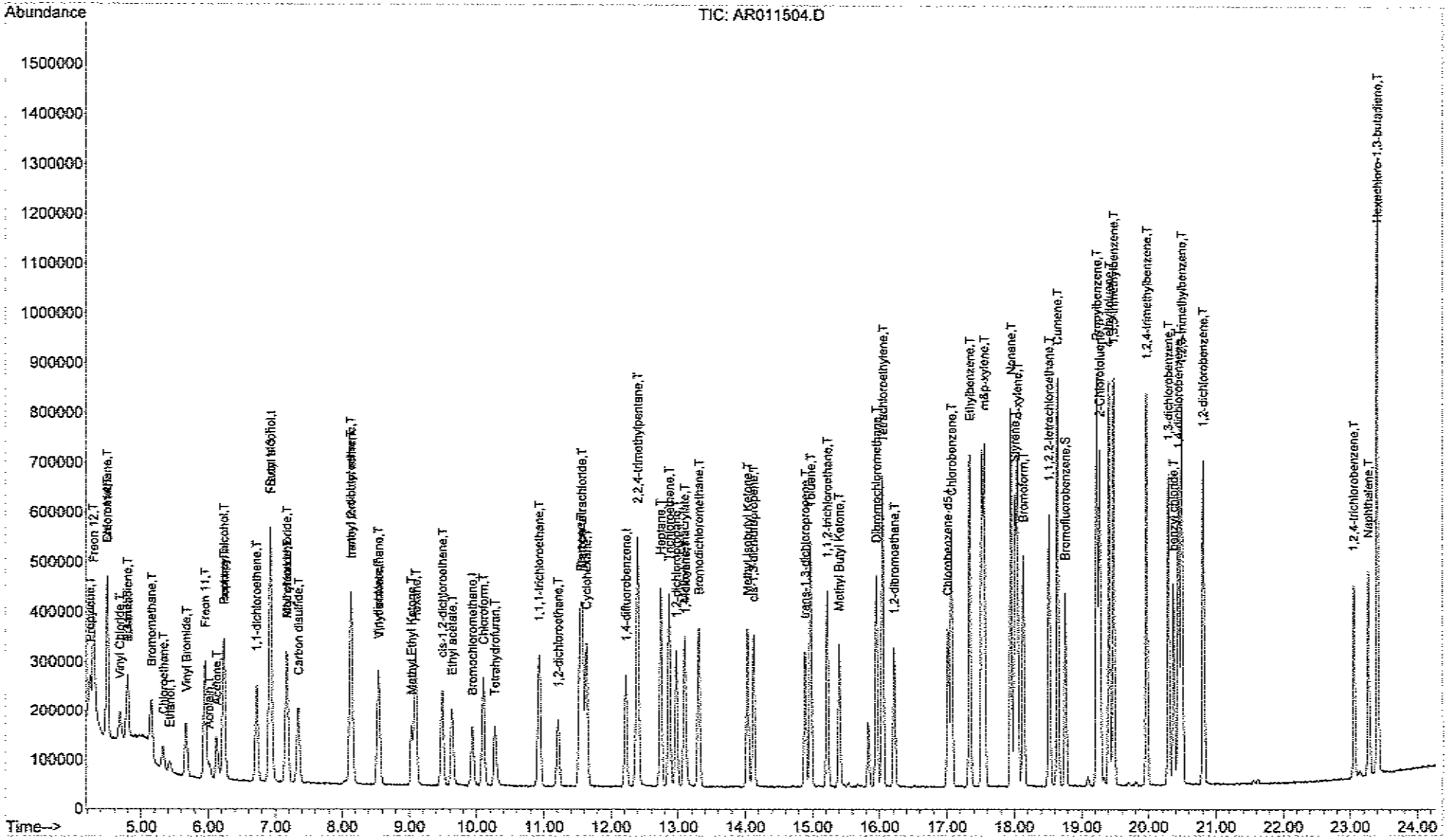
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011504.D
Acq On : 16 Jan 2020 10:26 pm
Sample : A1UG_2.0
Misc : A114_1UG
MS Integration Params: RTEINT.P
Quant Time: Jan 17 10:58 2020

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A116_1UG.RES

Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D



AR011504.D A116_1UG.M Wed Feb 05 10:12:10 2020 MSD1 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011505.D Vial: 4
Acq On : 16 Jan 2020 11:15 pm Operator: RJP
Sample : A1UG_1.50 Inst : MSD #1
Misc : A114_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 10:52:26 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 10:50:25 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Bromochloromethane	9.93	128	52761	1.00 ppb		0.00
35) 1,4-difluorobenzene	12.22	114	259456	1.00 ppb		0.00
50) Chlorobenzene-d5	17.02	117	225970	1.00 ppb		0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.76	95	161749	1.02 ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 102.00%			
Target Compounds						Qvalue
2) Propylene	4.24	41	57657m	1.61 ppb		
3) Freon 12	4.29	85	203176	1.47 ppb		97
4) Chloromethane	4.49	50	49551	1.57 ppb		97
5) Freon 114	4.49	85	158616	1.54 ppb		90
6) Vinyl Chloride	4.69	62	51429	1.54 ppb		97
7) Butane	4.80	43	106650m	1.38 ppb		
8) 1,3-butadiene	4.79	39	58758m	1.40 ppb		
9) Bromomethane	5.15	94	84523	1.48 ppb		97
10) Chloroethane	5.32	64	43667	1.46 ppb		99
11) Ethanol	5.44	45	29682	1.41 ppb		95
12) Acrolein	6.02	56	34435	1.45 ppb		99
13) Vinyl Bromide	5.67	106	87440	1.42 ppb		100
14) Freon 11	5.95	101	223952	1.47 ppb		99
15) Acetone	6.13	58	43948	1.43 ppb	#	100
16) Pentane	6.23	42	92904	1.47 ppb		92
17) Isopropyl alcohol	6.23	45	141030	1.46 ppb		94
18) 1,1-dichloroethene	6.72	96	91943	1.47 ppb		99
19) Freon 113	6.92	101	188004	1.47 ppb		97
20) t-Butyl alcohol	6.93	59	178145	1.41 ppb	#	87
21) Methylene chloride	7.18	84	80623	1.46 ppb		95
22) Allyl chloride	7.16	41	110820	1.42 ppb		100
23) Carbon disulfide	7.34	76	261144	1.47 ppb		99
24) trans-1,2-dichloroethene	8.12	61	130391	1.47 ppb		100
25) methyl tert-butyl ether	8.14	73	260419	1.47 ppb		89
26) 1,1-dichloroethane	8.55	63	162443	1.47 ppb		98
27) Vinyl acetate	8.53	43	201242	1.48 ppb		100
28) Methyl Ethyl Ketone	9.03	72	43490	1.50 ppb	#	100
29) cis-1,2-dichloroethene	9.49	61	125220	1.46 ppb		99
30) Hexane	9.09	57	153915	1.44 ppb		88
31) Ethyl acetate	9.63	43	204399	1.53 ppb		99
32) Chloroform	10.10	83	194613	1.47 ppb		99
33) Tetrahydrofuran	10.27	42	87149	1.46 ppb		96
34) 1,2-dichloroethane	11.21	62	119791	1.48 ppb		100
36) 1,1,1-trichloroethane	10.93	97	202314	1.50 ppb		98
37) Cyclohexane	11.63	56	148139	1.48 ppb	#	82
38) Carbon tetrachloride	11.57	117	212804	1.50 ppb		99
39) Benzene	11.53	78	293852	1.52 ppb		100
40) Methyl methacrylate	13.09	41	125729	1.58 ppb		97
41) 1,4-dioxane	13.11	88	57994	1.48 ppb		98
42) 2,2,4-trimethylpentane	12.39	57	468054	1.50 ppb		93
43) Heptane	12.74	43	167683	1.50 ppb		98
44) Trichloroethene	12.87	130	131454	1.49 ppb		100
45) 1,2-dichloropropane	12.97	63	111846	1.52 ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011505.D Vial: 4
Acq On : 16 Jan 2020 11:15 pm Operator: RJP
Sample : A1UG_1.50 Inst : MSD #1
Misc : A114_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 10:52:26 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 10:50:25 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D
DataAcq Meth : 1UG_ENT

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
46) Bromodichloromethane	13.31	83	214444	1.51 ppb		99
47) cis-1,3-dichloropropene	14.12	75	178473	1.51 ppb		98
48) trans-1,3-dichloropropene	14.89	75	153381	1.56 ppb		93
49) 1,1,2-trichloroethane	15.22	97	122654	1.52 ppb		100
51) Toluene	14.97	92	213654	1.53 ppb		95
52) Methyl Isobutyl Ketone	14.03	43	206731	1.47 ppb		97
53) Dibromochloromethane	15.95	129	222874	1.52 ppb		100
54) Methyl Butyl Ketone	15.40	43	159948	1.44 ppb		89
55) 1,2-dibromoethane	16.22	107	186484	1.49 ppb		98
56) Tetrachloroethylene	16.04	164	138913	1.52 ppb		99
57) Chlorobenzene	17.07	112	281847	1.51 ppb		99
58) Ethylbenzene	17.34	91	466898	1.51 ppb		99
59) m&p-xylene	17.56	91	724510	3.05 ppb		99
60) Nonane	17.95	43	248638	1.53 ppb		97
61) Styrene	18.02	104	276460	1.57 ppb		95
62) Bromoform	18.14	173	210705	1.54 ppb		99
63) o-xylene	18.05	91	370716	1.52 ppb		98
64) Cumene	18.64	105	526459	1.52 ppb		98
66) 1,1,2,2-tetrachloroethane	18.52	83	265383	1.56 ppb		100
67) Propylbenzene	19.23	120	144423	1.59 ppb		91
68) 2-Chlorotoluene	19.27	126	130494	1.55 ppb	#	74
69) 4-ethyltoluene	19.41	105	486921	1.62 ppb		99
70) 1,3,5-trimethylbenzene	19.48	105	432160	1.55 ppb		99
71) 1,2,4-trimethylbenzene	19.97	105	413191	1.52 ppb		98
72) 1,3-dichlorobenzene	20.29	146	218656	1.64 ppb		99
73) benzyl chloride	20.37	91	200658	1.52 ppb		99
74) 1,4-dichlorobenzene	20.44	146	193703	1.69 ppb		99
75) 1,2,3-trimethylbenzene	20.49	105	424884	1.52 ppb		100
76) 1,2-dichlorobenzene	20.81	146	218477	1.51 ppb		100
77) 1,2,4-trichlorobenzene	23.05	180	73492	1.46 ppb		98
78) Naphthalene	23.27	128	224513	1.53 ppb		98
79) Hexachloro-1,3-butadiene	23.40	225	199038	1.55 ppb		91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

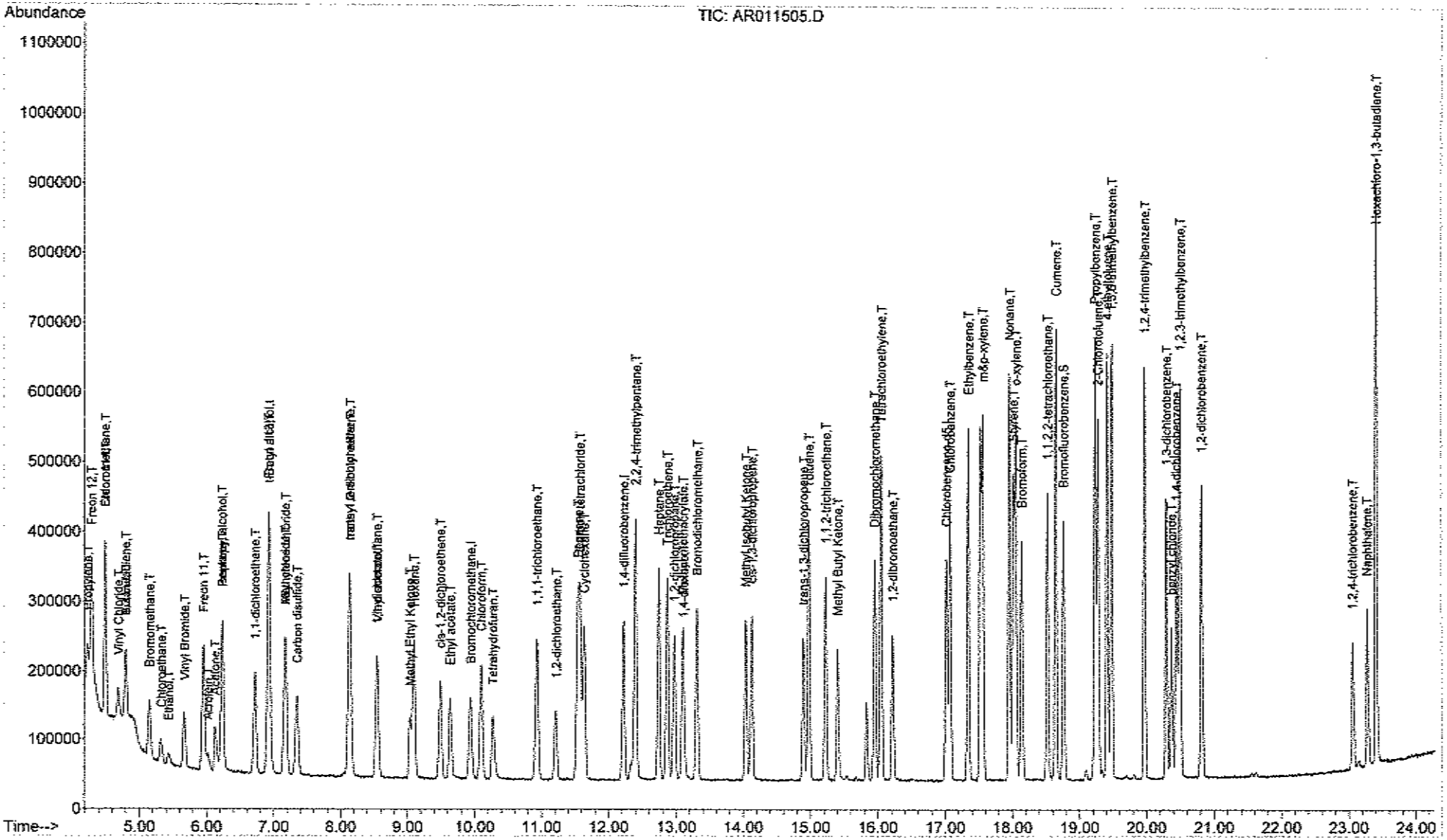
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011505.D
Acq On : 16 Jan 2020 11:15 pm
Sample : A1UG_1.50
Misc : A114_1UG
MS Integration Params: RTEINT.P
Quant Time: Jan 17 10:59 2020

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A116_1UG.RES

Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011506.D Vial: 5
Acq On : 17 Jan 2020 12:02 am Operator: RJP
Sample : A1UG_1.25 Inst : MSD #1
Misc : A114_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 10:52:06 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 10:50:25 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Bromochloromethane	9.94	128	53840	1.00 ppb		0.01
35) 1,4-difluorobenzene	12.22	114	259798	1.00 ppb		0.00
50) Chlorobenzene-d5	17.02	117	224544	1.00 ppb		0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.76	95	157533	1.00 ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%			
Target Compounds						Qvalue
2) Propylene	4.24	41	45789m	1.26 ppb		
3) Freon 12	4.30	85	171686	1.22 ppb		98
4) Chloromethane	4.50	50	44273	1.37 ppb		98
5) Freon 114	4.50	85	134808	1.28 ppb		89
6) Vinyl Chloride	4.70	62	42694	1.25 ppb		98
7) Butane	4.80	43	104112m	1.32 ppb		
8) 1,3-butadiene	4.80	39	52840m	1.23 ppb		
9) Bromomethane	5.16	94	70290	1.21 ppb		98
10) Chloroethane	5.34	64	36932	1.21 ppb		99
11) Ethanol	5.44	45	25707	1.20 ppb		90
12) Acrolein	6.03	56	27180	1.12 ppb		98
13) Vinyl Bromide	5.68	106	73791	1.17 ppb		99
14) Freon 11	5.96	101	184532	1.19 ppb		98
15) Acetone	6.14	58	37505	1.19 ppb	#	100
16) Pentane	6.24	42	76760	1.19 ppb		92
17) Isopropyl alcohol	6.23	45	119043	1.20 ppb		91
18) 1,1-dichloroethene	6.73	96	75557	1.18 ppb		99
19) Freon 113	6.93	101	155531	1.19 ppb		97
20) t-Butyl alcohol	6.94	59	152915	1.19 ppb	#	87
21) Methylene chloride	7.19	84	67038	1.19 ppb		95
22) Allyl chloride	7.17	41	94505	1.19 ppb		99
23) Carbon disulfide	7.35	76	216237	1.20 ppb		100
24) trans-1,2-dichloroethene	8.13	61	108536	1.20 ppb		100
25) methyl tert-butyl ether	8.15	73	214639	1.19 ppb		89
26) 1,1-dichloroethane	8.55	63	134930	1.20 ppb		99
27) Vinyl acetate	8.53	43	164805	1.19 ppb		100
28) Methyl Ethyl Ketone	9.04	72	36327	1.23 ppb	#	100
29) cis-1,2-dichloroethene	9.49	61	102135	1.17 ppb		99
30) Hexane	9.09	57	129021	1.19 ppb		89
31) Ethyl acetate	9.64	43	163889	1.20 ppb		99
32) Chloroform	10.10	83	160196	1.19 ppb		99
33) Tetrahydrofuran	10.27	42	75951	1.25 ppb		97
34) 1,2-dichloroethane	11.22	62	98690	1.19 ppb		99
36) 1,1,1-trichloroethane	10.93	97	167955	1.25 ppb		98
37) Cyclohexane	11.64	56	122953	1.23 ppb	#	82
38) Carbon tetrachloride	11.58	117	176054	1.24 ppb		99
39) Benzene	11.54	78	240006	1.24 ppb		100
40) Methyl methacrylate	13.09	41	103043	1.29 ppb		97
41) 1,4-dioxane	13.12	88	48567	1.24 ppb		99
42) 2,2,4-trimethylpentane	12.39	57	389147	1.25 ppb		92
43) Heptane	12.74	43	138759	1.24 ppb		98
44) Trichloroethene	12.87	130	110407	1.25 ppb		99
45) 1,2-dichloropropane	12.97	63	94742	1.28 ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011506.D
Acq On : 17 Jan 2020 12:02 am
Sample : A1UG_1.25
Misc : A114_1UG
MS Integration Params: RTEINT.P
Quant Time: Jan 17 10:52:06 2020

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 10:50:25 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D
DataAcq Meth : 1UG_ENT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	Bromodichloromethane	13.31	83	175788	1.24	ppb		100
47)	cis-1,3-dichloropropene	14.12	75	148544	1.26	ppb		99
48)	trans-1,3-dichloropropene	14.89	75	125818	1.28	ppb		93
49)	1,1,2-trichloroethane	15.22	97	102568	1.27	ppb		100
51)	Toluene	14.98	92	174939	1.26	ppb		96
52)	Methyl Isobutyl Ketone	14.04	43	172042	1.23	ppb		96
53)	Dibromochloromethane	15.95	129	183563	1.26	ppb		100
54)	Methyl Butyl Ketone	15.40	43	134788	1.22	ppb		91
55)	1,2-dibromoethane	16.22	107	153942	1.24	ppb		98
56)	Tetrachloroethylene	16.05	164	115428	1.28	ppb		99
57)	Chlorobenzene	17.07	112	229400	1.24	ppb		99
58)	Ethylbenzene	17.34	91	385319	1.26	ppb		99
59)	m&p-xylene	17.56	91	594914	2.52	ppb		98
60)	Nonane	17.95	43	207491	1.28	ppb		97
61)	Styrene	18.02	104	224146	1.28	ppb		97
62)	Bromoform	18.14	173	172356	1.27	ppb		100
63)	o-xylene	18.05	91	306343	1.27	ppb		98
64)	Cumene	18.64	105	429252	1.25	ppb		98
66)	1,1,2,2-tetrachloroethane	18.52	83	214948	1.27	ppb		99
67)	Propylbenzene	19.23	120	117776	1.30	ppb		89
68)	2-Chlorotoluene	19.27	126	106629	1.27	ppb	#	77
69)	4-ethyltoluene	19.41	105	385319	1.29	ppb		99
70)	1,3,5-trimethylbenzene	19.47	105	351980	1.27	ppb		99
71)	1,2,4-trimethylbenzene	19.97	105	338195	1.25	ppb		99
72)	1,3-dichlorobenzene	20.30	146	170089	1.28	ppb		99
73)	benzyl chloride	20.37	91	157221	1.20	ppb		100
74)	1,4-dichlorobenzene	20.44	146	145124	1.28	ppb		99
75)	1,2,3-trimethylbenzene	20.49	105	347920	1.25	ppb		98
76)	1,2-dichlorobenzene	20.81	146	178540	1.24	ppb		99
77)	1,2,4-trichlorobenzene	23.06	180	58781	1.17	ppb		99
78)	Naphthalene	23.28	128	177060	1.22	ppb		98
79)	Hexachloro-1,3-butadiene	23.40	225	163286	1.28	ppb		92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

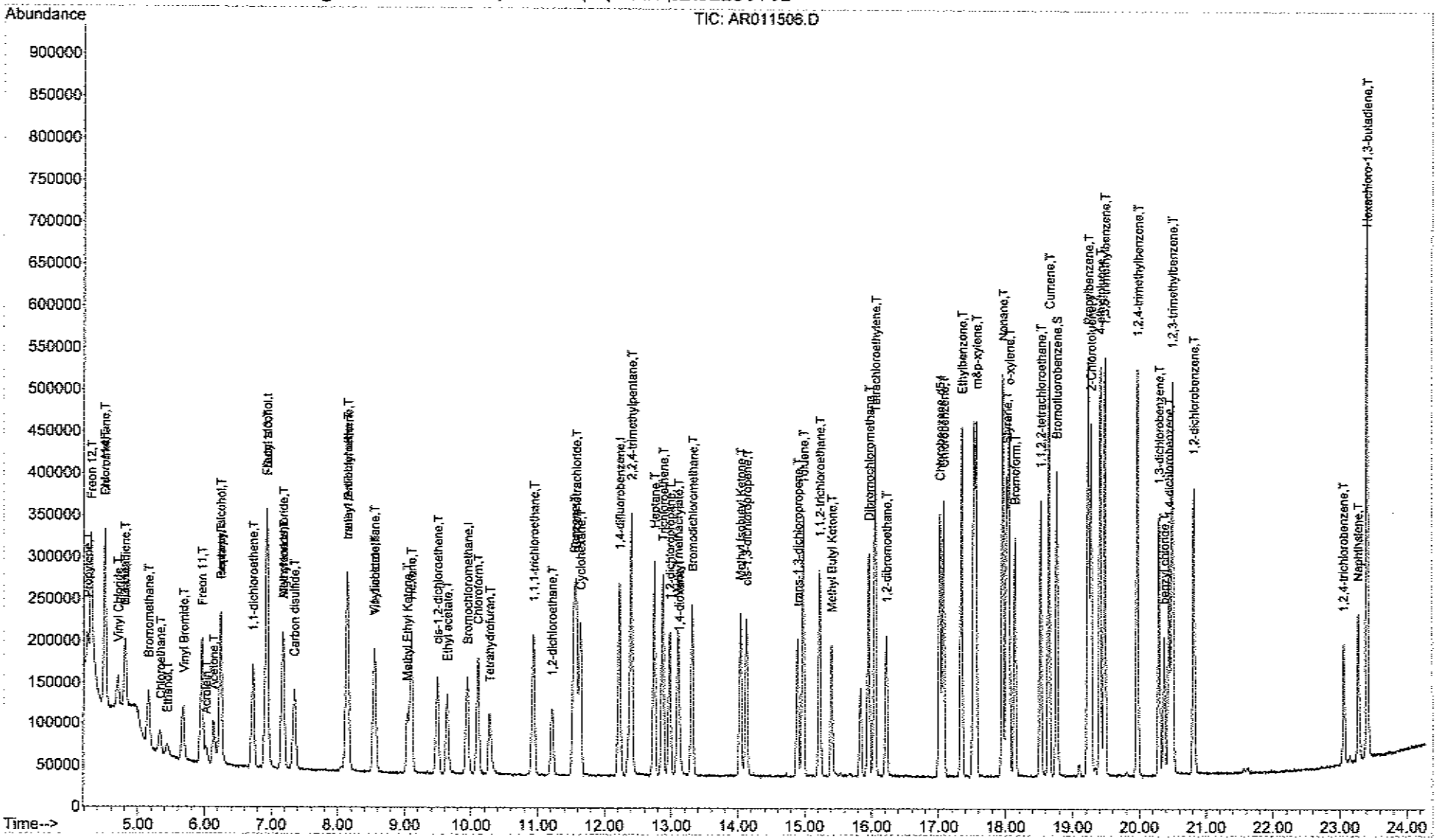
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011506.D
Acq On : 17 Jan 2020 12:02 am
Sample : A1UG_1.25
Misc : A114_1UG
MS Integration Params: RTEINT.P
Quant Time: Jan 17 10:59 2020

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A116_1UG.RES

Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D



AR011506.D A116_1UG.M Wed Feb 05 10:12:18 2020 MSD1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011507.D Vial: 6
Acq On : 17 Jan 2020 12:49 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : A114_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 10:51:41 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 10:50:25 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.93	128	50771	1.00	ppb		0.00
35) 1,4-difluorobenzene	12.22	114	256527	1.00	ppb		0.00
50) Chlorobenzene-d5	17.01	117	223162	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.76	95	156195	1.00	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery	= 100.00%			
Target Compounds							Qvalue
2) Propylene	4.23	41	37466m	1.09	ppb		
3) Freon 12	4.28	85	133844	1.01	ppb		98
4) Chloromethane	4.48	50	30568	1.01	ppb		99
5) Freon 114	4.49	85	99870	1.01	ppb		89
6) Vinyl Chloride	4.69	62	32301	1.01	ppb		95
7) Butane	4.80	43	65454m	0.88	ppb		
8) 1,3-butadiene	4.79	39	42314m	1.05	ppb		
9) Bromomethane	5.15	94	55254	1.01	ppb		99
10) Chloroethane	5.32	64	29069	1.01	ppb		99
11) Ethanol	5.45	45	20651	1.02	ppb		93
12) Acrolein	6.02	56	22999	1.01	ppb		94
13) Vinyl Bromide	5.67	106	59745	1.01	ppb		96
14) Freon 11	5.95	101	147475	1.01	ppb		99
15) Acetone	6.13	58	29802	1.01	ppb	#	100
16) Pentane	6.23	42	61151	1.01	ppb		92
17) Isopropyl alcohol	6.23	45	93810	1.01	ppb		93
18) 1,1-dichloroethene	6.72	96	60634	1.01	ppb		98
19) Freon 113	6.92	101	124076	1.01	ppb		97
20) t-Butyl alcohol	6.94	59	121940	1.00	ppb		89
21) Methylene chloride	7.18	84	53646	1.01	ppb		95
22) Allyl chloride	7.16	41	75701	1.01	ppb		100
23) Carbon disulfide	7.34	76	171633	1.01	ppb		100
24) trans-1,2-dichloroethene	8.12	61	85788	1.01	ppb		99
25) methyl tert-butyl ether	8.14	73	171691	1.01	ppb		89
26) 1,1-dichloroethane	8.55	63	106895	1.01	ppb		100
27) Vinyl acetate	8.53	43	131743	1.01	ppb		99
28) Methyl Ethyl Ketone	9.03	72	28110	1.01	ppb	#	100
29) cis-1,2-dichloroethene	9.48	61	82871	1.01	ppb		98
30) Hexane	9.09	57	103290	1.01	ppb		87
31) Ethyl acetate	9.63	43	129547	1.01	ppb		99
32) Chloroform	10.10	83	128406	1.01	ppb		97
33) Tetrahydrofuran	10.27	42	57879	1.01	ppb		96
34) 1,2-dichloroethane	11.21	62	78614	1.01	ppb		100
36) 1,1,1-trichloroethane	10.93	97	132996	1.00	ppb		100
37) Cyclohexane	11.64	56	100074	1.01	ppb	#	81
38) Carbon tetrachloride	11.57	117	140004	1.00	ppb		100
39) Benzene	11.53	78	191294	1.00	ppb		98
40) Methyl methacrylate	13.09	41	78505	1.00	ppb		96
41) 1,4-dioxane	13.12	88	38763	1.00	ppb		94
42) 2,2,4-trimethylpentane	12.39	57	307865	1.00	ppb		93
43) Heptane	12.74	43	110483	1.00	ppb		98
44) Trichloroethene	12.87	130	87353	1.00	ppb		99
45) 1,2-dichloropropane	12.97	63	73192	1.00	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011507.D
Acq On : 17 Jan 2020 12:49 am
Sample : A1UG_1.0
Misc : A114_1UG
MS Integration Params: RTEINT.P
Quant Time: Jan 17 10:51:41 2020

Vial: 6
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 10:50:25 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D
DataAcq Meth : 1UG_ENT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	Bromodichloromethane	13.31	83	139808	1.00	ppb		99
47)	cis-1,3-dichloropropene	14.12	75	116650	1.00	ppb		98
48)	trans-1,3-dichloropropene	14.89	75	97051	1.00	ppb		95
49)	1,1,2-trichloroethane	15.22	97	79458	1.00	ppb		98
51)	Toluene	14.97	92	137807	1.00	ppb		97
52)	Methyl Isobutyl Ketone	14.03	43	137899	1.00	ppb		97
53)	Dibromochloromethane	15.95	129	144423	1.00	ppb		100
54)	Methyl Butyl Ketone	15.40	43	109462	1.00	ppb		89
55)	1,2-dibromoethane	16.22	107	123259	1.00	ppb		95
56)	Tetrachloroethylene	16.04	164	89760	1.00	ppb		97
57)	Chlorobenzene	17.07	112	183504	1.00	ppb		99
58)	Ethylbenzene	17.34	91	304206	1.00	ppb		99
59)	m&p-xylene	17.55	91	468343	2.00	ppb		99
60)	Nonane	17.95	43	160476	1.00	ppb		97
61)	Styrene	18.01	104	173179	1.00	ppb		97
62)	Bromoform	18.14	173	134514	1.00	ppb		99
63)	o-xylene	18.05	91	239739	1.00	ppb		97
64)	Cumene	18.64	105	341707	1.00	ppb		98
66)	1,1,2,2-tetrachloroethane	18.52	83	167422	1.00	ppb		100
67)	Propylbenzene	19.23	120	89579	1.00	ppb		92
68)	2-Chlorotoluene	19.27	126	82978	1.00	ppb	#	78
69)	4-ethyltoluene	19.41	105	295947	1.00	ppb		99
70)	1,3,5-trimethylbenzene	19.47	105	274033	1.00	ppb		99
71)	1,2,4-trimethylbenzene	19.97	105	268776	1.00	ppb		99
72)	1,3-dichlorobenzene	20.29	146	131749	1.00	ppb		99
73)	benzyl chloride	20.37	91	129985	1.00	ppb		99
74)	1,4-dichlorobenzene	20.44	146	112821	1.00	ppb		98
75)	1,2,3-trimethylbenzene	20.49	105	275716	1.00	ppb		99
76)	1,2-dichlorobenzene	20.81	146	142784	1.00	ppb		100
77)	1,2,4-trichlorobenzene	23.05	180	49712	1.00	ppb		99
78)	Naphthalene	23.27	128	144480	1.00	ppb		97
79)	Hexachloro-1,3-butadiene	23.40	225	126595	1.00	ppb		90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

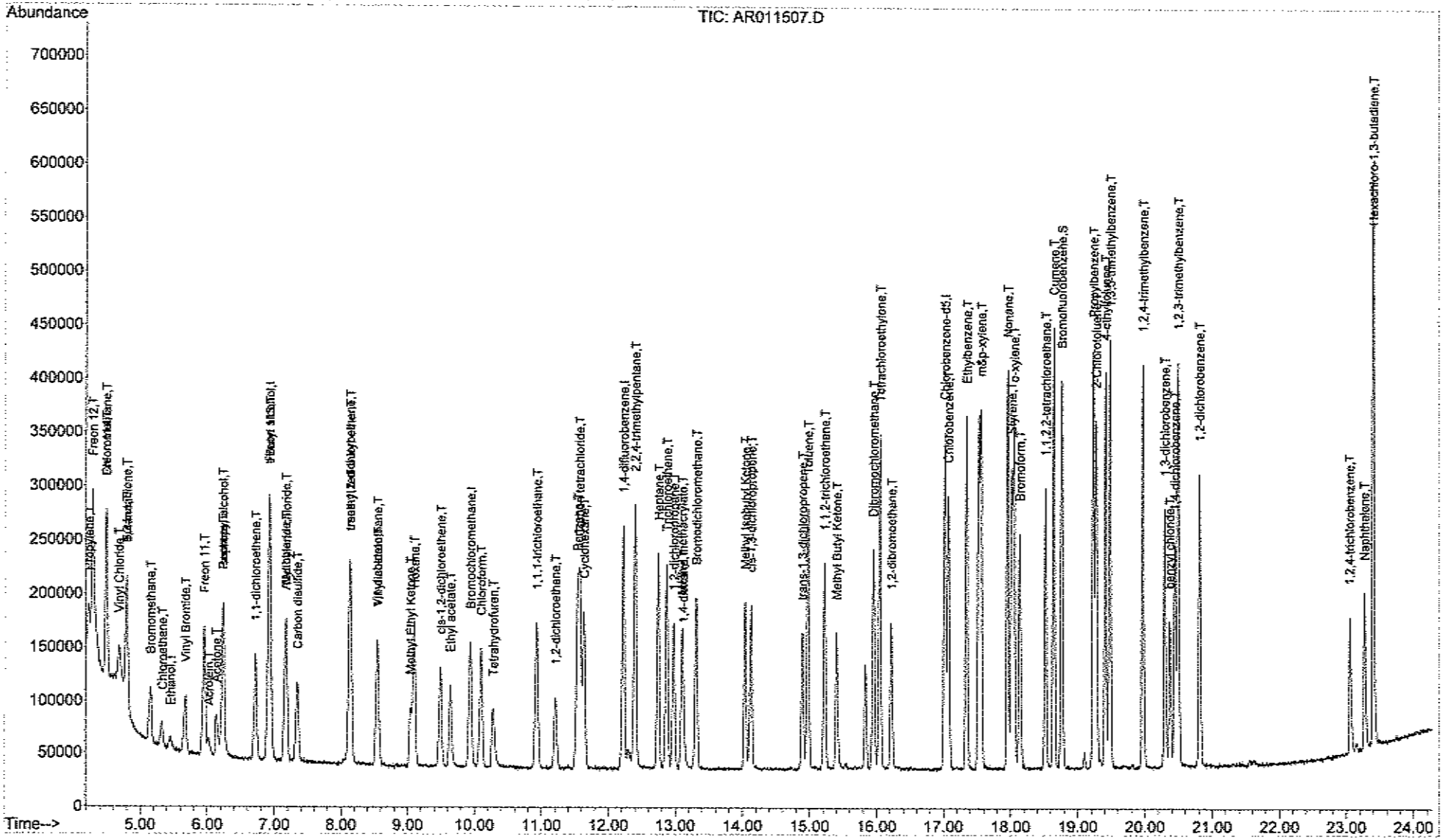
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011507.D
Acq On : 17 Jan 2020 12:49 am
Sample : A1UG_1.0
Misc : A114_1UG
MS Integration Params: RTEINT.P
Quant Time: Jan 17 11:00 2020

Vial: 6
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A116_1UG.RES

Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D



AR011507.D A116_1UG.M Wed Feb 05 10:12:22 2020 MSD1 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011508.D Vial: 7
Acq On : 17 Jan 2020 1:35 am Operator: RJP
Sample : A1UG_0.75 Inst : MSD #1
Misc : A114_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 10:53:04 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 10:50:25 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.93	128	51340	1.00	ppb		0.00
35) 1,4-difluorobenzene	12.22	114	251626	1.00	ppb		0.00
50) Chlorobenzene-d5	17.02	117	222547	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.76	95	156241	1.00	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
2) Propylene	4.23	41	27947m	0.80	ppb		
3) Freon 12	4.28	85	101354	0.75	ppb		98
4) Chloromethane	4.49	50	22984	0.75	ppb		99
5) Freon 114	4.49	85	71938	0.72	ppb		92
6) Vinyl Chloride	4.69	62	23487	0.72	ppb		97
7) Butane	4.79	43	42701m	0.57	ppb		
8) 1,3-butadiene	4.80	39	25398m	0.62	ppb		
9) Bromomethane	5.14	94	42743	0.77	ppb		95
10) Chloroethane	5.32	64	22249	0.76	ppb		99
11) Ethanol	5.44	45	16403	0.80	ppb		92
12) Acrolein	6.01	56	15881	0.69	ppb		95
13) Vinyl Bromide	5.67	106	43697	0.73	ppb		100
14) Freon 11	5.95	101	108766	0.73	ppb		99
15) Acetone	6.13	58	22590	0.75	ppb	#	100
16) Pentane	6.23	42	46745	0.76	ppb		93
17) Isopropyl alcohol	6.23	45	73304	0.78	ppb		90
18) 1,1-dichloroethene	6.71	96	43964	0.72	ppb		98
19) Freon 113	6.92	101	91428	0.73	ppb		97
20) t-Butyl alcohol	6.93	59	95321	0.78	ppb		90
21) Methylene chloride	7.18	84	40343	0.75	ppb		96
22) Allyl chloride	7.16	41	58121	0.76	ppb		96
23) Carbon disulfide	7.34	76	128142	0.74	ppb		99
24) trans-1,2-dichloroethene	8.12	61	63616	0.74	ppb		99
25) methyl tert-butyl ether	8.14	73	126026	0.73	ppb		87
26) 1,1-dichloroethane	8.55	63	78902	0.73	ppb		100
27) Vinyl acetate	8.53	43	99716	0.75	ppb		99
28) Methyl Ethyl Ketone	9.03	72	22610	0.80	ppb	#	100
29) cis-1,2-dichloroethene	9.48	61	62039	0.75	ppb		98
30) Hexane	9.09	57	77110	0.74	ppb		87
31) Ethyl acetate	9.64	43	100225	0.77	ppb		98
32) Chloroform	10.09	83	94189	0.73	ppb		97
33) Tetrahydrofuran	10.27	42	44665	0.77	ppb		95
34) 1,2-dichloroethane	11.21	62	58614	0.74	ppb		99
36) 1,1,1-trichloroethane	10.93	97	98914	0.76	ppb		98
37) Cyclohexane	11.63	56	73786	0.76	ppb	#	80
38) Carbon tetrachloride	11.57	117	103680	0.75	ppb		98
39) Benzene	11.54	78	140523	0.75	ppb		99
40) Methyl methacrylate	13.09	41	63220	0.82	ppb		97
41) 1,4-dioxane	13.12	88	29942	0.79	ppb		96
42) 2,2,4-trimethylpentane	12.39	57	230721	0.76	ppb		92
43) Heptane	12.74	43	82910	0.76	ppb		98
44) Trichloroethene	12.87	130	63592	0.74	ppb		98
45) 1,2-dichloropropane	12.97	63	54274	0.76	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011508.D Vial: 7
Acq On : 17 Jan 2020 1:35 am Operator: RJP
Sample : A1UG_0.75 Inst : MSD #1
Misc : A114_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 10:53:04 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 10:50:25 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D
DataAcq Meth : 1UG_ENT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	Bromodichloromethane	13.31	83	102713	0.75	ppb		99
47)	cis-1,3-dichloropropene	14.12	75	87926	0.77	ppb		99
48)	trans-1,3-dichloropropene	14.89	75	74527	0.78	ppb		94
49)	1,1,2-trichloroethane	15.22	97	59962	0.77	ppb		100
51)	Toluene	14.97	92	101416	0.74	ppb		97
52)	Methyl Isobutyl Ketone	14.03	43	106239	0.77	ppb		98
53)	Dibromochloromethane	15.95	129	104717	0.73	ppb		98
54)	Methyl Butyl Ketone	15.40	43	82204	0.75	ppb		89
55)	1,2-dibromoethane	16.22	107	90462	0.73	ppb		97
56)	Tetrachloroethylene	16.04	164	66821	0.74	ppb		98
57)	Chlorobenzene	17.07	112	135339	0.74	ppb		100
58)	Ethylbenzene	17.34	91	226471	0.74	ppb		99
59)	m&p-xylene	17.55	91	345616	1.48	ppb		98
60)	Nonane	17.95	43	120413	0.75	ppb		96
61)	Styrene	18.02	104	131202	0.76	ppb		99
62)	Bromoform	18.14	173	99858	0.74	ppb		100
63)	o-xylene	18.05	91	179371	0.75	ppb		98
64)	Cumene	18.64	105	254186	0.74	ppb		99
66)	1,1,2,2-tetrachloroethane	18.52	83	129023	0.77	ppb		99
67)	Propylbenzene	19.23	120	68674	0.77	ppb		92
68)	2-Chlorotoluene	19.27	126	62556	0.75	ppb	#	74
69)	4-ethyltoluene	19.41	105	232126	0.78	ppb		99
70)	1,3,5-trimethylbenzene	19.47	105	207401	0.76	ppb		100
71)	1,2,4-trimethylbenzene	19.97	105	202536	0.75	ppb		99
72)	1,3-dichlorobenzene	20.29	146	120010	0.91	ppb		99
73)	benzyl chloride	20.37	91	113909m	0.88	ppb		
74)	1,4-dichlorobenzene	20.44	146	110809	0.98	ppb		99
75)	1,2,3-trimethylbenzene	20.49	105	208486	0.76	ppb		100
76)	1,2-dichlorobenzene	20.81	146	119610	0.84	ppb		99
77)	1,2,4-trichlorobenzene	23.05	180	36010	0.72	ppb		97
78)	Naphthalene	23.27	128	103166m	0.72	ppb		
79)	Hexachloro-1,3-butadiene	23.40	225	93380	0.74	ppb		91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

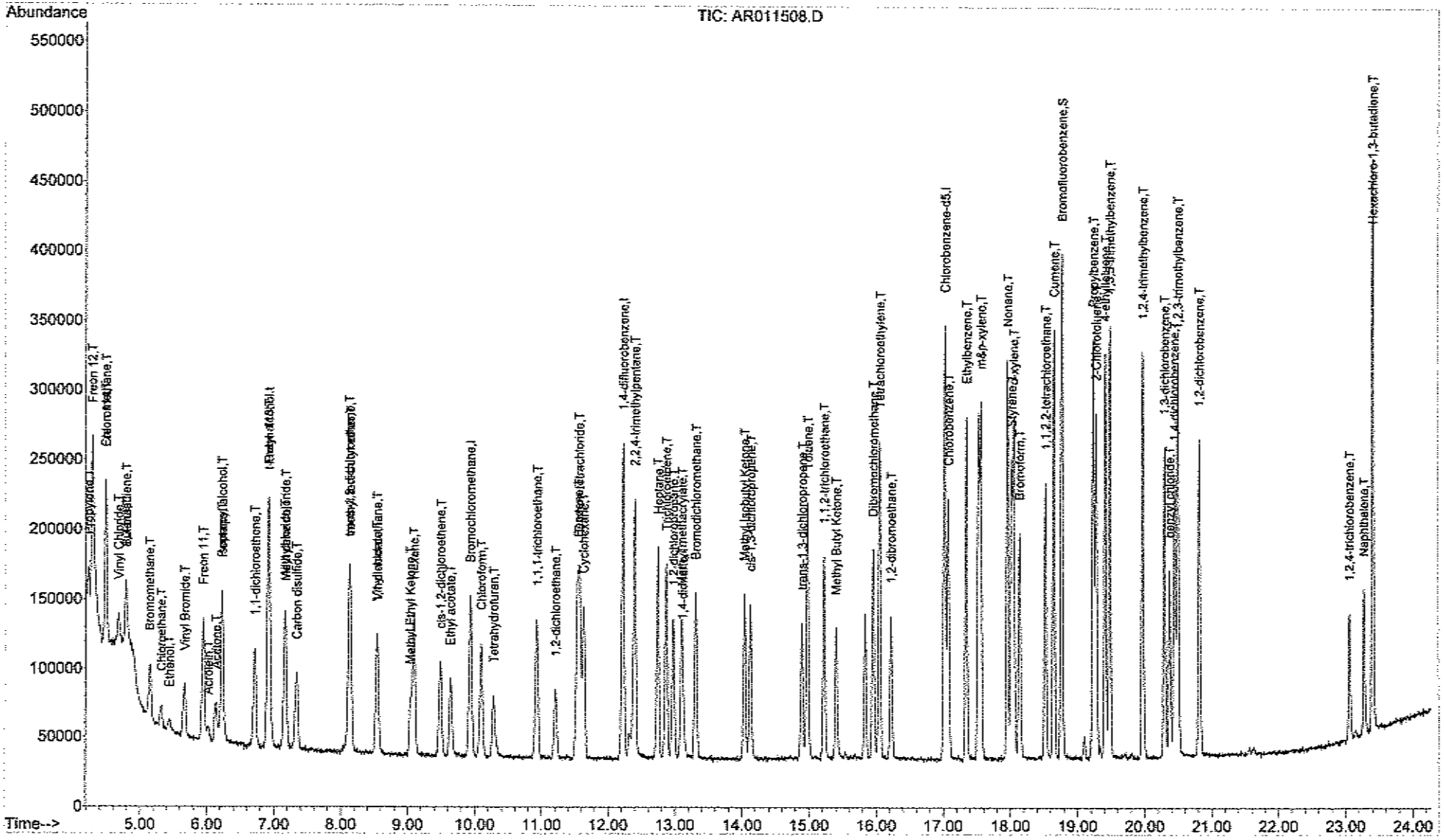
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011508.D
Acq On : 17 Jan 2020 1:35 am
Sample : A1UG_0.75
Misc : A114_1UG
MS Integration Params: RTEINT.P
Quant Time: Jan 17 11:01 2020

Vial: 7
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A116_1UG.RES

Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D



AR011508.D A116_1UG.M Wed Feb 05 10:12:26 2020 MSD1 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011509.D Vial: 8
Acq On : 17 Jan 2020 2:19 am Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : A114_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 10:53:28 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 10:50:25 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.94	128	52332	1.00	ppb		0.00
35) 1,4-difluorobenzene	12.22	114	253729	1.00	ppb		0.00
50) Chlorobenzene-d5	17.02	117	219811	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.76	95	138339	0.90	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 90.00%				
Target Compounds							Qvalue
2) Propylene	4.23	41	17970m	0.51	ppb		
3) Freon 12	4.29	85	67272	0.49	ppb		98
4) Chloromethane	4.48	50	14876	0.48	ppb		91
5) Freon 114	4.49	85	46668	0.46	ppb		95
6) Vinyl Chloride	4.69	62	15236	0.46	ppb		99
7) Butane	4.79	43	34214	0.45	ppb	#	64
8) 1,3-butadiene	4.80	39	21525	0.52	ppb		94
9) Bromomethane	5.15	94	27304	0.48	ppb		97
10) Chloroethane	5.33	64	14447	0.49	ppb		99
11) Ethanol	5.45	45	11065	0.53	ppb		89
12) Acrolein	6.02	56	11137	0.47	ppb		92
13) Vinyl Bromide	5.67	106	29307	0.48	ppb		98
14) Freon 11	5.95	101	71606	0.47	ppb		97
15) Acetone	6.14	58	16202	0.53	ppb	#	100
16) Pentane	6.23	42	33961	0.54	ppb		78
17) Isopropyl alcohol	6.24	45	45268	0.47	ppb		96
18) 1,1-dichloroethene	6.72	96	29702	0.48	ppb		98
19) Freon 113	6.92	101	60703	0.48	ppb		95
20) t-Butyl alcohol	6.94	59	58787	0.47	ppb		91
21) Methylene chloride	7.18	84	27520	0.50	ppb		98
22) Allyl chloride	7.16	41	39086	0.50	ppb		96
23) Carbon disulfide	7.34	76	84361	0.48	ppb		98
24) trans-1,2-dichloroethene	8.12	61	41723	0.47	ppb		98
25) methyl tert-butyl ether	8.14	73	83280	0.47	ppb		93
26) 1,1-dichloroethane	8.55	63	52306	0.48	ppb		100
27) Vinyl acetate	8.53	43	62923	0.47	ppb		99
28) Methyl Ethyl Ketone	9.05	72	14376	0.50	ppb	#	100
29) cis-1,2-dichloroethene	9.48	61	38904	0.46	ppb		98
30) Hexane	9.09	57	50939	0.48	ppb		93
31) Ethyl acetate	9.64	43	61449	0.46	ppb		97
32) Chloroform	10.09	83	62846	0.48	ppb		98
33) Tetrahydrofuran	10.28	42	29137	0.49	ppb		99
34) 1,2-dichloroethane	11.21	62	38999	0.49	ppb		99
36) 1,1,1-trichloroethane	10.93	97	64980	0.49	ppb		99
37) Cyclohexane	11.63	56	48888	0.50	ppb	#	82
38) Carbon tetrachloride	11.57	117	66565	0.48	ppb		97
39) Benzene	11.54	78	93792	0.50	ppb		99
40) Methyl methacrylate	13.09	41	38049	0.49	ppb		98
41) 1,4-dioxane	13.12	88	18372	0.48	ppb		97
42) 2,2,4-trimethylpentane	12.40	57	152180	0.50	ppb		93
43) Heptane	12.74	43	55661	0.51	ppb		94
44) Trichloroethene	12.86	130	41475	0.48	ppb		99
45) 1,2-dichloropropane	12.97	63	36582	0.51	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011509.D Vial: 8
Acq On : 17 Jan 2020 2:19 am Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : A114_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 10:53:28 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 10:50:25 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D
DataAcq Meth : 1UG_ENT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	Bromodichloromethane	13.30	83	67656	0.49	ppb		100
47)	cis-1,3-dichloropropene	14.12	75	55574	0.48	ppb		97
48)	trans-1,3-dichloropropene	14.89	75	47091	0.49	ppb		93
49)	1,1,2-trichloroethane	15.22	97	38712	0.49	ppb		99
51)	Toluene	14.97	92	66377	0.49	ppb		98
52)	Methyl Isobutyl Ketone	14.04	43	67429	0.49	ppb		93
53)	Dibromochloromethane	15.95	129	68741	0.48	ppb		99
54)	Methyl Butyl Ketone	15.40	43	48877	0.45	ppb		88
55)	1,2-dibromoethane	16.22	107	56410	0.46	ppb		99
56)	Tetrachloroethylene	16.05	164	43826	0.49	ppb		100
57)	Chlorobenzene	17.07	112	86042	0.47	ppb		99
58)	Ethylbenzene	17.34	91	146356	0.49	ppb		99
59)	m&p-xylene	17.56	91	224435	0.97	ppb		99
60)	Nonane	17.95	43	80623	0.51	ppb		96
61)	Styrene	18.01	104	79804	0.47	ppb		98
62)	Bromoform	18.13	173	61549	0.46	ppb		100
63)	o-xylene	18.05	91	114013	0.48	ppb		96
64)	Cumene	18.64	105	162333	0.48	ppb		99
66)	1,1,2,2-tetrachloroethane	18.52	83	80017	0.48	ppb		99
67)	Propylbenzene	19.23	120	41128	0.47	ppb		93
68)	2-Chlorotoluene	19.27	126	37852	0.46	ppb	#	76
69)	4-ethyltoluene	19.41	105	133851	0.46	ppb		98
70)	1,3,5-trimethylbenzene	19.47	105	131635	0.49	ppb		98
71)	1,2,4-trimethylbenzene	19.97	105	123928	0.47	ppb		98
72)	1,3-dichlorobenzene	20.29	146	55689	0.43	ppb		99
73)	benzyl chloride	20.37	91	53488m	0.42	ppb		
74)	1,4-dichlorobenzene	20.44	146	46036	0.41	ppb		99
75)	1,2,3-trimethylbenzene	20.49	105	129679	0.48	ppb		98
76)	1,2-dichlorobenzene	20.81	146	64440	0.46	ppb		99
77)	1,2,4-trichlorobenzene	23.06	180	19544m	0.40	ppb		
78)	Naphthalene	23.27	128	63785m	0.45	ppb		
79)	Hexachloro-1,3-butadiene	23.40	225	58203	0.47	ppb		90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

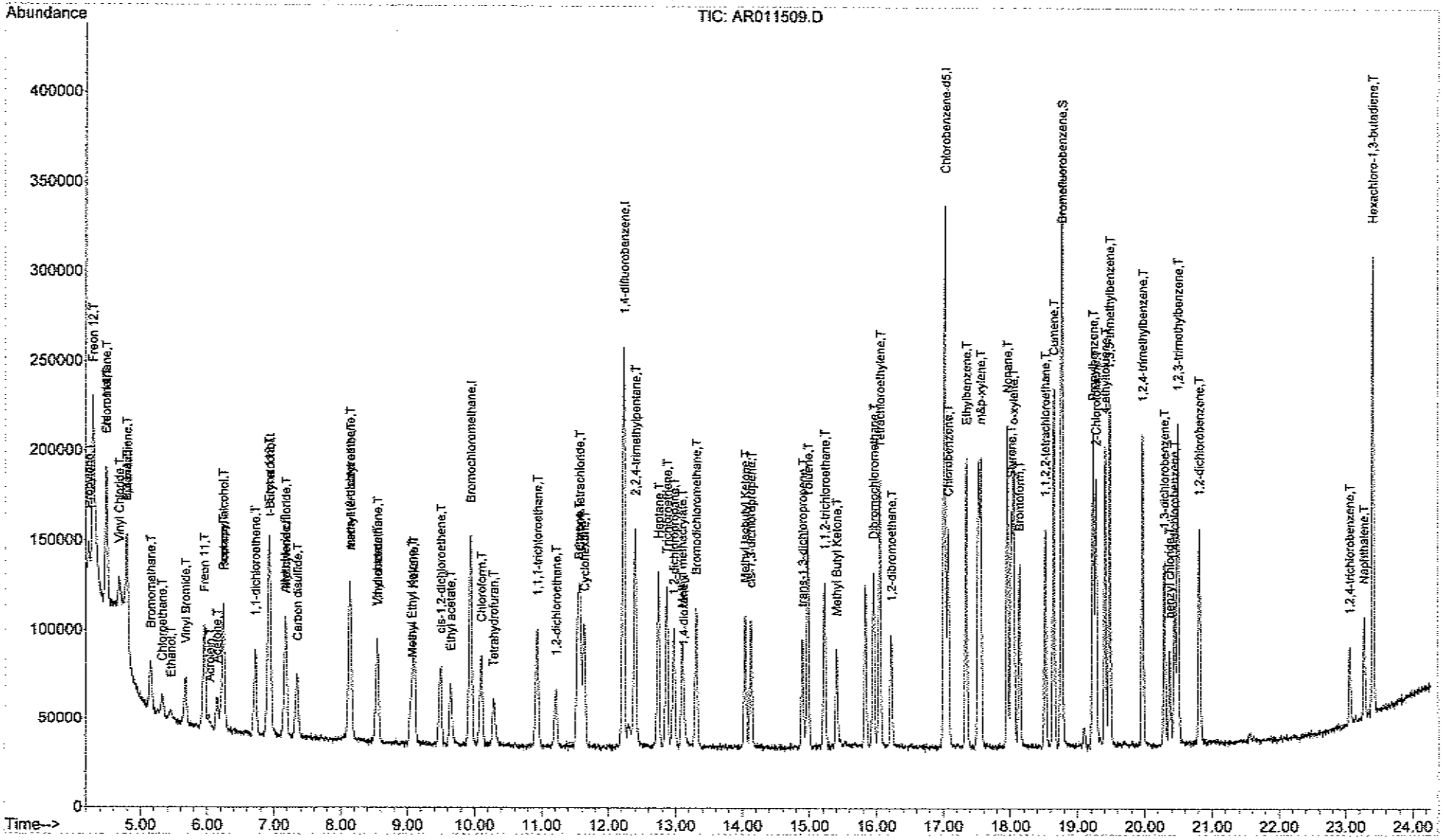
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011509.D
Acq On : 17 Jan 2020 2:19 am
Sample : A1UG_0.50
Misc : A114_1UG
MS Integration Params: RTEINT.P
Quant Time: Jan 17 11:02 2020

Vial: 8
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A116_1UG.RES

Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D



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Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011510.D Vial: 9
Acq On : 17 Jan 2020 3:03 am Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : A114_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 10:53:47 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 10:50:25 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.93	128	51492	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.22	114	251117	1.00	ppb	0.00
50) Chlorobenzene-d5	17.01	117	219147	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.76	95	147050	0.96	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96.00%			
Target Compounds						Qvalue
2) Propylene	4.22	41	9873m	0.28	ppb	
3) Freon 12	4.28	85	41842	0.31	ppb	98
4) Chloromethane	4.49	50	9098	0.30	ppb	70
5) Freon 114	4.48	85	28494	0.28	ppb	89
6) Vinyl Chloride	4.69	62	9614	0.30	ppb	96
7) Butane	4.79	43	15850m	0.21	ppb	
8) 1,3-butadiene	4.78	39	11742m	0.29	ppb	
9) Bromomethane	5.14	94	15825	0.28	ppb	96
10) Chloroethane	5.32	64	8891	0.30	ppb	97
11) Ethanol	5.43	45	7336m	0.36	ppb	
12) Acrolein	6.02	56	6639	0.29	ppb	90
13) Vinyl Bromide	5.66	106	17355	0.29	ppb	100
14) Freon 11	5.95	101	41463	0.28	ppb	96
15) Acetone	6.15	58	9230	0.31	ppb #	100
16) Pentane	6.23	42	18554	0.30	ppb	93
17) Isopropyl alcohol	6.23	45	28038	0.30	ppb	97
18) 1,1-dichloroethene	6.72	96	17667	0.29	ppb	98
19) Freon 113	6.91	101	35097	0.28	ppb	96
20) t-Butyl alcohol	6.94	59	36128	0.29	ppb	97
21) Methylene chloride	7.17	84	15586	0.29	ppb	95
22) Allyl chloride	7.16	41	22852	0.30	ppb	97
23) Carbon disulfide	7.34	76	49735	0.29	ppb	99
24) trans-1,2-dichloroethene	8.12	61	24968	0.29	ppb	98
25) methyl tert-butyl ether	8.14	73	48131	0.28	ppb	94
26) 1,1-dichloroethane	8.55	63	31359	0.29	ppb	100
27) Vinyl acetate	8.53	43	38174	0.29	ppb	100
28) Methyl Ethyl Ketone	9.06	72	9046	0.32	ppb #	100
29) cis-1,2-dichloroethene	9.48	61	23895	0.29	ppb	98
30) Hexane	9.09	57	29588	0.28	ppb	95
31) Ethyl acetate	9.64	43	37804	0.29	ppb	97
32) Chloroform	10.09	83	36707	0.28	ppb	96
33) Tetrahydrofuran	10.28	42	18481	0.32	ppb	92
34) 1,2-dichloroethane	11.21	62	22681	0.29	ppb	97
36) 1,1,1-trichloroethane	10.93	97	38136	0.29	ppb	97
37) Cyclohexane	11.63	56	29188	0.30	ppb #	82
38) Carbon tetrachloride	11.57	117	40077	0.29	ppb	100
39) Benzene	11.53	78	54051	0.29	ppb	97
40) Methyl methacrylate	13.09	41	24705	0.32	ppb	96
41) 1,4-dioxane	13.13	88	11101	0.29	ppb	94
42) 2,2,4-trimethylpentane	12.39	57	88014	0.29	ppb	93
43) Heptane	12.74	43	33686	0.31	ppb	94
44) Trichloroethene	12.86	130	24484	0.29	ppb	98
45) 1,2-dichloropropane	12.97	63	21396	0.30	ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011510.D Vial: 9
Acq On : 17 Jan 2020 3:03 am Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : A114_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 10:53:47 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 10:50:25 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D
DataAcq Meth : 1UG_ENT

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
46) Bromodichloromethane	13.31	83	39540	0.29 ppb		100
47) cis-1,3-dichloropropene	14.12	75	32701	0.29 ppb		99
48) trans-1,3-dichloropropene	14.89	75	28174	0.30 ppb		97
49) 1,1,2-trichloroethane	15.22	97	21935	0.28 ppb		95
51) Toluene	14.98	92	39708	0.29 ppb		94
52) Methyl Isobutyl Ketone	14.04	43	41482	0.31 ppb		96
53) Dibromochloromethane	15.95	129	39259	0.28 ppb		98
54) Methyl Butyl Ketone	15.40	43	28732	0.27 ppb		87
55) 1,2-dibromoethane	16.22	107	34459	0.28 ppb		98
56) Tetrachloroethylene	16.04	164	25509	0.29 ppb		100
57) Chlorobenzene	17.07	112	50811	0.28 ppb		99
58) Ethylbenzene	17.34	91	84489	0.28 ppb		99
59) m&p-xylene	17.52	91	132033	0.57 ppb		99
60) Nonane	17.95	43	48259	0.31 ppb		98
61) Styrene	18.01	104	49369	0.29 ppb		100
62) Bromoform	18.13	173	36137	0.27 ppb		99
63) o-xylene	18.05	91	66456	0.28 ppb		96
64) Cumene	18.64	105	93650	0.28 ppb		99
66) 1,1,2,2-tetrachloroethane	18.52	83	49213	0.30 ppb		98
67) Propylbenzene	19.23	120	25642	0.29 ppb		89
68) 2-Chlorotoluene	19.27	126	23315	0.29 ppb	#	77
69) 4-ethyltoluene	19.41	105	84667	0.29 ppb		99
70) 1,3,5-trimethylbenzene	19.48	105	77010	0.29 ppb		98
71) 1,2,4-trimethylbenzene	19.97	105	75223	0.28 ppb		98
72) 1,3-dichlorobenzene	20.29	146	42723	0.33 ppb		97
73) benzyl chloride	20.37	91	43846	0.34 ppb		97
74) 1,4-dichlorobenzene	20.44	146	38988	0.35 ppb		97
75) 1,2,3-trimethylbenzene	20.49	105	77788	0.29 ppb		99
76) 1,2-dichlorobenzene	20.81	146	43801	0.31 ppb		99
77) 1,2,4-trichlorobenzene	23.05	180	12115m	0.25 ppb		
78) Naphthalene	23.27	128	37154m	0.26 ppb		
79) Hexachloro-1,3-butadiene	23.40	225	33694	0.27 ppb		91

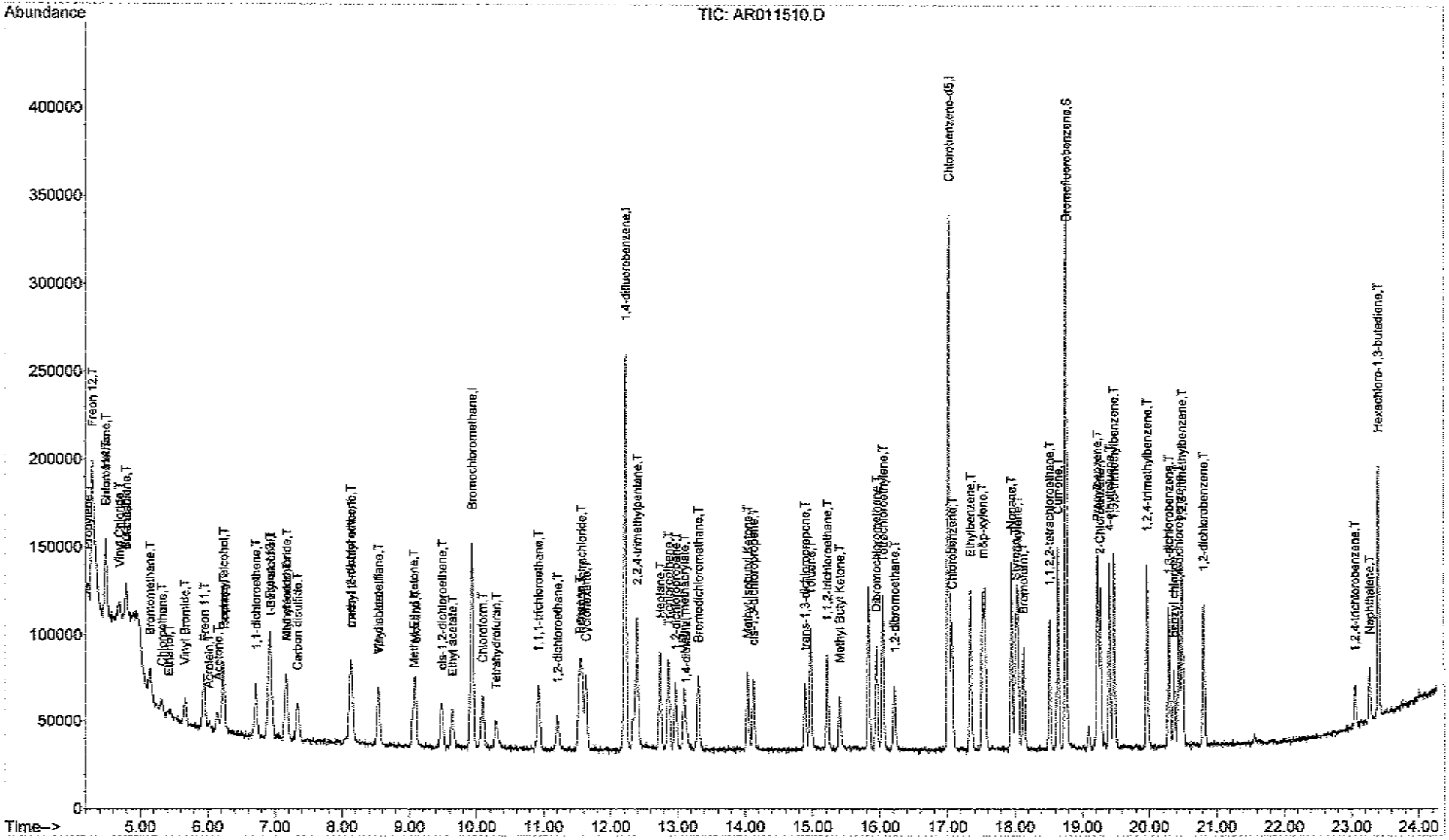
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011510.D
Acq On : 17 Jan 2020 3:03 am
Sample : A1UG_0.30
Misc : A114_1UG
MS Integration Params: RTEINT.P
Quant Time: Jan 17 11:03 2020

Vial: 9
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A116_1UG.RES

Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D



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Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011511.D Vial: 10
Acq On : 17 Jan 2020 3:49 am Operator: RJP
Sample : A1UG_0.15 Inst : MSD #1
Misc : A114_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 10:54:10 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 10:50:25 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.94	128	52248	1.00	ppb		0.00
35) 1,4-difluorobenzene	12.21	114	249518	1.00	ppb		0.00
50) Chlorobenzene-d5	17.02	117	211716	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.76	95	143174	0.96	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96.00%				
Target Compounds							Qvalue
2) Propylene	4.23	41	4604m	0.13	ppb		
3) Freon 12	4.28	85	20999	0.15	ppb		96
4) Chloromethane	4.48	50	4552	0.15	ppb		97
5) Freon 114	4.49	85	13415	0.13	ppb		94
6) Vinyl Chloride	4.69	62	4889m	0.15	ppb		
7) Butane	4.79	43	11443m	0.15	ppb		
8) 1,3-butadiene	4.78	39	5966m	0.14	ppb		
9) Bromomethane	5.14	94	8210	0.15	ppb	#	70
10) Chloroethane	5.32	64	4442	0.15	ppb		94
11) Ethanol	5.43	45	3572m	0.17	ppb		
12) Acrolein	6.01	56	2934m	0.12	ppb		
13) Vinyl Bromide	5.67	106	8746	0.14	ppb		92
14) Freon 11	5.95	101	19951	0.13	ppb		92
15) Acetone	6.14	58	4538	0.15	ppb	#	100
16) Pentane	6.23	42	9749	0.16	ppb		96
17) Isopropyl alcohol	6.24	45	15734	0.16	ppb		92
18) 1,1-dichloroethene	6.72	96	7997m	0.13	ppb		
19) Freon 113	6.92	101	17034	0.13	ppb		95
20) t-Butyl alcohol	6.95	59	17025	0.14	ppb	#	77
21) Methylene chloride	7.18	84	8234	0.15	ppb		97
22) Allyl chloride	7.16	41	11451	0.15	ppb		98
23) Carbon disulfide	7.34	76	24002	0.14	ppb		98
24) trans-1,2-dichloroethene	8.12	61	12338	0.14	ppb		97
25) methyl tert-butyl ether	8.15	73	24697	0.14	ppb		90
26) 1,1-dichloroethane	8.55	63	15713	0.14	ppb		99
27) Vinyl acetate	8.54	43	19385	0.14	ppb		99
28) Methyl Ethyl Ketone	9.05	72	3894	0.14	ppb	#	100
29) cis-1,2-dichloroethene	9.48	61	11646	0.14	ppb		92
30) Hexane	9.09	57	13545	0.13	ppb		98
31) Ethyl acetate	9.64	43	18738	0.14	ppb		96
32) Chloroform	10.09	83	17526	0.13	ppb		99
33) Tetrahydrofuran	10.29	42	8756	0.15	ppb		100
34) 1,2-dichloroethane	11.22	62	11081	0.14	ppb		96
36) 1,1,1-trichloroethane	10.93	97	18191	0.14	ppb		99
37) Cyclohexane	11.63	56	14144	0.15	ppb	#	79
38) Carbon tetrachloride	11.56	117	18561	0.14	ppb		95
39) Benzene	11.54	78	25532	0.14	ppb		99
40) Methyl methacrylate	13.10	41	12710	0.17	ppb		90
41) 1,4-dioxane	13.14	88	5643	0.15	ppb		96
42) 2,2,4-trimethylpentane	12.39	57	42686	0.14	ppb		96
43) Heptane	12.73	43	15720	0.15	ppb		97
44) Trichloroethene	12.87	130	11567	0.14	ppb		96
45) 1,2-dichloropropane	12.97	63	11040	0.16	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011511.D
Acq On : 17 Jan 2020 3:49 am
Sample : A1UG_0.15
Misc : A114_1UG
MS Integration Params: RTEINT.P
Quant Time: Jan 17 10:54:10 2020

Vial: 10
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 10:50:25 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D
DataAcq Meth : 1UG_ENT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	Bromodichloromethane	13.30	83	18577	0.14	ppb		96
47)	cis-1,3-dichloropropene	14.12	75	14922	0.13	ppb		94
48)	trans-1,3-dichloropropene	14.89	75	12371	0.13	ppb		93
49)	1,1,2-trichloroethane	15.22	97	11011	0.14	ppb		98
51)	Toluene	14.97	92	18886	0.14	ppb		97
52)	Methyl Isobutyl Ketone	14.03	43	20059	0.15	ppb		94
53)	Dibromochloromethane	15.95	129	18801	0.14	ppb		98
54)	Methyl Butyl Ketone	15.41	43	14174	0.14	ppb		86
55)	1,2-dibromoethane	16.22	107	15763	0.13	ppb		95
56)	Tetrachloroethylene	16.05	164	11577	0.14	ppb		95
57)	Chlorobenzene	17.07	112	23592	0.14	ppb		98
58)	Ethylbenzene	17.34	91	40749	0.14	ppb		99
59)	m&p-xylene	17.52	91	60277	0.27	ppb		96
60)	Nonane	17.95	43	22017	0.14	ppb		94
61)	Styrene	18.02	104	21477	0.13	ppb		88
62)	Bromoform	18.13	173	16820	0.13	ppb		98
63)	o-xylene	18.05	91	31876	0.14	ppb		97
64)	Cumene	18.64	105	44712	0.14	ppb		100
66)	1,1,2,2-tetrachloroethane	18.52	83	23457	0.15	ppb		98
67)	Propylbenzene	19.22	120	11628	0.14	ppb		95
68)	2-Chlorotoluene	19.27	126	11415	0.14	ppb	#	88
69)	4-ethyltoluene	19.41	105	39130	0.14	ppb		98
70)	1,3,5-trimethylbenzene	19.48	105	36133	0.14	ppb		98
71)	1,2,4-trimethylbenzene	19.97	105	35035	0.14	ppb		99
72)	1,3-dichlorobenzene	20.29	146	18796	0.15	ppb		93
73)	benzyl chloride	20.37	91	17428	0.14	ppb		99
74)	1,4-dichlorobenzene	20.45	146	17381	0.16	ppb		95
75)	1,2,3-trimethylbenzene	20.49	105	36487	0.14	ppb		97
76)	1,2-dichlorobenzene	20.81	146	19421	0.14	ppb		95
77)	1,2,4-trichlorobenzene	23.06	180	5823m	0.12	ppb		
78)	Naphthalene	23.28	128	19505m	0.14	ppb		
79)	Hexachloro-1,3-butadiene	23.40	225	15442	0.13	ppb		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

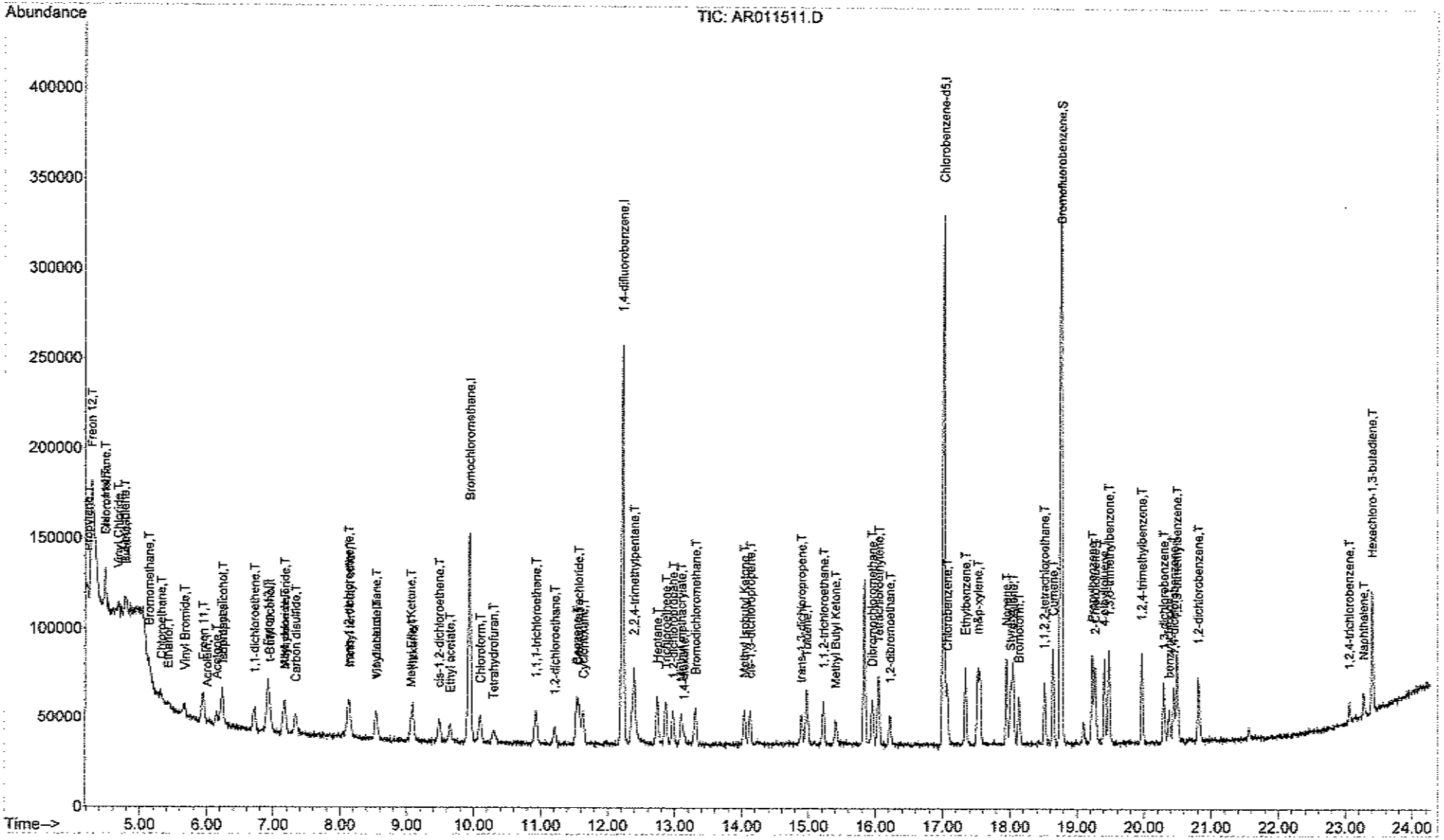
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011511.D
Acq On : 17 Jan 2020 3:49 am
Sample : A1UG_0.15
Misc : A114_1UG
MS Integration Params: RTEINT.P
Quant Time: Jan 17 11:05 2020

Vial: 10
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A116_1UG.RES

Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011512.D Vial: 11
Acq On : 17 Jan 2020 4:34 am Operator: RJP
Sample : A1UG_0.10 Inst : MSD #1
Misc : A114_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 10:54:32 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 10:50:25 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	9.93	128	50970	1.00 ppb	0.00
35) 1,4-difluorobenzene	12.21	114	249262	1.00 ppb	0.00
50) Chlorobenzene-d5	17.01	117	209258	1.00 ppb	0.00
System Monitoring Compounds					
65) Bromofluorobenzene	18.76	95	127093m	0.87 ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 87.00%		
Target Compounds					Qvalue
6) Vinyl Chloride	4.69	62	3717m	0.12 ppb	
18) 1,1-dichloroethene	6.71	96	5650	0.09 ppb	92
29) cis-1,2-dichloroethene	9.48	61	7391	0.09 ppb	95
38) Carbon tetrachloride	11.58	117	12164	0.09 ppb	97
44) Trichloroethene	12.86	130	7239	0.09 ppb	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

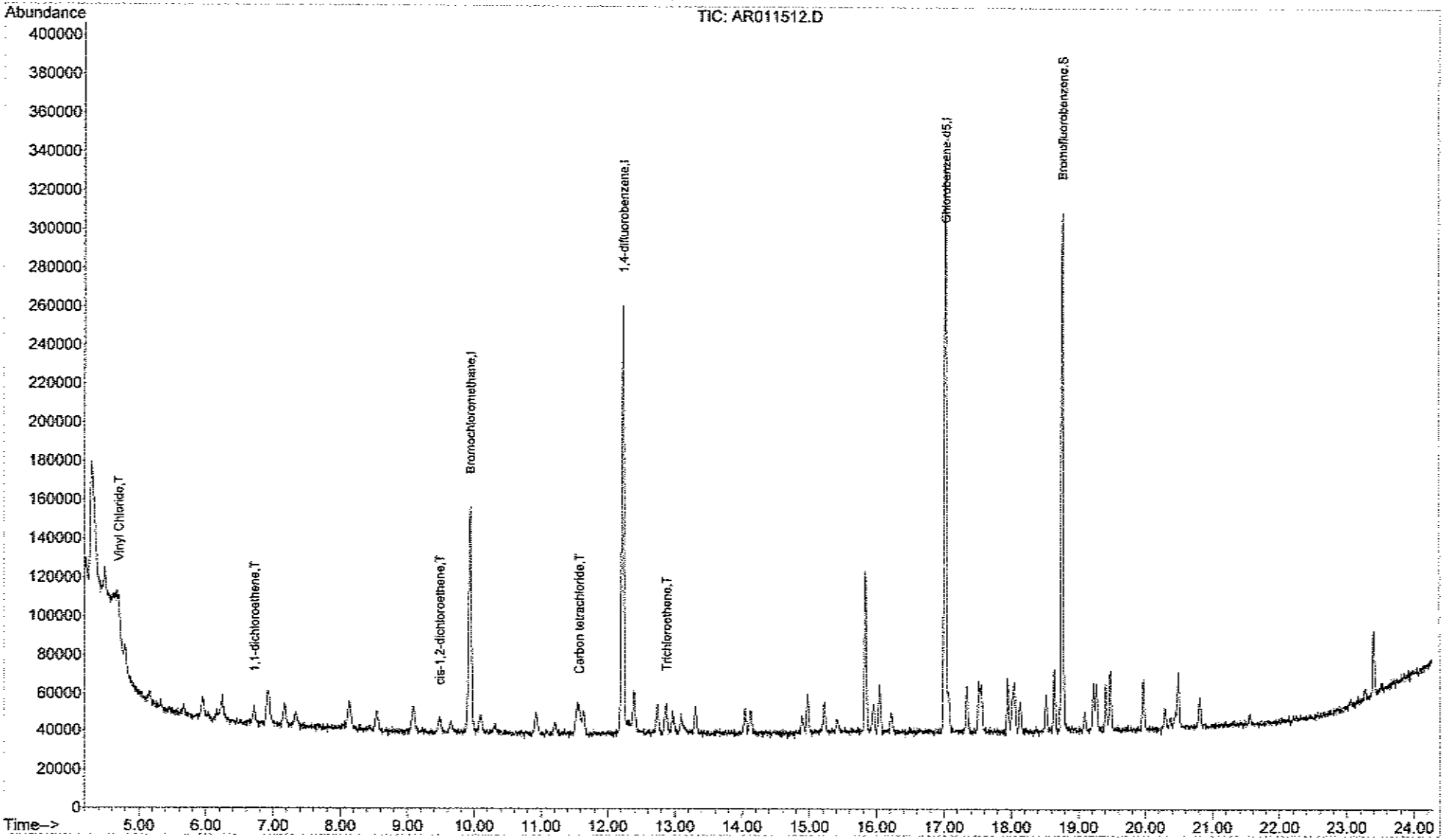
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011512.D
Acq On : 17 Jan 2020 4:34 am
Sample : A1UG_0.10
Misc : A114_1UG
MS Integration Params: RTEINT.P
Quant Time: Jan 17 11:06 2020

Vial: 11
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A116_1UG.RES

Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D



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Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011513.D Vial: 12
Acq On : 17 Jan 2020 5:19 am Operator: RJP
Sample : A1UG_0.04 Inst : MSD #1
Misc : A114_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 10:54:51 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 10:50:25 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	9.93	128	52314	1.00 ppb	0.00
35) 1,4-difluorobenzene	12.22	114	250904	1.00 ppb	0.00
50) Chlorobenzene-d5	17.02	117	212758	1.00 ppb	0.00
System Monitoring Compounds					
65) Bromofluorobenzene	18.76	95	130289	0.87 ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 87.00%		
Target Compounds					Qvalue
6) Vinyl Chloride	4.68	62	1357m	0.04 ppb	
18) 1,1-dichloroethene	6.73	96	2415m	0.04 ppb	
38) Carbon tetrachloride	11.56	117	4848m	0.04 ppb	
44) Trichloroethene	12.86	130	2539m	0.03 ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AR011513.D A116_1UG.M Wed Feb 05 10:12:44 2020 MSD1 Page 1

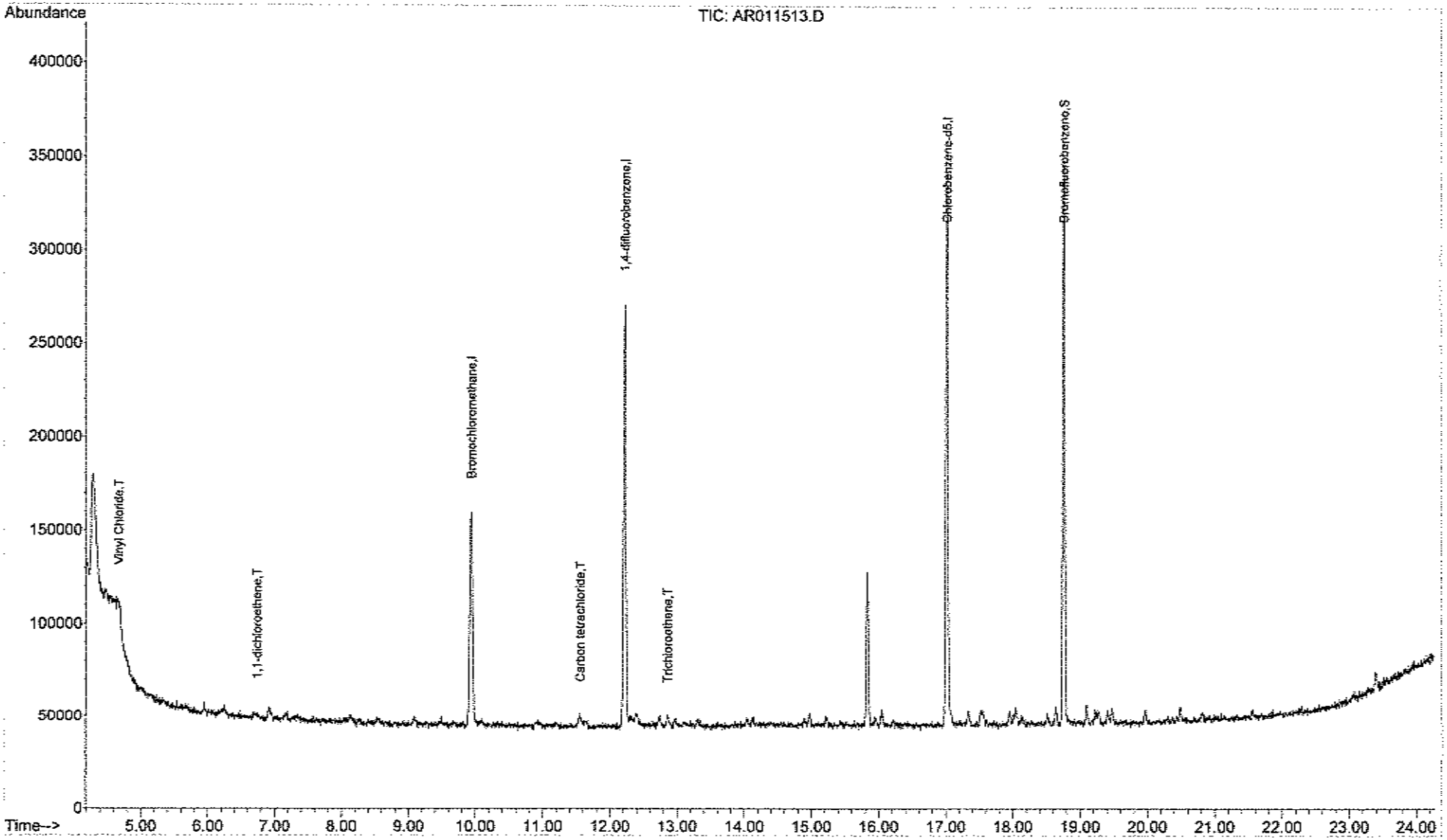
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011513.D
Acq On : 17 Jan 2020 5:19 am
Sample : A1UG_0.04
Misc : A114_1UG
MS Integration Params: RTEINT.P
Quant Time: Jan 17 11:08 2020

Vial: 12
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A116_1UG.RES

Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011514.D Vial: 13
Acq On : 17 Jan 2020 6:03 am Operator: RJP
Sample : A1UG_0.03 Inst : MSD #1
Misc : A114_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 10:55:10 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 10:50:25 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	9.94	128	52646	1.00 ppb	0.00
35) 1,4-difluorobenzene	12.22	114	251204	1.00 ppb	0.00
50) Chlorobenzene-d5	17.02	117	211927	1.00 ppb	0.00
System Monitoring Compounds					
65) Bromofluorobenzene	18.76	95	129883	0.87 ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 87.00%		
Target Compounds					Qvalue
38) Carbon tetrachloride	11.56	117	3864m	0.03 ppb	
44) Trichloroethene	12.87	130	1739m	0.02 ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

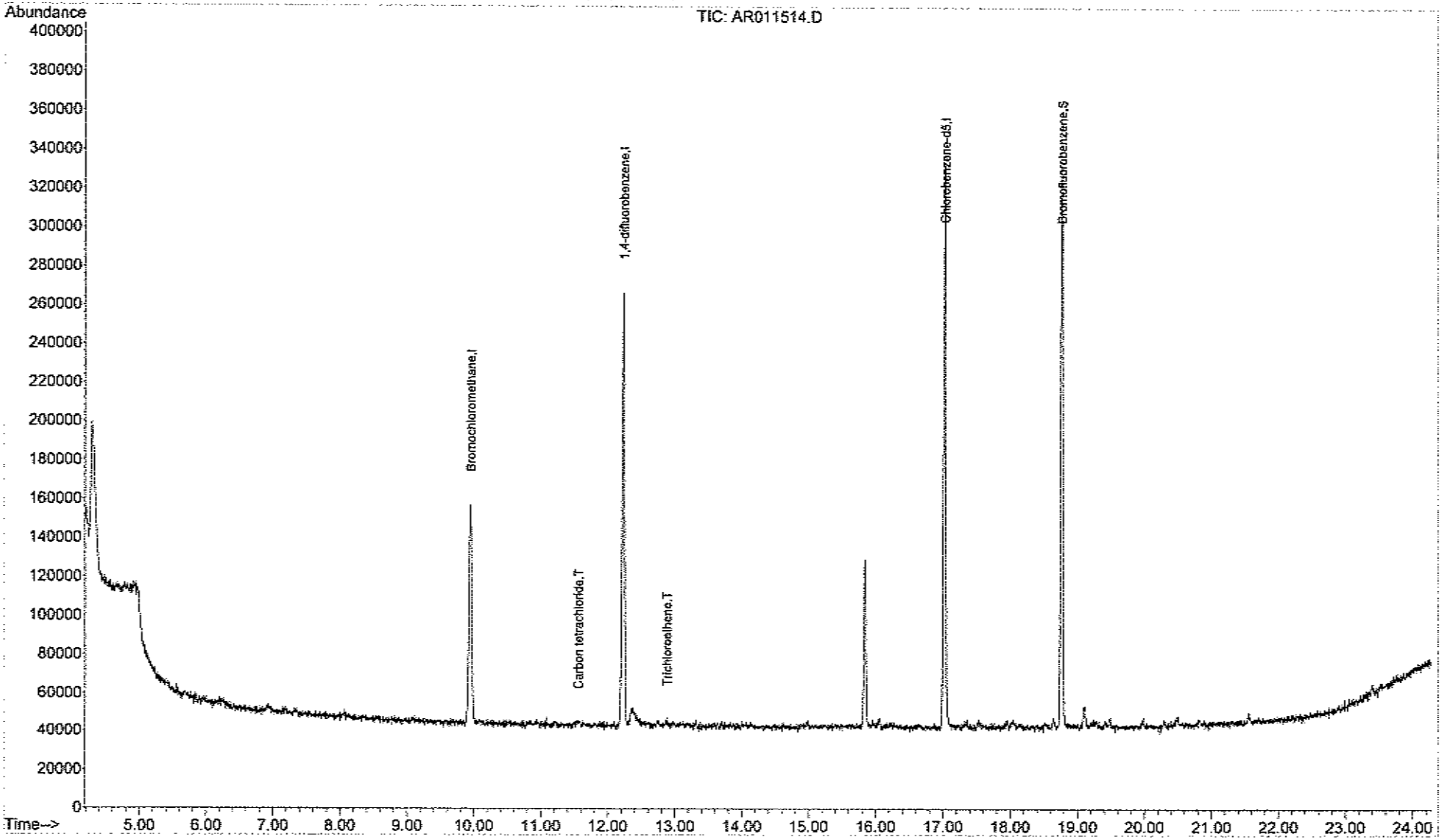
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR011514.D
Acq On : 17 Jan 2020 6:03 am
Sample : A1UG_0.03
Misc : A114_1UG
MS Integration Params: RTEINT.P
Quant Time: Jan 17 11:09 2020

Vial: 13
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A116_1UG.RES

Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AR011507.D



AR011514.D A116_1UG.M Wed Feb 05 10:12:48 2020 MSD1

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CALIBRATION VERIFICATION

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AR012002.D Vial: 2
Acq On : 20 Jan 2020 10:48 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : A116_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
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	102	0.00
2	T	Propylene	0.683	0.654	4.2	90	0.00
3	T	Freon 12	2.620	2.660	-1.5	103	0.00
4	T	Chloromethane	0.607	0.482	20.6	82	0.00
5	T	Freon 114	1.900	1.838	3.3	95	0.00
6	T	Vinyl Chloride	0.638	0.551	13.6	88	0.00
7	T	Butane	1.305	0.536	58.9#	42#	0.00
8	T	1,3-butadiene	0.765	0.645	15.7	79	0.00
9	T	Bromomethane	1.064	0.881	17.2	83	0.00
10	T	Chloroethane	0.564	0.527	6.6	94	0.00
11	T	Ethanol	0.419	0.355	15.3	89	0.00
12	T	Acrolein	0.421	0.356	15.4	80	0.00
13	T	Vinyl Bromide	1.126	1.179	-4.7	102	0.00
14	T	Freon 11	2.770	2.849	-2.9	100	0.00
15	T	Acetone	0.581	0.552	5.0	96	0.00
16	T	Pentane	1.207	1.017	15.7	86	0.00
17	T	Isopropyl alcohol	1.843	1.646	10.7	91	0.00
18	T	1,1-dichloroethene	1.138	1.201	-5.5	103	0.00
19	T	Freon 113	2.338	2.444	-4.5	102	0.00
20	t	t-Butyl alcohol	2.327	2.075	10.8	88	0.00
21	T	Methylene chloride	1.033	1.040	-0.7	101	0.00
22	T	Allyl chloride	1.465	1.177	19.7	81	0.00
23	T	Carbon disulfide	3.266	3.221	1.4	97	0.00
24	T	trans-1,2-dichloroethene	1.636	1.534	6.2	93	0.00
25	T	methyl tert-butyl ether	3.243	3.022	6.8	91	0.00
26	T	1,1-dichloroethane	2.042	1.894	7.2	92	0.00
27	T	Vinyl acetate	2.514	2.039	18.9	80	0.00
28	T	Methyl Ethyl Ketone	0.555	0.543	2.2	100	0.00
29	T	cis-1,2-dichloroethene	1.548	1.439	7.0	90	0.00
30	T	Hexane	1.935	1.758	9.1	88	0.00
31	T	Ethyl acetate	2.497	2.152	13.8	86	0.00
32	T	Chloroform	2.419	2.418	0.0	98	0.00
33	T	Tetrahydrofuran	1.139	0.981	13.9	88	0.00
34	T	1,2-dichloroethane	1.496	1.354	9.5	89	0.00
35	I	1,4-difluorobenzene	1.000	1.000	0.0	98	0.00
36	T	1,1,1-trichloroethane	0.513	0.515	-0.4	97	0.00
37	T	Cyclohexane	0.383	0.353	7.8	89	0.00
38	T	Carbon tetrachloride	0.524	0.533	-1.7	96	0.00
39	T	Benzene	0.733	0.736	-0.4	96	0.00
40	T	Methyl methacrylate	0.322	0.270	16.1	86	0.00
41	T	1,4-dioxane	0.151	0.151	0.0	98	0.00
42	T	2,2,4-trimethylpentane	1.189	1.073	9.8	87	0.00
43	T	Heptane	0.432	0.361	16.4	82	0.00
44	T	Trichloroethene	0.312	0.370	-18.6	106	0.00
45	T	1,2-dichloropropane	0.288	0.266	7.6	91	0.00
46	T	Bromodichloromethane	0.535	0.523	2.2	94	0.00
47	T	cis-1,3-dichloropropene	0.446	0.443	0.7	95	0.00
48	T	trans-1,3-dichloropropene	0.378	0.375	0.8	97	0.00
49	T	1,1,2-trichloroethane	0.308	0.322	-4.5	102	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AR012002.D Vial: 2
Acq On : 20 Jan 2020 10:48 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : A116_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
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	0.611	0.615	-0.7	99	0.00
52	T	Methyl Isobutyl Ketone	0.620	0.504	18.7	81	0.00
53	T	Dibromochloromethane	0.632	0.648	-2.5	99	0.00
54	T	Methyl Butyl Ketone	0.474	0.432	8.9	87	0.00
55	T	1,2-dibromoethane	0.534	0.570	-6.7	102	0.00
56	T	Tetrachloroethylene	0.397	0.432	-8.8	106	0.00
57	T	Chlorobenzene	0.799	0.852	-6.6	103	0.00
58	T	Ethylbenzene	1.341	1.329	0.9	97	0.00
59	T	m&p-xylene	1.030	1.025	0.5	97	0.00
60	T	Nonane	0.724	0.602	16.9	83	0.00
61	T	Styrene	0.766	0.797	-4.0	102	0.00
62	T	Bromoform	0.587	0.589	-0.3	97	0.00
63	T	o-xylene	1.057	1.051	0.6	97	0.00
64	T	Cumene	1.497	1.538	-2.7	100	0.00
65	S	Bromofluorobenzene	0.668	0.677	-1.3	96	0.00
66	T	1,1,2,2-tetrachloroethane	0.759	0.769	-1.3	102	0.00
67	T	Propylbenzene	0.402	0.428	-6.5	106	0.00
68	T	2-Chlorotoluene	0.368	0.394	-7.1	105	0.00
69	T	4-ethyltoluene	1.338	1.419	-6.1	106	0.00
70	T	1,3,5-trimethylbenzene	1.219	1.242	-1.9	100	0.00
71	T	1,2,4-trimethylbenzene	1.181	1.207	-2.2	99	0.00
72	T	1,3-dichlorobenzene	0.633	0.795	-25.6	134	0.00
73	T	benzyl chloride	0.617	0.746	-20.9	127	0.00
74	T	1,4-dichlorobenzene	0.567	0.754	-33.0#	148	0.00
75	T	1,2,3-trimethylbenzene	1.219	1.240	-1.7	99	0.00
76	T	1,2-dichlorobenzene	0.656	0.765	-16.6	118	0.00
77	T	1,2,4-trichlorobenzene	0.215	0.300	-39.5#	133	0.00
78	T	Naphthalene	0.652	0.807	-23.8	123	0.00
79	T	Hexachloro-1,3-butadiene	0.555	0.653	-17.7	114	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012002.D
Acq On : 20 Jan 2020 10:48 am
Sample : A1UG_1.0
Misc : A116_1UG
MS Integration Params: RTEINT.P
Quant Time: Jan 21 08:35:08 2020

Vial: 2
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 11:14:36 2020
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.93	128	51836	1.00	ppb		0.00
35) 1,4-difluorobenzene	12.21	114	250647	1.00	ppb		0.00
50) Chlorobenzene-d5	17.01	117	221226	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.76	95	149833	1.01	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery	= 101.00%			
Target Compounds							Qvalue
2) Propylene	4.23	41	33897	0.96	ppb		96
3) Freon 12	4.28	85	137891	1.02	ppb		97
4) Chloromethane	4.48	50	25010	0.79	ppb		97
5) Freon 114	4.49	85	95290	0.97	ppb		96
6) Vinyl Chloride	4.68	62	28552	0.86	ppb		98
7) Butane	4.79	43	27809	0.41	ppb		94
8) 1,3-butadiene	4.79	39	33453m	0.84	ppb		
9) Bromomethane	5.15	94	45661	0.83	ppb		93
10) Chloroethane	5.31	64	27298	0.93	ppb		94
11) Ethanol	5.42	45	18408	0.85	ppb		88
12) Acrolein	6.01	56	18474	0.85	ppb		97
13) Vinyl Bromide	5.66	106	61089	1.05	ppb		100
14) Freon 11	5.94	101	147670	1.03	ppb		98
15) Acetone	6.12	58	28591	0.95	ppb	#	100
16) Pentane	6.23	42	52714	0.84	ppb		92
17) Isopropyl alcohol	6.23	45	85337	0.89	ppb	#	86
18) 1,1-dichloroethene	6.72	96	62278	1.06	ppb	#	89
19) Freon 113	6.91	101	126675	1.05	ppb		98
20) t-Butyl alcohol	6.94	59	107536	0.89	ppb	#	90
21) Methylene chloride	7.17	84	53922	1.01	ppb		94
22) Allyl chloride	7.16	41	61031	0.80	ppb		90
23) Carbon disulfide	7.33	76	166989	0.99	ppb		99
24) trans-1,2-dichloroethene	8.12	61	79513	0.94	ppb		91
25) methyl tert-butyl ether	8.13	73	156661	0.93	ppb		85
26) 1,1-dichloroethane	8.55	63	98188	0.93	ppb		99
27) Vinyl acetate	8.53	43	105671	0.81	ppb		98
28) Methyl Ethyl Ketone	9.04	72	28126	0.98	ppb	#	100
29) cis-1,2-dichloroethene	9.48	61	74600	0.93	ppb		88
30) Hexane	9.09	57	91103	0.91	ppb		87
31) Ethyl acetate	9.63	43	111570	0.86	ppb		96
32) Chloroform	10.09	83	125340	1.00	ppb		97
33) Tetrahydrofuran	10.27	42	50839	0.86	ppb		93
34) 1,2-dichloroethane	11.20	62	70179	0.91	ppb		99
36) 1,1,1-trichloroethane	10.92	97	129027	1.00	ppb		98
37) Cyclohexane	11.63	56	88592	0.92	ppb		83
38) Carbon tetrachloride	11.57	117	133713	1.02	ppb		99
39) Benzene	11.53	78	184594	1.00	ppb		98
40) Methyl methacrylate	13.09	41	67784	0.84	ppb		88
41) 1,4-dioxane	13.12	88	37870	1.00	ppb		93
42) 2,2,4-trimethylpentane	12.39	57	269052	0.90	ppb		92
43) Heptane	12.73	43	90551	0.84	ppb		95
44) Trichloroethene	12.86	130	92701	1.19	ppb		97
45) 1,2-dichloropropane	12.97	63	66771	0.93	ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012002.D
Acq On : 20 Jan 2020 10:48 am
Sample : A1UG_1.0
Misc : A116_1UG
MS Integration Params: RTEINT.P
Quant Time: Jan 21 08:35:08 2020

Vial: 2
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 11:14:36 2020
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	Bromodichloromethane	13.30	83	131187	0.98	ppb		99
47)	cis-1,3-dichloropropene	14.12	75	111013	0.99	ppb		98
48)	trans-1,3-dichloropropene	14.89	75	94032	0.99	ppb		94
49)	1,1,2-trichloroethane	15.22	97	80789	1.05	ppb		99
51)	Toluene	14.97	92	135950	1.01	ppb		97
52)	Methyl Isobutyl Ketone	14.03	43	111587	0.81	ppb		94
53)	Dibromochloromethane	15.95	129	143292	1.03	ppb		99
54)	Methyl Butyl Ketone	15.40	43	95676	0.91	ppb		87
55)	1,2-dibromoethane	16.22	107	126111	1.07	ppb		98
56)	Tetrachloroethylene	16.04	164	95572	1.09	ppb		97
57)	Chlorobenzene	17.07	112	188500	1.07	ppb		97
58)	Ethylbenzene	17.34	91	294006	0.99	ppb		97
59)	m&p-xylene	17.52	91	453490	1.99	ppb		96
60)	Nonane	17.95	43	133284	0.83	ppb		93
61)	Styrene	18.01	104	176292	1.04	ppb		90
62)	Bromoform	18.13	173	130371	1.00	ppb		100
63)	o-xylene	18.05	91	232475	0.99	ppb		95
64)	Cumene	18.64	105	340311	1.03	ppb		97
66)	1,1,2,2-tetrachloroethane	18.52	83	170097	1.01	ppb		100
67)	Propylbenzene	19.23	120	94705	1.06	ppb		83
68)	2-Chlorotoluene	19.27	126	87256	1.07	ppb	#	88
69)	4-ethyltoluene	19.41	105	313869	1.06	ppb		98
70)	1,3,5-trimethylbenzene	19.47	105	274730	1.02	ppb		97
71)	1,2,4-trimethylbenzene	19.97	105	267114	1.02	ppb		96
72)	1,3-dichlorobenzene	20.29	146	175958	1.26	ppb		99
73)	benzyl chloride	20.37	91	165041	1.21	ppb		99
74)	1,4-dichlorobenzene	20.44	146	166817	1.33	ppb		97
75)	1,2,3-trimethylbenzene	20.49	105	274318	1.02	ppb		98
76)	1,2-dichlorobenzene	20.80	146	169194	1.17	ppb		98
77)	1,2,4-trichlorobenzene	22.96	180	66296m	1.39	ppb		
78)	Naphthalene	23.17	128	178428	1.24	ppb		98
79)	Hexachloro-1,3-butadiene	23.30	225	144561	1.18	ppb		91

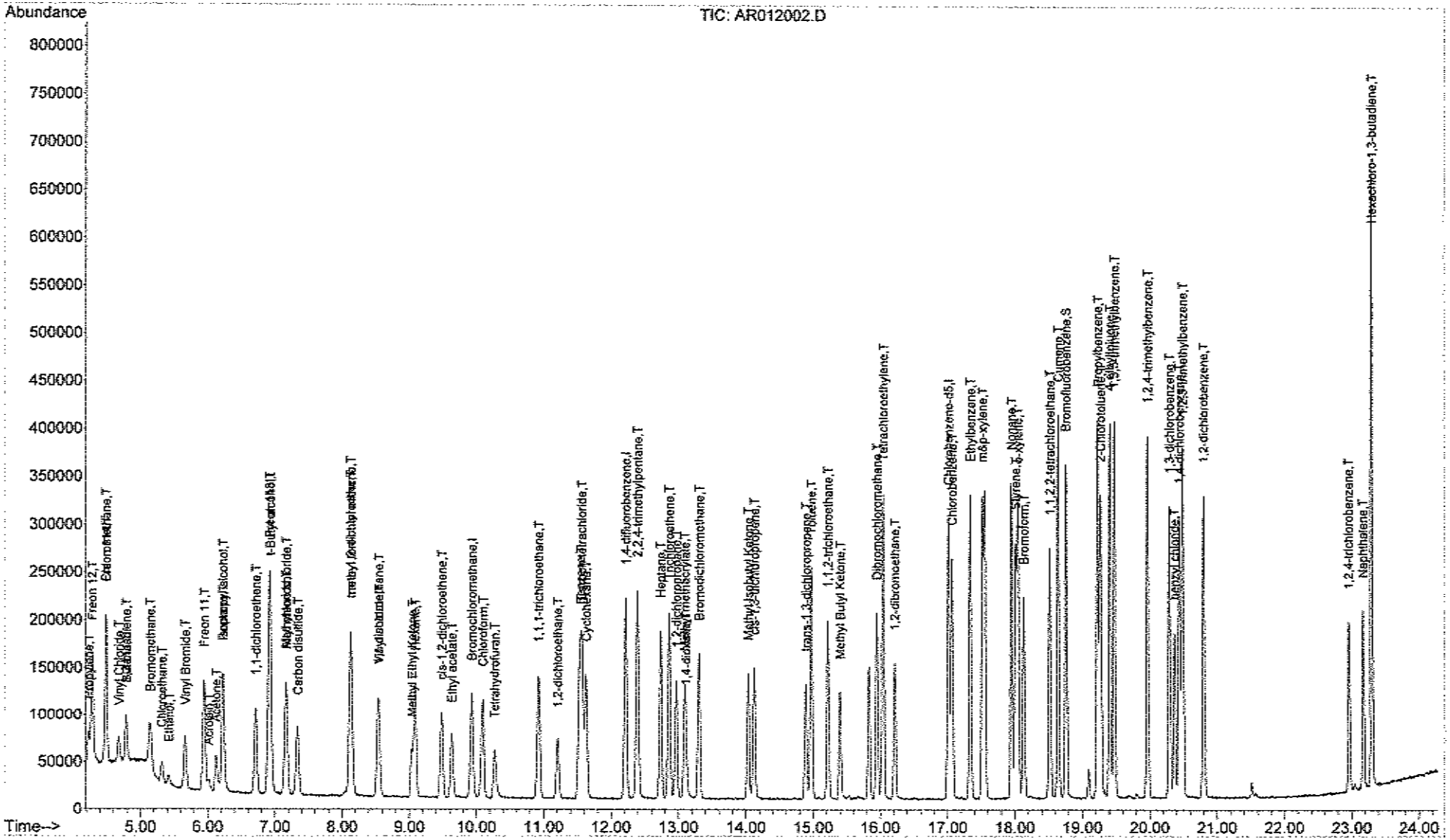
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012002.D
Acq On : 20 Jan 2020 10:48 am
Sample : A1UG_1.0
Misc : A116_1UG
MS Integration Params: RTEINT.P
Quant Time: Jan 21 9:08 2020

Vial: 2
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A116_1UG.RES

Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 05 10:00:22 2020
Response via : Initial Calibration



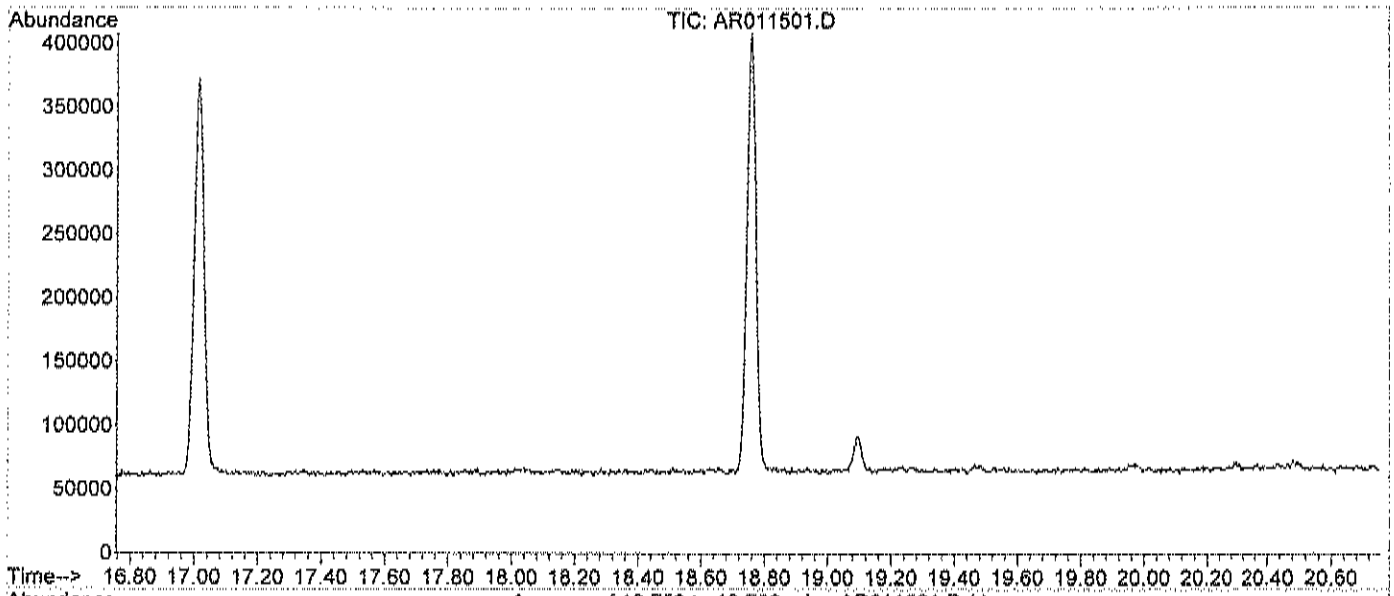
GC/MS VOLATILES-WHOLE AIR

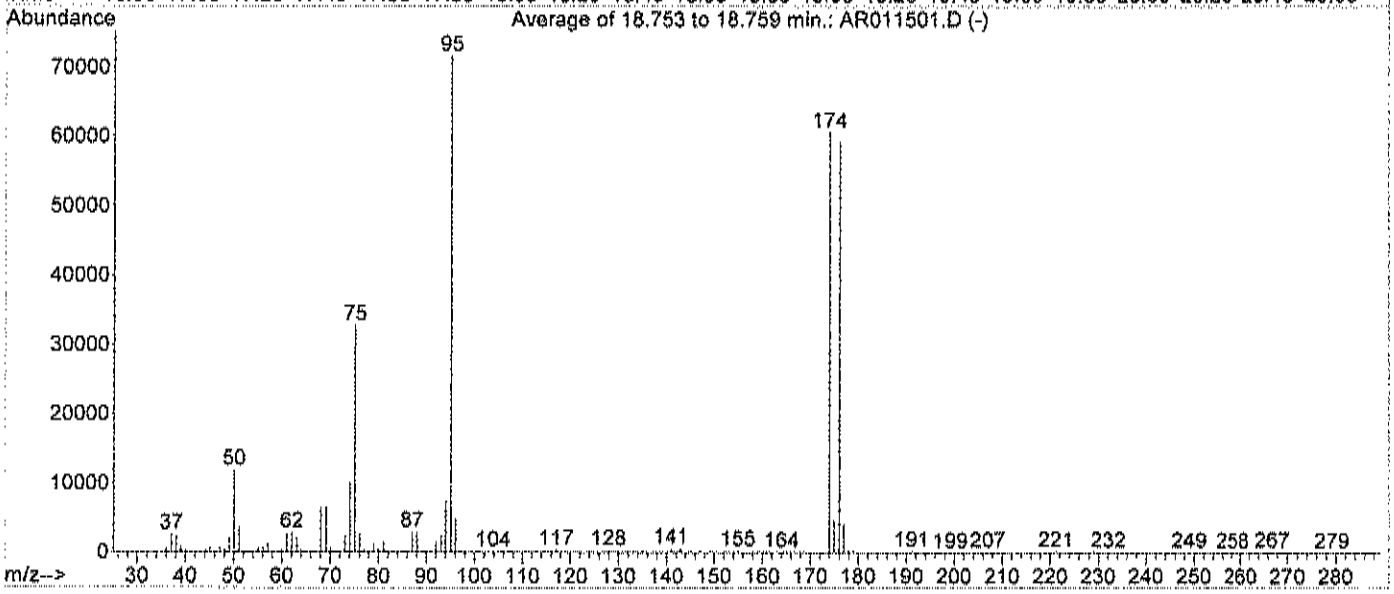
METHOD TO-15

RAW DATA

BFB

Data File : C:\HPCHEM\1\DATA\AR011501.D Vial: 1
Acq On : 16 Jan 2020 7:48 pm Operator: RJP
Sample : BFB1UG Inst : MSD #1
Misc : A114_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration





Spectrum Information: Average of 18.753 to 18.759 min.

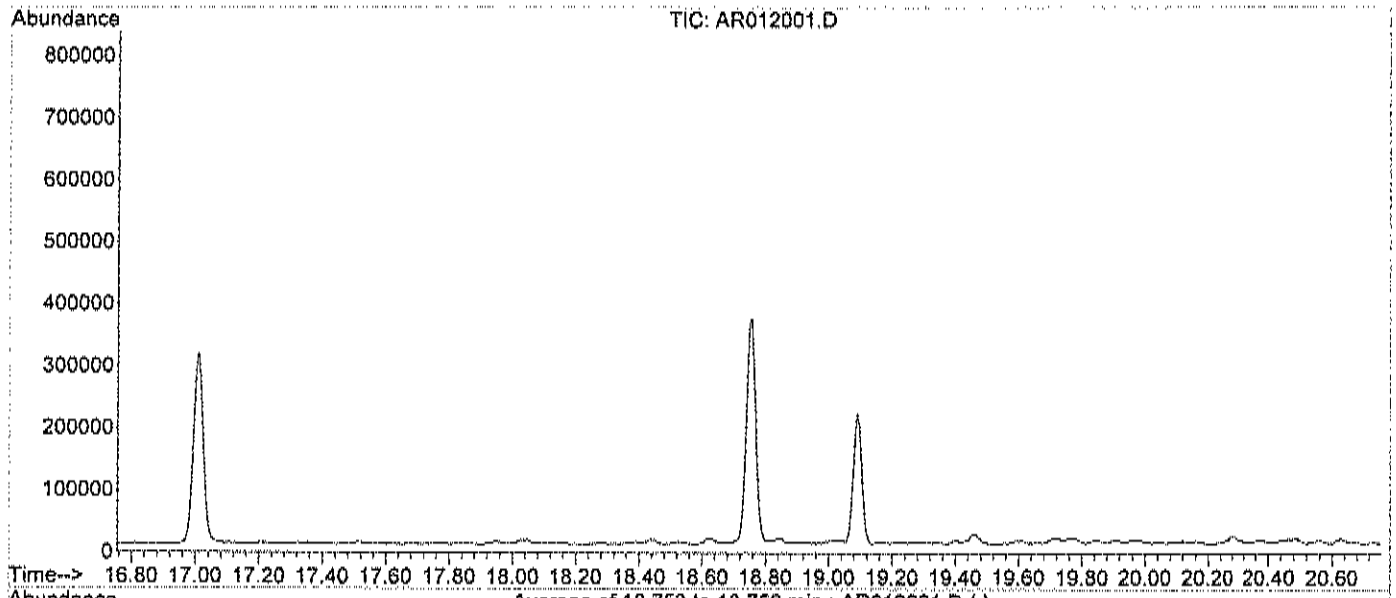
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.6	11893	PASS
75	95	30	66	45.8	32824	PASS
95	95	100	100	100.0	71688	PASS
96	95	5	9	6.9	4913	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	84.7	60690	PASS
175	174	4	9	7.8	4730	PASS
176	174	95	101	97.8	59371	PASS
177	176	5	9	7.0	4178	PASS

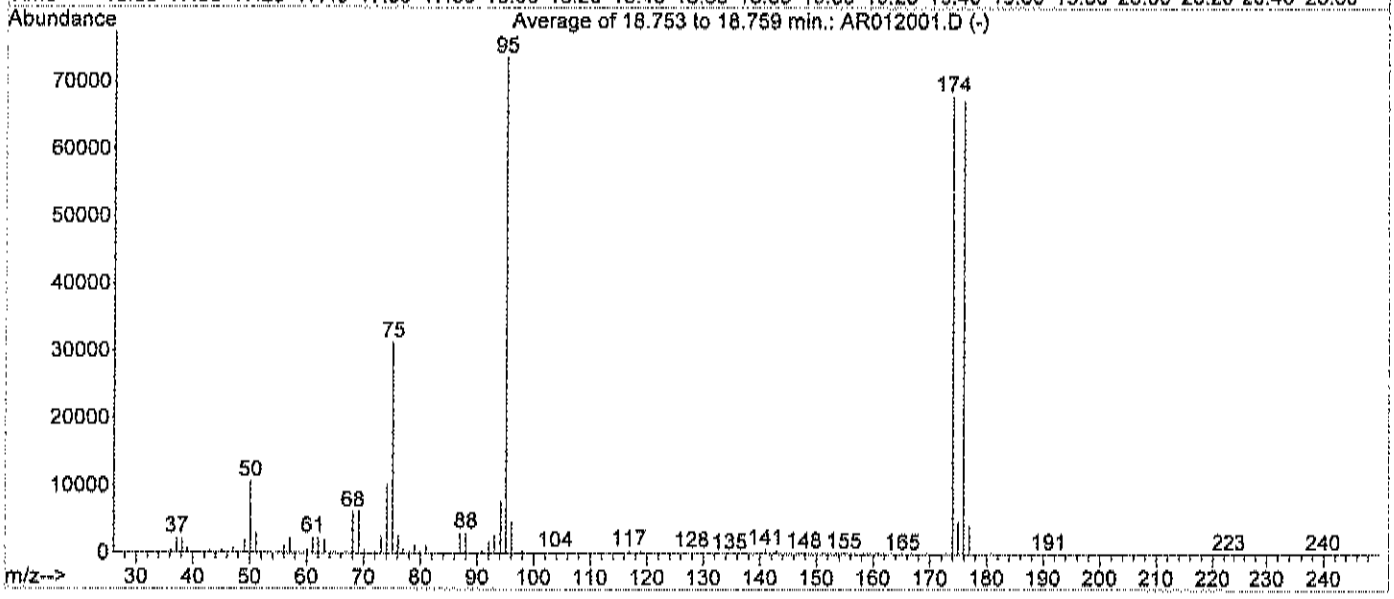
AR011501.D A116_1UG.M Wed Feb 05 10:11:26 2020 MSD1

BFB

Data File : C:\HPCHEM\1\DATA\AR012001.D
Acq On : 20 Jan 2020 10:01 am
Sample : BFB1UG
Misc : A116_1UG
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A116_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 18.753 to 18.759 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	14.4	10650	PASS
75	95	30	66	42.5	31315	PASS
95	95	100	100	100.0	73743	PASS
96	95	5	9	6.4	4702	PASS
173	174	0.00	2	0.3	178	PASS
174	95	50	120	92.4	68104	PASS
175	174	4	9	7.0	4736	PASS
176	174	95	101	98.8	67317	PASS
177	176	5	9	6.2	4193	PASS

AR012001.D A116_1UG.M Wed Feb 05 10:13:11 2020 MSD1

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW QC DATA

Date: *05-Feb-20*

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: Matrix Environmental Technologies, Inc
Work Order: C2001030
Project: Aquino Lake Ave Apts

TestCode: 0.20_NYS

Sample ID: **AMB1UG-012020** SampType: **MBLK** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **15921**
Client ID: **ZZZZZ** Batch ID: **R15921** TestNo: **TO-15** Analysis Date: **1/20/2020** SeqNo: **181775**

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
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
DL Detection Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: Matrix Environmental Technologies, Inc
Work Order: C2001030
Project: Aquino Lake Ave Apts

TestCode: 0.20_NYS

Sample ID: AMB1UG-012020	SampType: MBLK	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 15921
Client ID: ZZZZZ	Batch ID: R15921	TestNo: TO-15		Analysis Date: 1/20/2020	SeqNo: 181775

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	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	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	DL	Detection Limit		

Centek Laboratories, LLC

CLIENT: Matrix Environmental Technologies, Inc
Work Order: C2001030
Project: Aquino Lake Ave Apts

TestCode: 0.20_NYS

Sample ID: AMB1UG-012020 SampType: MBLK TestCode: 0.20_NYS Units: ppbV Prep Date: RunNo: 15921
Client ID: ZZZZZ Batch ID: R15921 TestNo: TO-15 Analysis Date: 1/20/2020 SeqNo: 181775

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									

Qualifiers:

.	Results reported are not blank corrected	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	DL	Detection Limit		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012004.D Vial: 4
Acq On : 20 Jan 2020 12:39 pm Operator: RJP
Sample : AMB1UG-012020 Inst : MSD #1
Misc : A116_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 21 08:35:10 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 11:14:36 2020
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	9.93	128	49286	1.00 ppb	0.00
35) 1,4-difluorobenzene	12.21	114	235568	1.00 ppb	0.00
50) Chlorobenzene-d5	17.01	117	203879	1.00 ppb	0.00
System Monitoring Compounds					
65) Bromofluorobenzene	18.76	95	132382	0.97 ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97.00%		

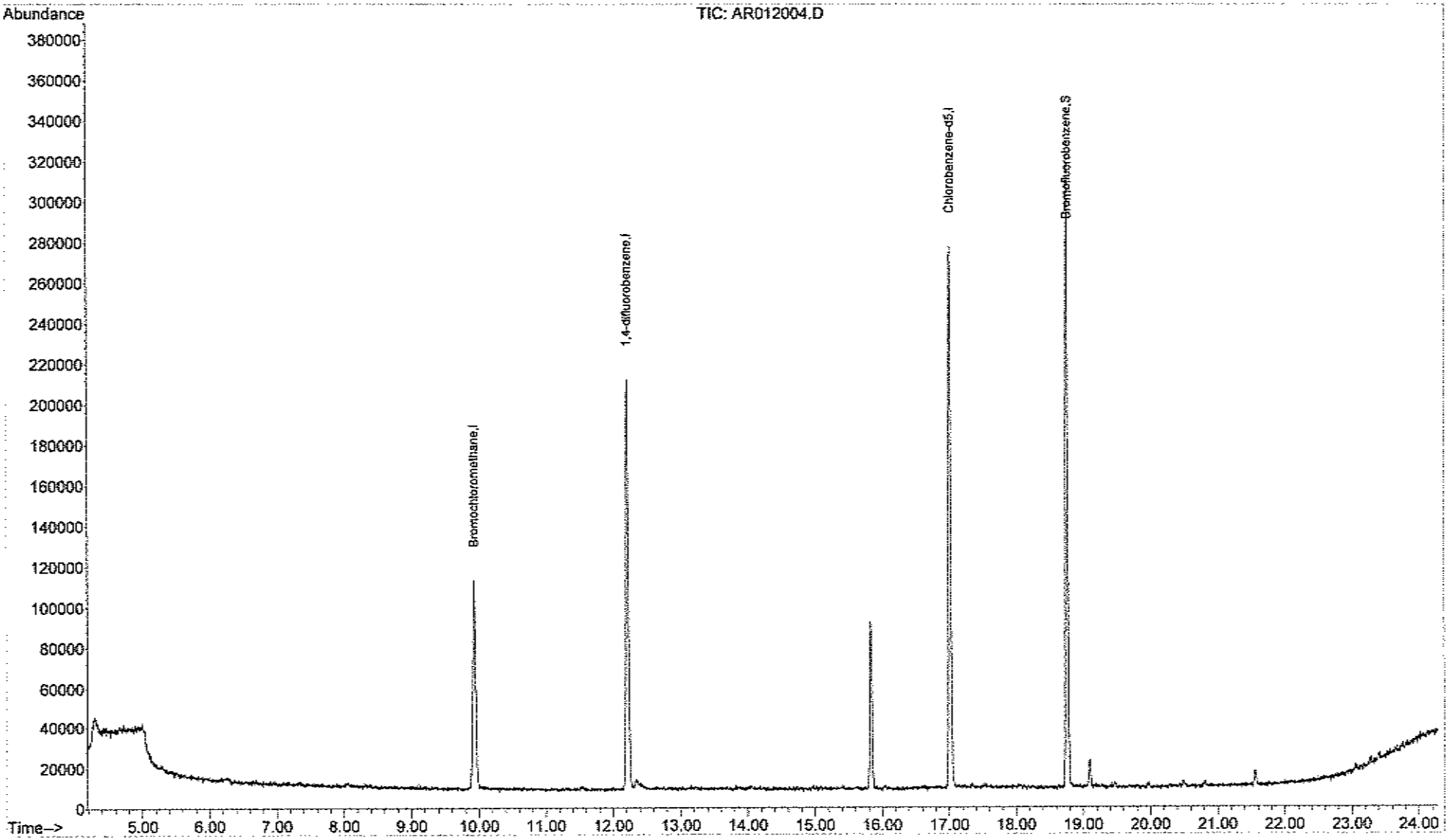
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012004.D Vial: 4
Acq On : 20 Jan 2020 12:39 pm Operator: RJP
Sample : AMB1UG-012020 Inst : MSD #1
Misc : A116_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 21 9:09 2020 Quant Results File: A116_1UG.RES

Method : C:\HPCHEM\1\METHODS\A124_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Feb 10 14:09:25 2020
Response via : Initial Calibration



AR012004.D A124_1UG.M Wed Feb 12 14:29:36 2020 MSD1 Page 2

CENTEK LABORATORIES, LLC

Date: *05-Feb-20*

ANALYTICAL QC SUMMARY REPORT

CLIENT: Matrix Environmental Technologies, Inc
Work Order: C2001030
Project: Aquino Lake Ave Apts

TestCode: 0.20_NYS

Sample ID: **ALCS1UG-012020** SampType: **LCS** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **15921**
Client ID: **ZZZZZ** Batch ID: **R15921** TestNo: **TO-15** Analysis Date: **1/20/2020** SeqNo: **181776**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.000	0.15	1	0	100	70	130				
1,1,2,2-Tetrachloroethane	1.010	0.15	1	0	101	70	130				
1,1,2-Trichloroethane	1.040	0.15	1	0	104	70	130				
1,1-Dichloroethane	0.9100	0.15	1	0	91.0	70	130				
1,1-Dichloroethene	1.020	0.040	1	0	102	70	130				
1,2,4-Trichlorobenzene	1.620	0.15	1	0	162	70	130				S
1,2,4-Trimethylbenzene	1.020	0.15	1	0	102	70	130				
1,2-Dibromoethane	1.060	0.15	1	0	106	70	130				
1,2-Dichlorobenzene	1.180	0.15	1	0	118	70	130				
1,2-Dichloroethane	0.8900	0.15	1	0	89.0	70	130				
1,2-Dichloropropane	0.9300	0.15	1	0	93.0	70	130				
1,3,5-Trimethylbenzene	1.010	0.15	1	0	101	70	130				
1,3-butadiene	0.7400	0.15	1	0	74.0	70	130				
1,3-Dichlorobenzene	1.270	0.15	1	0	127	70	130				
1,4-Dichlorobenzene	1.290	0.15	1	0	129	70	130				
1,4-Dioxane	1.000	0.30	1	0	100	70	130				
2,2,4-trimethylpentane	0.9000	0.15	1	0	90.0	70	130				
4-ethyltoluene	1.060	0.15	1	0	106	70	130				
Acetone	0.9100	0.30	1	0	91.0	70	130				
Allyl chloride	0.8000	0.15	1	0	80.0	70	130				
Benzene	1.000	0.15	1	0	100	70	130				
Benzyl chloride	1.210	0.15	1	0	121	70	130				
Bromodichloromethane	0.9600	0.15	1	0	96.0	70	130				
Bromoform	0.9800	0.15	1	0	98.0	70	130				
Bromomethane	0.7900	0.15	1	0	79.0	70	130				

Qualifiers:
. Results reported are not blank corrected
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
DL Detection Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: Matrix Environmental Technologies, Inc
Work Order: C2001030
Project: Aquino Lake Ave Apts

TestCode: 0.20_NYS

Sample ID: ALCS1UG-012020 SampType: LCS TestCode: 0.20_NYS Units: ppbV Prep Date: RunNo: 15921
Client ID: ZZZZZ Batch ID: R15921 TestNo: TO-15 Analysis Date: 1/20/2020 SeqNo: 181776

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.9600	0.15	1	0	96.0	70	130				
Carbon tetrachloride	1.000	0.030	1	0	100	70	130				
Chlorobenzene	1.040	0.15	1	0	104	70	130				
Chloroethane	0.5100	0.15	1	0	51.0	70	130				S
Chloroform	0.9600	0.15	1	0	96.0	70	130				
Chloromethane	0.8000	0.15	1	0	80.0	70	130				
cis-1,2-Dichloroethene	0.9100	0.040	1	0	91.0	70	130				
cis-1,3-Dichloropropene	0.9800	0.15	1	0	98.0	70	130				
Cyclohexane	0.9000	0.15	1	0	90.0	70	130				
Dibromochloromethane	1.000	0.15	1	0	100	70	130				
Ethyl acetate	0.8500	0.15	1	0	85.0	70	130				
Ethylbenzene	0.9800	0.15	1	0	98.0	70	130				
Freon 11	1.010	0.15	1	0	101	70	130				
Freon 113	1.020	0.15	1	0	102	70	130				
Freon 114	0.9700	0.15	1	0	97.0	70	130				
Freon 12	0.9900	0.15	1	0	99.0	70	130				
Heptane	0.8500	0.15	1	0	85.0	70	130				
Hexachloro-1,3-butadiene	1.170	0.15	1	0	117	70	130				
Hexane	0.8900	0.15	1	0	89.0	70	130				
Isopropyl alcohol	0.8600	0.15	1	0	86.0	70	130				
m&p-Xylene	1.970	0.30	2	0	98.5	70	130				
Methyl Butyl Ketone	0.9100	0.30	1	0	91.0	70	130				
Methyl Ethyl Ketone	0.9500	0.30	1	0	95.0	70	130				
Methyl Isobutyl Ketone	0.8400	0.30	1	0	84.0	70	130				
Methyl tert-butyl ether	0.9100	0.15	1	0	91.0	70	130				
Methylene chloride	0.9800	0.15	1	0	98.0	70	130				
o-Xylene	0.9800	0.15	1	0	98.0	70	130				
Propylene	1.000	0.15	1	0	100	70	130				
Styrene	1.030	0.15	1	0	103	70	130				
Tetrachloroethylene	1.080	0.15	1	0	108	70	130				
Tetrahydrofuran	0.8300	0.15	1	0	83.0	70	130				

Qualifiers:
. Results reported are not blank corrected
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
DL Detection Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: Matrix Environmental Technologies, Inc
Work Order: C2001030
Project: Aquino Lake Ave Apts

TestCode: 0.20_NYS

Sample ID: **ALCS1UG-012020** SampType: **LCS** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **15921**
Client ID: **ZZZZZ** Batch ID: **R15921** TestNo: **TO-15** Analysis Date: **1/20/2020** SeqNo: **181776**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.9800	0.15	1	0	98.0	70	130				
trans-1,2-Dichloroethene	0.9100	0.15	1	0	91.0	70	130				
trans-1,3-Dichloropropene	0.9600	0.15	1	0	96.0	70	130				
Trichloroethene	1.160	0.030	1	0	116	70	130				
Vinyl acetate	0.7900	0.15	1	0	79.0	70	130				
Vinyl Bromide	1.020	0.15	1	0	102	70	130				
Vinyl chloride	0.8100	0.040	1	0	81.0	70	130				

Sample ID: **ALSC1UGD-012020** SampType: **LCSD** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **15921**
Client ID: **ZZZZZ** Batch ID: **R15921** TestNo: **TO-15** Analysis Date: **1/21/2020** SeqNo: **181777**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.9600	0.15	1	0	96.0	70	130	1	4.08	30	
1,1,2,2-Tetrachloroethane	0.9900	0.15	1	0	99.0	70	130	1.01	2.00	30	
1,1,2-Trichloroethane	1.050	0.15	1	0	105	70	130	1.04	0.957	30	
1,1-Dichloroethane	0.9200	0.15	1	0	92.0	70	130	0.91	1.09	30	
1,1-Dichloroethene	1.050	0.040	1	0	105	70	130	1.02	2.90	30	
1,2,4-Trichlorobenzene	1.520	0.15	1	0	152	70	130	1.62	6.37	30	S
1,2,4-Trimethylbenzene	1.020	0.15	1	0	102	70	130	1.02	0	30	
1,2-Dibromoethane	1.060	0.15	1	0	106	70	130	1.06	0	30	
1,2-Dichlorobenzene	1.180	0.15	1	0	118	70	130	1.18	0	30	
1,2-Dichloroethane	0.9100	0.15	1	0	91.0	70	130	0.89	2.22	30	
1,2-Dichloropropane	0.9300	0.15	1	0	93.0	70	130	0.93	0	30	
1,3,5-Trimethylbenzene	1.010	0.15	1	0	101	70	130	1.01	0	30	
1,3-butadiene	0.7600	0.15	1	0	76.0	70	130	0.74	2.67	30	
1,3-Dichlorobenzene	1.250	0.15	1	0	125	70	130	1.27	1.59	30	
1,4-Dichlorobenzene	1.290	0.15	1	0	129	70	130	1.29	0	30	
1,4-Dioxane	1.000	0.30	1	0	100	70	130	1	0	30	
2,2,4-trimethylpentane	0.9100	0.15	1	0	91.0	70	130	0.9	1.10	30	
4-ethyltoluene	1.070	0.15	1	0	107	70	130	1.06	0.939	30	

Qualifiers:
. Results reported are not blank corrected
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
DL Detection Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek Laboratories, LLC

CLIENT: Matrix Environmental Technologies, Inc
Work Order: C2001030
Project: Aquino Lake Ave Apts

TestCode: 0.20_NYS

Sample ID: **ALSC1UGD-012020** SampType: **LCSD** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **15921**
Client ID: **ZZZZZ** Batch ID: **R15921** TestNo: **TO-15** Analysis Date: **1/21/2020** SeqNo: **181777**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	1.020	0.30	1	0	102	70	130	0.91	11.4	30	
Allyl chloride	0.8000	0.15	1	0	80.0	70	130	0.8	0	30	
Benzene	0.9900	0.15	1	0	99.0	70	130	1	1.01	30	
Benzyl chloride	0.9800	0.15	1	0	98.0	70	130	1.21	21.0	30	
Bromodichloromethane	0.9100	0.15	1	0	91.0	70	130	0.96	5.35	30	
Bromoform	0.7800	0.15	1	0	78.0	70	130	0.98	22.7	30	
Bromomethane	0.7200	0.15	1	0	72.0	70	130	0.79	9.27	30	
Carbon disulfide	0.9500	0.15	1	0	95.0	70	130	0.96	1.05	30	
Carbon tetrachloride	0.8600	0.030	1	0	86.0	70	130	1	15.1	30	
Chlorobenzene	1.070	0.15	1	0	107	70	130	1.04	2.84	30	
Chloroethane	0.8700	0.15	1	0	87.0	70	130	0.51	52.2	30	R
Chloroform	0.9900	0.15	1	0	99.0	70	130	0.96	3.08	30	
Chloromethane	0.7400	0.15	1	0	74.0	70	130	0.8	7.79	30	
cis-1,2-Dichloroethene	0.9300	0.040	1	0	93.0	70	130	0.91	2.17	30	
cis-1,3-Dichloropropene	0.9600	0.15	1	0	96.0	70	130	0.98	2.06	30	
Cyclohexane	0.9000	0.15	1	0	90.0	70	130	0.9	0	30	
Dibromochloromethane	0.8800	0.15	1	0	88.0	70	130	1	12.8	30	
Ethyl acetate	0.8400	0.15	1	0	84.0	70	130	0.85	1.18	30	
Ethylbenzene	1.000	0.15	1	0	100	70	130	0.98	2.02	30	
Freon 11	1.020	0.15	1	0	102	70	130	1.01	0.985	30	
Freon 113	1.040	0.15	1	0	104	70	130	1.02	1.94	30	
Freon 114	0.9200	0.15	1	0	92.0	70	130	0.97	5.29	30	
Freon 12	0.9600	0.15	1	0	96.0	70	130	0.99	3.08	30	
Heptane	0.8700	0.15	1	0	87.0	70	130	0.85	2.33	30	
Hexachloro-1,3-butadiene	1.180	0.15	1	0	118	70	130	1.17	0.851	30	
Hexane	0.9100	0.15	1	0	91.0	70	130	0.89	2.22	30	
Isopropyl alcohol	0.8000	0.15	1	0	80.0	70	130	0.86	7.23	30	
m&p-Xylene	2.000	0.30	2	0	100	70	130	1.97	1.51	30	
Methyl Butyl Ketone	0.9200	0.30	1	0	92.0	70	130	0.91	1.09	30	
Methyl Ethyl Ketone	0.9900	0.30	1	0	99.0	70	130	0.95	4.12	30	
Methyl Isobutyl Ketone	0.8400	0.30	1	0	84.0	70	130	0.84	0	30	

Qualifiers:
. Results reported are not blank corrected
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
DL Detection Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek Laboratories, LLC

CLIENT: Matrix Environmental Technologies, Inc
Work Order: C2001030
Project: Aquino Lake Ave Apts

TestCode: 0.20_NYS

Sample ID: **ALSC1UGD-012020** SampType: **LCSD** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **15921**
Client ID: **ZZZZZ** Batch ID: **R15921** TestNo: **TO-15** Analysis Date: **1/21/2020** SeqNo: **181777**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.9200	0.15	1	0	92.0	70	130	0.91	1.09	30	
Methylene chloride	0.9900	0.15	1	0	99.0	70	130	0.98	1.02	30	
o-Xylene	1.000	0.15	1	0	100	70	130	0.98	2.02	30	
Propylene	0.9400	0.15	1	0	94.0	70	130	1	6.19	30	
Styrene	1.050	0.15	1	0	105	70	130	1.03	1.92	30	
Tetrachloroethylene	1.110	0.15	1	0	111	70	130	1.08	2.74	30	
Tetrahydrofuran	0.8400	0.15	1	0	84.0	70	130	0.83	1.20	30	
Toluene	1.000	0.15	1	0	100	70	130	0.98	2.02	30	
trans-1,2-Dichloroethene	0.9300	0.15	1	0	93.0	70	130	0.91	2.17	30	
trans-1,3-Dichloropropene	0.9200	0.15	1	0	92.0	70	130	0.96	4.26	30	
Trichloroethene	1.180	0.030	1	0	118	70	130	1.16	1.71	30	
Vinyl acetate	0.7400	0.15	1	0	74.0	70	130	0.79	6.54	30	
Vinyl Bromide	1.020	0.15	1	0	102	70	130	1.02	0	30	
Vinyl chloride	0.7700	0.040	1	0	77.0	70	130	0.81	5.06	30	

Qualifiers:
. Results reported are not blank corrected
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
DL Detection Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012003.D Vial: 3
Acq On : 20 Jan 2020 11:57 am Operator: RJP
Sample : ALCS1UG-012020 Inst : MSD #1
Misc : A116_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 21 08:35:09 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 11:14:36 2020
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.93	128	50859	1.00	ppb		0.00
35) 1,4-difluorobenzene	12.22	114	240167	1.00	ppb		0.00
50) Chlorobenzene-d5	17.01	117	212617	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.76	95	144718	1.02	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery	=	102.00%		
Target Compounds							Qvalue
2) Propylene	4.24	41	34844	1.00	ppb		96
3) Freon 12	4.29	85	132500	0.99	ppb		99
4) Chloromethane	4.50	50	24818	0.80	ppb		99
5) Freon 114	4.50	85	93308	0.97	ppb		95
6) Vinyl Chloride	4.69	62	26307	0.81	ppb		95
7) Butane	4.80	43	27937	0.42	ppb		96
8) 1,3-butadiene	4.80	39	28768m	0.74	ppb		
9) Bromomethane	5.15	94	42684m	0.79	ppb		
10) Chloroethane	5.33	64	14635m	0.51	ppb		
11) Ethanol	5.43	45	23894m	1.12	ppb		
12) Acrolein	6.01	56	19024	0.89	ppb		91
13) Vinyl Bromide	5.67	106	58400	1.02	ppb		100
14) Freon 11	5.95	101	142321	1.01	ppb		98
15) Acetone	6.13	58	27029	0.91	ppb	#	100
16) Pentane	6.23	42	49473	0.81	ppb		92
17) Isopropyl alcohol	6.23	45	81021	0.86	ppb	#	85
18) 1,1-dichloroethene	6.72	96	58765	1.02	ppb		90
19) Freon 113	6.91	101	121035	1.02	ppb		99
20) t-Butyl alcohol	6.95	59	102036	0.86	ppb	#	86
21) Methylene chloride	7.17	84	51585	0.98	ppb		94
22) Allyl chloride	7.16	41	59562	0.80	ppb		93
23) Carbon disulfide	7.34	76	159624	0.96	ppb		99
24) trans-1,2-dichloroethene	8.12	61	75624	0.91	ppb		91
25) methyl tert-butyl ether	8.14	73	150856	0.91	ppb		86
26) 1,1-dichloroethane	8.55	63	94260	0.91	ppb		99
27) Vinyl acetate	8.53	43	101082	0.79	ppb		98
28) Methyl Ethyl Ketone	9.04	72	26766	0.95	ppb	#	100
29) cis-1,2-dichloroethene	9.49	61	71694	0.91	ppb		90
30) Hexane	9.09	57	87763	0.89	ppb		86
31) Ethyl acetate	9.64	43	108514	0.85	ppb		97
32) Chloroform	10.09	83	118283	0.96	ppb		98
33) Tetrahydrofuran	10.27	42	47980	0.83	ppb		93
34) 1,2-dichloroethane	11.21	62	67814	0.89	ppb		100
36) 1,1,1-trichloroethane	10.93	97	122548	1.00	ppb		98
37) Cyclohexane	11.63	56	83120	0.90	ppb		83
38) Carbon tetrachloride	11.57	117	125204	1.00	ppb		98
39) Benzene	11.53	78	175892	1.00	ppb		98
40) Methyl methacrylate	13.09	41	66369	0.86	ppb		91
41) 1,4-dioxane	13.12	88	36111	1.00	ppb		92
42) 2,2,4-trimethylpentane	12.39	57	256637	0.90	ppb		91
43) Heptane	12.74	43	88376	0.85	ppb		96
44) Trichloroethene	12.87	130	87023	1.16	ppb		98
45) 1,2-dichloropropane	12.97	63	64274	0.93	ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012003.D
Acq On : 20 Jan 2020 11:57 am
Sample : ALCS1UG-012020
Misc : A116_1UG
MS Integration Params: RTEINT.P
Quant Time: Jan 21 08:35:09 2020

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 11:14:36 2020
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
46)	Bromodichloromethane	13.31	83	123681	0.96 ppb		100
47)	cis-1,3-dichloropropene	14.12	75	104765	0.98 ppb		99
48)	trans-1,3-dichloropropene	14.89	75	87502	0.96 ppb		95
49)	1,1,2-trichloroethane	15.22	97	76925	1.04 ppb		100
51)	Toluene	14.97	92	126702	0.98 ppb		100
52)	Methyl Isobutyl Ketone	14.03	43	110110	0.84 ppb		95
53)	Dibromochloromethane	15.95	129	134167	1.00 ppb		99
54)	Methyl Butyl Ketone	15.40	43	92058	0.91 ppb		87
55)	1,2-dibromoethane	16.21	107	120141	1.06 ppb		99
56)	Tetrachloroethylene	16.04	164	91114	1.08 ppb		99
57)	Chlorobenzene	17.07	112	175975	1.04 ppb		98
58)	Ethylbenzene	17.34	91	279442	0.98 ppb		98
59)	m&p-xylene	17.55	91	430926	1.97 ppb		96
60)	Nonane	17.95	43	128491	0.83 ppb		93
61)	Styrene	18.01	104	168403	1.03 ppb		91
62)	Bromoform	18.13	173	121932	0.98 ppb		100
63)	o-xylene	18.05	91	221346	0.98 ppb		96
64)	Cumene	18.64	105	321825	1.01 ppb		98
66)	1,1,2,2-tetrachloroethane	18.52	83	162149	1.01 ppb		99
67)	Propylbenzene	19.23	120	90182	1.05 ppb		83
68)	2-Chlorotoluene	19.27	126	81676	1.04 ppb	#	83
69)	4-ethyltoluene	19.41	105	302198	1.06 ppb		99
70)	1,3,5-trimethylbenzene	19.47	105	261854	1.01 ppb		98
71)	1,2,4-trimethylbenzene	19.96	105	255816	1.02 ppb		98
72)	1,3-dichlorobenzene	20.29	146	170235	1.27 ppb		99
73)	benzyl chloride	20.37	91	159218	1.21 ppb		100
74)	1,4-dichlorobenzene	20.44	146	155964m	1.29 ppb		
75)	1,2,3-trimethylbenzene	20.49	105	260716	1.01 ppb		97
76)	1,2-dichlorobenzene	20.81	146	164700	1.18 ppb		98
77)	1,2,4-trichlorobenzene	23.05	180	74237	1.62 ppb		99
78)	Naphthalene	23.27	128	169891m	1.23 ppb		
79)	Hexachloro-1,3-butadiene	23.40	225	138104	1.17 ppb		92

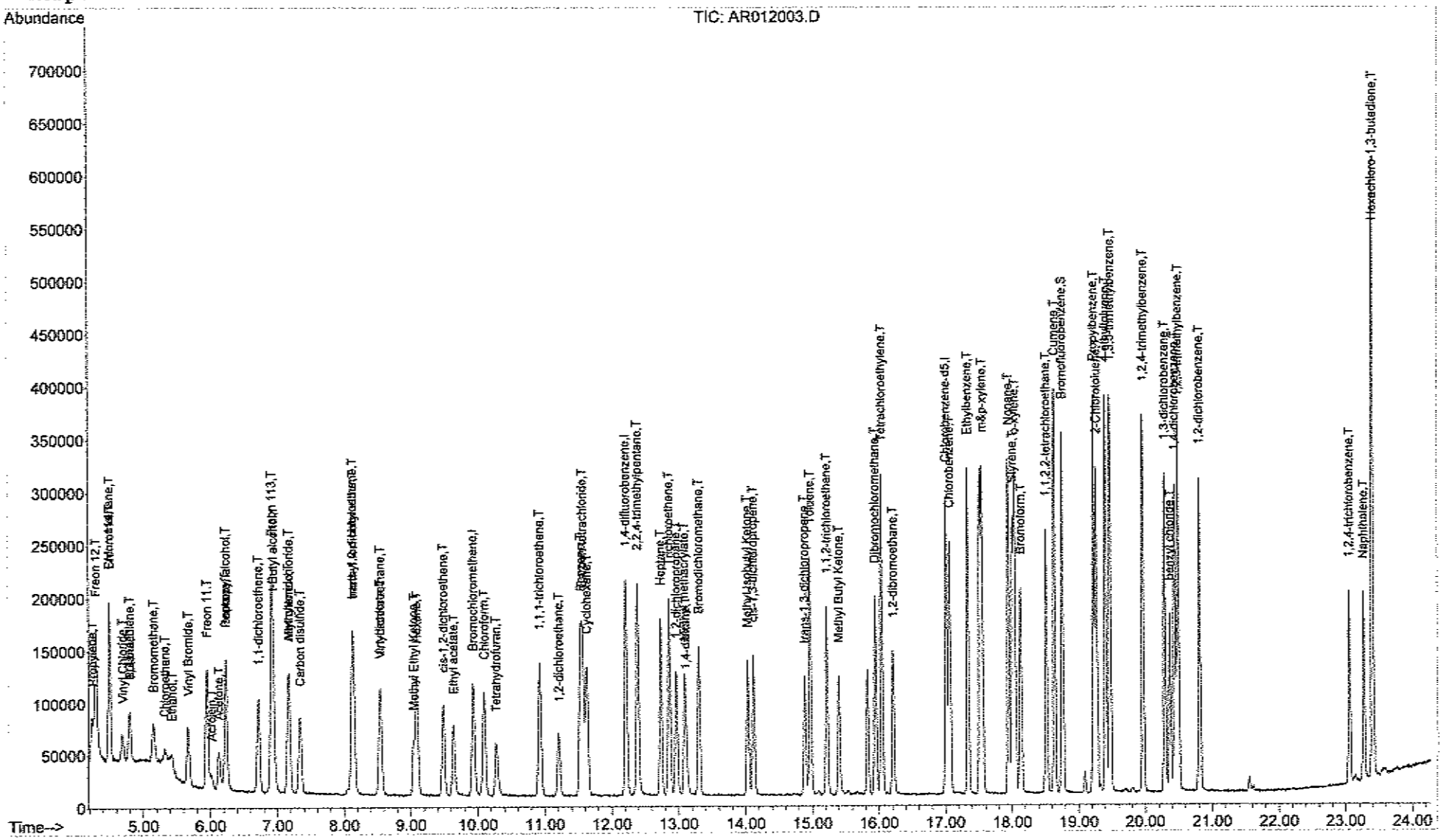
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012003.D
Acq On : 20 Jan 2020 11:57 am
Sample : ALCS1UG-012020
Misc : A116_1UG
MS Integration Params: RTEINT.P
Quant Time: Jan 21 9:09 2020

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A116_1UG.RES

Method : C:\HPCHEM\1\METHODS\A124_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Feb 10 14:09:25 2020
Response via : Initial Calibration



AR012003.D A124_1UG.M Wed Feb 12 14:29:54 2020 MSD1 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012019.D Vial: 19
Acq On : 21 Jan 2020 12:27 am Operator: RJP
Sample : ALSC1UGD-012020 Inst : MSD #1
Misc : A116_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 21 08:35:25 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 11:14:36 2020
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	9.93	128	47277	1.00 ppb	0.00
35) 1,4-difluorobenzene	12.22	114	225678	1.00 ppb	0.00
50) Chlorobenzene-d5	17.01	117	198991	1.00 ppb	0.00
System Monitoring Compounds					
65) Bromofluorobenzene	18.75	95	134623	1.01 ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery	= 101.00%	
Target Compounds					Qvalue
2) Propylene	4.24	41	30460	0.94 ppb	99
3) Freon 12	4.29	85	118997	0.96 ppb	97
4) Chloromethane	4.49	50	21186	0.74 ppb	94
5) Freon 114	4.49	85	82886	0.92 ppb	98
6) Vinyl Chloride	4.69	62	23192	0.77 ppb	99
7) Butane	4.79	43	22972	0.37 ppb	96
8) 1,3-butadiene	4.80	39	27379m	0.76 ppb	
9) Bromomethane	5.15	94	36164	0.72 ppb	94
10) Chloroethane	5.32	64	23136	0.87 ppb	98
11) Ethanol	5.43	45	15755	0.80 ppb	77
12) Acrolein	6.02	56	16919	0.85 ppb	97
13) Vinyl Bromide	5.67	106	54457	1.02 ppb	99
14) Freon 11	5.95	101	134198	1.02 ppb	99
15) Acetone	6.13	58	27990	1.02 ppb #	100
16) Pentane	6.23	42	46082	0.81 ppb	97
17) Isopropyl alcohol	6.23	45	70005	0.80 ppb	96
18) 1,1-dichloroethene	6.72	96	56260	1.05 ppb #	88
19) Freon 113	6.91	101	115192	1.04 ppb	98
20) t-Butyl alcohol	6.94	59	90290	0.82 ppb #	87
21) Methylene chloride	7.17	84	48158	0.99 ppb	94
22) Allyl chloride	7.17	41	55192	0.80 ppb	93
23) Carbon disulfide	7.34	76	147378	0.95 ppb	99
24) trans-1,2-dichloroethene	8.12	61	72204	0.93 ppb	93
25) methyl tert-butyl ether	8.14	73	141637	0.92 ppb	86
26) 1,1-dichloroethane	8.55	63	89024	0.92 ppb	100
27) Vinyl acetate	8.53	43	87810m	0.74 ppb	
28) Methyl Ethyl Ketone	9.04	72	25935	0.99 ppb #	100
29) cis-1,2-dichloroethene	9.48	61	68225	0.93 ppb	91
30) Hexane	9.09	57	83435	0.91 ppb	86
31) Ethyl acetate	9.63	43	99657	0.84 ppb	97
32) Chloroform	10.09	83	112912	0.99 ppb	98
33) Tetrahydrofuran	10.28	42	45454	0.84 ppb	92
34) 1,2-dichloroethane	11.20	62	64582	0.91 ppb	100
36) 1,1,1-trichloroethane	10.93	97	111467	0.96 ppb	99
37) Cyclohexane	11.62	56	77658	0.90 ppb	83
38) Carbon tetrachloride	11.57	117	101945	0.86 ppb	98
39) Benzene	11.53	78	164172	0.99 ppb	97
40) Methyl methacrylate	13.09	41	59450	0.82 ppb	92
41) 1,4-dioxane	13.12	88	34034	1.00 ppb	95
42) 2,2,4-trimethylpentane	12.38	57	244757	0.91 ppb	91
43) Heptane	12.73	43	84570	0.87 ppb	97
44) Trichloroethene	12.86	130	82994	1.18 ppb	98
45) 1,2-dichloropropane	12.97	63	60196	0.93 ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012019.D Vial: 19
Acq On : 21 Jan 2020 12:27 am Operator: RJP
Sample : ALSC1UGD-012020 Inst : MSD #1
Misc : A116_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 21 08:35:25 2020 Quant Results File: A116_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A116_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 17 11:14:36 2020
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

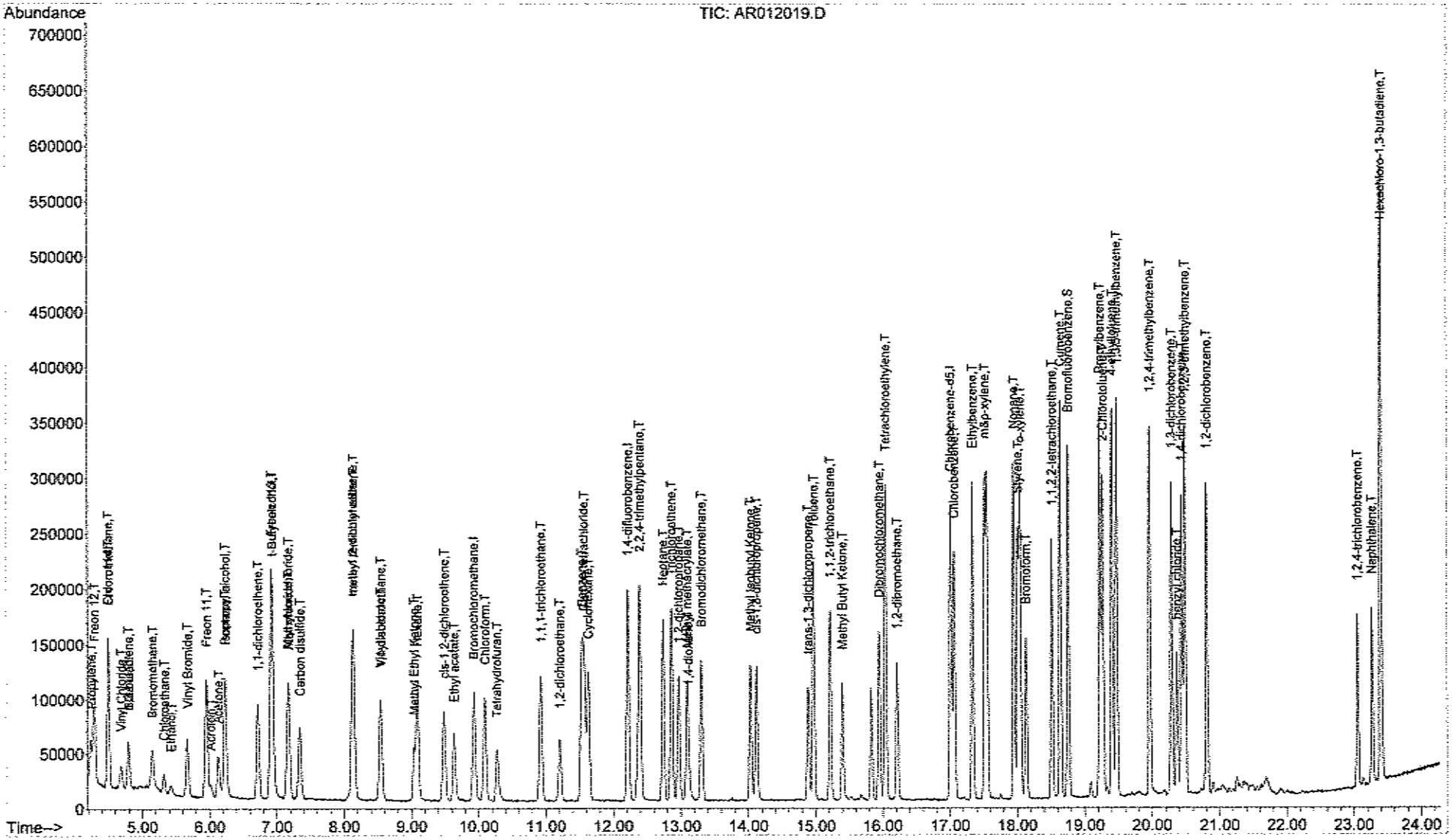
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	Bromodichloromethane	13.30	83	109584	0.91	ppb		100
47)	cis-1,3-dichloropropene	14.12	75	96230	0.96	ppb		99
48)	trans-1,3-dichloropropene	14.89	75	78902	0.92	ppb		94
49)	1,1,2-trichloroethane	15.21	97	72756	1.05	ppb		100
51)	Toluene	14.97	92	121263	1.00	ppb		99
52)	Methyl Isobutyl Ketone	14.03	43	103340	0.84	ppb		94
53)	Dibromochloromethane	15.95	129	110767	0.88	ppb		98
54)	Methyl Butyl Ketone	15.39	43	87051	0.92	ppb		88
55)	1,2-dibromoethane	16.21	107	112408	1.06	ppb		97
56)	Tetrachloroethylene	16.04	164	87639	1.11	ppb		100
57)	Chlorobenzene	17.06	112	169989	1.07	ppb		97
58)	Ethylbenzene	17.34	91	266111	1.00	ppb		98
59)	m&p-xylene	17.52	91	409205	2.00	ppb		96
60)	Nonane	17.95	43	120952	0.84	ppb		94
61)	Styrene	18.01	104	159924	1.05	ppb		91
62)	Bromoform	18.13	173	91200	0.78	ppb		99
63)	o-xylene	18.04	91	209883	1.00	ppb		94
64)	Cumene	18.64	105	303834	1.02	ppb		98
66)	1,1,2,2-tetrachloroethane	18.51	83	149435	0.99	ppb		99
67)	Propylbenzene	19.22	120	83531	1.04	ppb		86
68)	2-Chlorotoluene	19.27	126	78615	1.07	ppb	#	88
69)	4-ethyltoluene	19.40	105	283671	1.07	ppb		99
70)	1,3,5-trimethylbenzene	19.47	105	245842	1.01	ppb		96
71)	1,2,4-trimethylbenzene	19.96	105	239300	1.02	ppb		97
72)	1,3-dichlorobenzene	20.29	146	158021	1.25	ppb		99
73)	benzyl chloride	20.36	91	120390	0.98	ppb		99
74)	1,4-dichlorobenzene	20.44	146	145182m	1.29	ppb		
75)	1,2,3-trimethylbenzene	20.48	105	245768	1.01	ppb		97
76)	1,2-dichlorobenzene	20.80	146	153591	1.18	ppb		98
77)	1,2,4-trichlorobenzene	23.05	180	64908	1.52	ppb		99
78)	Naphthalene	23.27	128	156921	1.21	ppb		97
79)	Hexachloro-1,3-butadiene	23.40	225	129785	1.18	ppb		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AR012019.D Vial: 19
Acq On : 21 Jan 2020 12:27 am Operator: RJP
Sample : ALSC1UGD-012020 Inst : MSD #1
Misc : A116_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 21 9:10 2020 Quant Results File: A116_1UG.RES

Method : C:\HPCHEM\1\METHODS\A124_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Feb 10 14:09:25 2020
Response via : Initial Calibration



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INJECTION LOG

Injection Log

Directory: C:\HPCHEM\1\DATA2

Instrument # 1
Internal Standard Stock # A3582
Standard Stock # A3583
LCS Stock # A3584
Method Ref: EPA TO-15 / Jan. 1999

ne	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
21	13	Ar011717.d	1.	C2001022-003A 40X	A116_1UG	18 Jan 2020 00:36
22	14	Ar011718.d	1.	ALCS1UGD-011720	A116_1UG	18 Jan 2020 01:22
23		Ar011719.d	1.	No MS or GC data present		
24	1	Ar012001.d	1.	BFB1UG	A116_1UG	20 Jan 2020 10:01
25	2	Ar012002.d	1.	A1UG_1.0	A116_1UG	20 Jan 2020 10:48
26	3	Ar012003.d	1.	ALCS1UG-012020	A116_1UG	20 Jan 2020 11:57
27	4	Ar012004.d	1.	AMB1UG-012020	A116_1UG	20 Jan 2020 12:39
28	5	Ar012005.d	1.	C2001022-003A 2X	A116_1UG	20 Jan 2020 13:26
29	6	Ar012006.d	1.	C2001023-001A 90X	A116_1UG	20 Jan 2020 14:21
30	7	Ar012007.d	1.	C2001023-002A 90X	A116_1UG	20 Jan 2020 15:06
31	8	Ar012008.d	1.	C2001022-003A 180X	A116_1UG	20 Jan 2020 15:51
32	9	Ar012009.d	1.	C2001029-001A	A116_1UG	20 Jan 2020 16:38
33	10	Ar012010.d	1.	C2001030-001A	A116_1UG	20 Jan 2020 17:25
34	11	Ar012011.d	1.	C2001030-002A	A116_1UG	20 Jan 2020 18:12
35	12	Ar012012.d	1.	C2001030-003A	A116_1UG	20 Jan 2020 18:59
36	13	Ar012013.d	1.	C2001030-004A	A116_1UG	20 Jan 2020 19:46
37	14	Ar012014.d	1.	C2001030-005A	A116_1UG	20 Jan 2020 20:33
38	15	Ar012015.d	1.	C2001030-006A	A116_1UG	20 Jan 2020 21:20
39	16	Ar012016.d	1.	C2001030-007A	A116_1UG	20 Jan 2020 22:06
40	17	Ar012017.d	1.	C2001031-001A	A116_1UG	20 Jan 2020 22:53
41	18	Ar012018.d	1.	C2001031-002A	A116_1UG	20 Jan 2020 23:40
42	19	Ar012019.d	1.	ALSC1UGD-012020	A116_1UG	21 Jan 2020 00:27
43	20	Ar012020.d	1.	C2001029-001A 10x	A116_1UG	21 Jan 2020 01:12
44	21	Ar012021.d	1.	C2001029-001A 40x	A116_1UG	21 Jan 2020 01:57
45	22	Ar012022.d	1.	C2001030-002A 10x	A116_1UG	21 Jan 2020 02:43
46	23	Ar012023.d	1.	C2001030-003A 10x	A116_1UG	21 Jan 2020 03:28
47	24	Ar012024.d	1.	C2001030-004A 10x	A116_1UG	21 Jan 2020 04:14
48	25	Ar012025.d	1.	C2001030-004A 40x	A116_1UG	21 Jan 2020 04:59
49	26	Ar012026.d	1.	C2001030-005A 10x	A116_1UG	21 Jan 2020 05:44
50	27	Ar012027.d	1.	C2001030-006A 10x	A116_1UG	21 Jan 2020 06:30
51	28	Ar012028.d	1.	C2001030-007A 10x	A116_1UG	21 Jan 2020 07:15
52	29	Ar012029.d	1.	C2001031-001A 10x	A116_1UG	21 Jan 2020 08:01
53	30	Ar012030.d	1.	C2001031-001A 40x	A116_1UG	21 Jan 2020 08:45
54	30	Ar012031.d	1.	C2001031-002A 9x	A116_1UG	21 Jan 2020 09:32
55	32	Ar012032.d	1.	C2001031-002A 90x	A116_1UG	21 Jan 2020 10:18
56	33	Ar012033.d	1.	C2001029-001A 270x	A116_1UG	21 Jan 2020 11:03
57	1	Ar012201.d	1.	BFB1UG	A116_1UG	22 Jan 2020 10:29
58	2	Ar012202.d	1.	A1UG_1.0	A116_1UG	22 Jan 2020 11:30
59	3	Ar012203.d	1.	ALCS1UG-012220	A116_1UG	22 Jan 2020 12:34
60	4	Ar012204.d	1.	AMB1UG-012220	A116_1UG	22 Jan 2020 13:16
61	5	Ar012205.d	1.	C2001031-002A 180X	A116_1UG	22 Jan 2020 14:34
62	6	Ar012206.d	1.	C2001035-001A	A116_1UG	22 Jan 2020 15:39
63	7	Ar012207.d	1.	C2001035	A116_1UG-001A 10X	22 Jan 2020 16:25
64	8	Ar012208.d	1.	C2001032-001A 10X	A116_1UG	22 Jan 2020 17:10
65	9	Ar012209.d	1.	C2001032-002A 10X	A116_1UG	22 Jan 2020 17:56
66	10	Ar012210.d	1.	C2001032-003A 10X	A116_1UG	22 Jan 2020 18:41
67	7	Ar012211.d	1.	C2001035-001A 40X	A116_1UG	22 Jan 2020 21:48
68	8	Ar012212.d	1.	C2001032-001A	A116_1UG	22 Jan 2020 22:35
69	9	Ar012213.d	1.	C2001032-002A	A116_1UG	22 Jan 2020 23:22
70	10	Ar012214.d	1.	C2001032-003A	A116_1UG	23 Jan 2020 00:09
71		Ar012215.d	1.	No MS or GC data present		
72	1	Ar012301.d	1.	BFB1UG	A116_1UG	23 Jan 2020 09:02
73	2	Ar012302.d	1.	A1UG	A116_1UG	23 Jan 2020 10:00
74	3	Ar012303.d	1.	ALCS1UG-012320	A116_1UG	23 Jan 2020 10:52
75	4	Ar012304.d	1.	AMB1UG-012320	A116_1UG	23 Jan 2020 11:34

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-2311	12/08/17	12/15/17	TO15 SULF	A0270	1ppm	1.5	30	50	L.L.	
A-2312			H2S	A0269	10ppm	↓	↓	500		
A-2313			TO15 1UG IS	A2304	50ppb	0.9	45	1.0		
A-2314			STD	A2305						
A-2315			LCS	A2306						
A-2316	12/04/17	12/04/18	TO15 IS	FF-8482		LINDE	2000psig	1 PPM	LL	
A-2317	12/12/17	12/12/18	STOCK TO15 STD	FF-47281		LINDE	2200 PSIG	1 PPM	LL	
A-2318	12/18/17	12/18/18	TO15 LCS	A1807	1ppm	A1807	STD IS NOW LCS		LL	
A-2319	12/16/17	12/24/17	TO15 IS	A2316	1ppm	1.5	30	50	M	
A-2320			STD	A2317						
A-2321			LCS	A2318						
A-2322			4 PCH	9519	1ppm	1.5		50		
A-2323			4 PCH5	A2322	50ppb	3.0		5		
A-2324			FORM	A0974	11.5ppm	0.20	45	50		
A-2325			SILOX	A1058/008 ~~A0270~~ ~~A1058/008~~	500ppb	3.0	30			
A-2326			SULF	~~A0269~~ A0270	1ppm	1.5		500		
A-2327			H2S	A0269	10ppm			1.0		
A-2328			TO15 1UG IS	A2319	50ppb	0.9	45			
A-2329			STD	A2320						
A-2330			LCS	A2321						
A-2331			M							

FORM 153

Page # 34

aboratories, LLC

GC/MS Calibration Standards Logbook

	Date Prep	Date Exp	Description	Stock #	Stock Conc	Initial Vol (psig)	Finial Vol (psia)	Final Conc (ppb)	Prep by	Chkd b
	12/3/19	12/10/19	TO15 SULF	A2573	1 ppm	1.5	30	50	WD	
	↓	↓	↓ H2S	A2572	10.2 ppm	1.47	30	500	↓	
	↓	↓	TO15 14G IS	A3498	50 ppb	0.9	45	1	↓	
	↓	↓	↓ STD	A3499	↓	↓	↓	↓	↓	
	↓	↓	↓ LCS	A3500	↓	↓	↓	↓	↓	
	12/10/19	12/17/19	TO15 IS	A2927	1 ppm	1.5	30	50	WD	
A-3512	↓	↓	↓ STD	A2928	↓	↓	↓	↓	↓	
A-3513	↓	↓	↓ LCS	A2929	↓	↓	↓	↓	↓	
A-3514	↓	↓	↓ 4PCH	A3305	1.029 ppm	1.46	30	50	↓	
A-3515	↓	↓	↓ 4PCHS	A3513	50 ppb	3.0	30	5	↓	
A-3516	↓	↓	↓ FORM	A2926	10.8 ppm	0.21	45	50	↓	
A-3517	↓	↓	↓ SILOX	A2574 / A2673	499 ppb / 500 ppb	3.34 / 3.0	30	50	↓	
A-3518	↓	↓	↓ SULF	A2573	1 ppm	1.5	30	50	↓	
A-3519	↓	↓	↓ H2S	A2572	10.2 ppm	1.47	30	500	↓	
A-3520	↓	↓	↓ H2S25	A3518	500 ppb	1.5	30	25	↓	
A-3521	↓	↓	TO15 14G IS	A3510	50 ppb	0.9	45	1	↓	
A-3522	↓	↓	↓ STD	A3511	↓	↓	↓	↓	↓	
A-3523	11/20/19	11/20/2020	↓ LCS TO15 IS	A3512 FF-5014	↓	↓ LINDE	↓ 2000 psig	↓ 1.0 ppm	↓ LL	
A-3524	12/03/19	12/03/2020	TO15 STD	FF-11174		LINDE	2200 psig	1.0 ppm	LL	
A-3525	12/17/19	12/24/19	TO15 IS	A3523	1 ppm	1.5	30	50	WD	

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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-3568	1/7/20	1/14/20	TO15 SOLF	A2573	1 ppm	1.5	30	50	WD	
A-3569			H2S	A2572	10.2 ppm	1.47	30	500		
A-3570			TO15 1UG IS	A3561	50 ppb	0.9	45	1		
A-3571			STD	A3562						
A-3572			LCS	A3563						
A-3573	1/14/20	1/21/20	TO15 IS	A3523	1 ppm	1.5	30	50	WD	
A-3574			STD	A2928						
A-3575			LCS	A2929						
A-3576			4PCH	A3305	1.029 ppm	1.46	30	50		
A-3577			4PCH5	A3576	50 ppb	3.0	30	5		
A-3578			FORM	A2926	10.8 ppm	0.21	45	50		
A-3579			SILOX	~~A2597~~ A2623	449 ppb 500 ppb	3.34 3.0	30	50		
A-3580			SOLF	A2573	1 ppm	1.5	30	50		
A-3581			H2S	A2572	10.2 ppm	1.47	30	500		
A-3582			TO15 1UG IS	A3573	50 ppb	0.9	45	1		
A-3583			STD	A3574						
A-3584			LCS	A3575						
A-3585	1/21/20	1/28/20	TO15 IS	A3523	1 ppm	1.5	30	50	WD	
A-3586			STD	A2928						
A-3587			LCS	A2929						
A-3588			4PCH	A3305	1.029 ppm	1.46	30	50		

FORM 153

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CANISTER CLEANING LOG

entek Laboratories, LLC

QC Canister Cleaning Logbook

strument: Entech 3100

anister Number	Canister Size	QC Can Number	# of Cycles	Int & Date Cleaned	QC Batch Number	Detection Limits	Leak Test 24hr Int & Date		
1182	1L	362	20	12/6/19	WAC1209194	1µg +0.20	+ 30	+ 30	12/27/19
1195							+ 30	+	
1318							+ 30	+	
322							+ 30	+	
362							+ 30	+	
87		285				D	+ 30	+	
475							+ 30	+	
236							+ 30	+	
1316							+ 30	+	
285							+ 30	+	
1189		365				C	+ 30	+	
1183							+ 30	+	
458							+ 30	+	
1178							+ 30	+	
365							+ 30	+	
139		1193				D	+ 30	+	
159							+ 30	+	
465							+ 30	+	
170							+ 30	+	
1193							+ 30	+	
163		128				E	+ 30	+	
95							+ 30	+	
552							+ 30	+	
83							+ 30	+	
128							+ 30	+	

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orm C151

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2019DATA\2019DEC\AQ120905.D Vial: 1
Acq On : 9 Dec 2019 12:30 pm Operator: RJP
Sample : WAC120919A Inst : MSD #1
Misc : AN26_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 13 10:39:07 2019 Quant Results File: AN26_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN26_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Dec 12 13:29:26 2019
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	9.97	128	51197	1.00 ppb	-0.03
35) 1,4-difluorobenzene	12.25	114	217196	1.00 ppb	-0.02
50) Chlorobenzene-d5	17.05	117	193053	1.00 ppb	-0.02
System Monitoring Compounds					
65) Bromofluorobenzene	18.80	95	117284	0.90 ppb	-0.01
Spiked Amount 1.000	Range 70 - 130		Recovery = 90.00%		

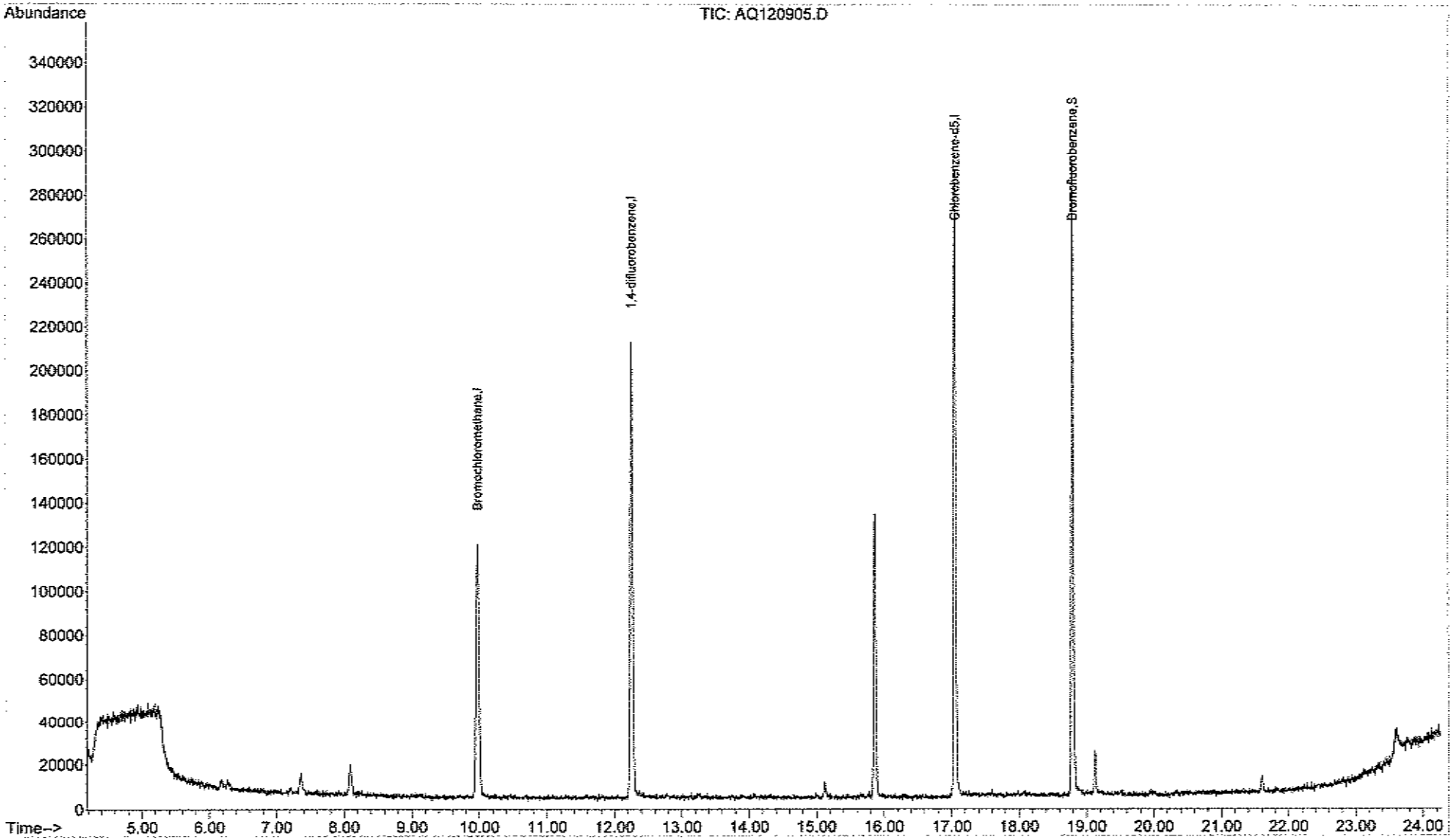
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2019DATA\2019DEC\AQ120905.D Vial: 1
Acq On : 9 Dec 2019 12:30 pm Operator: RJP
Sample : WAC120919A Inst : MSD #1
Misc : AN26_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 13 10:39 2019 Quant Results File: AN26_1UG.RES

Method : C:\HPCHEM\1\METHODS\A124_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Feb 10 14:09:25 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2019DATA\2019DEC\AQ120906.D Vial: 2
Acq On : 9 Dec 2019 1:15 pm Operator: RJP
Sample : WAC120919B Inst : MSD #1
Misc : AN26_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 13 10:39:08 2019 Quant Results File: AN26_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN26_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Dec 12 13:29:26 2019
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	9.98	128	48697	1.00 ppb	-0.02
35) 1,4-difluorobenzene	12.26	114	200981	1.00 ppb	-0.02
50) Chlorobenzene-d5	17.05	117	178338	1.00 ppb	-0.01
System Monitoring Compounds					
65) Bromofluorobenzene	18.80	95	105035	0.88 ppb	-0.01
Spiked Amount 1.000	Range 70 - 130		Recovery = 88.00%		

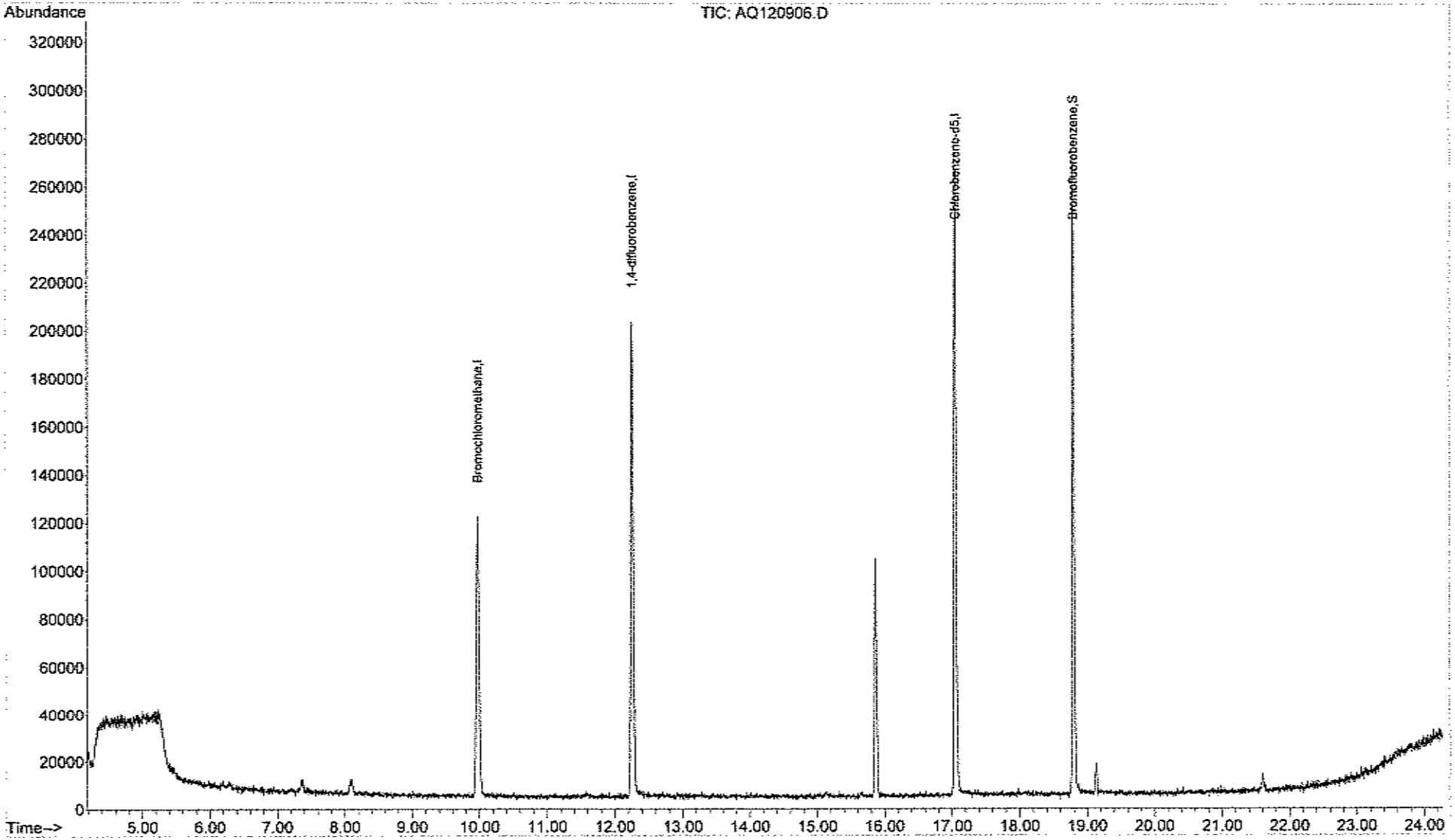
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2019DATA\2019DEC\AQ120906.D Vial: 2
Acq On : 9 Dec 2019 1:15 pm Operator: RJP
Sample : WAC120919B Inst : MSD #1
Misc : AN26_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 13 10:41 2019 Quant Results File: AN26_1UG.RES

Method : C:\HPCHEM\1\METHODS\A124_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Feb 10 14:09:25 2020
Response via : Initial Calibration



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Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2019DATA\2019DEC\AQ120907.D Vial: 3
Acq On : 9 Dec 2019 1:59 pm Operator: RJP
Sample : WAC120919C Inst : MSD #1
Misc : AN26_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 13 10:39:09 2019 Quant Results File: AN26_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN26_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Dec 12 13:29:26 2019
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

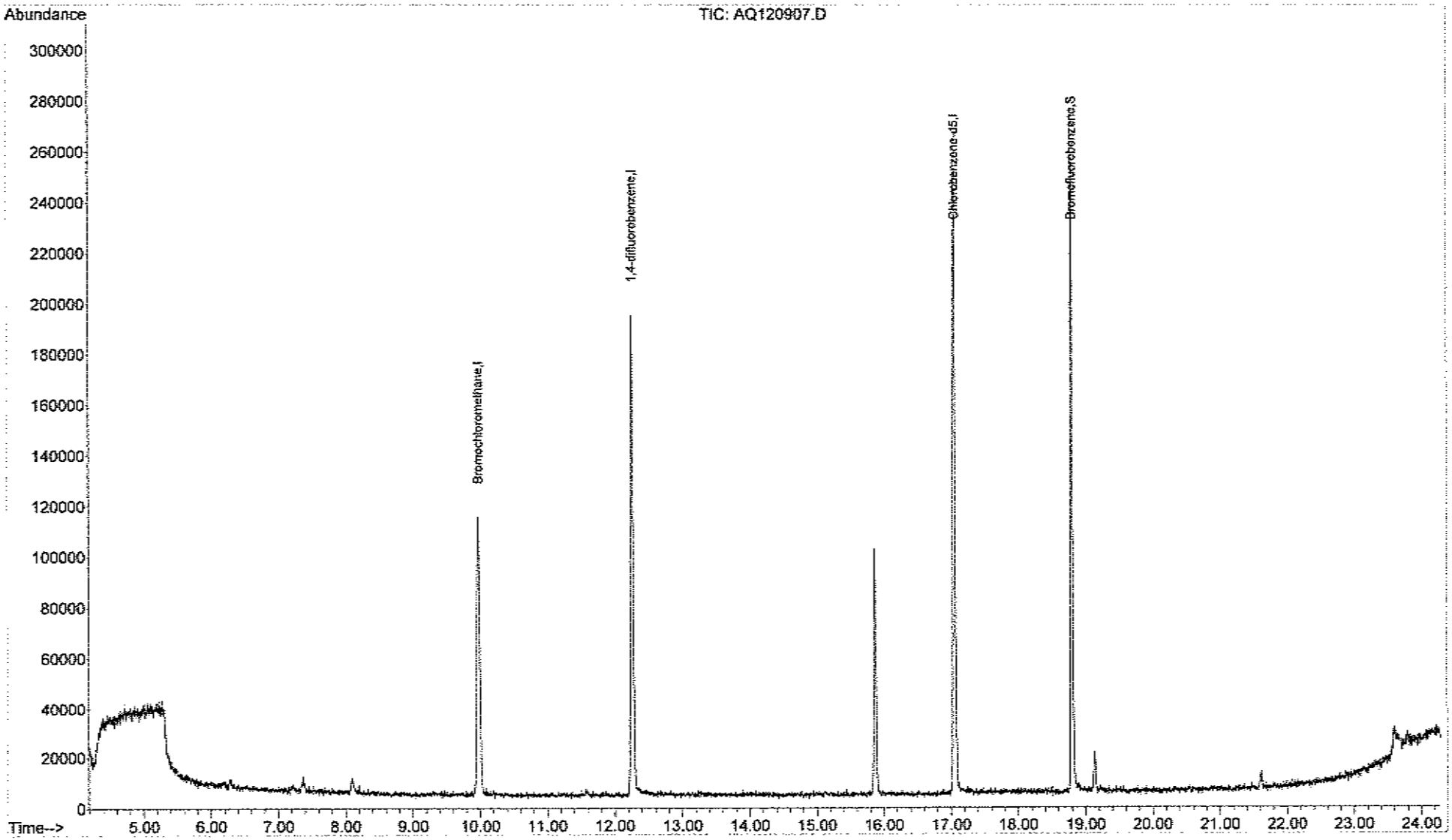
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	9.98	128	47934	1.00 ppb	-0.02
35) 1,4-difluorobenzene	12.26	114	194097	1.00 ppb	-0.02
50) Chlorobenzene-d5	17.05	117	168955	1.00 ppb	-0.01
System Monitoring Compounds					
65) Bromofluorobenzene	18.80	95	99365	0.87 ppb	-0.01
Spiked Amount 1.000	Range 70 - 130		Recovery =	87.00%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA2\2019DATA\2019DEC\AQ120907.D Vial: 3
Acq On : 9 Dec 2019 1:59 pm Operator: RJP
Sample : WAC120919C Inst : MSD #1
Misc : AN26_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 13 10:39 2019 Quant Results File: AN26_1UG.RES

Method : C:\HPCHEM\1\METHODS\A124_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Feb 10 14:09:25 2020
Response via : Initial Calibration



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2019DATA\2019DEC\AQ120908.D Vial: 4
Acq On : 9 Dec 2019 2:44 pm Operator: RJP
Sample : WAC120919D Inst : MSD #1
Misc : AN26_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 13 10:39:10 2019 Quant Results File: AN26_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN26_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Dec 12 13:29:26 2019
Response via : Initial Calibration
DataAcq Meth : 1UG_ENT

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	9.98	128	45389	1.00 ppb	-0.02
35) 1,4-difluorobenzene	12.26	114	183099	1.00 ppb	-0.02
50) Chlorobenzene-d5	17.05	117	162889	1.00 ppb	-0.01
System Monitoring Compounds					
65) Bromofluorobenzene	18.79	95	93829	0.86 ppb	-0.01
Spiked Amount 1.000	Range 70 - 130		Recovery = 86.00%		

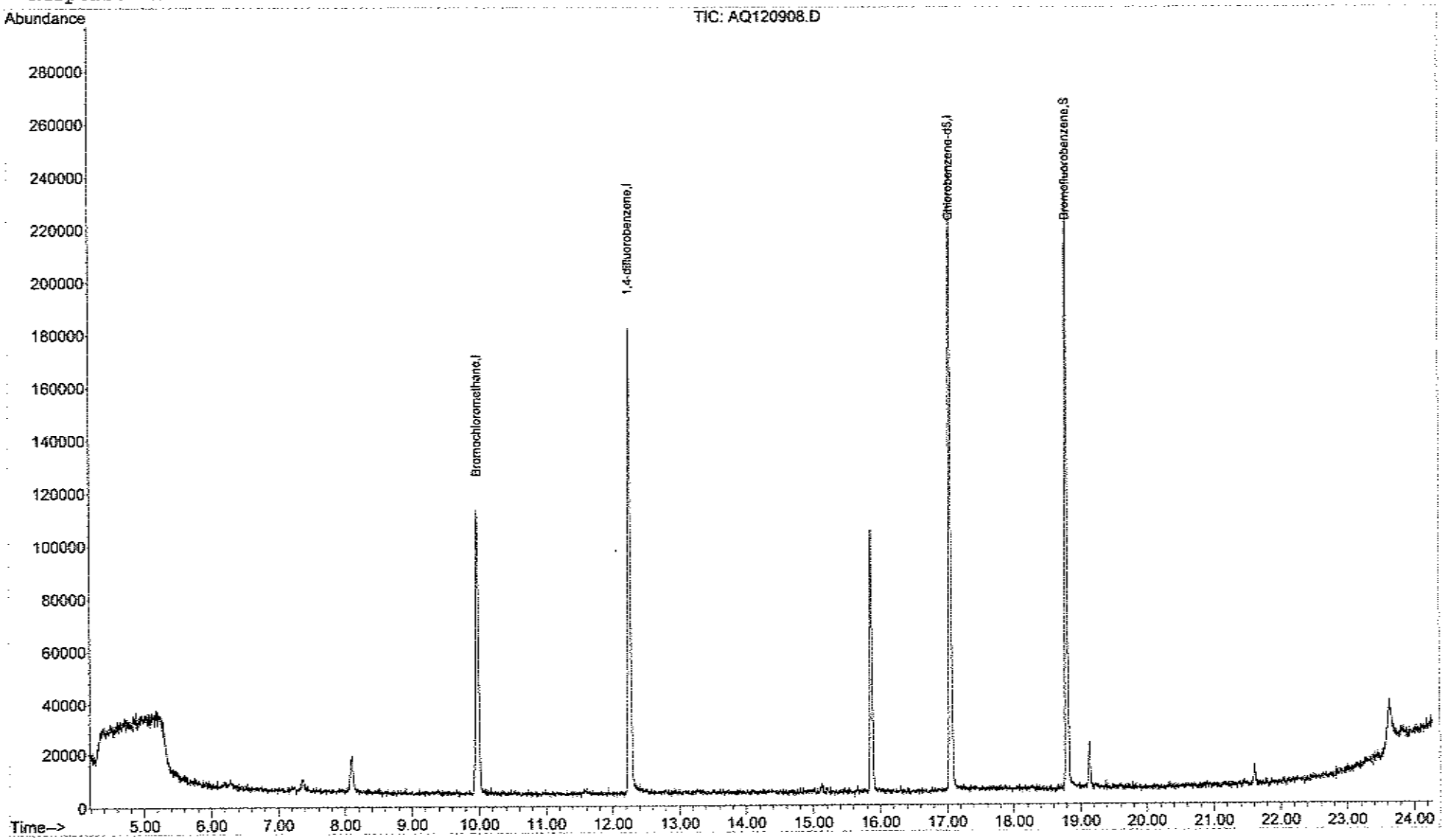
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2019DATA\2019DEC\AQ120908.D Vial: 4
Acq On : 9 Dec 2019 2:44 pm Operator: RJP
Sample : WAC120919D Inst : MSD #1
Misc : AN26_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 13 10:39 2019 Quant Results File: AN26_1UG.RES

Method : C:\HPCHEM\1\METHODS\A124_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Feb 10 14:09:25 2020
Response via : Initial Calibration



AQ120908.D A124_1UG.M Wed Feb 12 14:34:32 2020 MSD1 Page 2