

From: Kleist, Andrew <kleist.andrew@epa.gov>
Sent: Wednesday, March 31, 2021 8:16 AM
To: Schultz, Josie M - DNR
Subject: RE: Martinizing Dry Cleaner

Hi Josie,

The Jim's Music sump sample was from the one straight in front of the base of the stairs. We hoped to sample the one in the NW corner underneath the desk because of it's incredibly high levels, however, it was sealed very well and the only way we could have accessed it would have been to completely undo the cover. I chose not to do this with the guys working right there in case we weren't able to put it back as effectively.

Thanks,

Andy

From: Schultz, Josie M - DNR <josie.schultz@wisconsin.gov>
Sent: Tuesday, March 30, 2021 5:18 PM
To: Kleist, Andrew <kleist.andrew@epa.gov>
Subject: RE: Martinizing Dry Cleaner

One last question - Was the 1219 Military, Jim's Music, Sump the NW corner sump (underneath the desk), or the sump straight in front of the base of the stairs?

Thanks!
Josie

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Josie M. Schultz

Hydrogeologist – Northeast Region Remediation and Redevelopment Team
Wisconsin Department of Natural Resources
2984 Shawano Avenue, Green Bay, WI 54313-6727
Cell: 920-366-5685

Josie.Schultz@Wisconsin.gov



dnr.wi.gov



From: Kleist, Andrew <kleist.andrew@epa.gov>
Sent: Tuesday, March 30, 2021 4:43 PM
To: Schultz, Josie M - DNR <josie.schultz@wisconsin.gov>
Subject: RE: Martinizing Dry Cleaner

The approximate location of the IA sample at the group home was in the NE corner of the basement. The approximate location of the IA sample at Jim's music was in the north basement, near the bottom of the steps, near the eastern wall. My contractors collected approximate coordinates which would be more specific if that would be helpful.

O shoot. I included the spreadsheet but forgot the PDF, same situation it's a level IV data package, results are pages 10-15.

Andy

From: Schultz, Josie M - DNR <josie.schultz@wisconsin.gov>
Sent: Tuesday, March 30, 2021 4:17 PM
To: Kleist, Andrew <kleist.andrew@epa.gov>
Subject: RE: Martinizing Dry Cleaner

Thanks, Andy! Would you be able to share with me the approximate location of the two IA summa canisters? Also, were the sump groundwater samples able to be obtained, and if so have those results been received yet?

Josie

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Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Josie M. Schultz

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From: Kleist, Andrew <kleist.andrew@epa.gov>
Sent: Tuesday, March 30, 2021 3:09 PM
To: Schultz, Josie M - DNR <josie.schultz@wisconsin.gov>
Subject: RE: Martinizing Dry Cleaner

O great, that is good to hear. Assuming they complete the upgrades by the time we come back I would like to collect an additional indoor air sample in that basement to confirm the effectiveness of the VMS. With the folks who are working down there that system needs to be doing a much much better job.

Yes, that is still the plan. We will be conducting a more complete sampling event in May. This will include the sanitary sewer investigation and I am also hoping to conduct indoor air sampling within the nearby homes. I am just now working on getting access agreements together to be able to do that.

And yes, I reviewed our universal data sharing agreement and I see no reason why I can't share these results. Keep in mind that this data still needs to be validated, I will likely receive that data early next week. I will share that once I have it. Also, the PDF is a Level IV data package of the air results so the PDF includes lab validation information, the results are just on page 7-10 of the PDF.

Thanks,

Andy

From: Schultz, Josie M - DNR <josie.schultz@wisconsin.gov>

Sent: Tuesday, March 30, 2021 2:18 PM

To: Kleist, Andrew <kleist.andrew@epa.gov>

Subject: RE: Martinizing Dry Cleaner

Hi Andy,

So far we seem to be on track to having upgrades made to the VMS, but will keep you posted if that changes. I believe the consultant would like to have the scope of work approved by mid-April.

Based on these results, is the plan still to perform additional vapor sampling in May, including vapor grab samples from the sanitary sewer? DNR's concern remains with the contaminated sump that was discharging directly to the sanitary sewer, and vapors potentially entering residences via the plumbing.

Would you be able to forward the vapor and sump sampling results to me?

Thanks,

Josie

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Josie M. Schultz

Hydrogeologist – Northeast Region Remediation and Redevelopment Team

Wisconsin Department of Natural Resources

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From: Kleist, Andrew <kleist.andrew@epa.gov>

Sent: Tuesday, March 30, 2021 12:57 PM

To: Schultz, Josie M - DNR <josie.schultz@wisconsin.gov>

Subject: Martinizing Dry Cleaner

Hi Josie,

I wanted to check in regarding the Martinizing Dry Cleaner Site. I'm trying to get a handle on my next steps. After seeing the VMS inspection that you were conducting while we were sampling I was curious if the owner is planning to make the necessary improvements to the system?

The reason I ask is that we received preliminary results from our sampling. As I mentioned at the time, both of our sub-slab samples were scrapped due to groundwater. We did collect indoor air and sump samples at the basement of Jim's Music and the group home across the alley. The indoor air in the basement of Jim's was still high for PCE, lower than it had been during your previous sampling, but still $480 \mu\text{g}/\text{m}^3$.

There were no elevated results from the indoor air at the group home or either sump samples.

Thanks,

Andy

Andrew Kleist

On-Scene Coordinator
Emergency Response Branch
U.S. EPA Region 5

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LABORATORY REPORT

March 29, 2021

Dennis Linley
CT Laboratories
1230 Lange Court
Baraboo, WI 53913

RE: MARTINIZING DRY CLEANERS / 103X903100320001BI103

Dear Dennis:

Enclosed are the results of the samples submitted to our laboratory on March 15, 2021. For your reference, these analyses have been assigned our service request number P2101325.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Sue Anderson
By Sue Anderson at 1:31 pm, Mar 29, 2021

Sue Anderson
Project Manager



2655 Park Center Dr., Suite A
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T: +1 805 526 7161
www.alsglobal.com

Client: CT Laboratories Service Request No: P2101325
Project: MARTINIZING DRY CLEANERS / 103X903100320001BI103

CASE NARRATIVE

The samples were received intact under chain of custody on March 15, 2021 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed in SIM mode for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

Second source verification standards are analyzed following instrument calibration to verify the accuracy of the calibration standards. This check is evaluated using the same criteria as the continuing calibration verification standard. The upper control criterion was exceeded for 1,3-butadiene in the second source verification for ICAL name S19031621.M. In addition, the upper control criterion was exceeded for 1,3-butadiene in the Laboratory Control Sample (LCS) analyzed on March 17, 2021. The field samples analyzed using this calibration did not contain the analyte in question. Since the apparent problem equates to a high bias, the data quality has not been significantly affected. No corrective action was taken.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.1 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	http://dec.alaska.gov/eh/lab.aspx	17-019
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html	E871020
Louisiana DEQ (NELAP)	http://www.deq.louisiana.gov/page/la-lab-accreditation	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml	2018027
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	1776326
New Jersey DEP (NELAP)	http://www.nj.gov/dep/enforcement/oqa.html	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-008
Pennsylvania DEP	http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html	T104704413- 19-10
Utah DOH (NELAP)	http://health.utah.gov/lab/lab_cert_env	CA01627201 9-10
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: CT Laboratories
 Project ID: MARTINIZING DRY CLEANERS / 103X903100320001B1103

Service Request: P2101325

Date Received: 3/15/2021
 Time Received: 09:30

TO-15 - VOC SIM
 NA - Return B-QC Can

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	
MDC-1216-IA01-20210310	P2101325-001	Air	3/10/2021	15:10	AC02167	-2.29	4.12	X
MDC-1219-IA01-20210310	P2101325-002	Air	3/10/2021	18:03	SC02083	-2.32	4.02	X



Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161

Requested Turnaround Time in Business Days (Surcharges) please circle
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day (Standard)

ALS Project No. 2101325

Company Name & Address (Reporting Information)		Project Name			ALS Contact:		Analysis Method		Comments e.g. Actual Preservative or specific instructions
TETRA TECH 15. WACKER DR. SUITE 3700 CHICAGO, IL 60606		MARTINIZING DRY CLEANERS			ALS Contact:		Analysis Method		
Project Manager		Project Number			P.O. # / Billing Information				
KARL SCHULTZ		103X903100320001BI103							
Phone		Sampler (Print & Sign)			Canister ID		Canister		
(262) 227-1049		KARL SCHULTZ <i>Karl Schults</i>			Flow Controller ID (Bar code # - FC #)		Start Pressure "Hg		
Fax		Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister End Pressure "Hg/psig	Sample Volume	
Email Address for Result Reporting									
KARL.SCHULTZ@TETRATECH.COM									
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	
MDC-1216-IA01-20210310		3-9-21 3-10-21	1540 1510	AC02167	FCR00261	-29.5	-4.9	6L	
MDC-1219-IA01-20210310		3-10-21	1031 1803	SC02083	SFC00251	-2.9	-5.0	6L	
Report Tier Levels - please select									
Tier I - Results (Default if not specified)					Tier III (Results + QC & Calibration Summaries)				
Tier II (Results + QC Summaries)					Tier IV (Data Validation Package) 10% Surcharge <input checked="" type="checkbox"/>				
EDD required <input checked="" type="checkbox"/> Yes / No Units: _____									
Relinquished by: (Signature) <i>Karl Schults</i>					Received by: (Signature)				
Date: 3-12-2021					Date: 3-12-2021				
Time: 0930					Time: 0930				
Chain of Custody Seal: (Circle) INTACT <input checked="" type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT <input type="checkbox"/>									
Project Requirements (MRLs, QAPP)									
					Cooler / Blank Temperature °C				

**ALS Environmental
Sample Acceptance Check Form**

Client: CT Laboratories Work order: P2101325
 Project: MARTINIZING DRY CLEANERS / 103X903100320001BI103
 Sample(s) received on: 3/15/21 Date opened: 3/15/21 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- | | Yes | No | N/A |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Were chain-of-custody papers used and filled out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were custody seals on outside of cooler/Box/Container? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9 Do containers have appropriate preservation , according to method/SOP or Client specified information? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2101325-001.01	6.0 L Ambient Can					
P2101325-002.01	6.0 L Silonite Can					
P2101325-003.01	6.0 L Silonite Can					
P2101325-004.01	6.0 L Source Can					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: CT Laboratories

Client Sample ID: MDC-1216-IA01-20210310

Client Project ID: MARTINIZING DRY CLEANERS / 103X903100320001BI103

ALS Project ID: P2101325

ALS Sample ID: P2101325-001

Test Code: EPA TO-15 SIM

Date Collected: 3/10/21

Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19

Date Received: 3/15/21

Analyst: Topacio Zavala

Date Analyzed: 3/17/21

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC02167

Initial Pressure (psig): -2.29 Final Pressure (psig): 4.12

Container Dilution Factor: 1.52

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	0.076	0.40	0.015	
74-87-3	Chloromethane	0.19	0.076	0.093	0.037	
75-01-4	Vinyl Chloride	ND	0.038	ND	0.015	
106-99-0	1,3-Butadiene	ND	0.076	ND	0.034	L
74-83-9	Bromomethane	ND	0.038	ND	0.0098	
75-00-3	Chloroethane	ND	0.038	ND	0.014	
107-02-8	Acrolein	1.6	0.30	0.71	0.13	
67-64-1	Acetone	33	3.8	14	1.6	
75-69-4	Trichlorofluoromethane	1.1	0.076	0.19	0.014	
75-35-4	1,1-Dichloroethene	ND	0.038	ND	0.0096	
75-09-2	Methylene Chloride	0.32	0.15	0.093	0.044	
76-13-1	Trichlorotrifluoroethane	0.45	0.038	0.058	0.0050	
156-60-5	trans-1,2-Dichloroethene	ND	0.038	ND	0.0096	
75-34-3	1,1-Dichloroethane	ND	0.038	ND	0.0094	
1634-04-4	Methyl tert-Butyl Ether	ND	0.038	ND	0.011	
156-59-2	cis-1,2-Dichloroethene	ND	0.038	ND	0.0096	
67-66-3	Chloroform	0.46	0.15	0.093	0.031	
107-06-2	1,2-Dichloroethane	0.11	0.038	0.026	0.0094	
71-55-6	1,1,1-Trichloroethane	ND	0.038	ND	0.0070	
71-43-2	Benzene	0.58	0.11	0.18	0.036	
56-23-5	Carbon Tetrachloride	0.38	0.038	0.061	0.0060	
78-87-5	1,2-Dichloropropane	ND	0.038	ND	0.0082	
75-27-4	Bromodichloromethane	0.19	0.038	0.028	0.0057	
79-01-6	Trichloroethene	ND	0.038	ND	0.0071	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample recovery outside the specified limits; results may be biased high.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: CT Laboratories

Client Sample ID: MDC-1216-IA01-20210310

Client Project ID: MARTINIZING DRY CLEANERS / 103X903100320001BI103

ALS Project ID: P2101325

ALS Sample ID: P2101325-001

Test Code: EPA TO-15 SIM

Date Collected: 3/10/21

Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19

Date Received: 3/15/21

Analyst: Topacio Zavala

Date Analyzed: 3/17/21

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC02167

Initial Pressure (psig): -2.29 Final Pressure (psig): 4.12

Container Dilution Factor: 1.52

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
123-91-1	1,4-Dioxane	ND	0.15	ND	0.042	
10061-01-5	cis-1,3-Dichloropropene	ND	0.038	ND	0.0084	
10061-02-6	trans-1,3-Dichloropropene	ND	0.038	ND	0.0084	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.028	
108-88-3	Toluene	5.3	0.15	1.4	0.040	
124-48-1	Dibromochloromethane	0.12	0.038	0.014	0.0045	
106-93-4	1,2-Dibromoethane	ND	0.038	ND	0.0049	
127-18-4	Tetrachloroethene	1.3	0.038	0.19	0.0056	
108-90-7	Chlorobenzene	ND	0.15	ND	0.033	
100-41-4	Ethylbenzene	0.24	0.15	0.055	0.035	
179601-23-1	m,p-Xylenes	0.63	0.15	0.15	0.035	
100-42-5	Styrene	0.38	0.15	0.090	0.036	
95-47-6	o-Xylene	0.26	0.15	0.059	0.035	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.038	ND	0.0055	
108-67-8	1,3,5-Trimethylbenzene	ND	0.15	ND	0.031	
95-63-6	1,2,4-Trimethylbenzene	0.20	0.15	0.041	0.031	
541-73-1	1,3-Dichlorobenzene	ND	0.038	ND	0.0063	
106-46-7	1,4-Dichlorobenzene	0.043	0.038	0.0071	0.0063	
95-50-1	1,2-Dichlorobenzene	ND	0.038	ND	0.0063	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.15	ND	0.016	
120-82-1	1,2,4-Trichlorobenzene	ND	0.076	ND	0.010	
91-20-3	Naphthalene	ND	0.15	ND	0.029	
87-68-3	Hexachlorobutadiene	ND	0.15	ND	0.014	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: CT Laboratories

Client Sample ID: MDC-1219-IA01-20210310

Client Project ID: MARTINIZING DRY CLEANERS / 103X903100320001BI103

ALS Project ID: P2101325

ALS Sample ID: P2101325-002

Test Code: EPA TO-15 SIM

Date Collected: 3/10/21

Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19

Date Received: 3/15/21

Analyst: Topacio Zavala

Date Analyzed: 3/17/21

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

0.020 Liter(s)

Container ID: SC02083

Initial Pressure (psig): -2.32 Final Pressure (psig): 4.02

Container Dilution Factor: 1.51

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.076	0.44	0.015	
74-87-3	Chloromethane	0.40	0.076	0.19	0.037	
75-01-4	Vinyl Chloride	ND	0.038	ND	0.015	
106-99-0	1,3-Butadiene	ND	0.076	ND	0.034	L
74-83-9	Bromomethane	ND	0.038	ND	0.0097	
75-00-3	Chloroethane	ND	0.038	ND	0.014	
107-02-8	Acrolein	1.2	0.30	0.52	0.13	
67-64-1	Acetone	52	3.8	22	1.6	
75-69-4	Trichlorofluoromethane	1.1	0.076	0.20	0.013	
75-35-4	1,1-Dichloroethene	0.079	0.038	0.020	0.0095	
75-09-2	Methylene Chloride	1.2	0.15	0.34	0.043	
76-13-1	Trichlorotrifluoroethane	0.45	0.038	0.059	0.0049	
156-60-5	trans-1,2-Dichloroethene	0.66	0.038	0.17	0.0095	
75-34-3	1,1-Dichloroethane	ND	0.038	ND	0.0093	
1634-04-4	Methyl tert-Butyl Ether	ND	0.038	ND	0.010	
156-59-2	cis-1,2-Dichloroethene	0.055	0.038	0.014	0.0095	
67-66-3	Chloroform	0.27	0.15	0.055	0.031	
107-06-2	1,2-Dichloroethane	0.37	0.038	0.092	0.0093	
71-55-6	1,1,1-Trichloroethane	ND	0.038	ND	0.0069	
71-43-2	Benzene	0.53	0.11	0.16	0.035	
56-23-5	Carbon Tetrachloride	0.40	0.038	0.063	0.0060	
78-87-5	1,2-Dichloropropane	0.41	0.038	0.089	0.0082	
75-27-4	Bromodichloromethane	ND	0.038	ND	0.0056	
79-01-6	Trichloroethene	1.6	0.038	0.31	0.0070	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample recovery outside the specified limits; results may be biased high.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: CT Laboratories

Client Sample ID: MDC-1219-IA01-20210310

Client Project ID: MARTINIZING DRY CLEANERS / 103X903100320001BI103

ALS Project ID: P2101325

ALS Sample ID: P2101325-002

Test Code: EPA TO-15 SIM

Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: SC02083

Date Collected: 3/10/21

Date Received: 3/15/21

Date Analyzed: 3/17/21

Volume(s) Analyzed: 1.00 Liter(s)

0.020 Liter(s)

Initial Pressure (psig): -2.32 Final Pressure (psig): 4.02

Container Dilution Factor: 1.51

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
123-91-1	1,4-Dioxane	ND	0.15	ND	0.042	
10061-01-5	cis-1,3-Dichloropropene	ND	0.038	ND	0.0083	
10061-02-6	trans-1,3-Dichloropropene	ND	0.038	ND	0.0083	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.028	
108-88-3	Toluene	91	7.6	24	2.0	D
124-48-1	Dibromochloromethane	ND	0.038	ND	0.0044	
106-93-4	1,2-Dibromoethane	ND	0.038	ND	0.0049	
127-18-4	Tetrachloroethene	480	1.9	70	0.28	D
108-90-7	Chlorobenzene	ND	0.15	ND	0.033	
100-41-4	Ethylbenzene	1.9	0.15	0.43	0.035	
179601-23-1	m,p-Xylenes	5.2	0.15	1.2	0.035	
100-42-5	Styrene	2.1	0.15	0.50	0.035	
95-47-6	o-Xylene	1.8	0.15	0.42	0.035	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.038	ND	0.0055	
108-67-8	1,3,5-Trimethylbenzene	0.83	0.15	0.17	0.031	
95-63-6	1,2,4-Trimethylbenzene	2.6	0.15	0.54	0.031	
541-73-1	1,3-Dichlorobenzene	ND	0.038	ND	0.0063	
106-46-7	1,4-Dichlorobenzene	0.10	0.038	0.017	0.0063	
95-50-1	1,2-Dichlorobenzene	ND	0.038	ND	0.0063	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.15	ND	0.016	
120-82-1	1,2,4-Trichlorobenzene	ND	0.076	ND	0.010	
91-20-3	Naphthalene	0.22	0.15	0.041	0.029	
87-68-3	Hexachlorobutadiene	ND	0.15	ND	0.014	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: CT Laboratories

Client Sample ID: Method Blank

Client Project ID: MARTINIZING DRY CLEANERS / 103X903100320001BI103

ALS Project ID: P2101325

ALS Sample ID: P210317-MB

Test Code: EPA TO-15 SIM

Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 3/17/21

Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result		MRL		Data Qualifier
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	ppbV	ppbV	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.050	ND	0.010	
74-87-3	Chloromethane	ND	0.050	ND	0.024	
75-01-4	Vinyl Chloride	ND	0.025	ND	0.0098	
106-99-0	1,3-Butadiene	ND	0.050	ND	0.023	L
74-83-9	Bromomethane	ND	0.025	ND	0.0064	
75-00-3	Chloroethane	ND	0.025	ND	0.0095	
107-02-8	Acrolein	ND	0.20	ND	0.087	
67-64-1	Acetone	ND	2.5	ND	1.1	
75-69-4	Trichlorofluoromethane	ND	0.050	ND	0.0089	
75-35-4	1,1-Dichloroethene	ND	0.025	ND	0.0063	
75-09-2	Methylene Chloride	ND	0.10	ND	0.029	
76-13-1	Trichlorotrifluoroethane	ND	0.025	ND	0.0033	
156-60-5	trans-1,2-Dichloroethene	ND	0.025	ND	0.0063	
75-34-3	1,1-Dichloroethane	ND	0.025	ND	0.0062	
1634-04-4	Methyl tert-Butyl Ether	ND	0.025	ND	0.0069	
156-59-2	cis-1,2-Dichloroethene	ND	0.025	ND	0.0063	
67-66-3	Chloroform	ND	0.10	ND	0.020	
107-06-2	1,2-Dichloroethane	ND	0.025	ND	0.0062	
71-55-6	1,1,1-Trichloroethane	ND	0.025	ND	0.0046	
71-43-2	Benzene	ND	0.075	ND	0.023	
56-23-5	Carbon Tetrachloride	ND	0.025	ND	0.0040	
78-87-5	1,2-Dichloropropane	ND	0.025	ND	0.0054	
75-27-4	Bromodichloromethane	ND	0.025	ND	0.0037	
79-01-6	Trichloroethene	ND	0.025	ND	0.0047	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample recovery outside the specified limits; results may be biased high.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: CT Laboratories

Client Sample ID: Method Blank

Client Project ID: MARTINIZING DRY CLEANERS / 103X903100320001BI103

ALS Project ID: P2101325

ALS Sample ID: P210317-MB

Test Code: EPA TO-15 SIM

Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 3/17/21

Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result		MRL		Data Qualifier
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	ppbV	ppbV	
123-91-1	1,4-Dioxane	ND	0.10	ND	0.028	
10061-01-5	cis-1,3-Dichloropropene	ND	0.025	ND	0.0055	
10061-02-6	trans-1,3-Dichloropropene	ND	0.025	ND	0.0055	
79-00-5	1,1,2-Trichloroethane	ND	0.10	ND	0.018	
108-88-3	Toluene	ND	0.10	ND	0.027	
124-48-1	Dibromochloromethane	ND	0.025	ND	0.0029	
106-93-4	1,2-Dibromoethane	ND	0.025	ND	0.0033	
127-18-4	Tetrachloroethene	ND	0.025	ND	0.0037	
108-90-7	Chlorobenzene	ND	0.10	ND	0.022	
100-41-4	Ethylbenzene	ND	0.10	ND	0.023	
179601-23-1	m,p-Xylenes	ND	0.10	ND	0.023	
100-42-5	Styrene	ND	0.10	ND	0.023	
95-47-6	o-Xylene	ND	0.10	ND	0.023	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.025	ND	0.0036	
108-67-8	1,3,5-Trimethylbenzene	ND	0.10	ND	0.020	
95-63-6	1,2,4-Trimethylbenzene	ND	0.10	ND	0.020	
541-73-1	1,3-Dichlorobenzene	ND	0.025	ND	0.0042	
106-46-7	1,4-Dichlorobenzene	ND	0.025	ND	0.0042	
95-50-1	1,2-Dichlorobenzene	ND	0.025	ND	0.0042	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.10	ND	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.050	ND	0.0067	
91-20-3	Naphthalene	ND	0.10	ND	0.019	
87-68-3	Hexachlorobutadiene	ND	0.10	ND	0.0094	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: CT Laboratories

Client Project ID: MARTINIZING DRY CLEANERS / 103X903100320001BI103

ALS Project ID: P2101325

Test Code: EPA TO-15 SIM

Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister(s)

Test Notes:

Date(s) Collected: 3/10/21

Date(s) Received: 3/15/21

Date(s) Analyzed: 3/17/21

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		% Recovered	% Recovered	% Recovered		
Method Blank	P210317-MB	102	100	96	70-130	
Lab Control Sample	P210317-LCS	102	100	103	70-130	
MDC-1216-IA01-20210310	P2101325-001	99	101	96	70-130	
MDC-1219-IA01-20210310	P2101325-002	103	102	101	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

Client: CT Laboratories

Client Sample ID: Lab Control Sample

Client Project ID: MARTINIZING DRY CLEANERS / 103X903100320001BI103

ALS Project ID: P2101325

ALS Sample ID: P210317-LCS

Test Code: EPA TO-15 SIM

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19

Date Received: NA

Analyst: Topacio Zavala

Date Analyzed: 3/17/21

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 0.050 Liter(s)

Test Notes:

CAS #	Compound	Spike Amount µg/m ³	Result µg/m ³	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
75-71-8	Dichlorodifluoromethane (CFC 12)	21.0	21.8	104	65-122	
74-87-3	Chloromethane	20.6	16.5	80	48-162	
75-01-4	Vinyl Chloride	20.8	21.3	102	43-138	
106-99-0	1,3-Butadiene	21.0	38.1	181	45-150	L
74-83-9	Bromomethane	20.4	21.2	104	60-126	
75-00-3	Chloroethane	20.4	21.4	105	57-130	
107-02-8	Acrolein	43.6	40.1	92	54-130	
67-64-1	Acetone	103	99.7	97	54-123	
75-69-4	Trichlorofluoromethane	20.4	21.0	103	69-117	
75-35-4	1,1-Dichloroethene	21.2	21.3	100	65-135	
75-09-2	Methylene Chloride	20.8	21.3	102	63-120	
76-13-1	Trichlorotrifluoroethane	21.4	21.6	101	67-123	
156-60-5	trans-1,2-Dichloroethene	21.2	22.5	106	67-123	
75-34-3	1,1-Dichloroethane	21.2	22.2	105	62-123	
1634-04-4	Methyl tert-Butyl Ether	21.2	23.2	109	75-131	
156-59-2	cis-1,2-Dichloroethene	20.8	21.8	105	69-123	
67-66-3	Chloroform	21.4	21.4	100	67-117	
107-06-2	1,2-Dichloroethane	20.8	21.6	104	68-118	
71-55-6	1,1,1-Trichloroethane	20.6	21.9	106	73-124	
71-43-2	Benzene	20.4	20.3	100	60-122	
56-23-5	Carbon Tetrachloride	21.0	21.6	103	73-118	
78-87-5	1,2-Dichloropropane	20.6	21.1	102	66-126	
75-27-4	Bromodichloromethane	21.0	20.2	96	69-117	
79-01-6	Trichloroethene	20.6	19.8	96	71-119	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly. L = Laboratory control sample recovery outside the specified limits; results may be biased high.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

Client:	CT Laboratories	ALS Project ID: P2101325
Client Sample ID:	Lab Control Sample	ALS Sample ID: P210317-LCS
Client Project ID:	MARTINIZING DRY CLEANERS / 103X903100320001BI103	
Test Code:	EPA TO-15 SIM	Date Collected: NA
Instrument ID:	Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19	Date Received: NA
Analyst:	Topacio Zavala	Date Analyzed: 3/17/21
Sample Type:	6.0 L Summa Canister	Volume(s) Analyzed: 0.050 Liter(s)
Test Notes:		

CAS #	Compound	Spike Amount µg/m ³	Result µg/m ³	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
123-91-1	1,4-Dioxane	20.8	17.8	86	69-119	
10061-01-5	cis-1,3-Dichloropropene	21.0	21.1	100	73-125	
10061-02-6	trans-1,3-Dichloropropene	20.2	19.9	99	77-128	
79-00-5	1,1,2-Trichloroethane	20.6	20.6	100	68-123	
108-88-3	Toluene	20.6	19.8	96	69-120	
124-48-1	Dibromochloromethane	21.0	21.3	101	74-122	
106-93-4	1,2-Dibromoethane	20.8	21.0	101	72-124	
127-18-4	Tetrachloroethene	20.6	20.0	97	72-122	
108-90-7	Chlorobenzene	20.6	20.2	98	65-133	
100-41-4	Ethylbenzene	20.6	20.9	101	70-134	
179601-23-1	m,p-Xylenes	41.2	41.4	100	73-132	
100-42-5	Styrene	20.6	21.7	105	71-142	
95-47-6	o-Xylene	20.6	20.9	101	69-136	
79-34-5	1,1,2,2-Tetrachloroethane	20.6	20.9	101	66-136	
108-67-8	1,3,5-Trimethylbenzene	20.6	20.9	101	76-139	
95-63-6	1,2,4-Trimethylbenzene	20.4	20.0	98	75-139	
541-73-1	1,3-Dichlorobenzene	20.6	19.8	96	64-138	
106-46-7	1,4-Dichlorobenzene	20.4	18.6	91	55-137	
95-50-1	1,2-Dichlorobenzene	20.6	19.4	94	62-138	
96-12-8	1,2-Dibromo-3-chloropropane	38.6	36.6	95	66-149	
120-82-1	1,2,4-Trichlorobenzene	38.8	30.3	78	53-145	
91-20-3	Naphthalene	19.8	14.8	75	43-144	
87-68-3	Hexachlorobutadiene	21.0	18.0	86	54-146	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: CT Laboratories

ALS Project ID: P2101325

Client Project ID: MARTINIZING DRY CLEANERS / 103X903100320001BI103

Internal Standard Area and RT Summary

Test Code: EPA TO-15 SIM

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/7890A/MS19

Lab File ID: 03172102.D

Analyst: Topacio Zavala

Date Analyzed: 3/17/21

Sample Type: 6.0 L Summa Canister(s)

Time Analyzed: 08:12

Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
24 Hour Standard	17777	9.60	82290	11.56	13497	15.90
Upper Limit	24888	9.93	115206	11.89	18896	16.23
Lower Limit	10666	9.27	49374	11.23	8098	15.57

Client Sample ID		IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
		AREA #	RT #	AREA #
01	Method Blank	17316	9.62	80494
02	Lab Control Sample	17451	9.63	80836
03	MDC-1216-IA01-20210310	19248	9.62	89123
04	MDC-1219-IA01-20210310	20676	9.62	98759
05	MDC-1219-IA01-20210310 (Dilution)	17863	9.61	82863
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits. See case narrative.

Data File : I:\MS19\DATA\2021 03\17\03172108.D
 Acq On : 17 Mar 2021 12:34
 Sample : P2101325-001 (1000mL)
 Misc : S34-01272101

Vial: 2
 Operator: TZ
 Inst : MS19

TZ 3/19/21

Quant Time: Mar 19 10:31:08 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 14:07:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	9.62	130	19248	1000.000	pg	-0.02
25) 1,4-Difluorobenzene (IS2)	11.57	114	89123	1000.000	pg	0.00
38) Chlorobenzene-d5 (IS3)	15.90	54	16969	1000.000	pg	0.00

System Monitoring Compounds

20) 1,2-Dichloroethane-d4 ...	10.40	65	28783	988.901	pg	-0.01
Spiked Amount	1000.000	Range	70 - 130	Recovery	=	98.89%
33) Toluene-d8 (SS2)	14.00	98	98167	1008.478	pg	0.00
Spiked Amount	1000.000	Range	70 - 130	Recovery	=	100.85%
45) Bromofluorobenzene (SS3)	17.42	174	32433	956.580	pg	0.00
Spiked Amount	1000.000	Range	70 - 130	Recovery	=	95.66%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethan...	4.30	85	58311	1309.362	pg	100
3) Chloromethane	4.53	52	1032	126.430	pg	99
4) 1,2-Dichloro,1,1,2,2-t...	4.70	85	6467	112.447	pg	99
5) Vinyl Chloride	4.84	62	75	N.D.		
6) 1,3-Butadiene	0.00	54	0	N.D.	d	
7) Bromomethane	5.34	94	408	24.909	pg	94
8) Chloroethane	5.55	64	181	N.D.		
9) Acrolein	6.14	56	9997	1065.700	pg	100
10) Acetone	6.27	58	274532	21850.943	pg	98
11) Trichlorofluoromethane	6.47	101	25613	719.623	pg	100
12) 1,1-Dichloroethene	0.00	96	0	N.D.		
13) Methylene Chloride	7.34	84	4692	212.430	pg	94
14) Trichlorotrifluoroethane	7.66	151	4991	293.574	pg	100
15) trans-1,2-Dichloroethene	8.37	96	94	N.D.		
16) 1,1-Dichloroethane	8.59	63	151	N.D.		
17) Methyl tert-Butyl Ether	8.66	73	315	N.D.		
18) cis-1,2-Dichloroethene	0.00	96	0	N.D.		
19) Chloroform	9.76	83	11578	299.664	pg	99
21) 1,2-Dichloroethane	10.51	62	1929	69.131	pg	99
22) 1,1,1-Trichloroethane	10.77	97	196	N.D.		
23) Benzene	11.22	78	33438	380.990	pg	99
24) Carbon Tetrachloride	11.37	117	6893	251.701	pg	99
26) 1,2-Dichloropropane	12.04	63	331	N.D.		
27) Bromodichloromethane	12.22	83	3911	123.754	pg	94
28) Trichloroethene	12.27	130	378	N.D.		
29) 1,4-Dioxane	12.27	88	319	N.D.		
30) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
31) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
32) 1,1,2-Trichloroethane	13.80	83	120	N.D.		
34) Toluene	14.10	91	344607	3514.939	pg	100
35) Dibromochloromethane	14.51	129	1900	80.508	pg	100
36) 1,2-Dibromoethane	0.00	107	0	N.D.		
37) Tetrachloroethene	15.25	166	22041	858.321	pg	100
39) Chlorobenzene	15.95	112	1009	N.D.		
40) Ethylbenzene	16.34	91	18573	158.456	pg	100
41) m,p-Xylene	16.51	91	37335	416.227	pg	99
42) Styrene	16.87	104	15998	251.935	pg	99
43) o-Xylene	16.98	106	7610	169.479	pg	99
44) 1,1,2,2-Tetrachloroethane	16.97	83	419	N.D.		
46) 1,3,5-Trimethylbenzene	18.25	105	4009	42.050	pg	99
47) 1,2,4-Trimethylbenzene	18.65	105	13380	133.063	pg	88
48) 1,3-Dichlorobenzene	18.79	146	90	N.D.		
49) 1,4-Dichlorobenzene	18.86	146	1678	27.992	pg	100
50) 1,2-Dichlorobenzene	19.18	146	144	N.D.		
51) 1,2-Dibromo-3-chloropr...	0.00	157	0	N.D.		
52) 1,2,4-Trichlorobenzene	20.81	182	405	N.D.		
53) Naphthalene	20.92	128	8067	64.442	pg	99

Data File : I:\MS19\DATA\2021 03\17\03172108.D
 Acq On : 17 Mar 2021 12:34
 Sample : P2101325-001 (1000mL)
 Misc : S34-01272101

Vial: 2
 Operator: TZ
 Inst : MS19

Quant Time: Mar 19 10:31:08 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 14:07:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

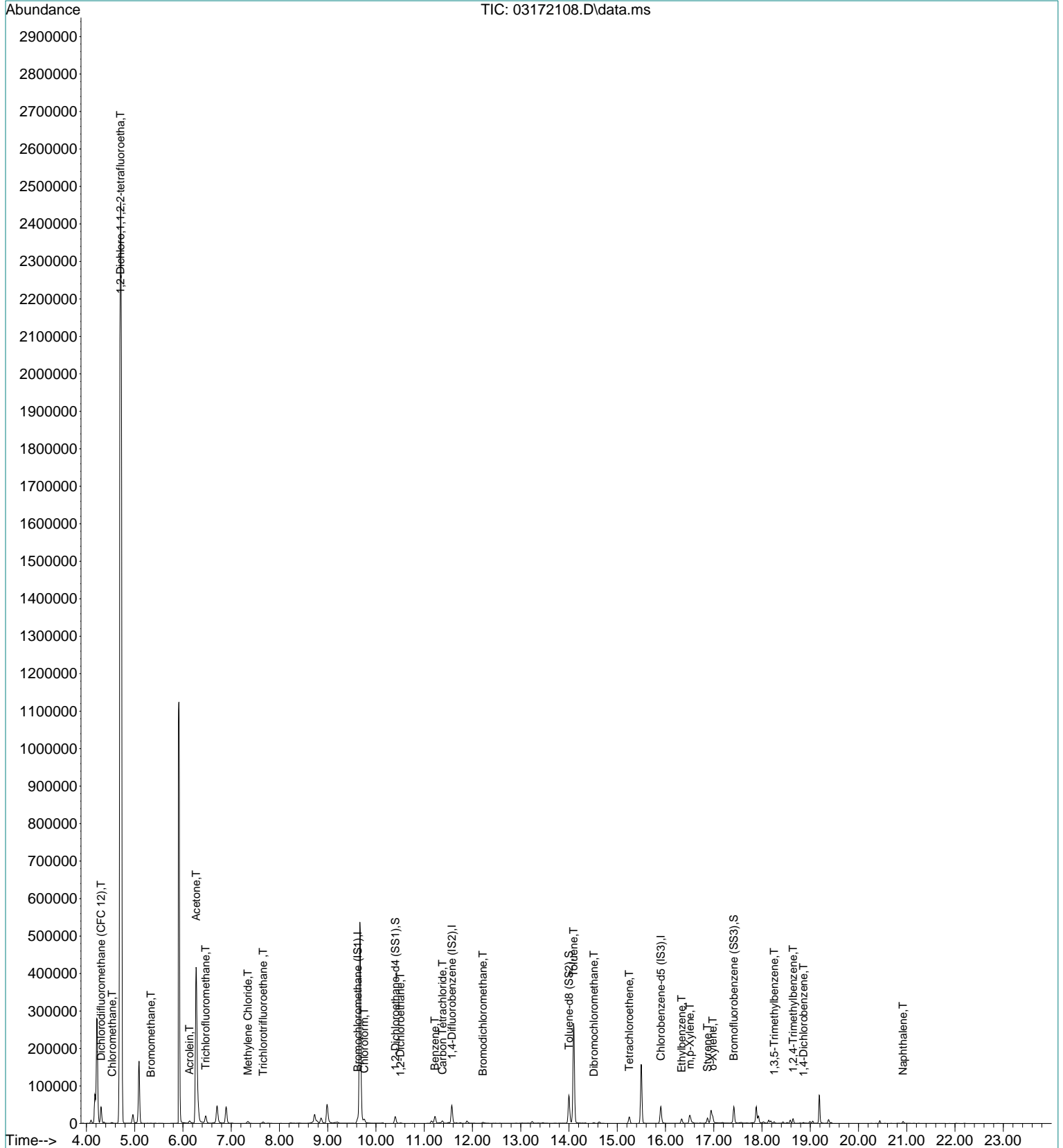
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Hexachlorobutadiene	21.25	225	72	N.D.		

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

Data File : I:\MS19\DATA\2021 03\17\03172108.D
Acq On : 17 Mar 2021 12:34
Sample : P2101325-001 (1000mL)
Misc : S34-01272101

Vial: 2
Operator: TZ
Inst : MS19

Quant Time: Mar 19 10:31:08 2021
Quant Method : I:\MS19\METHODS\S19031621.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Mar 16 14:07:28 2021
Response via : Initial Calibration
DataAcq Meth:TO15SIM.M



Data File : I:\MS19\DATA\2021 03\17\03172108.D
 Acq On : 17 Mar 2021 12:34
 Sample : P2101325-001 (1000mL)
 Misc : S34-01272101

Vial: 2
 Operator: TZ
 Inst : MS19

TZ 3/19/21

Quant Time: Mar 19 10:31:08 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 14:07:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	9.62	130	19248	1000.000	pg	-0.02
25) 1,4-Difluorobenzene (IS2)	11.57	114	89123	1000.000	pg	0.00
38) Chlorobenzene-d5 (IS3)	15.90	54	16969	1000.000	pg	0.00

System Monitoring Compounds

20) 1,2-Dichloroethane-d4 ...	10.40	65	28783	988.901	pg	-0.01
Spiked Amount	1000.000	Range	70 - 130	Recovery	=	98.89%
33) Toluene-d8 (SS2)	14.00	98	98167	1008.478	pg	0.00
Spiked Amount	1000.000	Range	70 - 130	Recovery	=	100.85%
45) Bromofluorobenzene (SS3)	17.42	174	32433	956.580	pg	0.00
Spiked Amount	1000.000	Range	70 - 130	Recovery	=	95.66%

Target Compounds

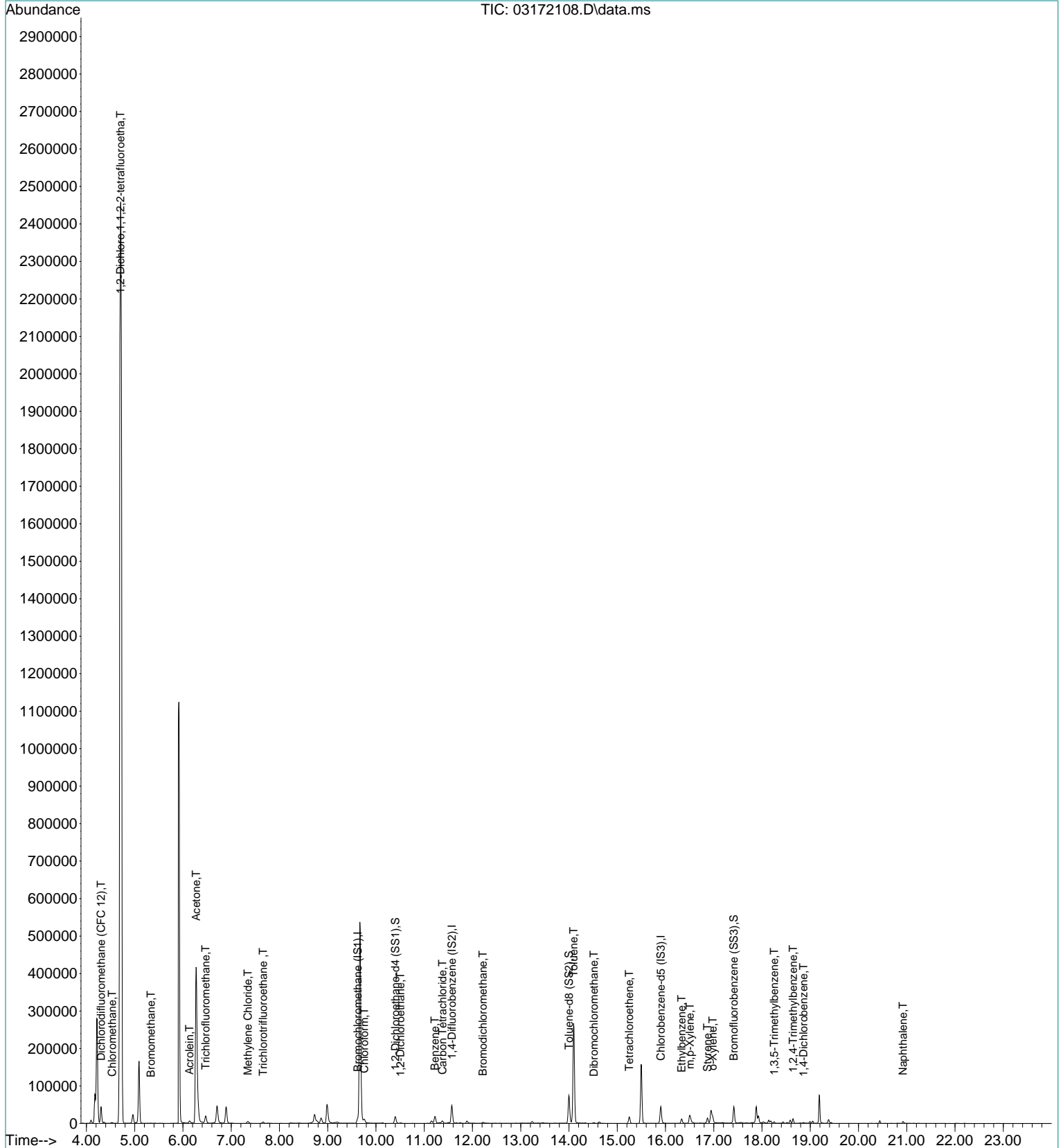
	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethan...	4.30	85	58311	1309.362	pg	100
3) Chloromethane	4.53	52	1032	126.430	pg	99
4) 1,2-Dichloro,1,1,2,2-t...	4.70	85	6467	112.447	pg	99
7) Bromomethane	5.34	94	408	24.909	pg	94
9) Acrolein	6.14	56	9997	1065.700	pg	100
10) Acetone	6.27	58	274532	21850.943	pg	98
11) Trichlorofluoromethane	6.47	101	25613	719.623	pg	100
13) Methylene Chloride	7.34	84	4692	212.430	pg	94
14) Trichlorotrifluoroethane	7.66	151	4991	293.574	pg	100
19) Chloroform	9.76	83	11578	299.664	pg	99
21) 1,2-Dichloroethane	10.51	62	1929	69.131	pg	99
23) Benzene	11.22	78	33438	380.990	pg	99
24) Carbon Tetrachloride	11.37	117	6893	251.701	pg	99
27) Bromodichloromethane	12.22	83	3911	123.754	pg	94
34) Toluene	14.10	91	344607	3514.939	pg	100
35) Dibromochloromethane	14.51	129	1900	80.508	pg	100
37) Tetrachloroethene	15.25	166	22041	858.321	pg	100
40) Ethylbenzene	16.34	91	18573	158.456	pg	100
41) m,p-Xylene	16.51	91	37335	416.227	pg	99
42) Styrene	16.87	104	15998	251.935	pg	99
43) o-Xylene	16.98	106	7610	169.479	pg	99
46) 1,3,5-Trimethylbenzene	18.25	105	4009	42.050	pg	99
47) 1,2,4-Trimethylbenzene	18.65	105	13380	133.063	pg	88
49) 1,4-Dichlorobenzene	18.86	146	1678	27.992	pg	100
53) Naphthalene	20.92	128	8067	64.442	pg	99

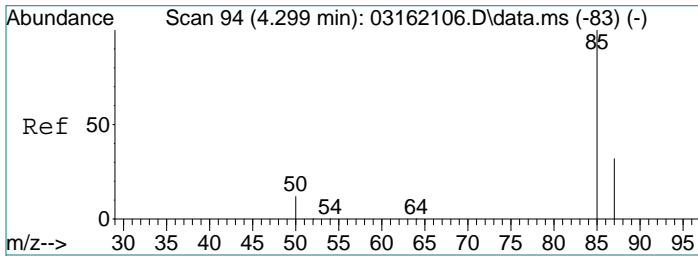
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS19\DATA\2021 03\17\03172108.D
Acq On : 17 Mar 2021 12:34
Sample : P2101325-001 (1000mL)
Misc : S34-01272101

Vial: 2
Operator: TZ
Inst : MS19

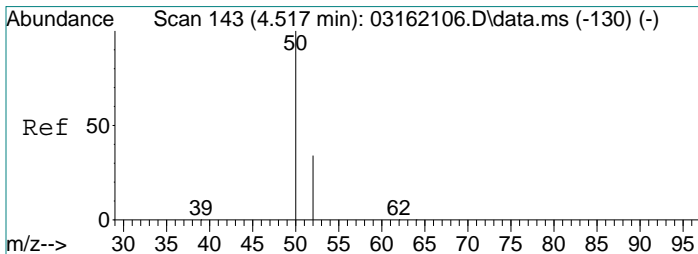
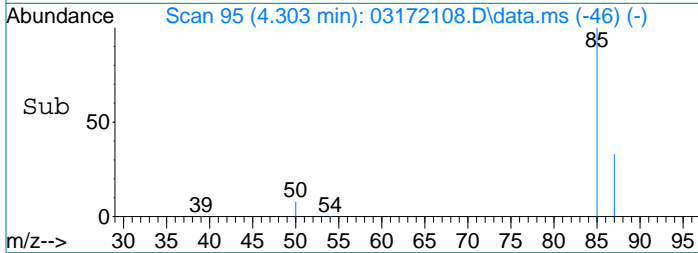
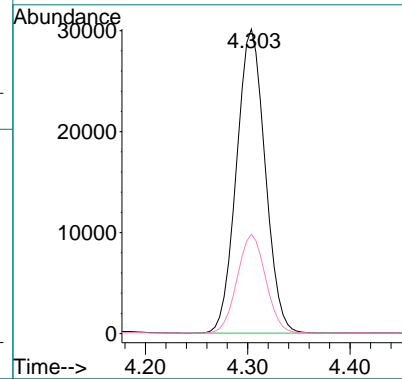
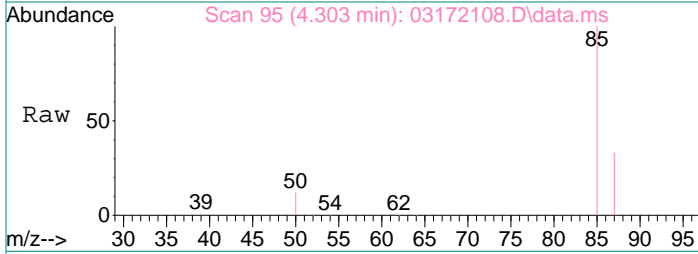
Quant Time: Mar 19 10:31:08 2021
Quant Method : I:\MS19\METHODS\S19031621.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Mar 16 14:07:28 2021
Response via : Initial Calibration
DataAcq Meth:TO15SIM.M





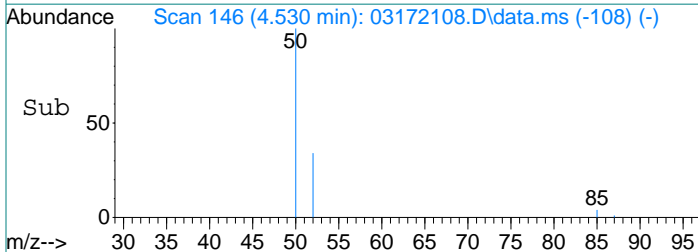
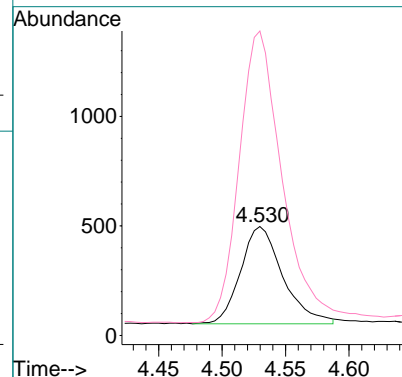
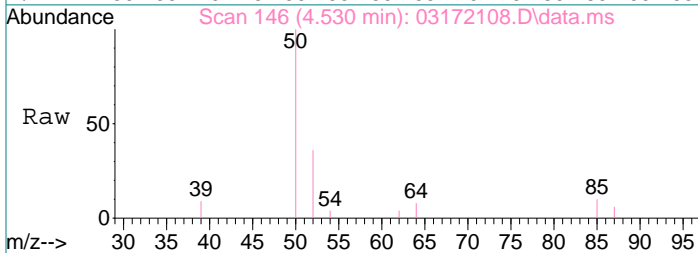
#2
 Dichlorodifluoromethane (CFC 12)
 Concen: 1309.36 pg
 RT: 4.30 min Scan# 95
 Delta R.T. 0.017 min
 Lab File: 03172108.D
 Acq: 17 Mar 2021 12:34

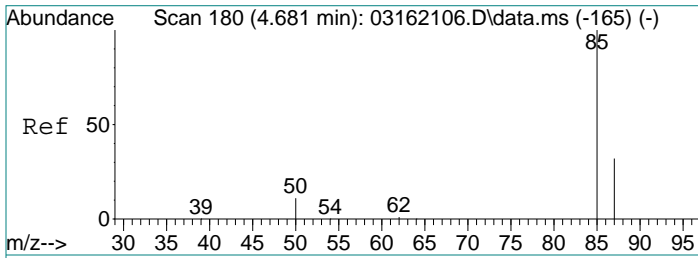
Tgt Ion	Resp	Lower	Upper
85	58311		
85	100		
87	32.4	12.4	52.4



#3
 Chloromethane
 Concen: 126.43 pg
 RT: 4.53 min Scan# 146
 Delta R.T. 0.017 min
 Lab File: 03172108.D
 Acq: 17 Mar 2021 12:34

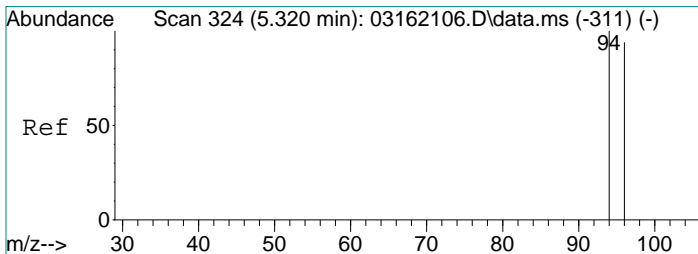
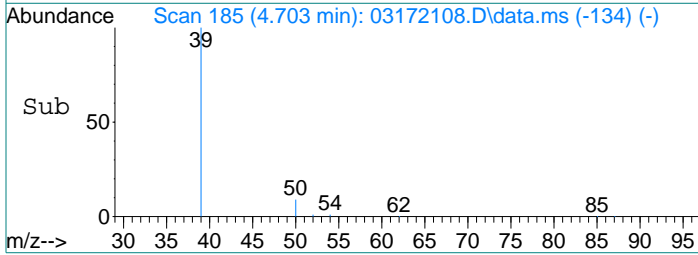
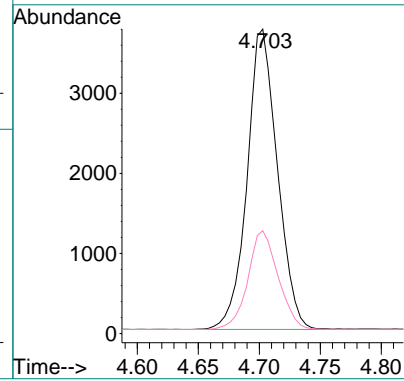
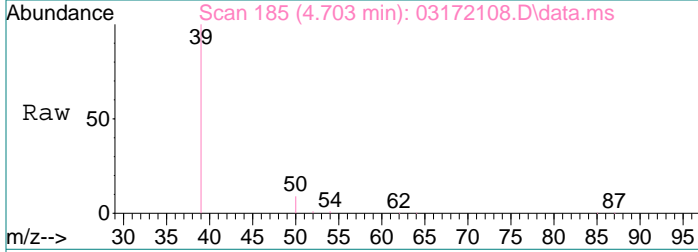
Tgt Ion	Resp	Lower	Upper
52	1032		
52	100		
50	301.0	278.5	318.5





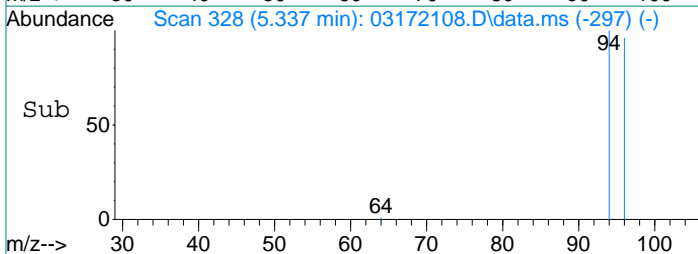
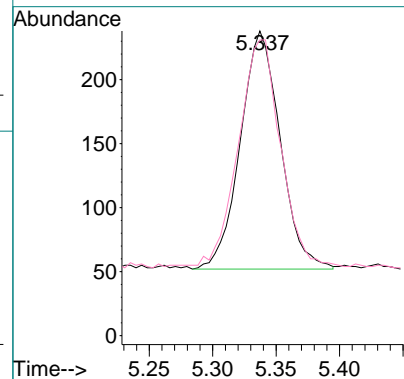
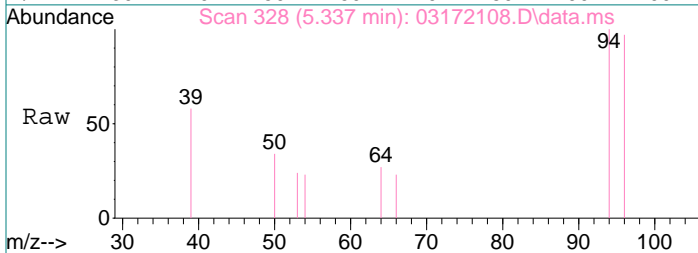
#4
 1,2-Dichloro,1,1,2,2-tetrafluoroetha
 Concen: 112.45 pg
 RT: 4.70 min Scan# 185
 Delta R.T. 0.026 min
 Lab File: 03172108.D
 Acq: 17 Mar 2021 12:34

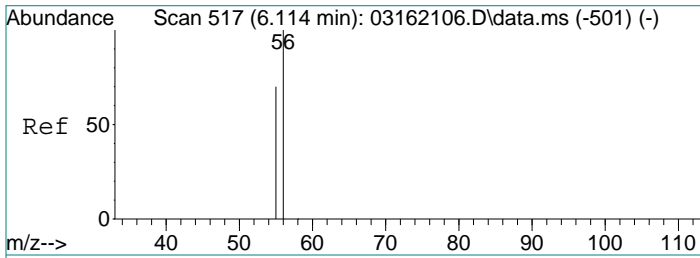
Tgt Ion: 85 Resp: 6467
 Ion Ratio Lower Upper
 85 100
 87 32.9 25.8 38.8



#7
 Bromomethane
 Concen: 24.91 pg
 RT: 5.34 min Scan# 328
 Delta R.T. 0.008 min
 Lab File: 03172108.D
 Acq: 17 Mar 2021 12:34

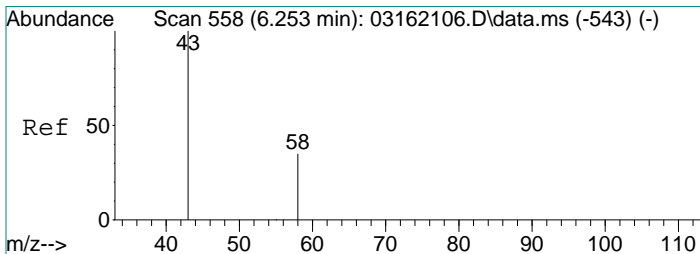
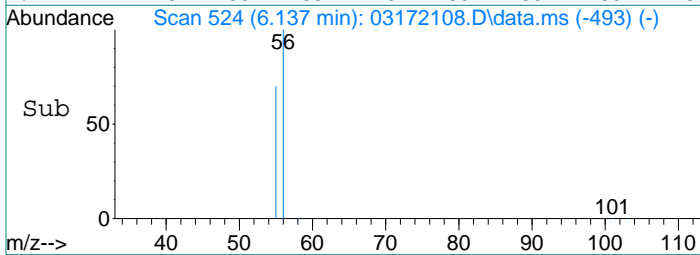
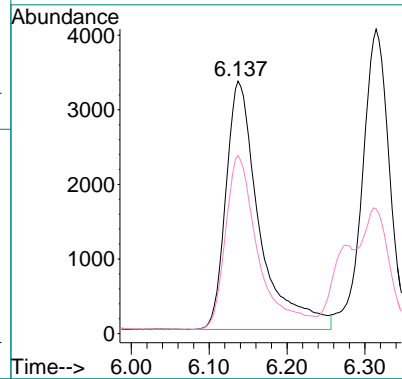
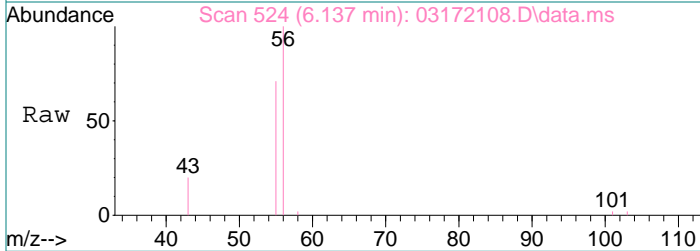
Tgt Ion: 94 Resp: 408
 Ion Ratio Lower Upper
 94 100
 96 100.0 75.2 112.8





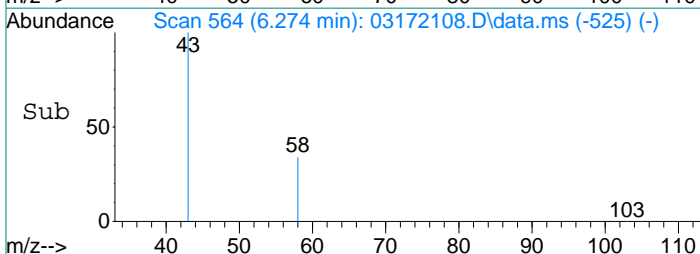
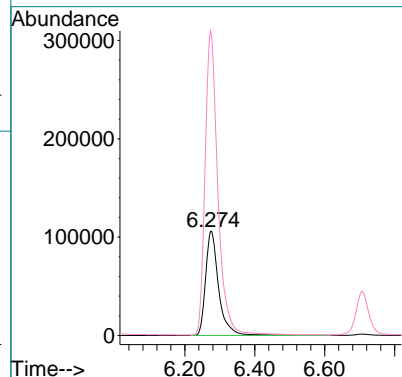
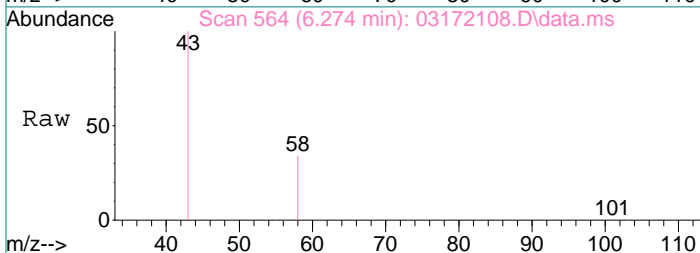
#9
 Acrolein
 Concen: 1065.70 pg
 RT: 6.14 min Scan# 524
 Delta R.T. -0.004 min
 Lab File: 03172108.D
 Acq: 17 Mar 2021 12:34

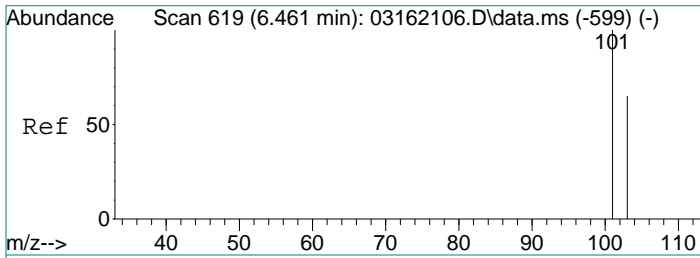
Tgt Ion: 56 Resp: 9997
 Ion Ratio Lower Upper
 56 100
 55 68.4 54.7 82.1



#10
 Acetone
 Concen: 21850.94 pg
 RT: 6.27 min Scan# 564
 Delta R.T. -0.017 min
 Lab File: 03172108.D
 Acq: 17 Mar 2021 12:34

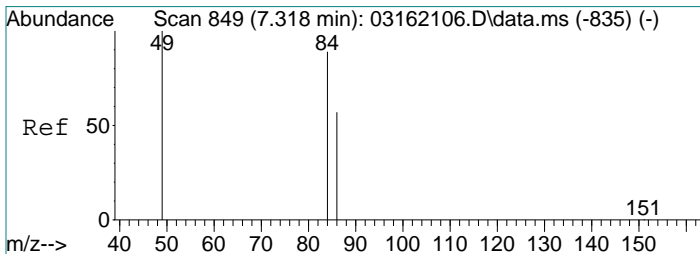
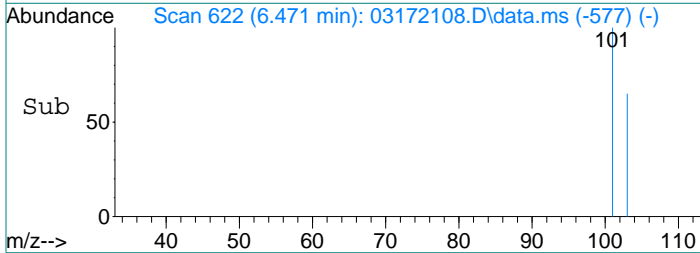
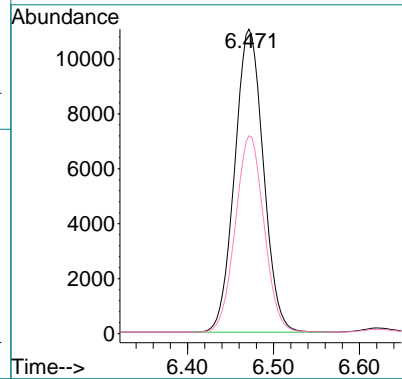
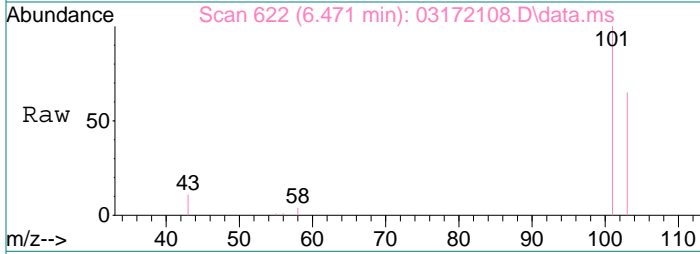
Tgt Ion: 58 Resp: 274532
 Ion Ratio Lower Upper
 58 100
 43 285.6 270.4 310.4





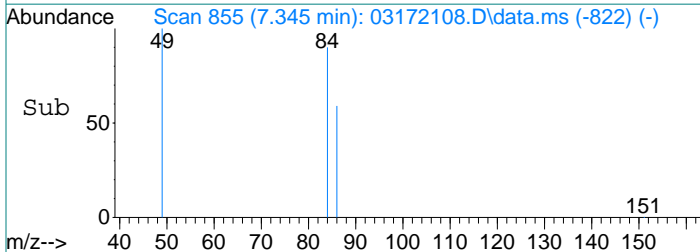
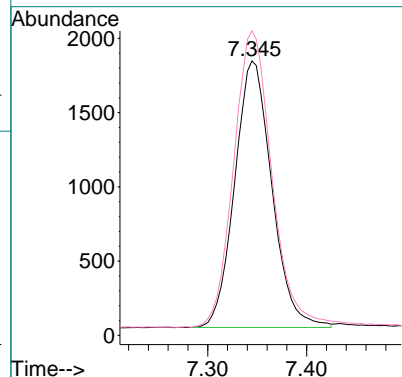
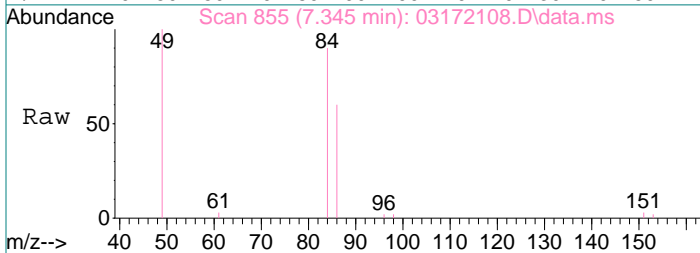
#11
 Trichlorofluoromethane
 Concen: 719.62 pg
 RT: 6.47 min Scan# 622
 Delta R.T. 0.003 min
 Lab File: 03172108.D
 Acq: 17 Mar 2021 12:34

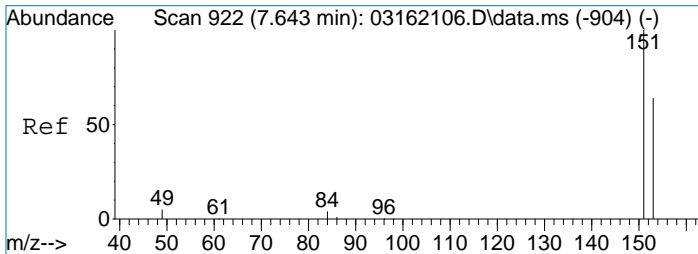
Tgt Ion: 101 Resp: 25613
 Ion Ratio Lower Upper
 101 100
 103 64.8 51.8 77.6



#13
 Methylene Chloride
 Concen: 212.43 pg
 RT: 7.34 min Scan# 855
 Delta R.T. -0.014 min
 Lab File: 03172108.D
 Acq: 17 Mar 2021 12:34

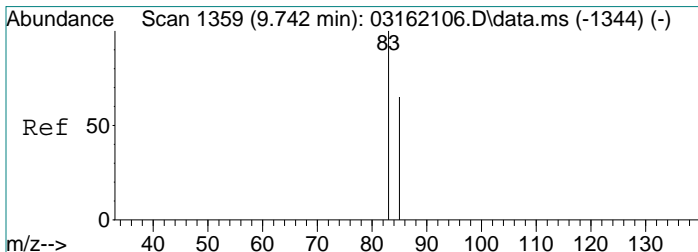
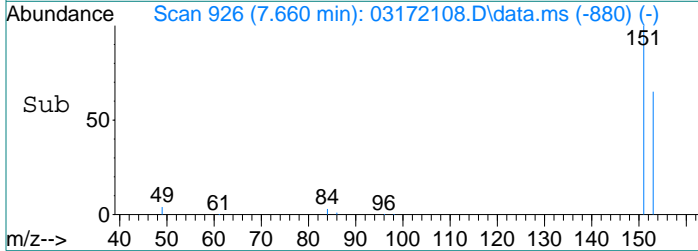
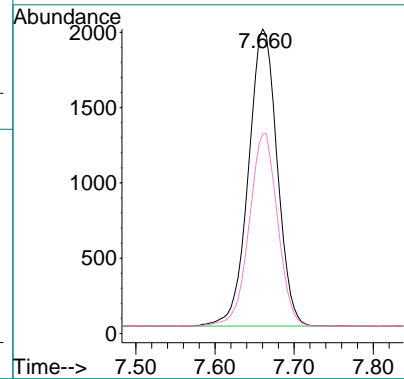
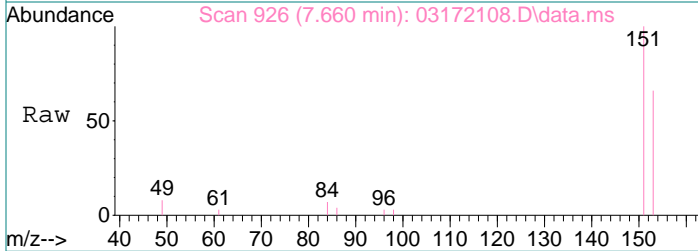
Tgt Ion: 84 Resp: 4692
 Ion Ratio Lower Upper
 84 100
 49 115.6 89.4 129.4





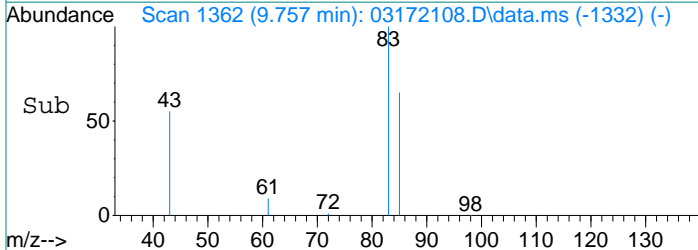
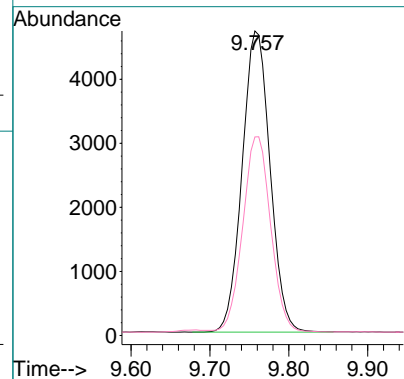
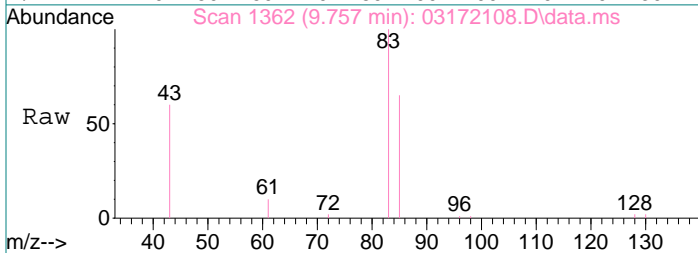
#14
 Trichlorotrifluoroethane
 Concen: 293.57 pg
 RT: 7.66 min Scan# 926
 Delta R.T. 0.004 min
 Lab File: 03172108.D
 Acq: 17 Mar 2021 12:34

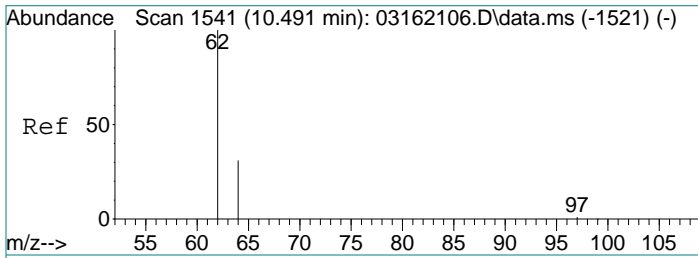
Tgt Ion: 151 Resp: 4991
 Ion Ratio Lower Upper
 151 100
 153 64.2 43.9 83.9



#19
 Chloroform
 Concen: 299.66 pg
 RT: 9.76 min Scan# 1362
 Delta R.T. -0.021 min
 Lab File: 03172108.D
 Acq: 17 Mar 2021 12:34

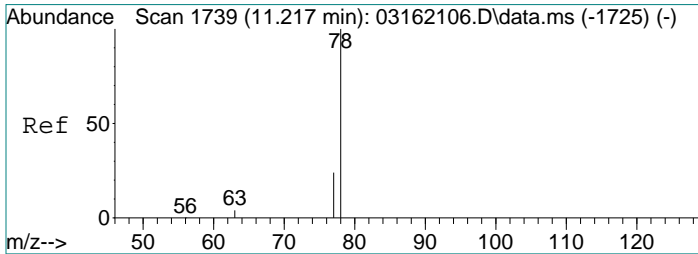
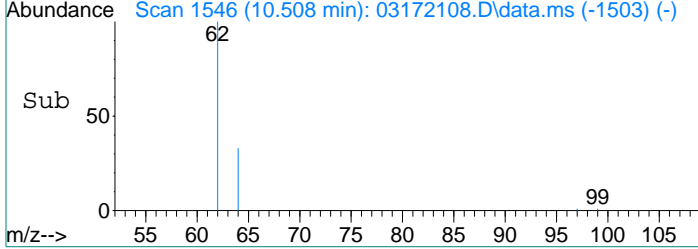
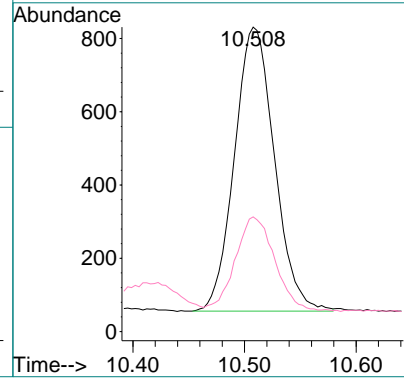
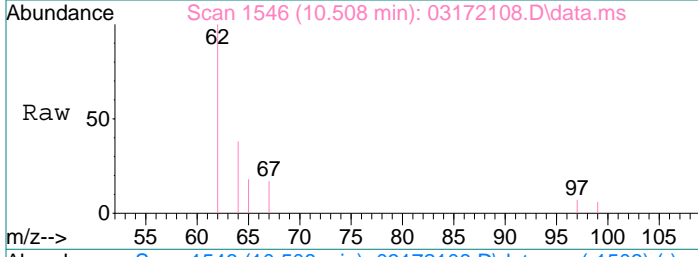
Tgt Ion: 83 Resp: 11578
 Ion Ratio Lower Upper
 83 100
 85 65.0 45.7 85.7





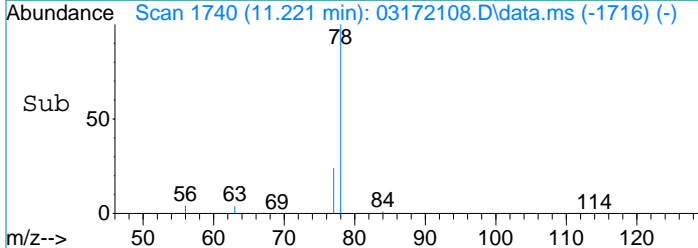
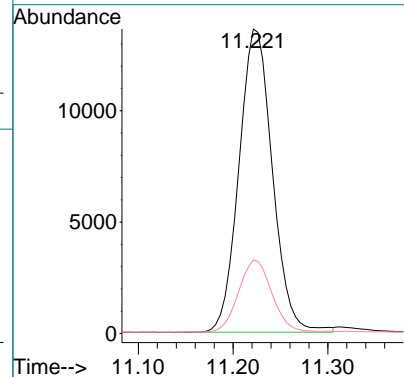
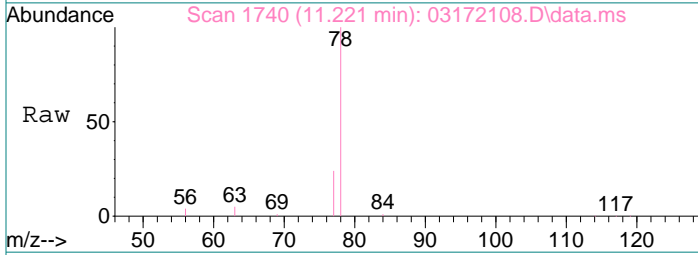
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 1,2-Dichloroethane
 Concen: 69.13 pg
 RT: 10.51 min Scan# 1546
 Delta R.T. -0.004 min
 Lab File: 03172108.D
 Acq: 17 Mar 2021 12:34

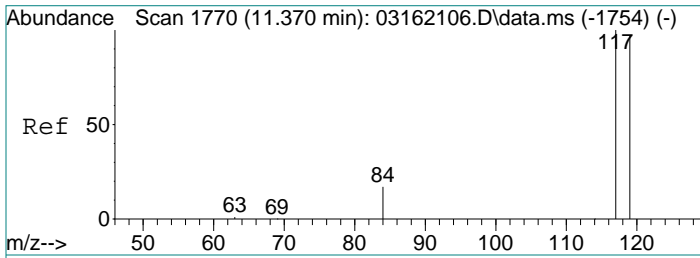
Tgt Ion: 62 Resp: 1929
 Ion Ratio Lower Upper
 62 100
 64 31.8 11.5 51.5



#23
 Benzene
 Concen: 380.99 pg
 RT: 11.22 min Scan# 1740
 Delta R.T. -0.011 min
 Lab File: 03172108.D
 Acq: 17 Mar 2021 12:34

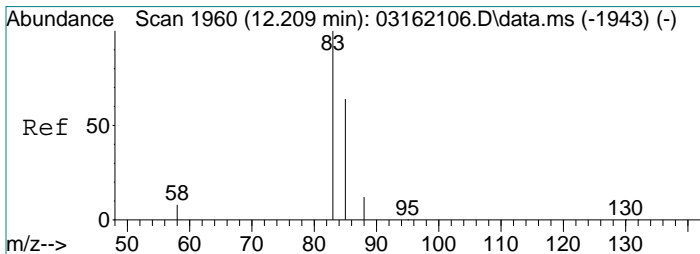
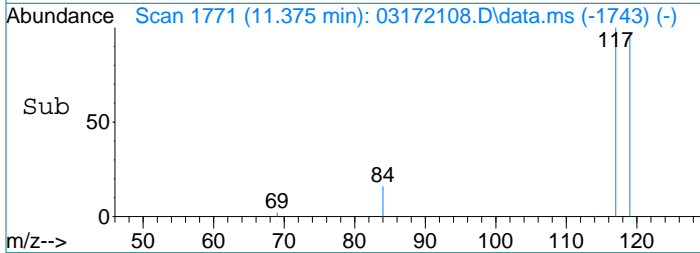
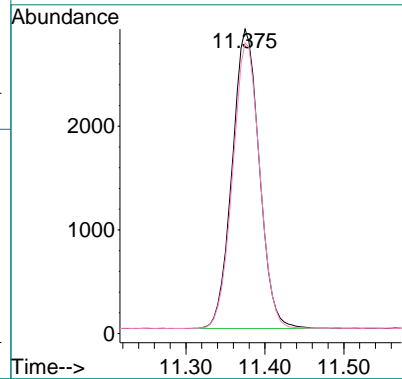
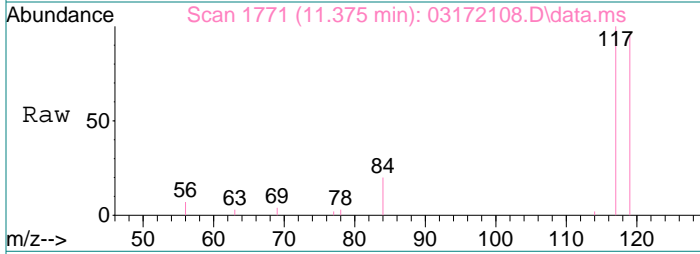
Tgt Ion: 78 Resp: 33438
 Ion Ratio Lower Upper
 78 100
 77 24.0 3.6 43.6





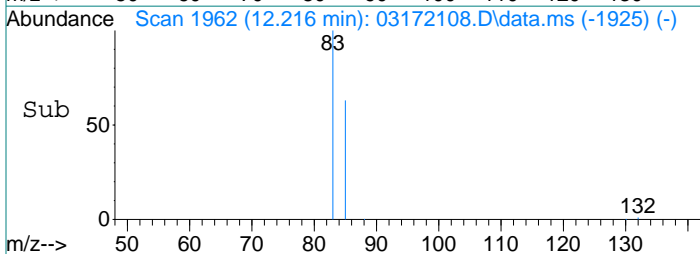
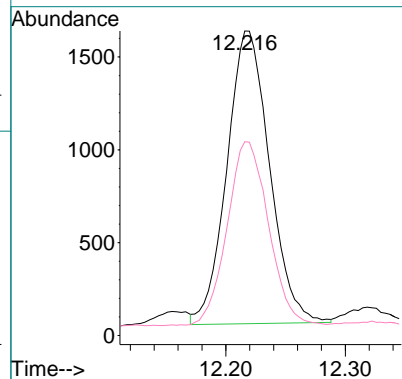
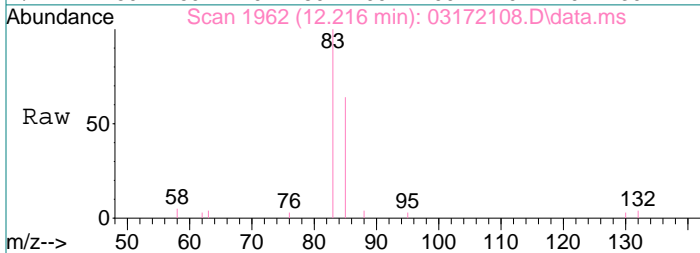
#24
 Carbon Tetrachloride
 Concen: 251.70 pg
 RT: 11.37 min Scan# 1771
 Delta R.T. -0.011 min
 Lab File: 03172108.D
 Acq: 17 Mar 2021 12:34

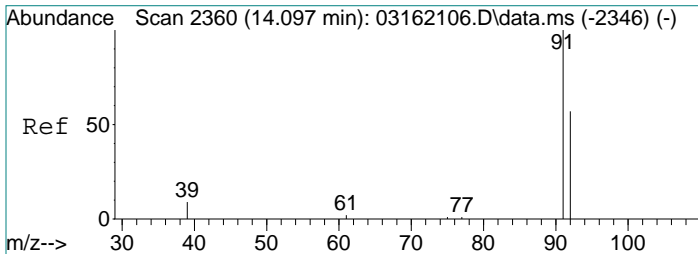
Tgt Ion: 117 Resp: 6893
 Ion Ratio Lower Upper
 117 100
 119 95.3 75.8 115.8



#27
 Bromodichloromethane
 Concen: 123.75 pg
 RT: 12.22 min Scan# 1962
 Delta R.T. -0.009 min
 Lab File: 03172108.D
 Acq: 17 Mar 2021 12:34

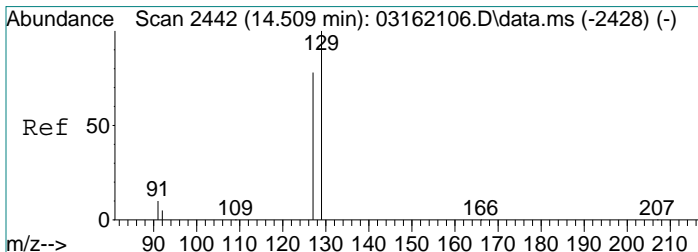
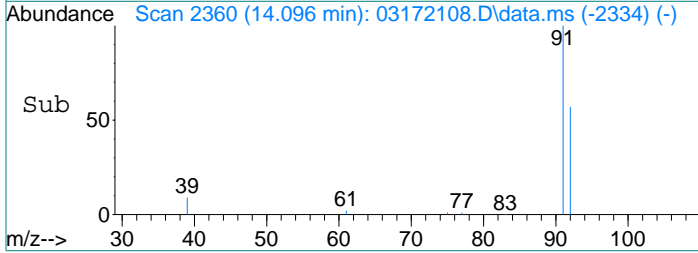
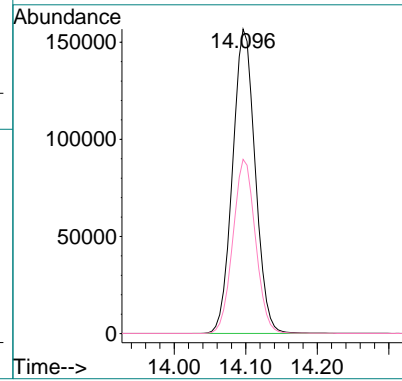
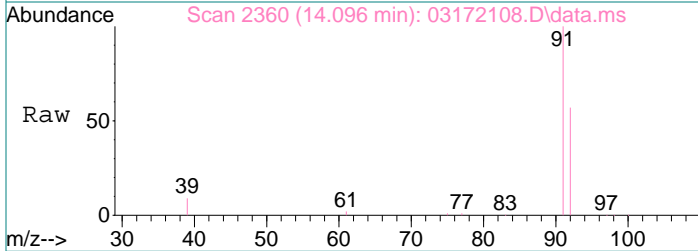
Tgt Ion: 83 Resp: 3911
 Ion Ratio Lower Upper
 83 100
 85 60.6 52.0 78.0





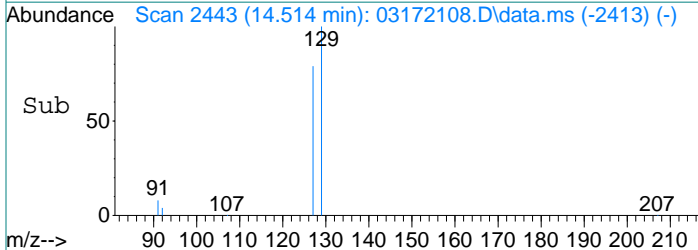
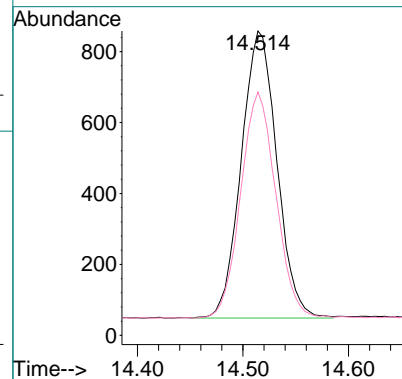
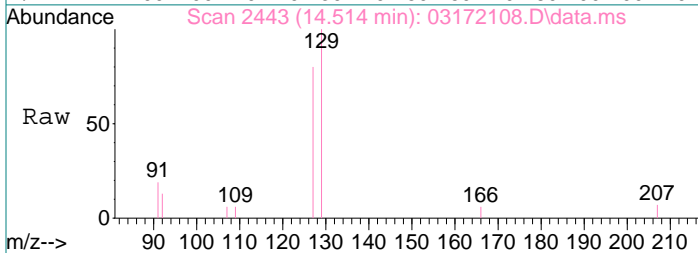
#34
 Toluene
 Concen: 3514.94 pg
 RT: 14.10 min Scan# 2360
 Delta R.T. -0.006 min
 Lab File: 03172108.D
 Acq: 17 Mar 2021 12:34

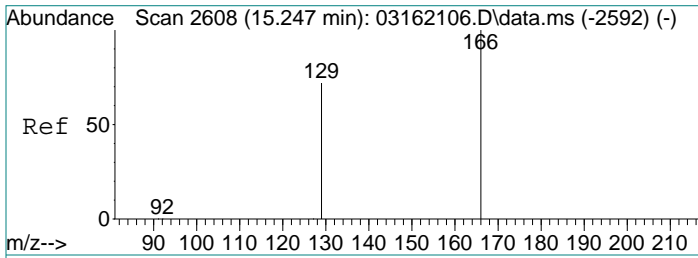
Tgt Ion: 91 Resp: 344607
 Ion Ratio Lower Upper
 91 100
 92 57.2 37.1 77.1



#35
 Dibromochloromethane
 Concen: 80.51 pg
 RT: 14.51 min Scan# 2443
 Delta R.T. -0.004 min
 Lab File: 03172108.D
 Acq: 17 Mar 2021 12:34

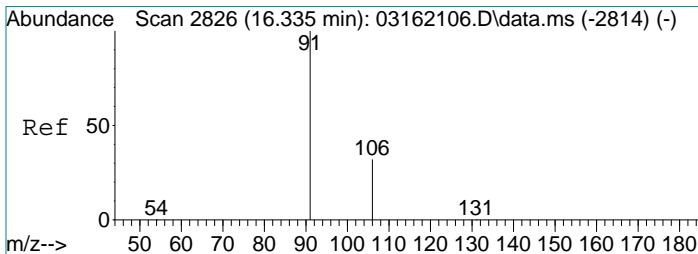
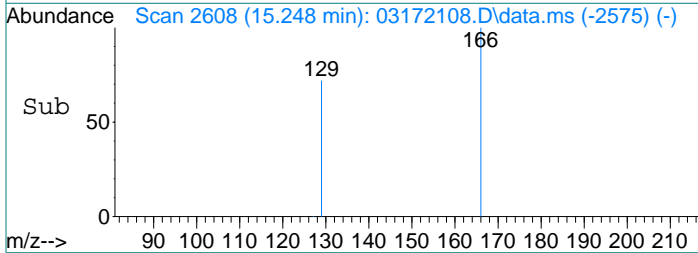
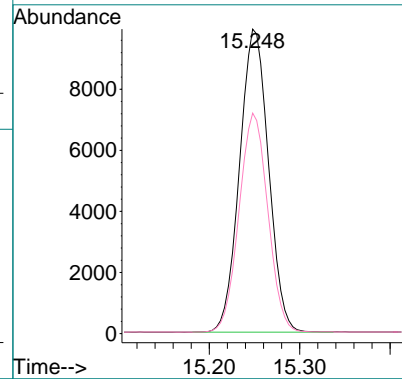
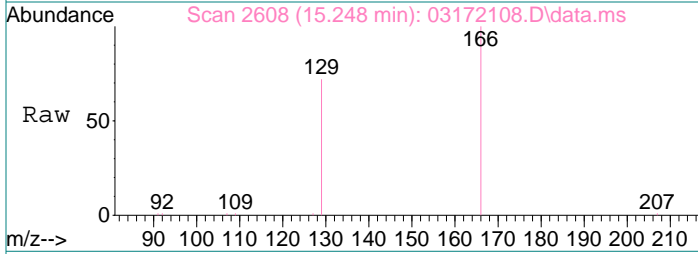
Tgt Ion: 129 Resp: 1900
 Ion Ratio Lower Upper
 129 100
 127 77.6 61.8 92.6





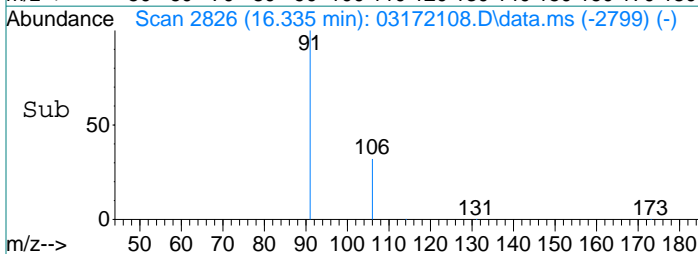
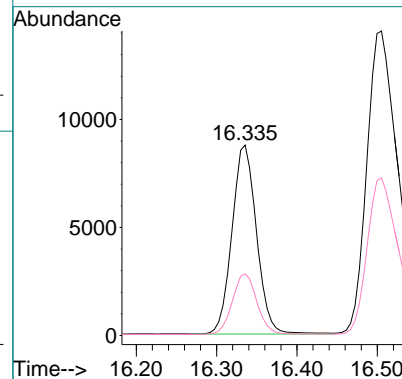
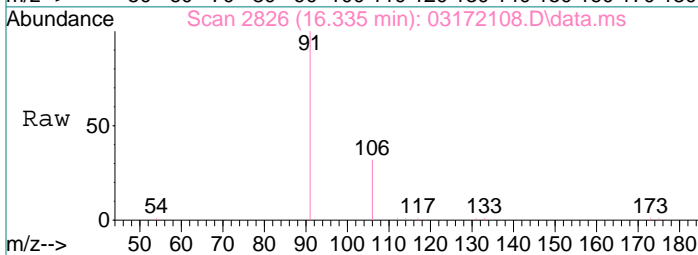
#37
 Tetrachloroethene
 Concen: 858.32 pg
 RT: 15.25 min Scan# 2608
 Delta R.T. -0.004 min
 Lab File: 03172108.D
 Acq: 17 Mar 2021 12:34

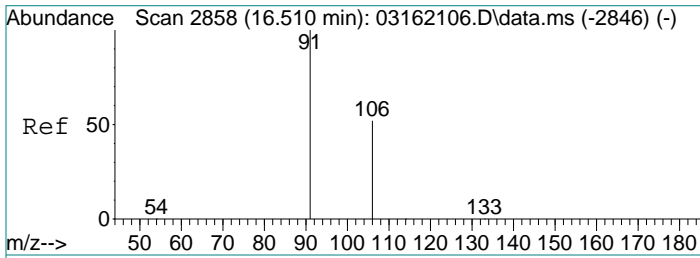
Tgt Ion	Resp	Lower	Upper
166	22041		
129	71.9	51.5	91.5



#40
 Ethylbenzene
 Concen: 158.46 pg
 RT: 16.34 min Scan# 2826
 Delta R.T. 0.000 min
 Lab File: 03172108.D
 Acq: 17 Mar 2021 12:34

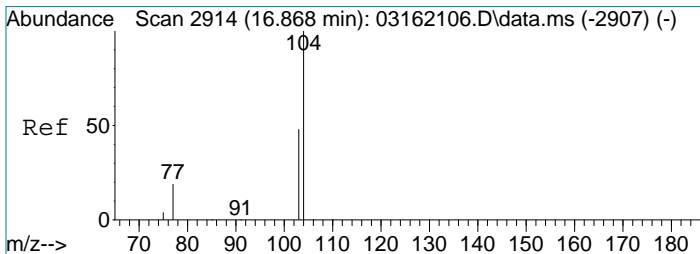
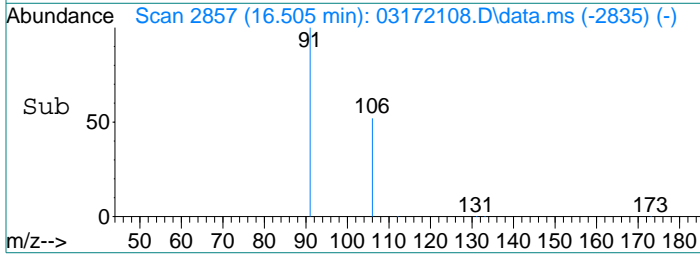
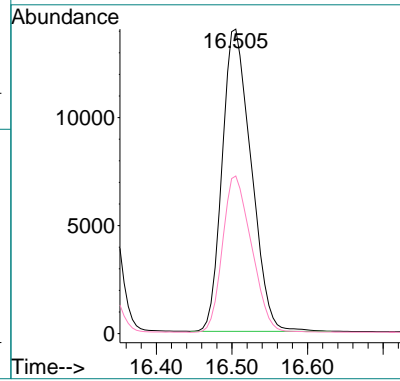
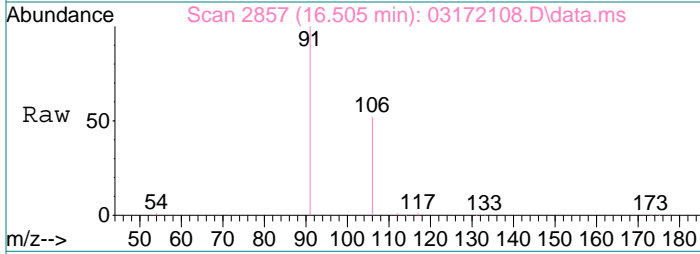
Tgt Ion	Resp	Lower	Upper
91	18573		
106	32.0	12.1	52.1





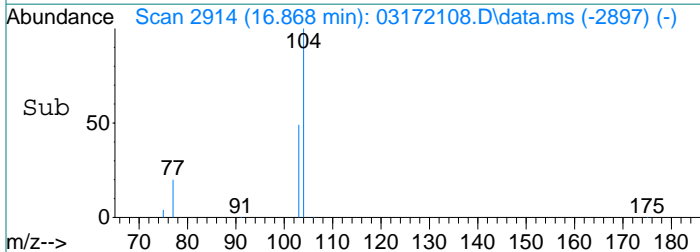
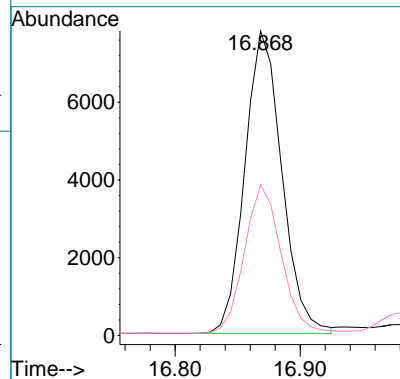
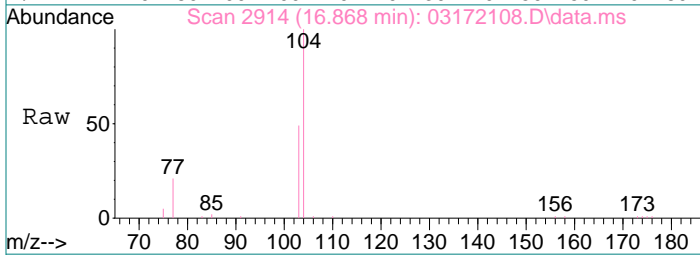
#41
 m,p-Xylene
 Concen: 416.23 pg
 RT: 16.51 min Scan# 2857
 Delta R.T. -0.011 min
 Lab File: 03172108.D
 Acq: 17 Mar 2021 12:34

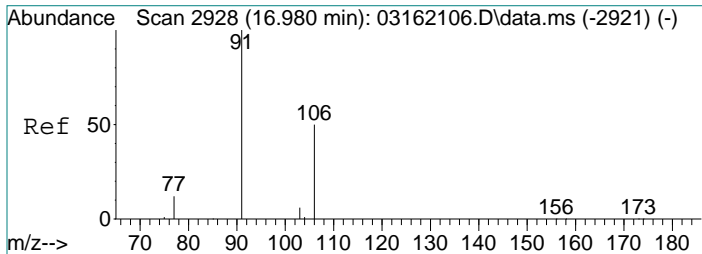
Tgt Ion: 91 Resp: 37335
 Ion Ratio Lower Upper
 91 100
 106 51.7 32.1 72.1



#42
 Styrene
 Concen: 251.93 pg
 RT: 16.87 min Scan# 2914
 Delta R.T. 0.000 min
 Lab File: 03172108.D
 Acq: 17 Mar 2021 12:34

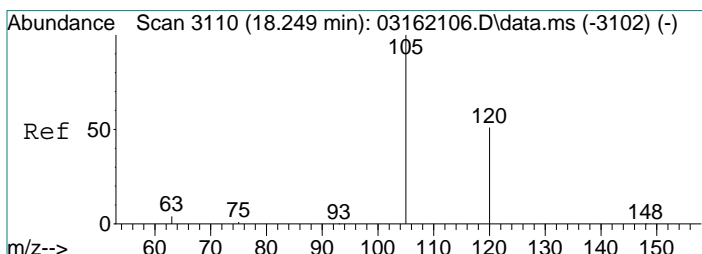
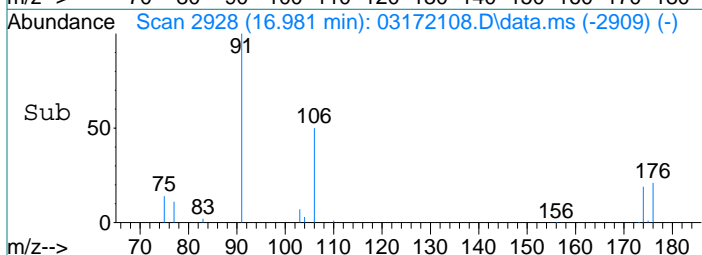
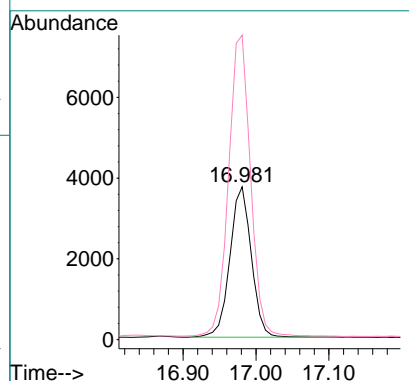
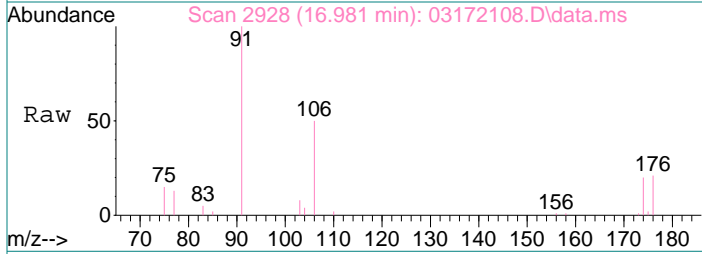
Tgt Ion: 104 Resp: 15998
 Ion Ratio Lower Upper
 104 100
 103 48.8 38.5 57.7





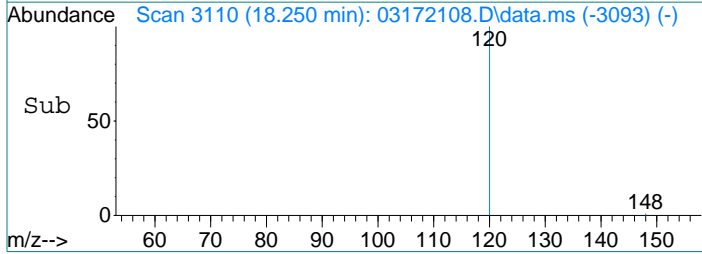
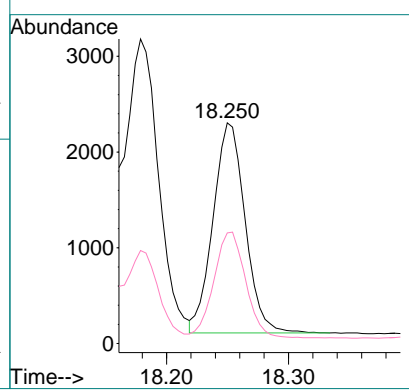
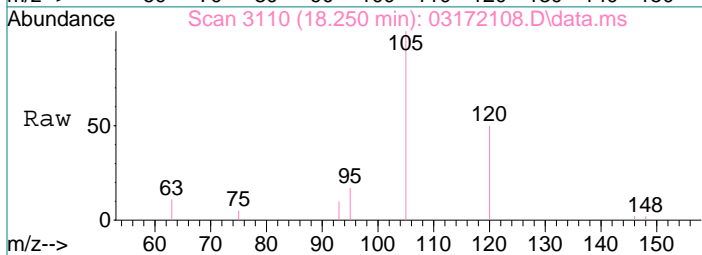
#43
 o-Xylene
 Concen: 169.48 pg
 RT: 16.98 min Scan# 2928
 Delta R.T. -0.000 min
 Lab File: 03172108.D
 Acq: 17 Mar 2021 12:34

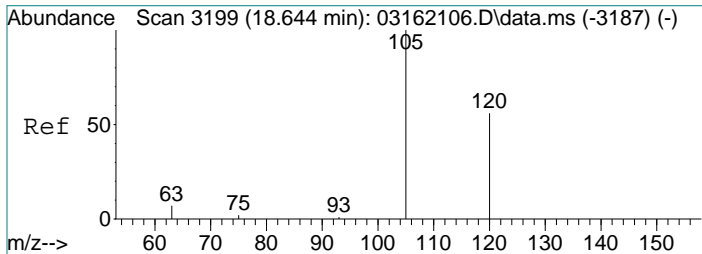
Tgt Ion	Resp	Lower	Upper
106	7610		
106	100		
91	204.3	185.5	225.5



#46
 1,3,5-Trimethylbenzene
 Concen: 42.05 pg
 RT: 18.25 min Scan# 3110
 Delta R.T. -0.004 min
 Lab File: 03172108.D
 Acq: 17 Mar 2021 12:34

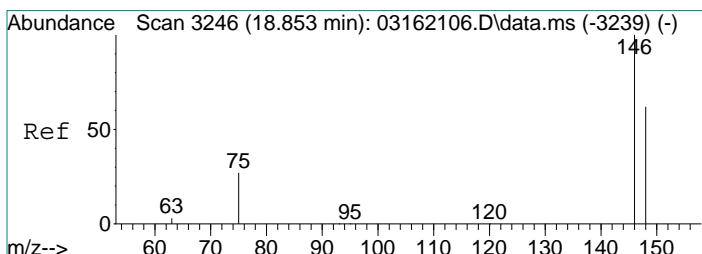
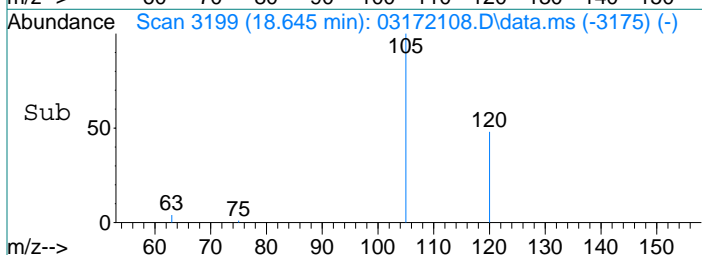
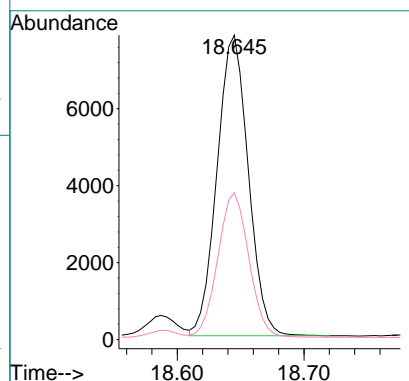
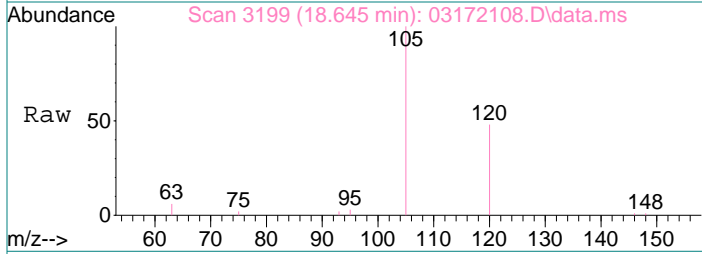
Tgt Ion	Resp	Lower	Upper
105	4009		
105	100		
120	49.6	40.3	60.5





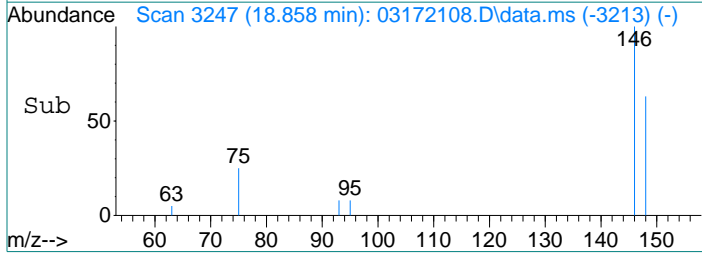
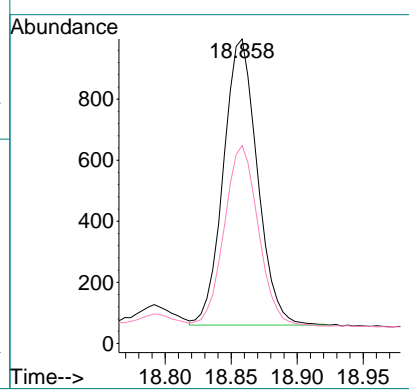
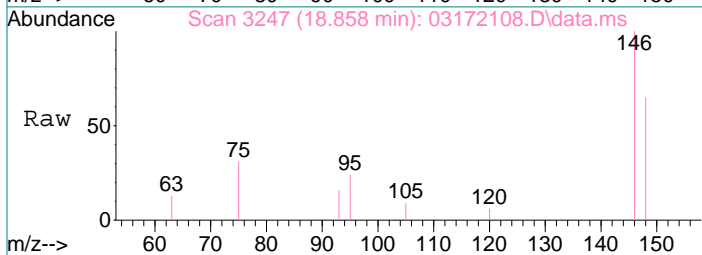
#47
 1,2,4-Trimethylbenzene
 Concen: 133.06 pg
 RT: 18.65 min Scan# 3199
 Delta R.T. -0.004 min
 Lab File: 03172108.D
 Acq: 17 Mar 2021 12:34

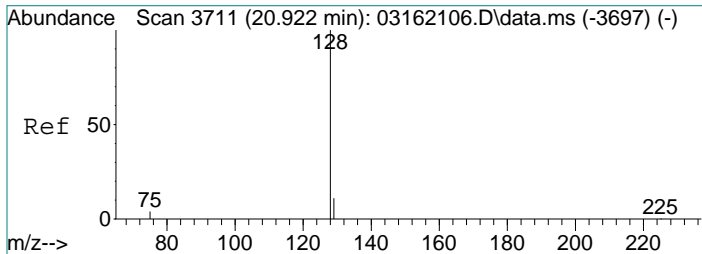
Tgt Ion	Resp	Lower	Upper
105	13380		
120	47.5	45.0	67.6



#49
 1,4-Dichlorobenzene
 Concen: 27.99 pg
 RT: 18.86 min Scan# 3247
 Delta R.T. 0.000 min
 Lab File: 03172108.D
 Acq: 17 Mar 2021 12:34

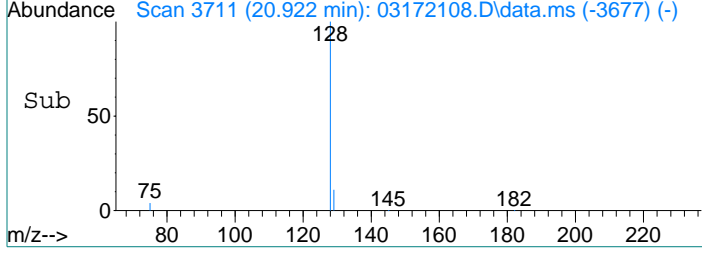
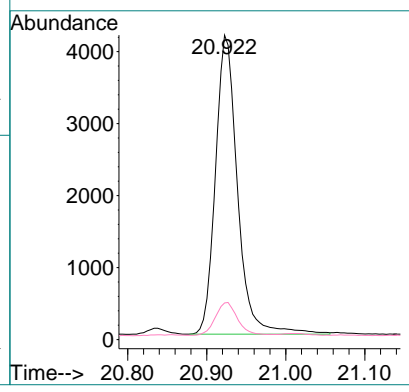
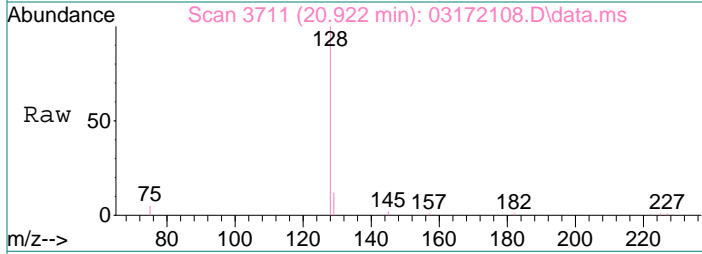
Tgt Ion	Resp	Lower	Upper
146	1678		
148	63.3	43.1	83.1





#53
 Naphthalene
 Concen: 64.44 pg
 RT: 20.92 min Scan# 3711
 Delta R.T. 0.000 min
 Lab File: 03172108.D
 Acq: 17 Mar 2021 12:34

Tgt Ion	Resp	Lower	Upper
128	100		
129	11.1	0.0	30.6



Data File : I:\MS19\DATA\2021 03\17\03172109.D
 Acq On : 17 Mar 2021 13:05
 Sample : P2101325-002 (1000mL)
 Misc : S34-01272101

Vial: 3
 Operator: TZ
 Inst : MS19

TZ 3/19/21

Quant Time: Mar 19 10:34:07 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 14:07:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	9.62	130	20676	1000.000	pg	-0.02
25) 1,4-Difluorobenzene (IS2)	11.57	114	98759	1000.000	pg	0.00
38) Chlorobenzene-d5 (IS3)	15.90	54	17475	1000.000	pg	0.00

System Monitoring Compounds

20) 1,2-Dichloroethane-d4 ...	10.40	65	32065	1025.575	pg	-0.01
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	102.56%	
33) Toluene-d8 (SS2)	14.00	98	110095	1020.661	pg	0.00
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	102.07%	
45) Bromofluorobenzene (SS3)	17.42	174	35188	1007.784	pg	0.00
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	100.78%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethan...	4.30	85	68574	1433.467	pg	100
3) Chloromethane	4.52	52	2323	264.934	pg	98
4) 1,2-Dichloro,1,1,2,2-t...	4.69	85	4322	69.960	pg	100
5) Vinyl Chloride	4.82	62	293	N.D.		
6) 1,3-Butadiene	0.00	54	0	N.D.	d	
7) Bromomethane	5.33	94	396	22.506	pg	97
8) Chloroethane	5.55	64	265	21.285	pg	97
9) Acrolein	6.13	56	7883	782.304	pg	98
10) Acetone	6.26	58	465487	34490.847	pg	# 70
11) Trichlorofluoromethane	6.47	101	27826	727.804	pg	100
12) 1,1-Dichloroethene	7.19	96	1200	52.420	pg	99
13) Methylene Chloride	7.34	84	18624	784.963	pg	95
14) Trichlorotrifluoroethane	7.66	151	5425	297.063	pg	99
15) trans-1,2-Dichloroethene	8.37	96	9972	437.435	pg	99
16) 1,1-Dichloroethane	8.58	63	120	N.D.		
17) Methyl tert-Butyl Ether	8.63	73	85	N.D.		
18) cis-1,2-Dichloroethene	9.46	96	908	36.538	pg	99
19) Chloroform	9.76	83	7346	176.999	pg	87
21) 1,2-Dichloroethane	10.53	62	7385	246.384	pg	98
22) 1,1,1-Trichloroethane	10.77	97	403	N.D.		
23) Benzene	11.23	78	32812	348.037	pg	100
24) Carbon Tetrachloride	11.38	117	7767	264.027	pg	100
26) 1,2-Dichloropropane	12.04	63	6090	272.885	pg	100
27) Bromodichloromethane	0.00	83	0	N.D.	d	
28) Trichloroethene	12.27	130	31322	1087.437	pg	100
29) 1,4-Dioxane	0.00	88	0	N.D.	d	
30) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
31) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
32) 1,1,2-Trichloroethane	13.81	83	383	N.D.		
34) Toluene	14.10	91	9126062	84002.127	pg	96
35) Dibromochloromethane	14.52	129	510	N.D.		
36) 1,2-Dibromoethane	0.00	107	0	N.D.		
37) Tetrachloroethene	15.27	166	20290975	713073.827	pg	87
39) Chlorobenzene	0.00	112	0	N.D.	d	
40) Ethylbenzene	16.33	91	150510	1246.900	pg	100
41) m,p-Xylene	16.50	91	315876	3419.558	pg	99
42) Styrene	16.87	104	92835	1419.623	pg	100
43) o-Xylene	16.98	106	56492	1221.682	pg	100
44) 1,1,2,2-Tetrachloroethane	16.98	83	510	N.D.		
46) 1,3,5-Trimethylbenzene	18.25	105	53749	547.445	pg	100
47) 1,2,4-Trimethylbenzene	18.64	105	180365	1741.774	pg	88
48) 1,3-Dichlorobenzene	18.80	146	105	N.D.		
49) 1,4-Dichlorobenzene	18.86	146	4186	67.807	pg	99
50) 1,2-Dichlorobenzene	19.19	146	795	N.D.		
51) 1,2-Dibromo-3-chloropr...	0.00	157	0	N.D.		
52) 1,2,4-Trichlorobenzene	20.81	182	181	N.D.		
53) Naphthalene	20.93	128	18395	142.690	pg	98

Data File : I:\MS19\DATA\2021 03\17\03172109.D
 Acq On : 17 Mar 2021 13:05
 Sample : P2101325-002 (1000mL)
 Misc : S34-01272101

Vial: 3
 Operator: TZ
 Inst : MS19

Quant Time: Mar 19 10:34:07 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 14:07:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

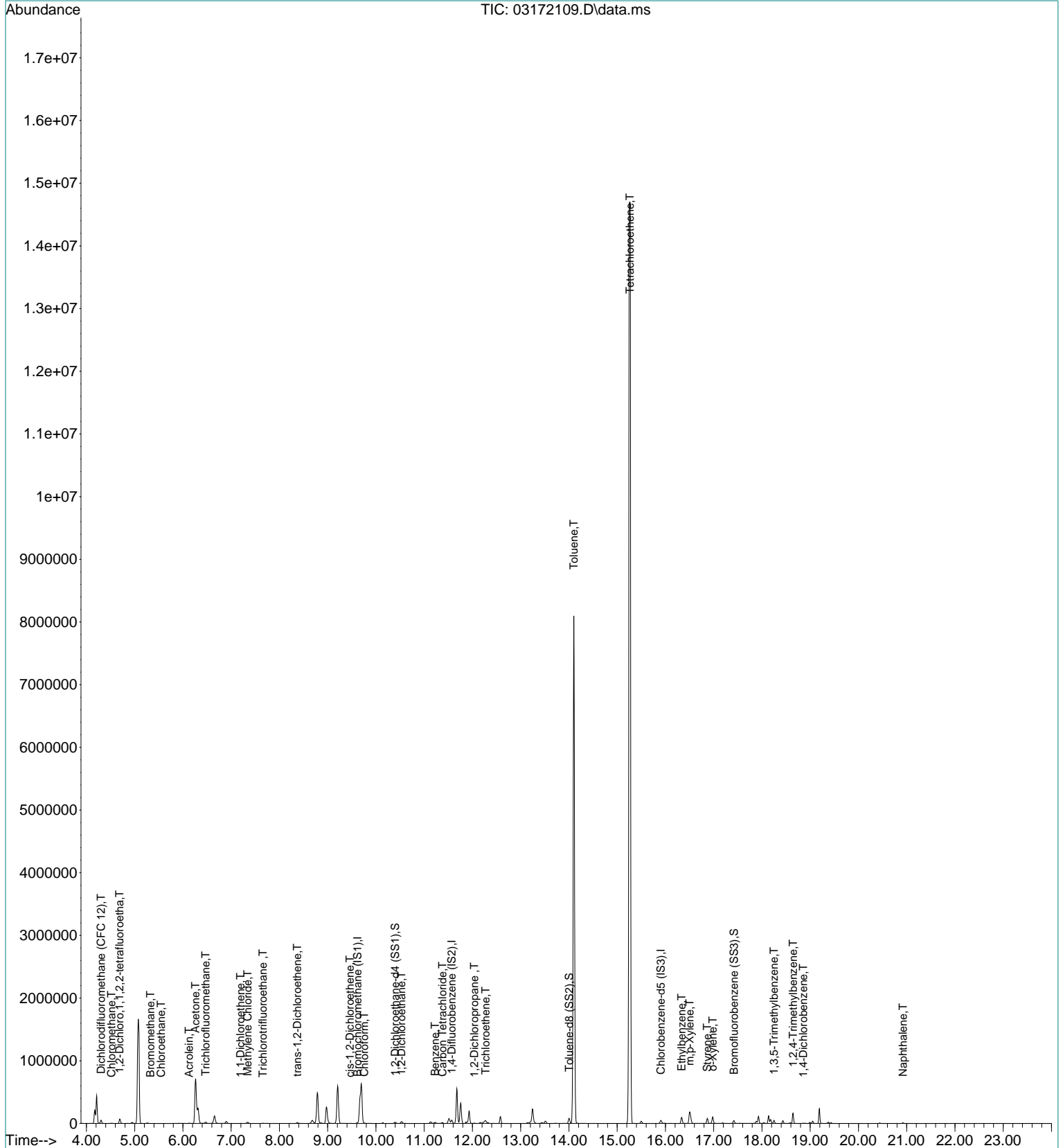
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
54) Hexachlorobutadiene	0.00	225	0	N.D.		

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

Data File : I:\MS19\DATA\2021 03\17\03172109.D
Acq On : 17 Mar 2021 13:05
Sample : P2101325-002 (1000mL)
Misc : S34-01272101

Vial: 3
Operator: TZ
Inst : MS19

Quant Time: Mar 19 10:34:07 2021
Quant Method : I:\MS19\METHODS\S19031621.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Mar 16 14:07:28 2021
Response via : Initial Calibration
DataAcq Meth:TO15SIM.M



Data File : I:\MS19\DATA\2021 03\17\03172109.D
 Acq On : 17 Mar 2021 13:05
 Sample : P2101325-002 (1000mL)
 Misc : S34-01272101

Vial: 3
 Operator: TZ
 Inst : MS19

TZ 3/19/21

Quant Time: Mar 19 10:34:07 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 14:07:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	9.62	130	20676	1000.000	pg	-0.02
25) 1,4-Difluorobenzene (IS2)	11.57	114	98759	1000.000	pg	0.00
38) Chlorobenzene-d5 (IS3)	15.90	54	17475	1000.000	pg	0.00

System Monitoring Compounds

20) 1,2-Dichloroethane-d4 ...	10.40	65	32065	1025.575	pg	-0.01
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	102.56%	
33) Toluene-d8 (SS2)	14.00	98	110095	1020.661	pg	0.00
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	102.07%	
45) Bromofluorobenzene (SS3)	17.42	174	35188	1007.784	pg	0.00
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	100.78%	

Target Compounds

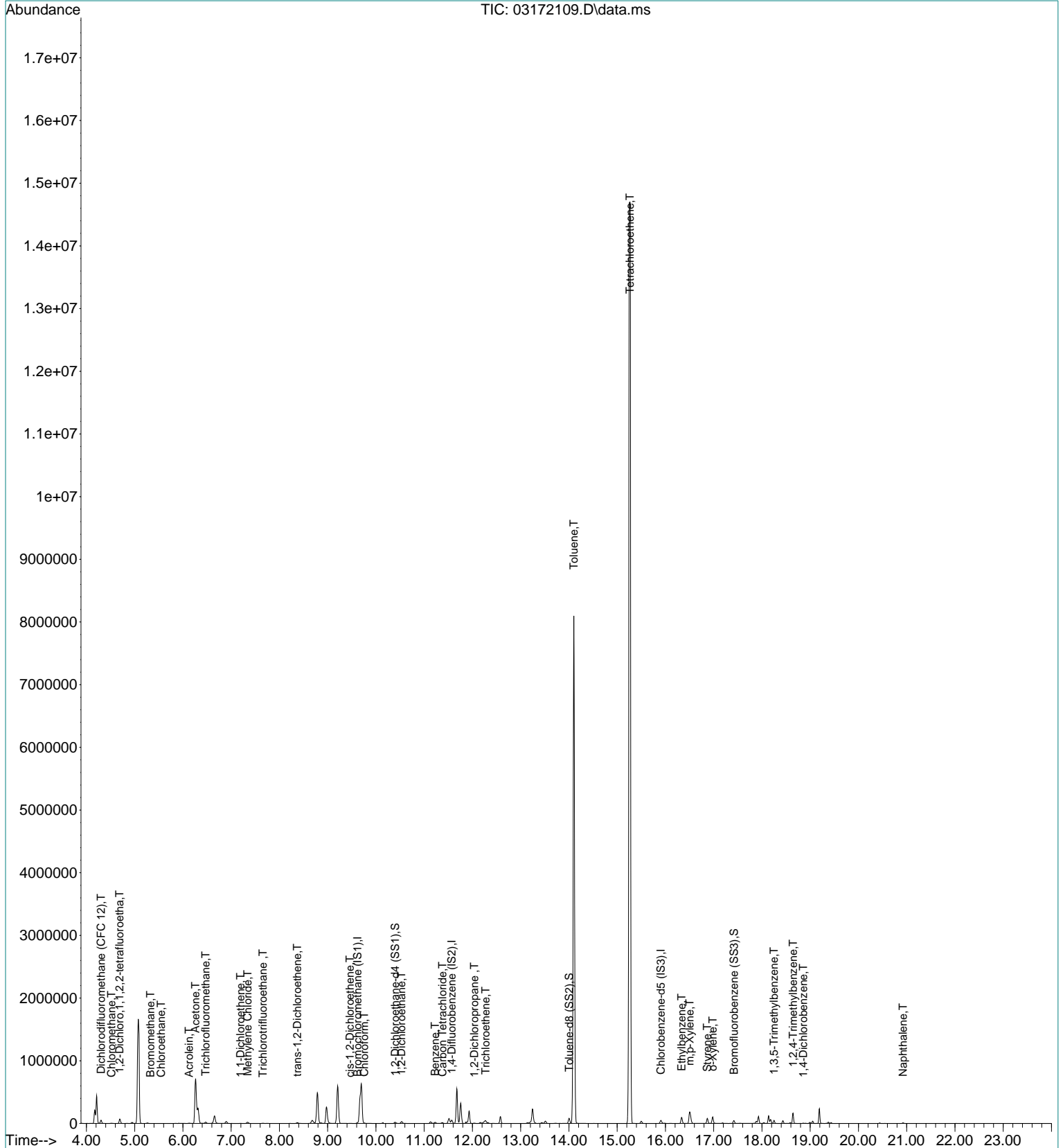
	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethan...	4.30	85	68574	1433.467	pg	100
3) Chloromethane	4.52	52	2323	264.934	pg	98
4) 1,2-Dichloro,1,1,2,2-t...	4.69	85	4322	69.960	pg	100
7) Bromomethane	5.33	94	396	22.506	pg	97
8) Chloroethane	5.55	64	265	21.285	pg	97
9) Acrolein	6.13	56	7883	782.304	pg	98
10) Acetone	6.26	58	465487	34490.847	pg	# 70
11) Trichlorofluoromethane	6.47	101	27826	727.804	pg	100
12) 1,1-Dichloroethene	7.19	96	1200	52.420	pg	99
13) Methylene Chloride	7.34	84	18624	784.963	pg	95
14) Trichlorotrifluoroethane	7.66	151	5425	297.063	pg	99
15) trans-1,2-Dichloroethene	8.37	96	9972	437.435	pg	99
18) cis-1,2-Dichloroethene	9.46	96	908	36.538	pg	99
19) Chloroform	9.76	83	7346	176.999	pg	87
21) 1,2-Dichloroethane	10.53	62	7385	246.384	pg	98
23) Benzene	11.23	78	32812	348.037	pg	100
24) Carbon Tetrachloride	11.38	117	7767	264.027	pg	100
26) 1,2-Dichloropropane	12.04	63	6090	272.885	pg	100
28) Trichloroethene	12.27	130	31322	1087.437	pg	100
34) Toluene	14.10	91	9126062	84002.127	pg	96
37) Tetrachloroethene	15.27	166	20290975	713073.827	pg	87
40) Ethylbenzene	16.33	91	150510	1246.900	pg	100
41) m,p-Xylene	16.50	91	315876	3419.558	pg	99
42) Styrene	16.87	104	92835	1419.623	pg	100
43) o-Xylene	16.98	106	56492	1221.682	pg	100
46) 1,3,5-Trimethylbenzene	18.25	105	53749	547.445	pg	100
47) 1,2,4-Trimethylbenzene	18.64	105	180365	1741.774	pg	88
49) 1,4-Dichlorobenzene	18.86	146	4186	67.807	pg	99
53) Naphthalene	20.93	128	18395	142.690	pg	98

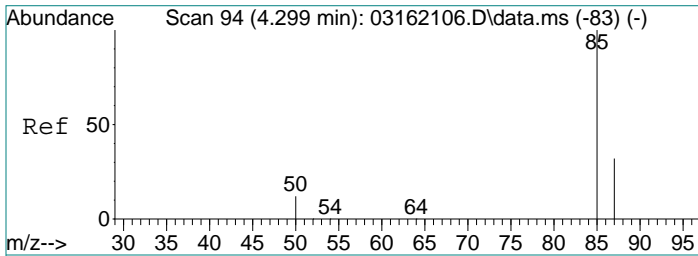
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS19\DATA\2021 03\17\03172109.D
Acq On : 17 Mar 2021 13:05
Sample : P2101325-002 (1000mL)
Misc : S34-01272101

Vial: 3
Operator: TZ
Inst : MS19

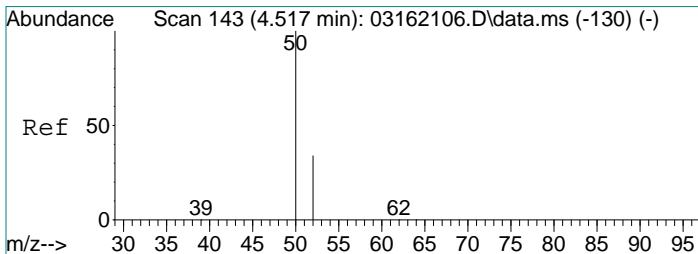
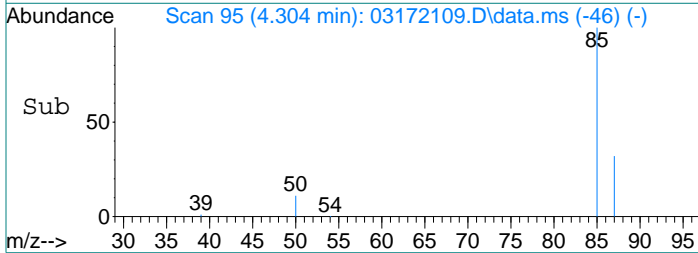
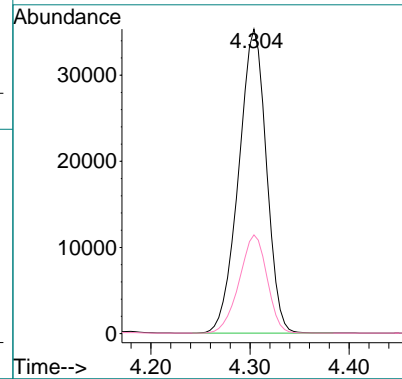
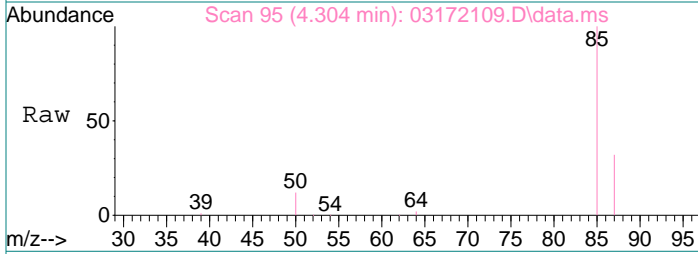
Quant Time: Mar 19 10:34:07 2021
Quant Method : I:\MS19\METHODS\S19031621.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Mar 16 14:07:28 2021
Response via : Initial Calibration
DataAcq Meth:TO15SIM.M





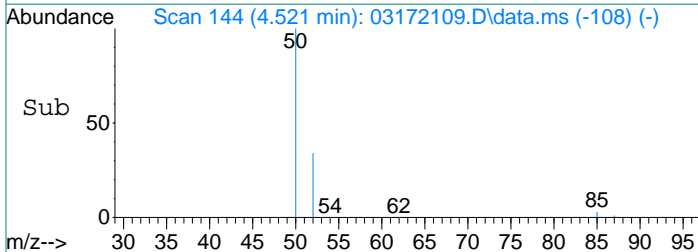
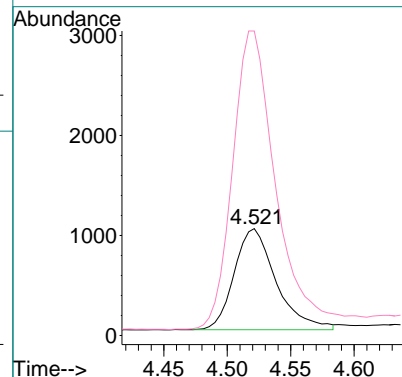
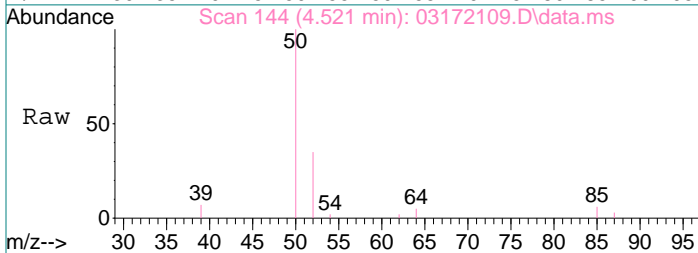
#2
 Dichlorodifluoromethane (CFC 12)
 Concen: 1433.47 pg
 RT: 4.30 min Scan# 95
 Delta R.T. 0.018 min
 Lab File: 03172109.D
 Acq: 17 Mar 2021 13:05

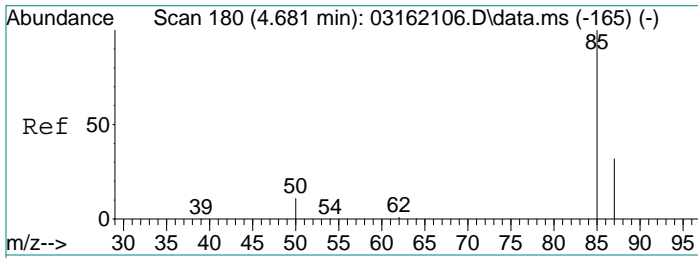
Tgt Ion: 85 Resp: 68574
 Ion Ratio Lower Upper
 85 100
 87 32.4 12.4 52.4



#3
 Chloromethane
 Concen: 264.93 pg
 RT: 4.52 min Scan# 144
 Delta R.T. 0.008 min
 Lab File: 03172109.D
 Acq: 17 Mar 2021 13:05

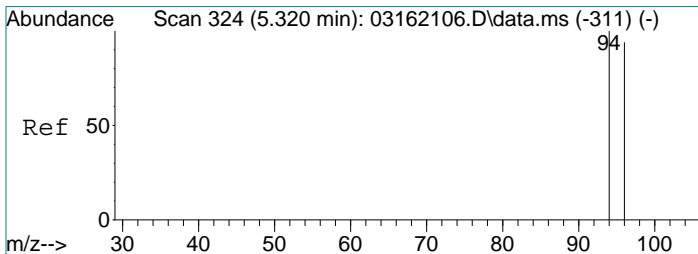
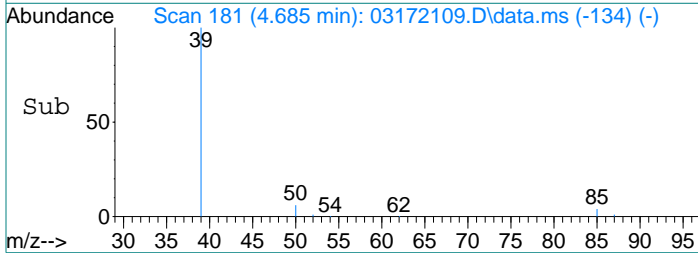
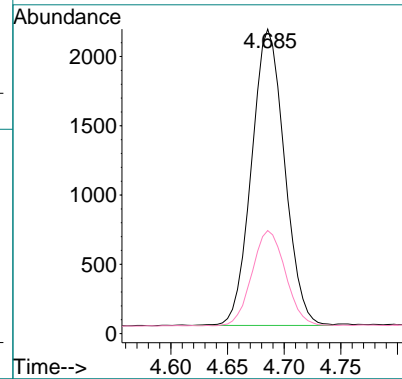
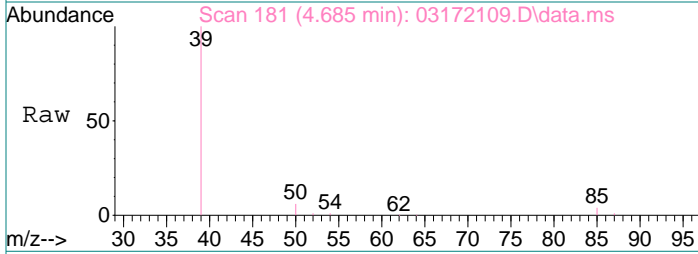
Tgt Ion: 52 Resp: 2323
 Ion Ratio Lower Upper
 52 100
 50 301.9 278.5 318.5





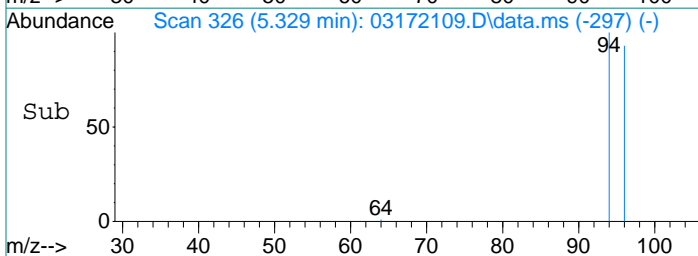
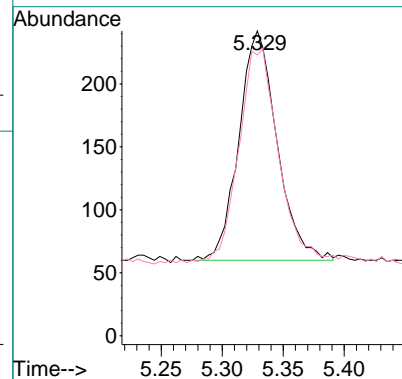
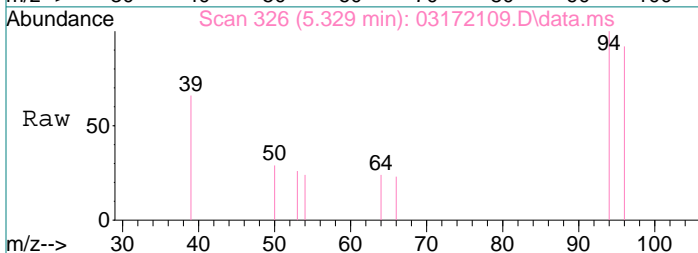
#4
 1,2-Dichloro,1,1,2,2-tetrafluoroetha
 Concen: 69.96 pg
 RT: 4.69 min Scan# 181
 Delta R.T. 0.009 min
 Lab File: 03172109.D
 Acq: 17 Mar 2021 13:05

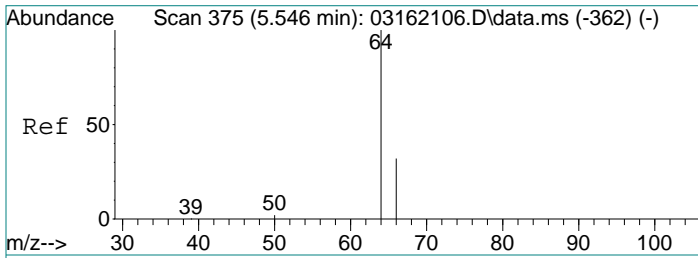
Tgt Ion: 85 Resp: 4322
 Ion Ratio Lower Upper
 85 100
 87 32.6 25.8 38.8



#7
 Bromomethane
 Concen: 22.51 pg
 RT: 5.33 min Scan# 326
 Delta R.T. -0.000 min
 Lab File: 03172109.D
 Acq: 17 Mar 2021 13:05

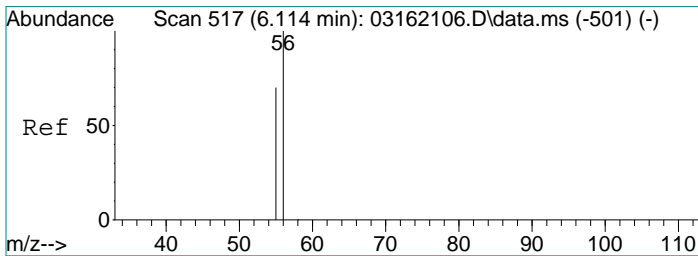
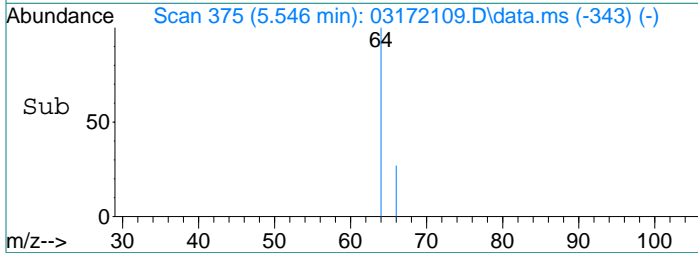
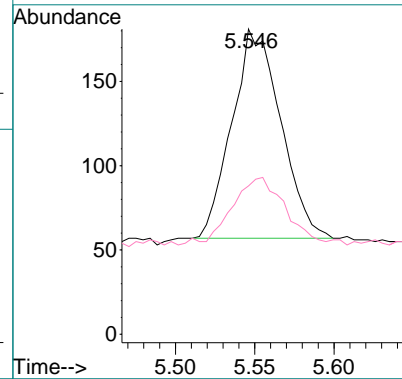
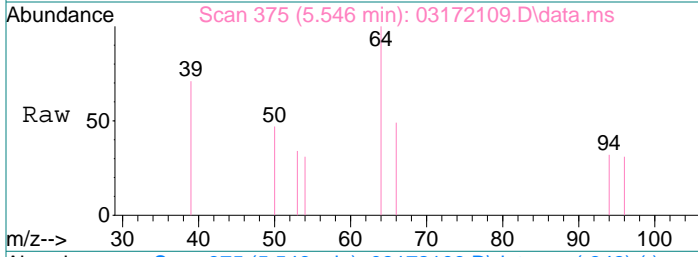
Tgt Ion: 94 Resp: 396
 Ion Ratio Lower Upper
 94 100
 96 96.7 75.2 112.8





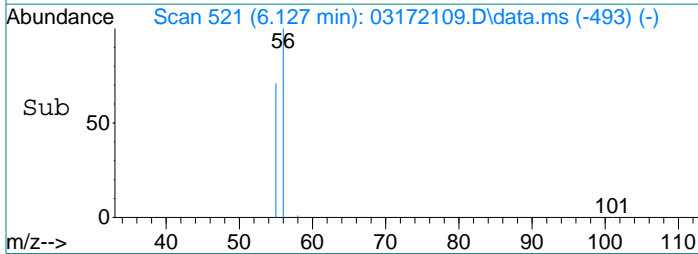
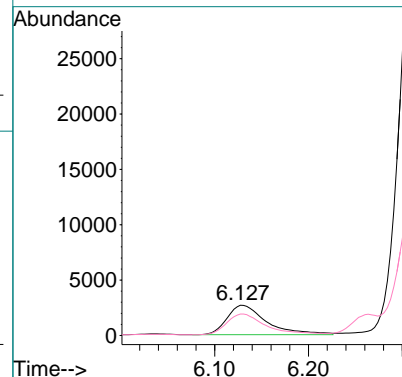
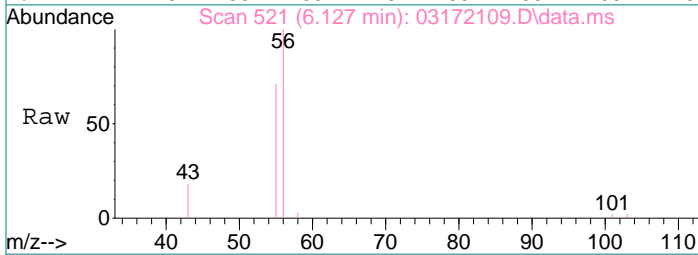
#8
 Chloroethane
 Concen: 21.29 pg
 RT: 5.55 min Scan# 375
 Delta R.T. -0.009 min
 Lab File: 03172109.D
 Acq: 17 Mar 2021 13:05

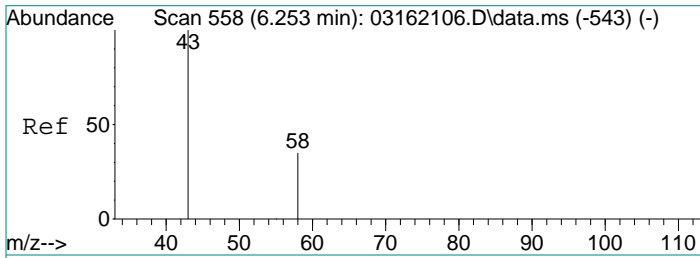
Tgt Ion: 64 Resp: 265
 Ion Ratio Lower Upper
 64 100
 66 30.9 12.5 52.5



#9
 Acrolein
 Concen: 782.30 pg
 RT: 6.13 min Scan# 521
 Delta R.T. -0.014 min
 Lab File: 03172109.D
 Acq: 17 Mar 2021 13:05

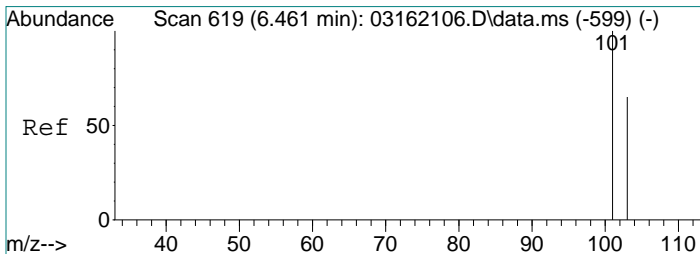
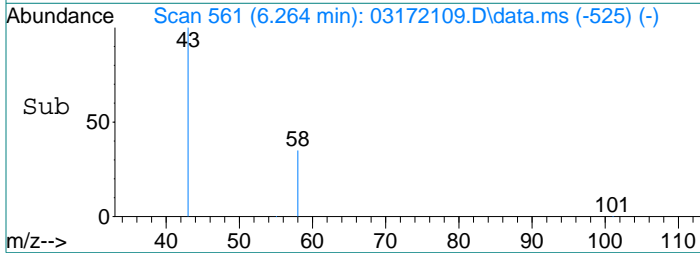
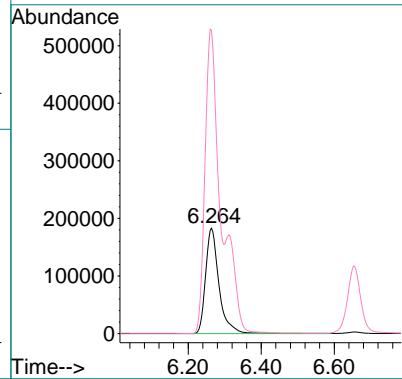
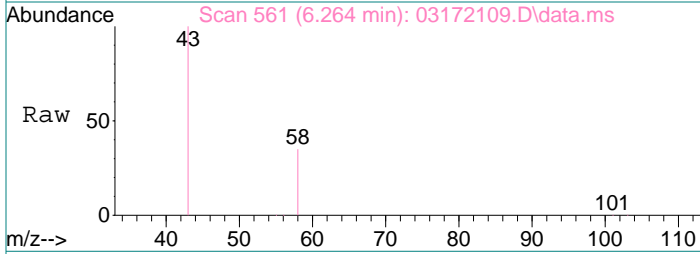
Tgt Ion: 56 Resp: 7883
 Ion Ratio Lower Upper
 56 100
 55 70.2 54.7 82.1





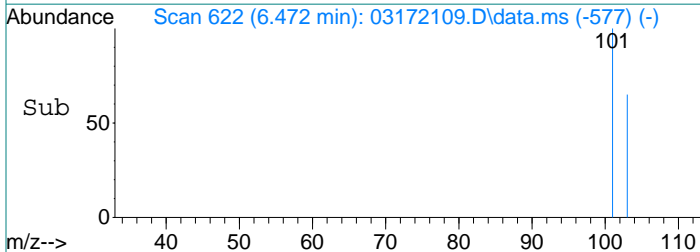
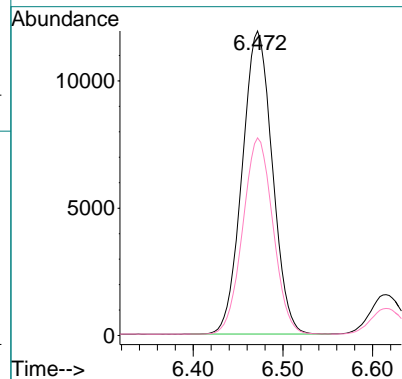
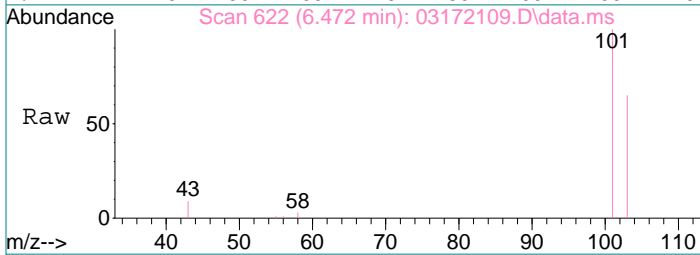
#10
 Acetone
 Concen: 34490.85 pg
 RT: 6.26 min Scan# 561
 Delta R.T. -0.027 min
 Lab File: 03172109.D
 Acq: 17 Mar 2021 13:05

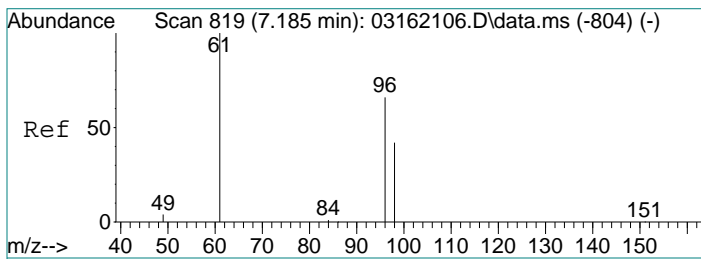
Tgt Ion: 58 Resp: 465487
 Ion Ratio Lower Upper
 58 100
 43 348.9 270.4 310.4#



#11
 Trichlorofluoromethane
 Concen: 727.80 pg
 RT: 6.47 min Scan# 622
 Delta R.T. 0.003 min
 Lab File: 03172109.D
 Acq: 17 Mar 2021 13:05

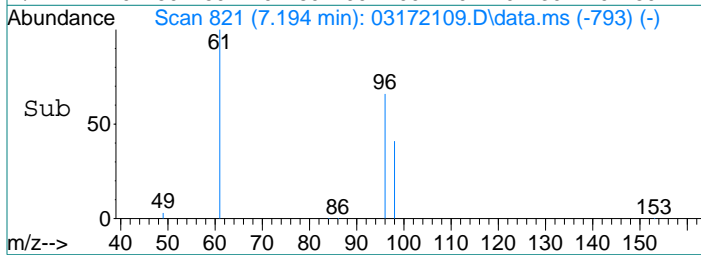
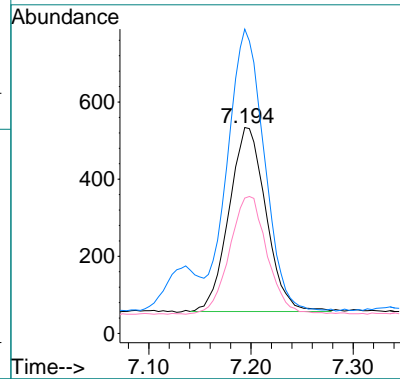
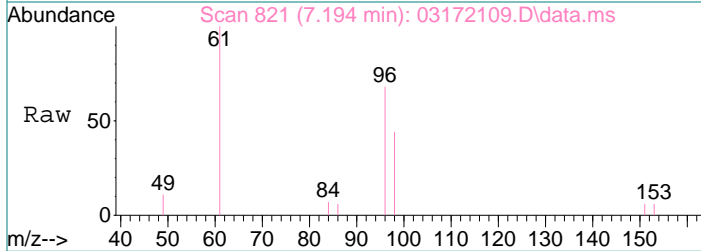
Tgt Ion:101 Resp: 27826
 Ion Ratio Lower Upper
 101 100
 103 64.8 51.8 77.6





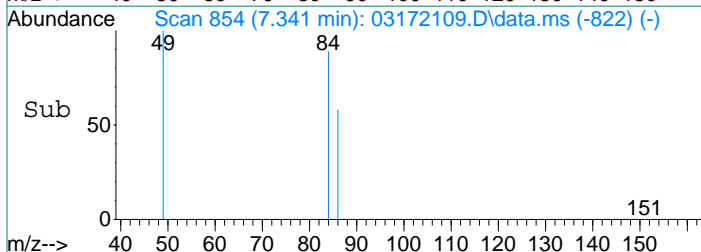
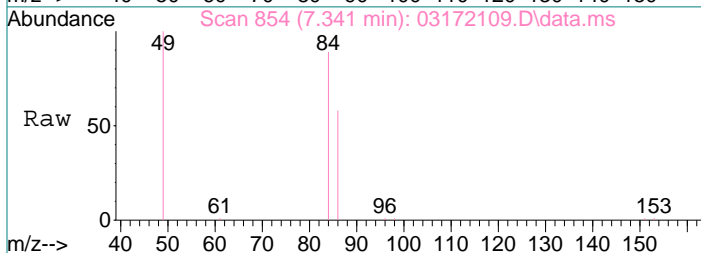
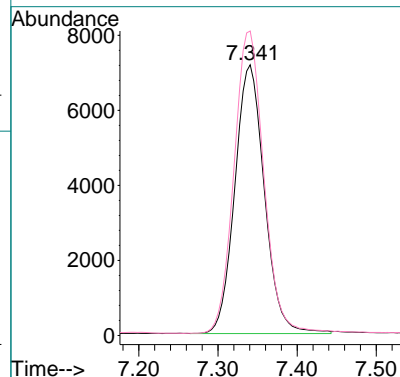
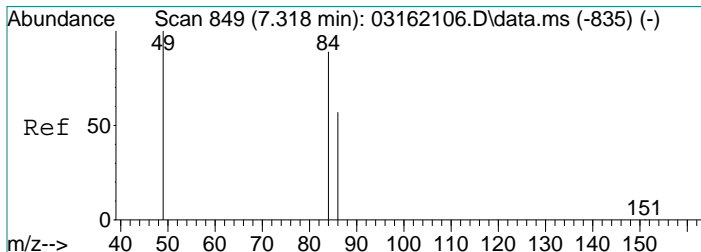
#12
 1,1-Dichloroethene
 Concen: 52.42 pg
 RT: 7.19 min Scan# 821
 Delta R.T. -0.005 min
 Lab File: 03172109.D
 Acq: 17 Mar 2021 13:05

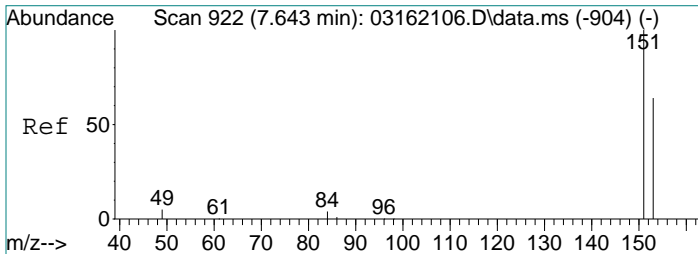
Tgt Ion	96	Resp:	1200
Ion Ratio	Lower	Upper	
96	100		
98	64.5	44.0	84.0
61	150.6	132.6	172.6



#13
 Methylene Chloride
 Concen: 784.96 pg
 RT: 7.34 min Scan# 854
 Delta R.T. -0.018 min
 Lab File: 03172109.D
 Acq: 17 Mar 2021 13:05

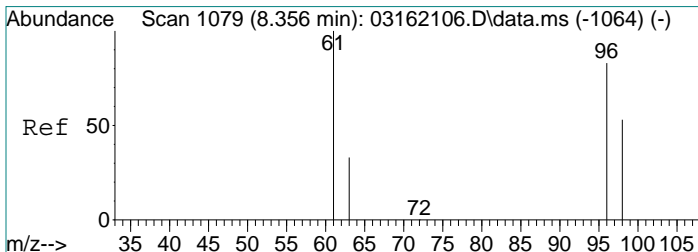
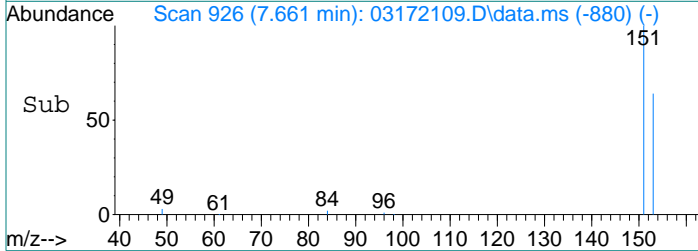
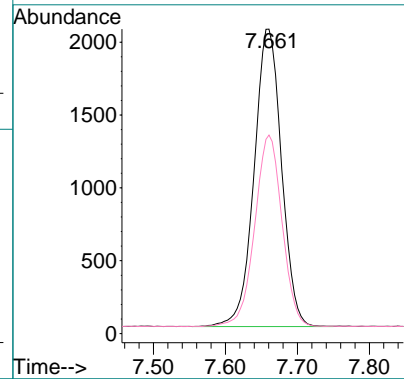
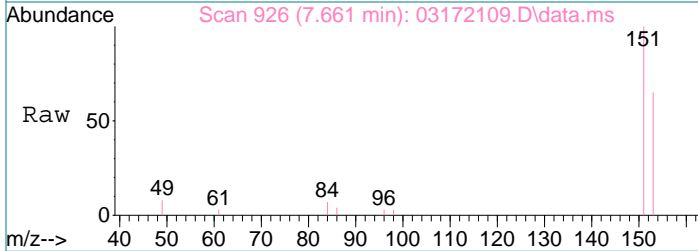
Tgt Ion	84	Resp:	18624
Ion Ratio	Lower	Upper	
84	100		
49	114.4	89.4	129.4





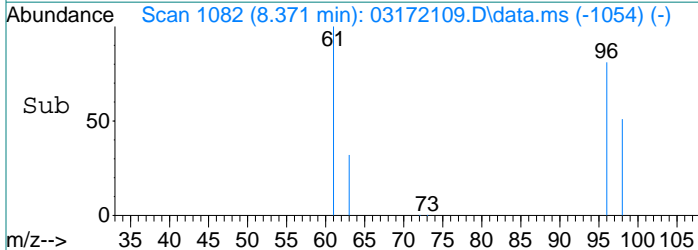
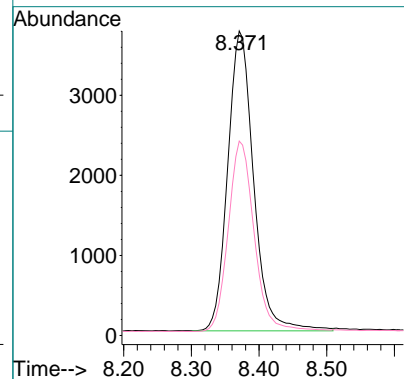
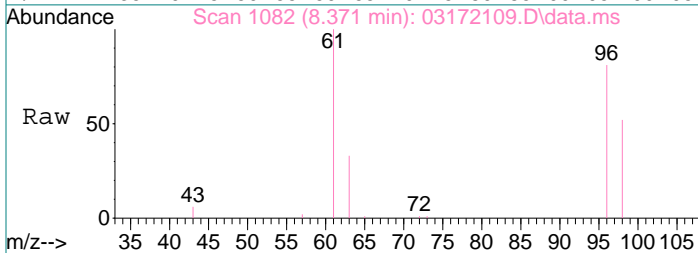
#14
 Trichlorotrifluoroethane
 Concen: 297.06 pg
 RT: 7.66 min Scan# 926
 Delta R.T. 0.004 min
 Lab File: 03172109.D
 Acq: 17 Mar 2021 13:05

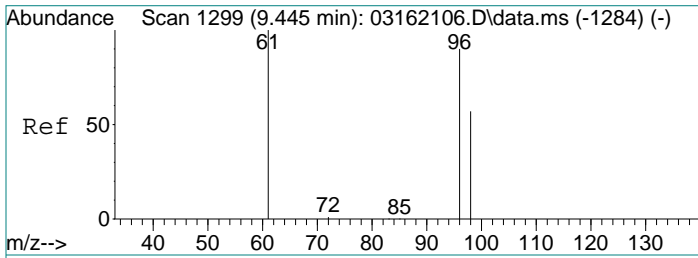
Tgt Ion: 151 Resp: 5425
 Ion Ratio Lower Upper
 151 100
 153 64.3 43.9 83.9



#15
 trans-1,2-Dichloroethene
 Concen: 437.43 pg
 RT: 8.37 min Scan# 1082
 Delta R.T. -0.011 min
 Lab File: 03172109.D
 Acq: 17 Mar 2021 13:05

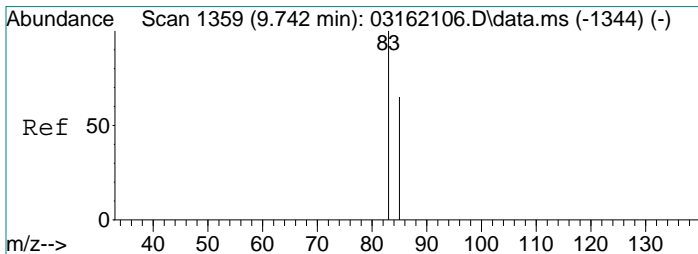
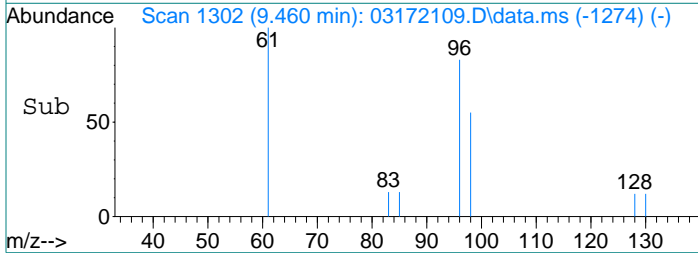
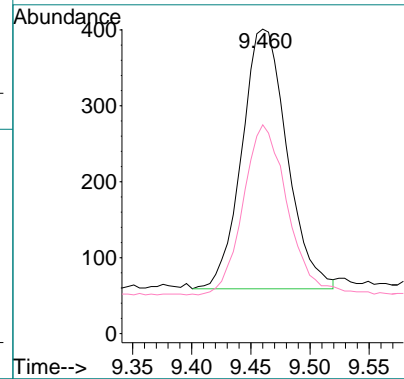
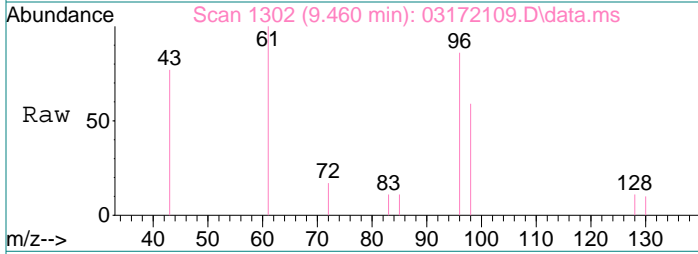
Tgt Ion: 96 Resp: 9972
 Ion Ratio Lower Upper
 96 100
 98 63.5 43.0 83.0





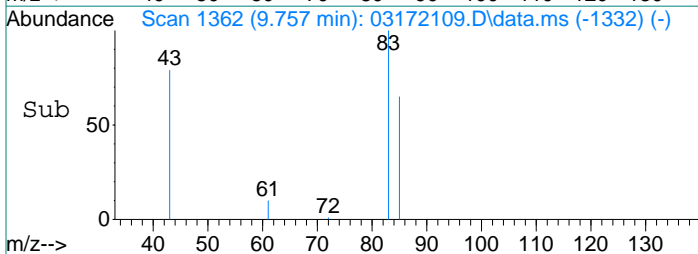
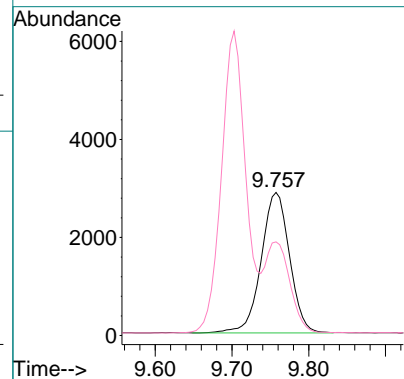
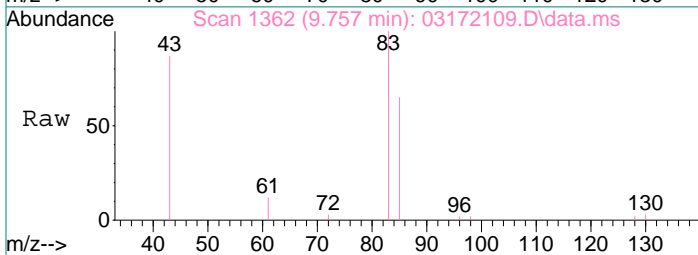
#18
 cis-1,2-Dichloroethene
 Concen: 36.54 pg
 RT: 9.46 min Scan# 1302
 Delta R.T. -0.011 min
 Lab File: 03172109.D
 Acq: 17 Mar 2021 13:05

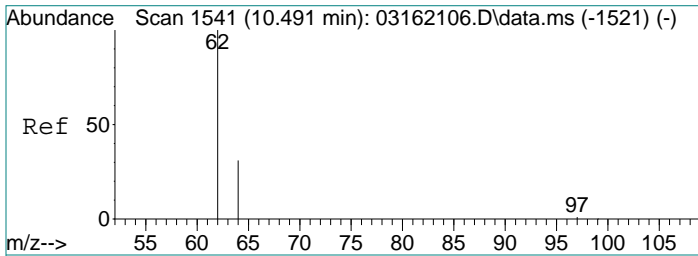
Tgt Ion: 96 Resp: 908
 Ion Ratio Lower Upper
 96 100
 98 64.4 43.9 83.9



#19
 Chloroform
 Concen: 177.00 pg
 RT: 9.76 min Scan# 1362
 Delta R.T. -0.020 min
 Lab File: 03172109.D
 Acq: 17 Mar 2021 13:05

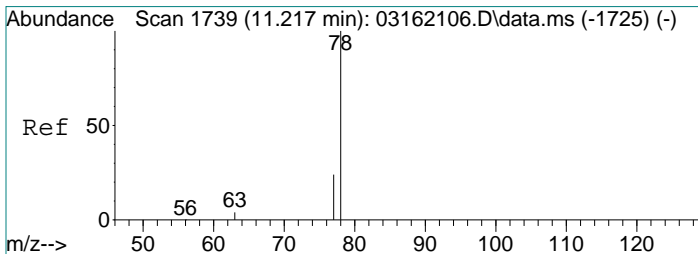
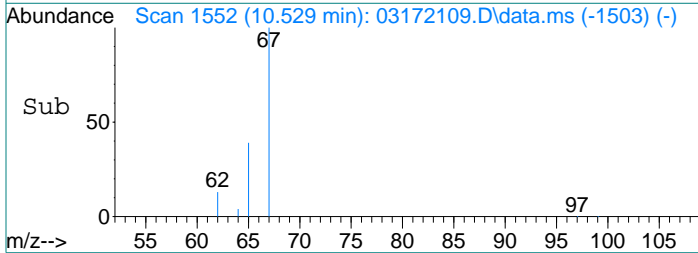
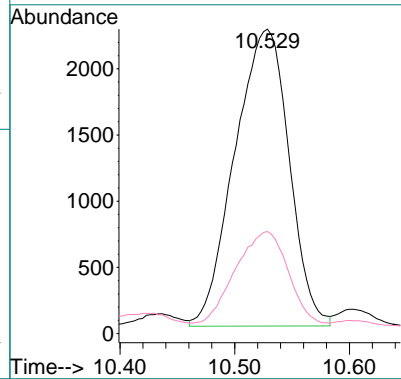
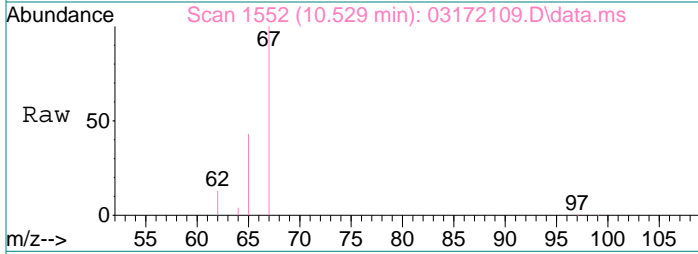
Tgt Ion: 83 Resp: 7346
 Ion Ratio Lower Upper
 83 100
 85 55.1 45.7 85.7





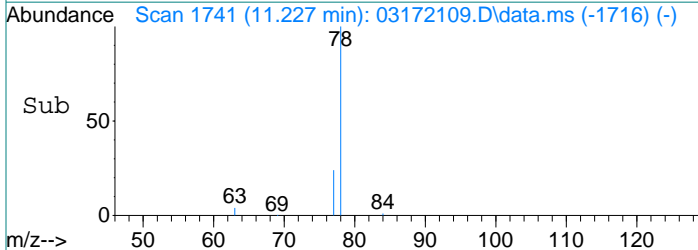
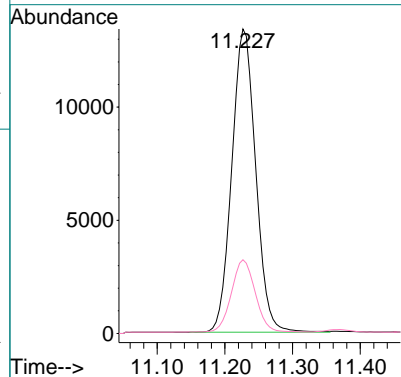
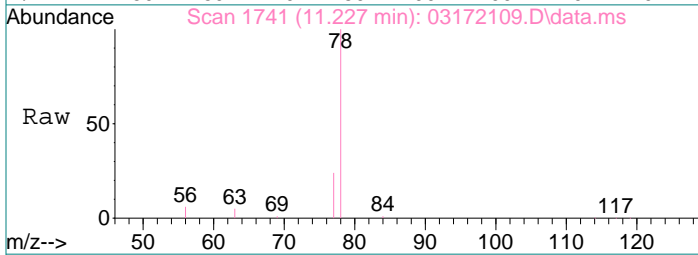
#21
 1,2-Dichloroethane
 Concen: 246.38 pg
 RT: 10.53 min Scan# 1552
 Delta R.T. 0.016 min
 Lab File: 03172109.D
 Acq: 17 Mar 2021 13:05

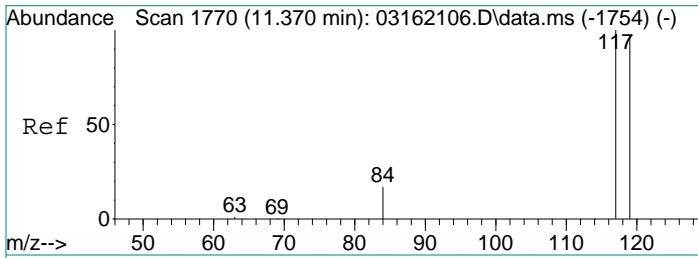
Tgt Ion	Resp	Lower	Upper
62	100		
64	30.3	11.5	51.5



#23
 Benzene
 Concen: 348.04 pg
 RT: 11.23 min Scan# 1741
 Delta R.T. -0.006 min
 Lab File: 03172109.D
 Acq: 17 Mar 2021 13:05

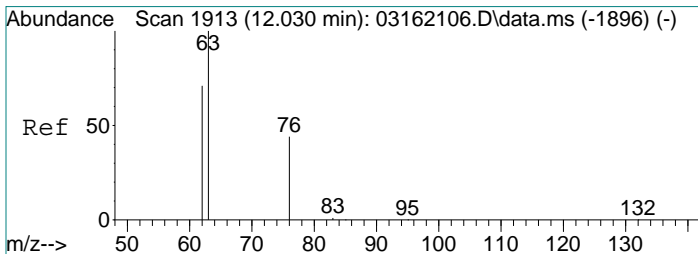
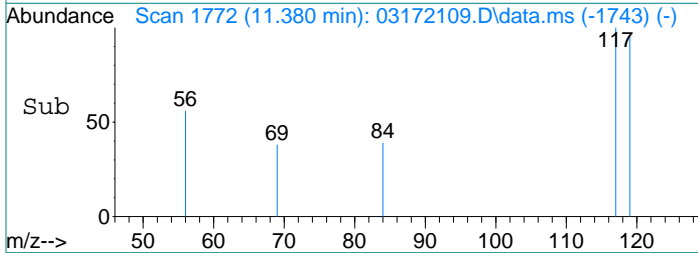
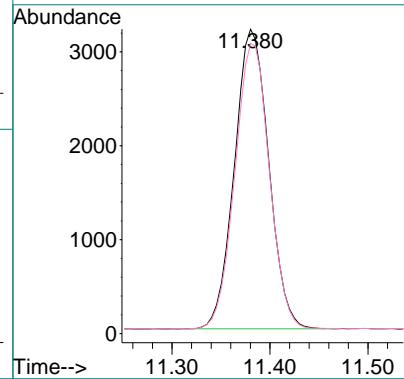
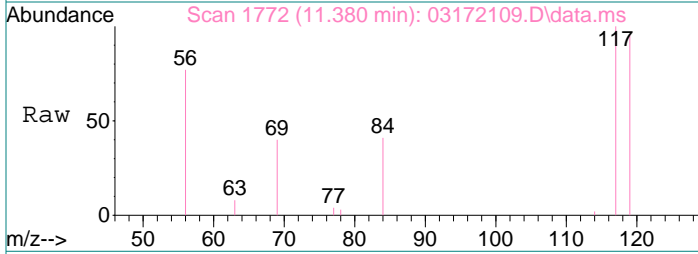
Tgt Ion	Resp	Lower	Upper
78	100		
77	23.6	3.6	43.6





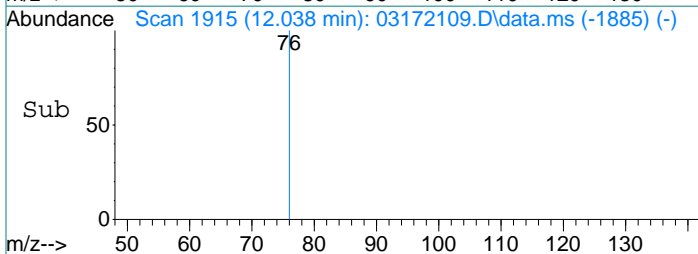
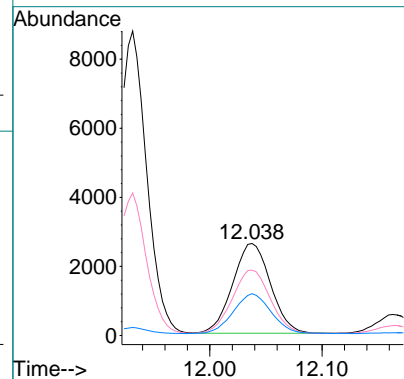
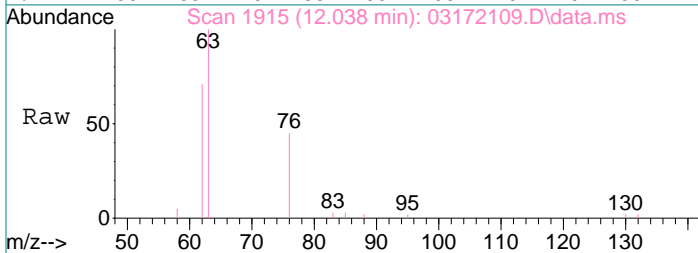
#24
 Carbon Tetrachloride
 Concen: 264.03 pg
 RT: 11.38 min Scan# 1772
 Delta R.T. -0.006 min
 Lab File: 03172109.D
 Acq: 17 Mar 2021 13:05

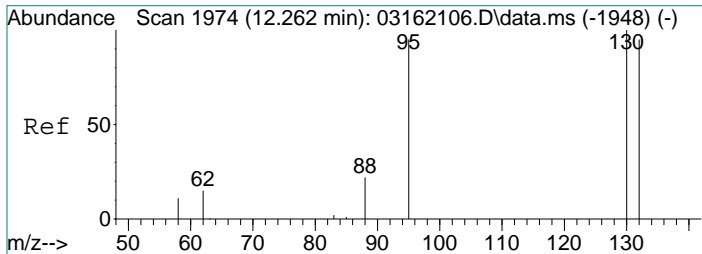
Tgt Ion: 117 Resp: 7767
 Ion Ratio Lower Upper
 117 100
 119 95.3 75.8 115.8



#26
 1,2-Dichloropropane
 Concen: 272.89 pg
 RT: 12.04 min Scan# 1915
 Delta R.T. -0.004 min
 Lab File: 03172109.D
 Acq: 17 Mar 2021 13:05

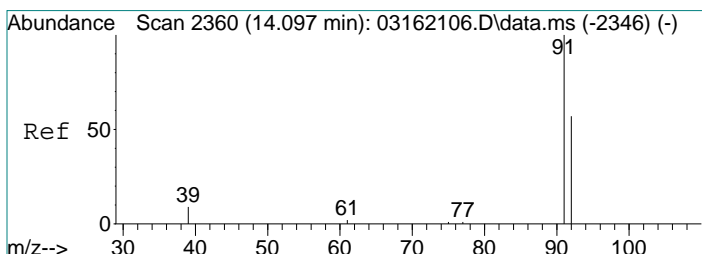
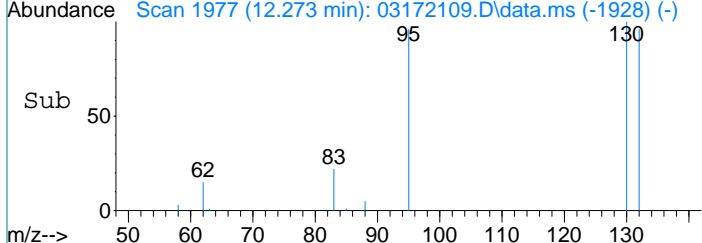
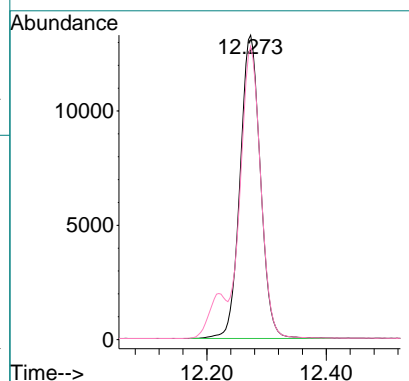
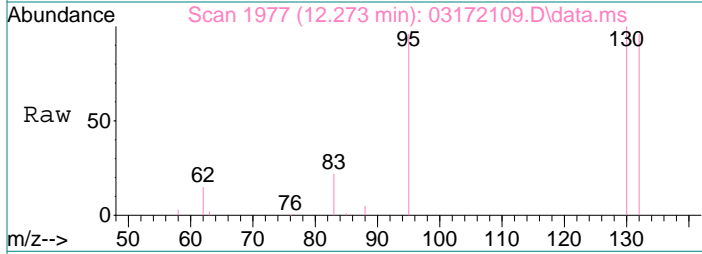
Tgt Ion: 63 Resp: 6090
 Ion Ratio Lower Upper
 63 100
 62 70.9 50.7 90.7
 76 44.0 24.0 64.0





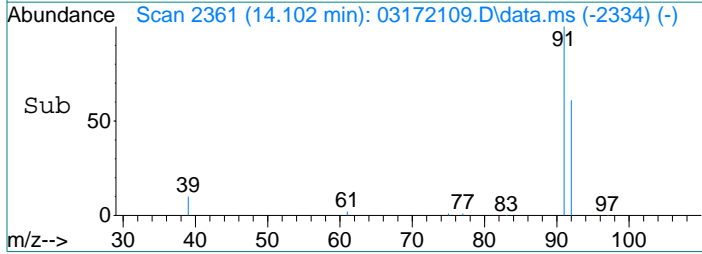
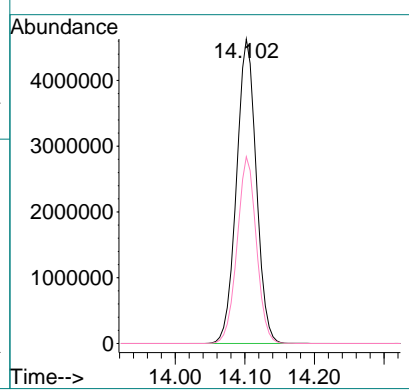
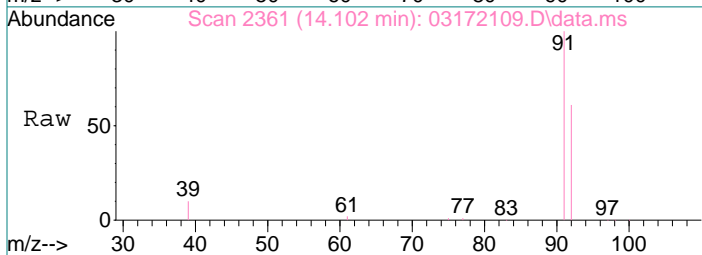
#28
 Trichloroethene
 Concen: 1087.44 pg
 RT: 12.27 min Scan# 1977
 Delta R.T. -0.004 min
 Lab File: 03172109.D
 Acq: 17 Mar 2021 13:05

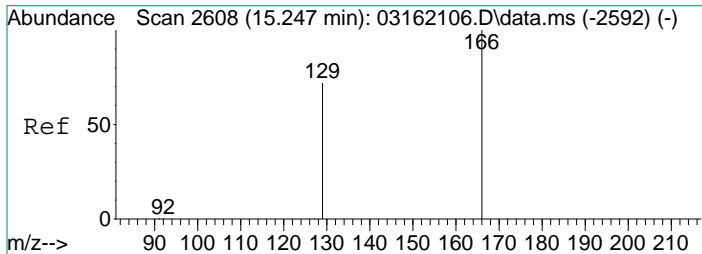
Tgt Ion	Resp	Lower	Upper
130	100		
132	95.3	75.0	115.0



#34
 Toluene
 Concen: 84002.13 pg
 RT: 14.10 min Scan# 2361
 Delta R.T. -0.001 min
 Lab File: 03172109.D
 Acq: 17 Mar 2021 13:05

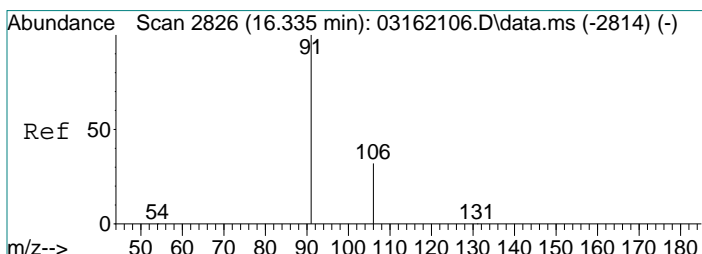
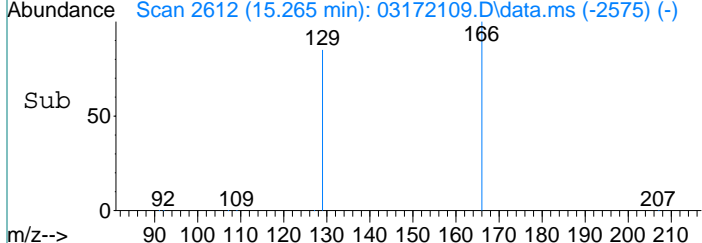
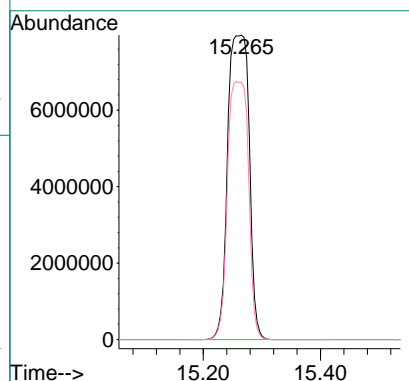
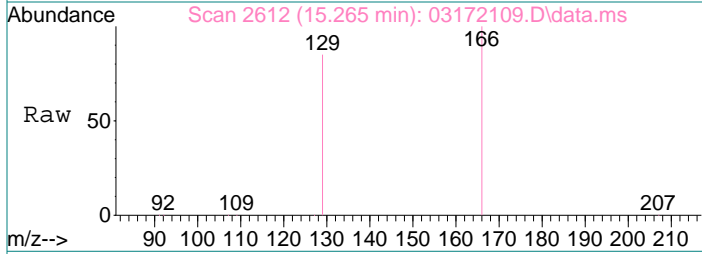
Tgt Ion	Resp	Lower	Upper
91	100		
92	59.8	37.1	77.1





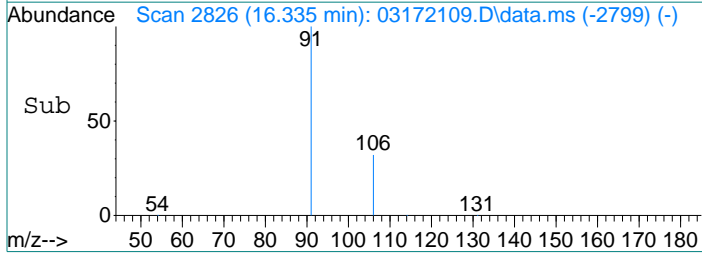
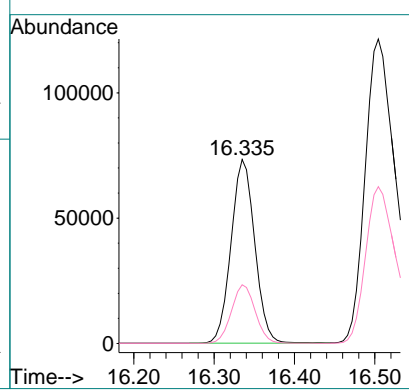
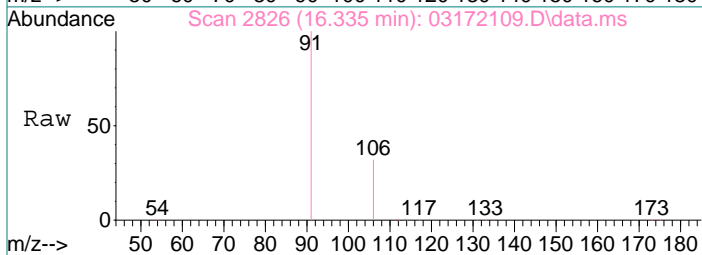
#37
 Tetrachloroethene
 Concen: 713073.83 pg
 RT: 15.27 min Scan# 2612
 Delta R.T. 0.013 min
 Lab File: 03172109.D
 Acq: 17 Mar 2021 13:05

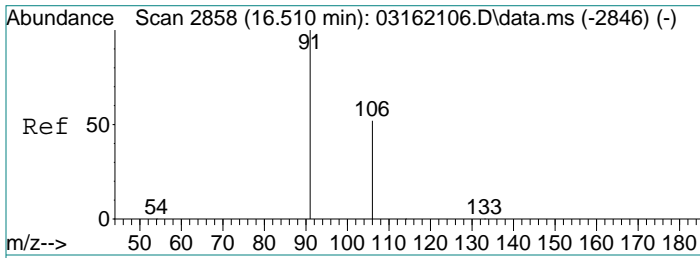
Tgt Ion: 166 Resp: 20290975
 Ion Ratio Lower Upper
 166 100
 129 82.0 51.5 91.5



#40
 Ethylbenzene
 Concen: 1246.90 pg
 RT: 16.33 min Scan# 2826
 Delta R.T. -0.000 min
 Lab File: 03172109.D
 Acq: 17 Mar 2021 13:05

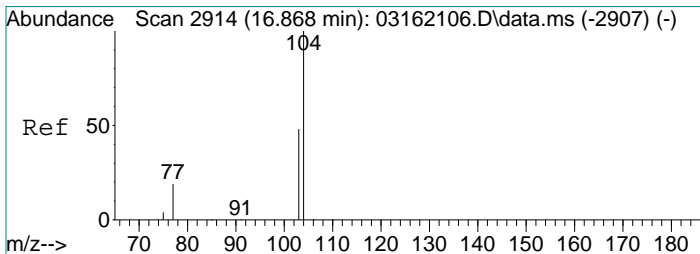
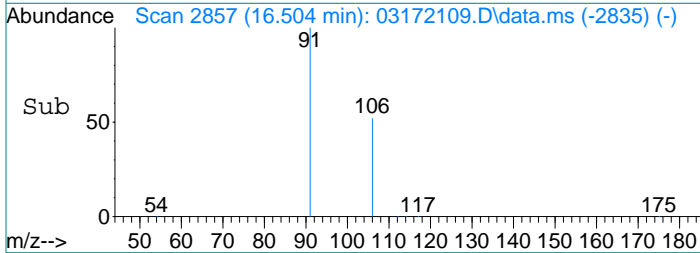
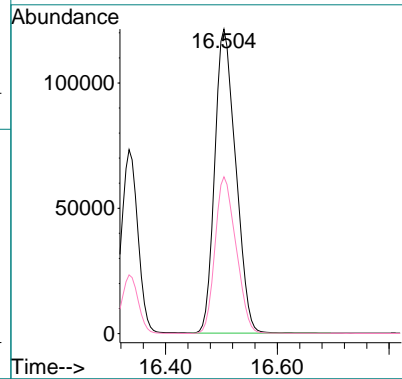
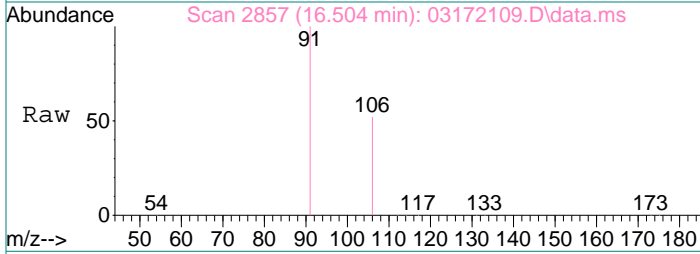
Tgt Ion: 91 Resp: 150510
 Ion Ratio Lower Upper
 91 100
 106 32.0 12.1 52.1





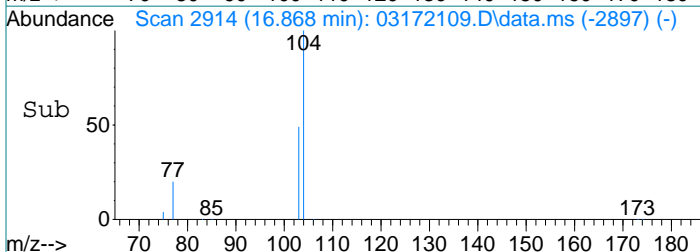
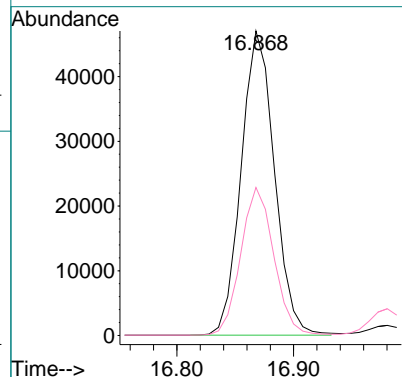
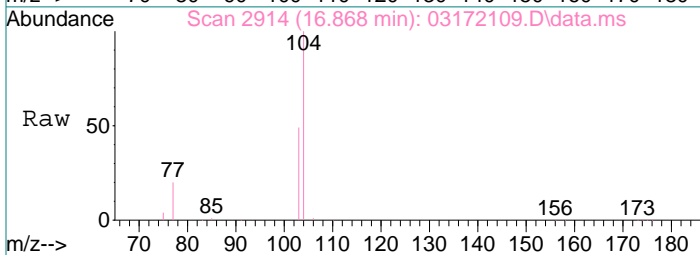
#41
 m,p-Xylene
 Concen: 3419.56 pg
 RT: 16.50 min Scan# 2857
 Delta R.T. -0.012 min
 Lab File: 03172109.D
 Acq: 17 Mar 2021 13:05

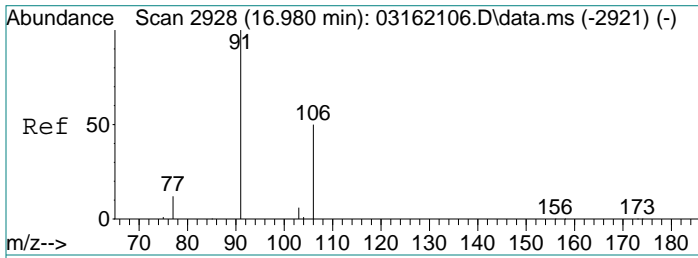
Tgt Ion: 91 Resp: 315876
 Ion Ratio Lower Upper
 91 100
 106 51.5 32.1 72.1



#42
 Styrene
 Concen: 1419.62 pg
 RT: 16.87 min Scan# 2914
 Delta R.T. -0.000 min
 Lab File: 03172109.D
 Acq: 17 Mar 2021 13:05

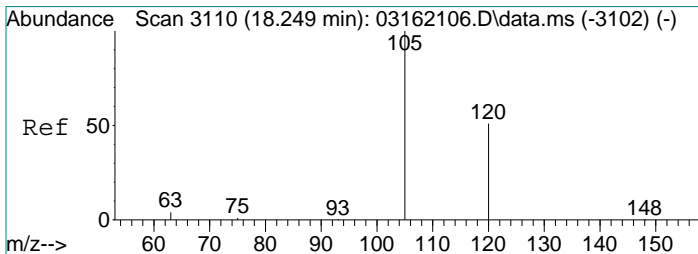
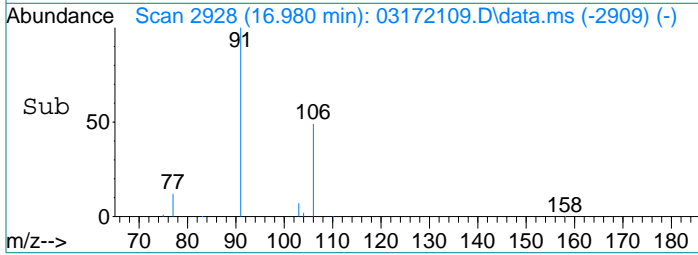
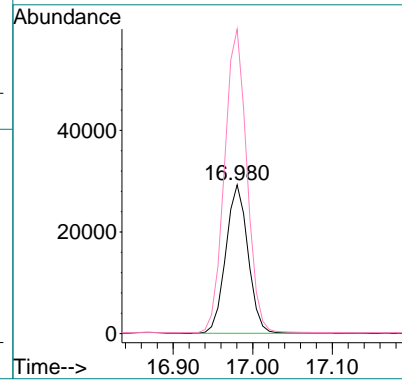
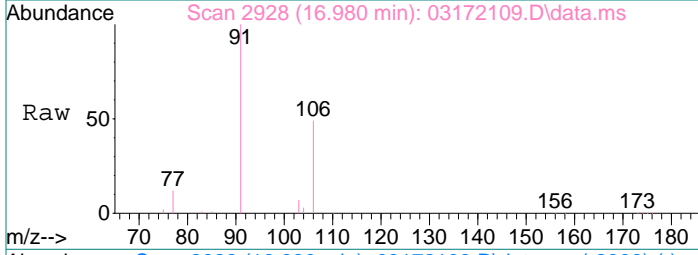
Tgt Ion: 104 Resp: 92835
 Ion Ratio Lower Upper
 104 100
 103 48.3 38.5 57.7





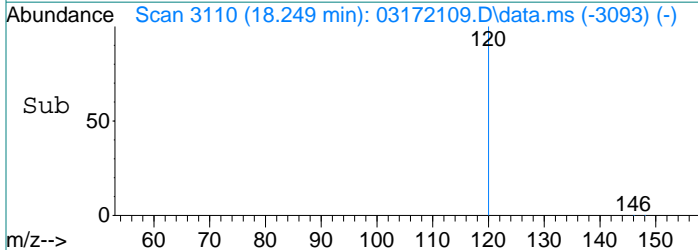
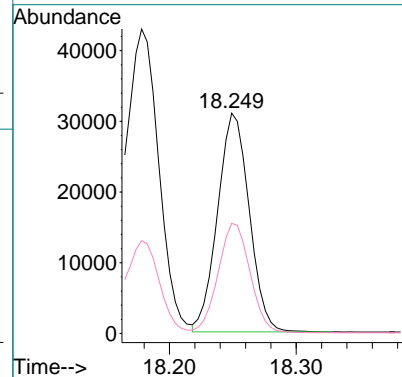
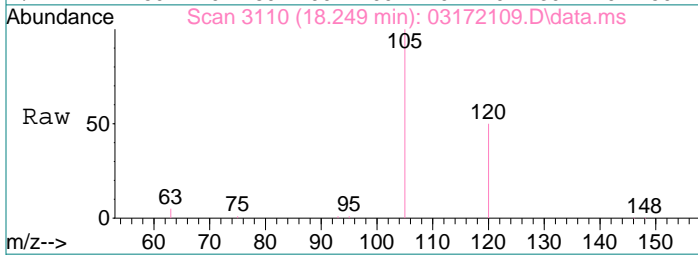
#43
 o-Xylene
 Concen: 1221.68 pg
 RT: 16.98 min Scan# 2928
 Delta R.T. -0.001 min
 Lab File: 03172109.D
 Acq: 17 Mar 2021 13:05

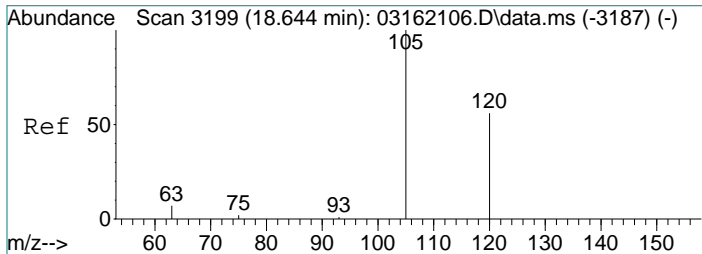
Tgt Ion	Resp	Lower	Upper
106	56492		
106	100		
91	206.2	185.5	225.5



#46
 1,3,5-Trimethylbenzene
 Concen: 547.45 pg
 RT: 18.25 min Scan# 3110
 Delta R.T. -0.005 min
 Lab File: 03172109.D
 Acq: 17 Mar 2021 13:05

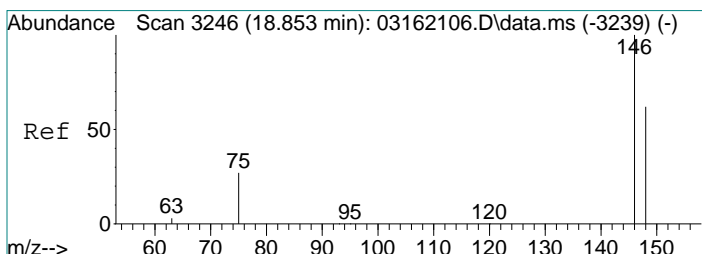
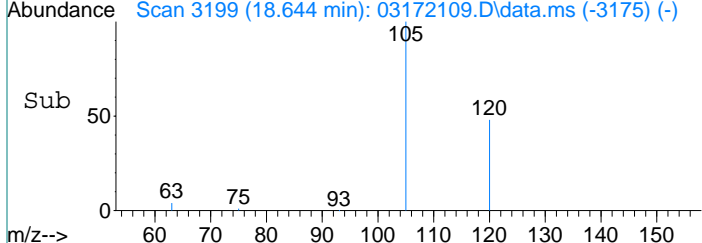
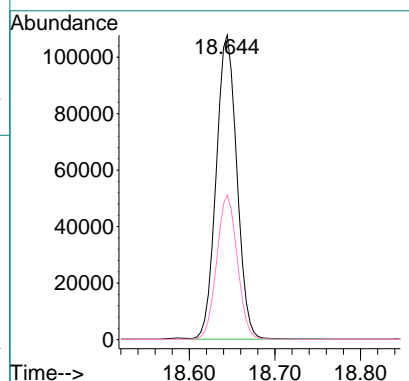
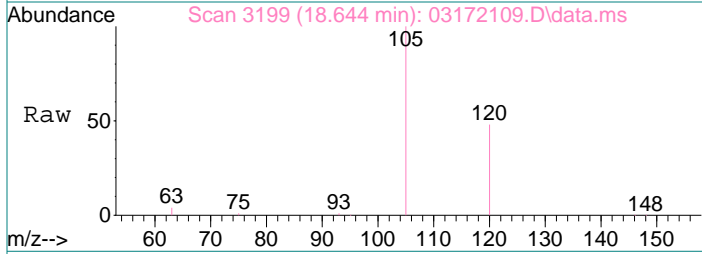
Tgt Ion	Resp	Lower	Upper
105	53749		
105	100		
120	50.5	40.3	60.5





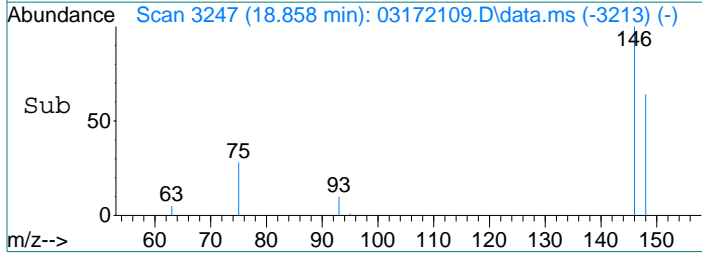
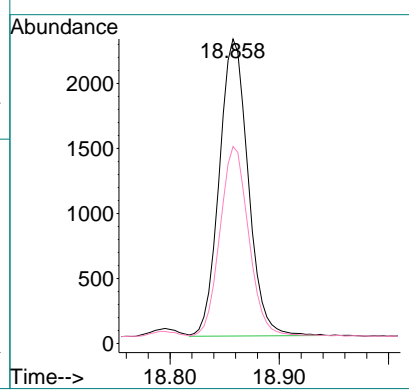
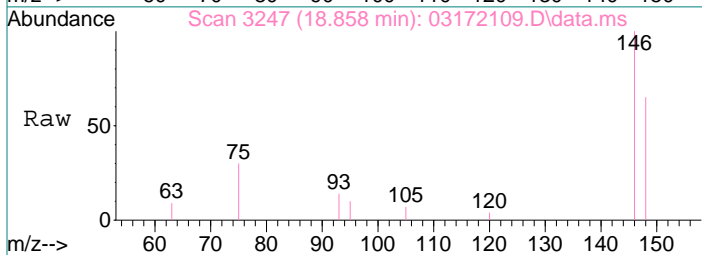
#47
 1,2,4-Trimethylbenzene
 Concen: 1741.77 pg
 RT: 18.64 min Scan# 3199
 Delta R.T. -0.005 min
 Lab File: 03172109.D
 Acq: 17 Mar 2021 13:05

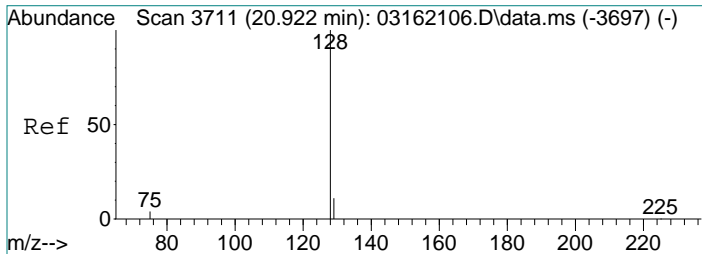
Tgt Ion	Resp	Lower	Upper
105	180365		
120	47.3	45.0	67.6



#49
 1,4-Dichlorobenzene
 Concen: 67.81 pg
 RT: 18.86 min Scan# 3247
 Delta R.T. -0.000 min
 Lab File: 03172109.D
 Acq: 17 Mar 2021 13:05

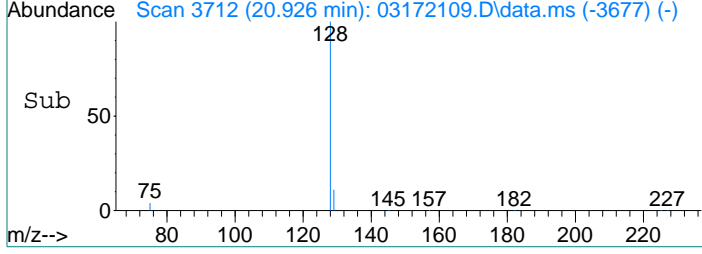
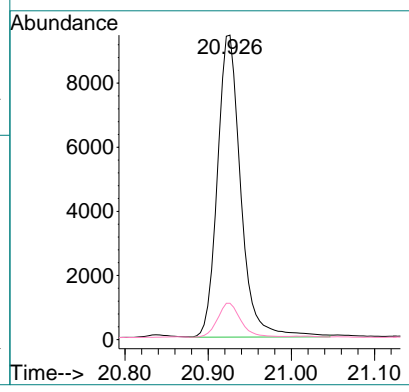
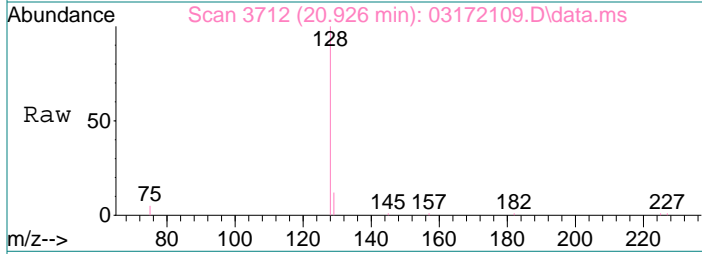
Tgt Ion	Resp	Lower	Upper
146	4186		
148	63.5	43.1	83.1





#53
 Naphthalene
 Concen: 142.69 pg
 RT: 20.93 min Scan# 3712
 Delta R.T. 0.004 min
 Lab File: 03172109.D
 Acq: 17 Mar 2021 13:05

Tgt Ion	Resp	Lower	Upper
128	18395	100	100
129	11.4	0.0	30.6



Data File : I:\MS19\DATA\2021 03\17\03172112.D
 Acq On : 17 Mar 2021 14:39
 Sample : P2101325-002dil (20mL)
 Misc : S34-01272101

Vial: 3
 Operator: TZ
 Inst : MS19

TZ 3/19/21

Quant Time: Mar 19 10:36:13 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 14:07:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	9.61	130	17863	1000.000	pg	-0.02
25) 1,4-Difluorobenzene (IS2)	11.56	114	82863	1000.000	pg	-0.01
38) Chlorobenzene-d5 (IS3)	15.90	54	14062	1000.000	pg	0.00

System Monitoring Compounds

20) 1,2-Dichloroethane-d4 ...	10.39	65	28700	1062.503	pg	-0.02
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	106.25%	
33) Toluene-d8 (SS2)	14.00	98	91030	1005.807	pg	0.00
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	100.58%	
45) Bromofluorobenzene (SS3)	17.42	174	27998	996.484	pg	0.00
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	99.65%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethan...	4.31	85	1405	33.995	pg	99
3) Chloromethane	4.57	52	350m	46.203	pg	
4) 1,2-Dichloro,1,1,2,2-t...	4.71	85	95	N.D.		
5) Vinyl Chloride	0.00	62	0	N.D.		
6) 1,3-Butadiene	0.00	54	0	N.D.		
7) Bromomethane	0.00	94	0	N.D.		
8) Chloroethane	0.00	64	0	N.D.		
9) Acrolein	6.19	56	115	N.D.		
10) Acetone	6.29	58	8084	693.322	pg	# 69
11) Trichlorofluoromethane	6.48	101	528	N.D.		
12) 1,1-Dichloroethene	0.00	96	0	N.D.		
13) Methylene Chloride	7.35	84	431	21.026	pg	97
14) Trichlorotrifluoroethane	7.65	151	103	N.D.		
15) trans-1,2-Dichloroethene	8.38	96	69	N.D.		
16) 1,1-Dichloroethane	0.00	63	0	N.D.		
17) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
18) cis-1,2-Dichloroethene	0.00	96	0	N.D.		
19) Chloroform	9.75	83	138	N.D.		
21) 1,2-Dichloroethane	10.52	62	129	N.D.		
22) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
23) Benzene	11.23	78	776	N.D.		
24) Carbon Tetrachloride	11.37	117	159	N.D.		
26) 1,2-Dichloropropane	12.03	63	101	N.D.		
27) Bromodichloromethane	0.00	83	0	N.D.	d	
28) Trichloroethene	12.27	130	508	21.020	pg	99
29) 1,4-Dioxane	0.00	88	0	N.D.		
30) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
31) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
32) 1,1,2-Trichloroethane	0.00	83	0	N.D.		
34) Toluene	14.10	91	110193	1208.862	pg	100
35) Dibromochloromethane	0.00	129	0	N.D.		
36) 1,2-Dibromoethane	0.00	107	0	N.D.		
37) Tetrachloroethene	15.25	166	150235	6292.435	pg	99
39) Chlorobenzene	15.98	112	154	N.D.		
40) Ethylbenzene	16.35	91	2404	24.750	pg	99
41) m,p-Xylene	16.52	91	4817	64.804	pg	100
42) Styrene	16.90	104	890	N.D.		
43) o-Xylene	16.99	106	887	23.838	pg	94
44) 1,1,2,2-Tetrachloroethane	17.03	83	51	N.D.		
46) 1,3,5-Trimethylbenzene	18.26	105	852	N.D.		
47) 1,2,4-Trimethylbenzene	18.65	105	2480	29.762	pg	89
48) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
49) 1,4-Dichlorobenzene	18.88	146	60	N.D.		
50) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
51) 1,2-Dibromo-3-chloropr...	0.00	157	0	N.D.		
52) 1,2,4-Trichlorobenzene	20.86	182	51	N.D.		
53) Naphthalene	20.99	128	84	N.D.		

Data File : I:\MS19\DATA\2021 03\17\03172112.D
 Acq On : 17 Mar 2021 14:39
 Sample : P2101325-002dil (20mL)
 Misc : S34-01272101

Vial: 3
 Operator: TZ
 Inst : MS19

Quant Time: Mar 19 10:36:13 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 14:07:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

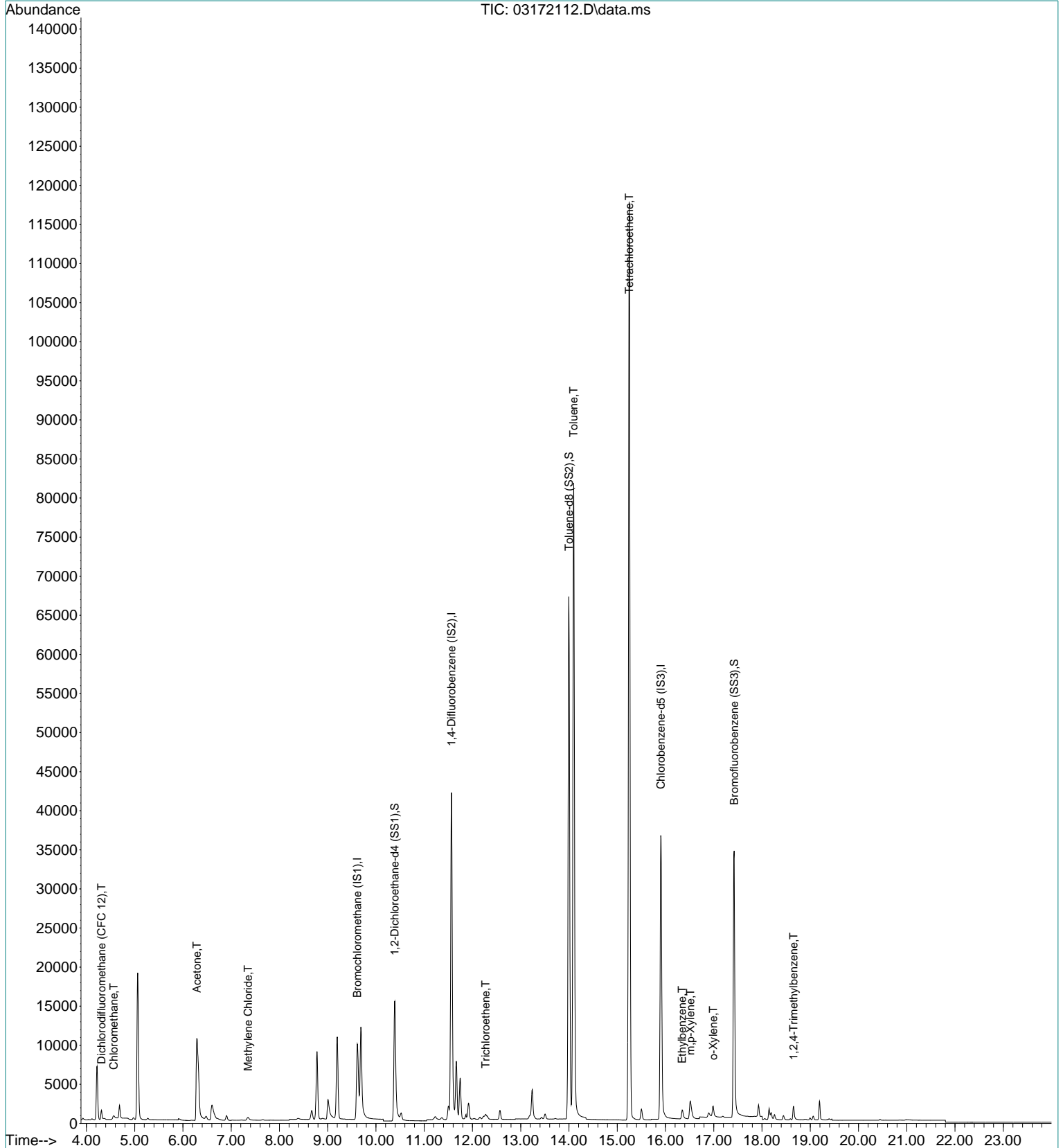
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
54) Hexachlorobutadiene	0.00	225	0	N.D.		

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

Data File : I:\MS19\DATA\2021 03\17\03172112.D
 Acq On : 17 Mar 2021 14:39
 Sample : P2101325-002dil (20mL)
 Misc : S34-01272101

Vial: 3
 Operator: TZ
 Inst : MS19

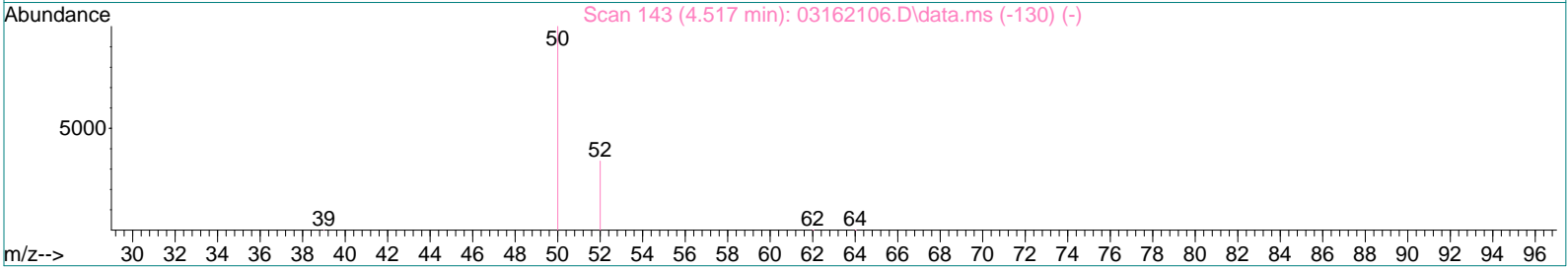
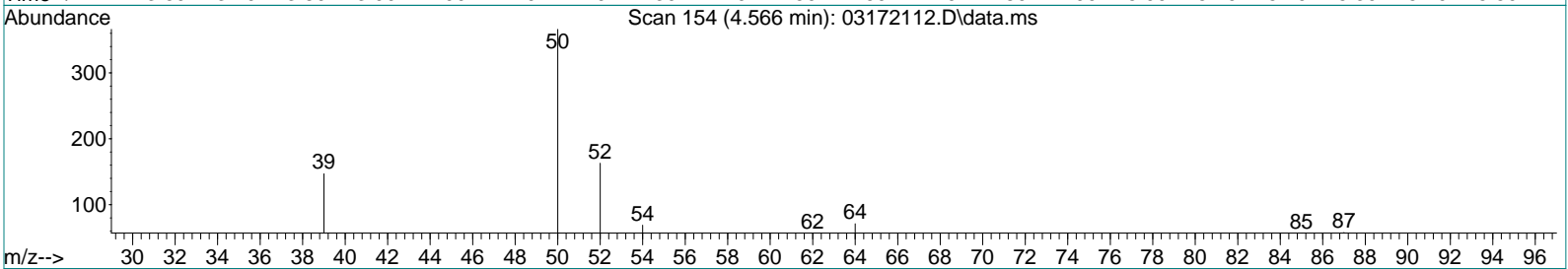
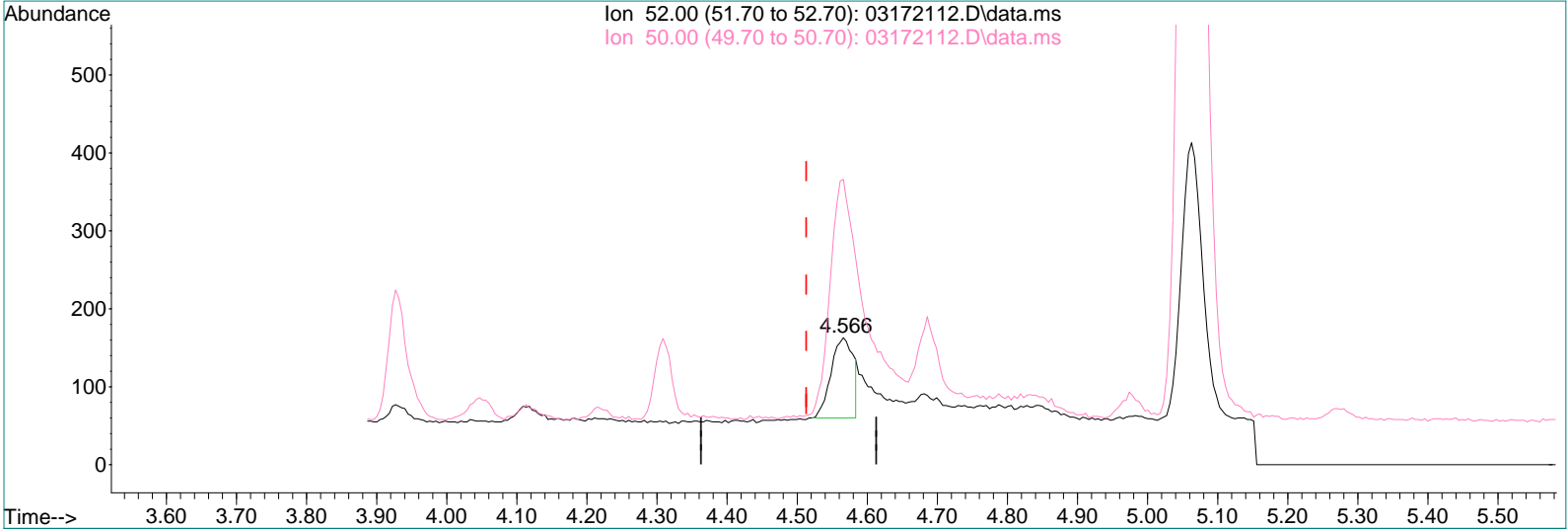
Quant Time: Mar 19 10:36:13 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 14:07:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M



Data File : I:\MS19\DATA\2021 03\17\03172112.D
 Acq On : 17 Mar 2021 14:39
 Sample : P2101325-002dil (20mL)
 Misc : S34-01272101

Vial: 3
 Operator: TZ
 Inst : MS19

Quant Time: Mar 17 15:04:54 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 14:07:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M



TIC: 03172112.D\data.ms

(3) Chloromethane (T)

4.566min (+0.053) 30.10pg

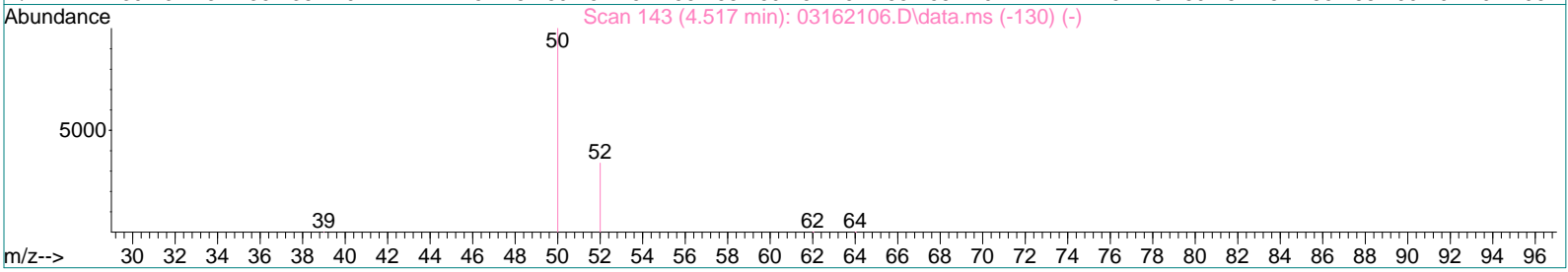
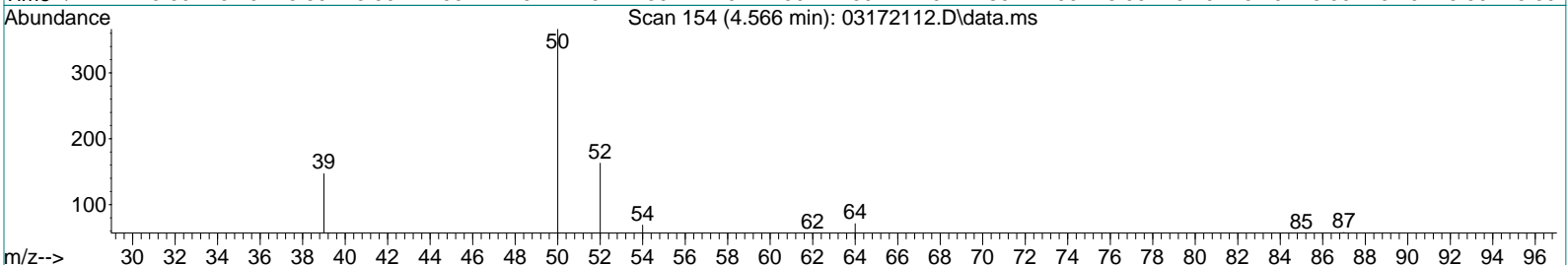
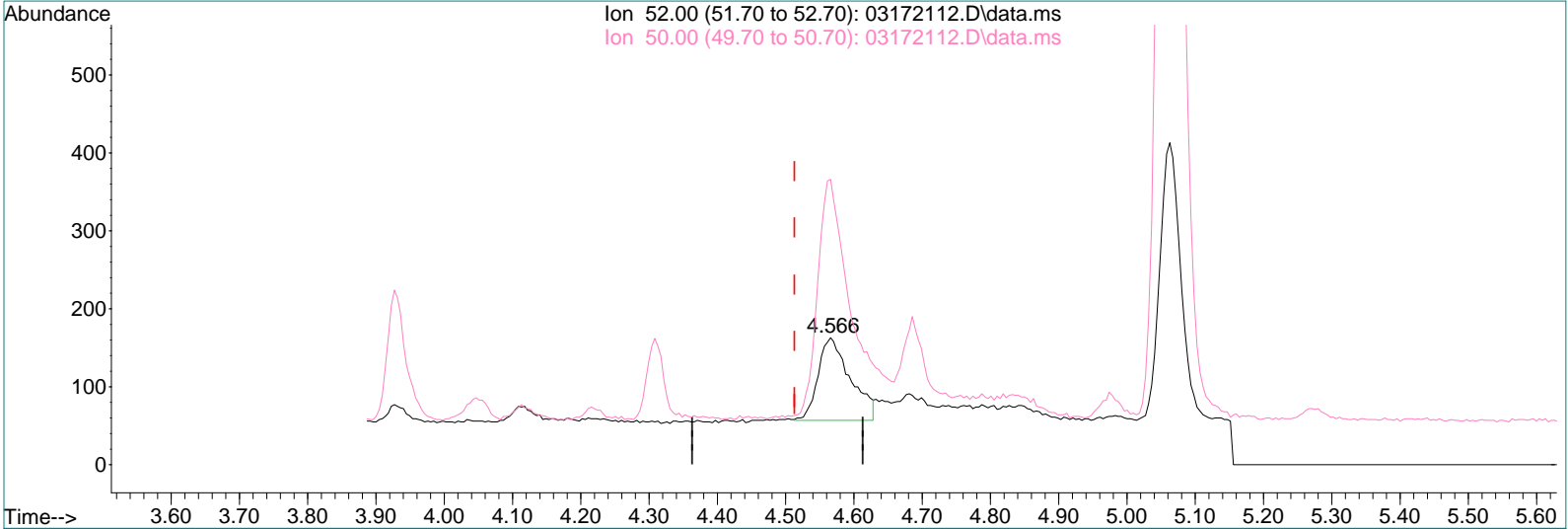
response 228

Ion	Exp%	Act%
52.00	100	100
50.00	298.50	300.44
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\MS19\DATA\2021 03\17\03172112.D
 Acq On : 17 Mar 2021 14:39
 Sample : P2101325-002dil (20mL)
 Misc : S34-01272101

Vial: 3
 Operator: TZ
 Inst : MS19

Quant Time: Mar 17 15:04:54 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 14:07:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M



TIC: 03172112.D\data.ms

(3) Chloromethane (T)

4.566min (+0.053) 46.20pg m

response 350

BLC

Ion	Exp%	Act%
52.00	100	100
50.00	298.50	195.71#
0.00	0.00	0.00
0.00	0.00	0.00

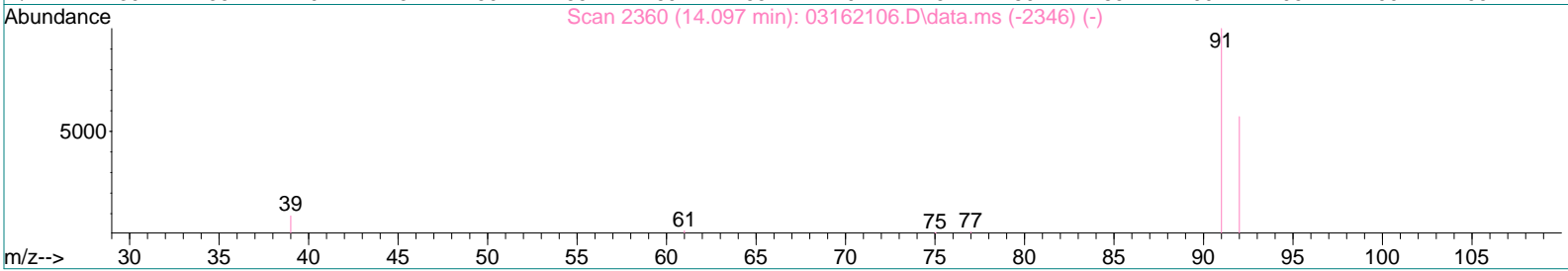
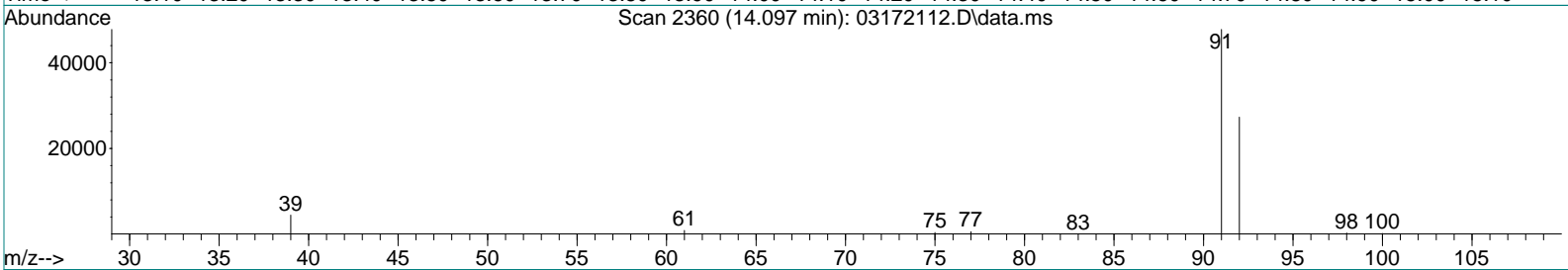
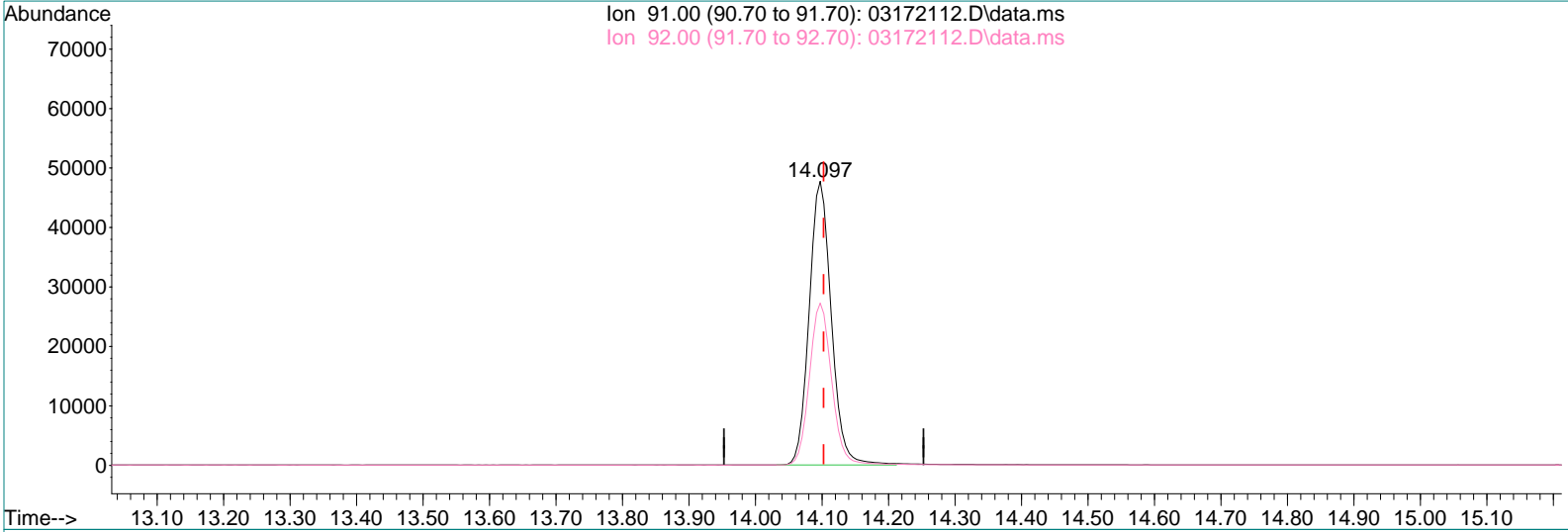
TZ 3/19/21

[Signature] 3/19/21

Data File : I:\MS19\DATA\2021 03\17\03172112.D
 Acq On : 17 Mar 2021 14:39
 Sample : P2101325-002dil (20mL)
 Misc : S34-01272101

Vial: 3
 Operator: TZ
 Inst : MS19

Quant Time: Mar 19 10:36:13 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 14:07:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M



TIC: 03172112.D\data.ms

(34) Toluene (T)

14.097min (-0.005) 1208.86pg

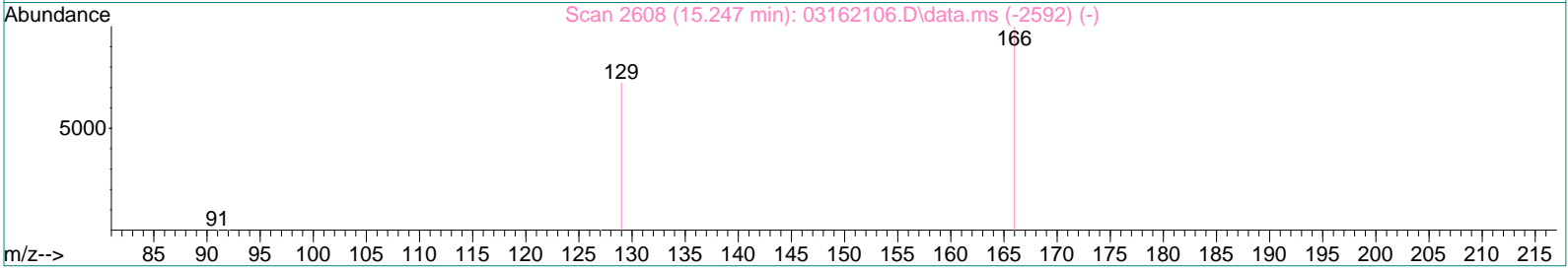
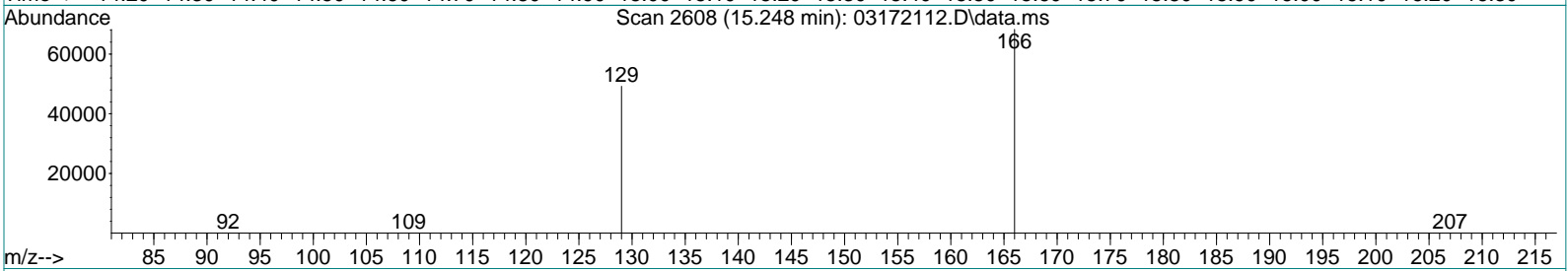
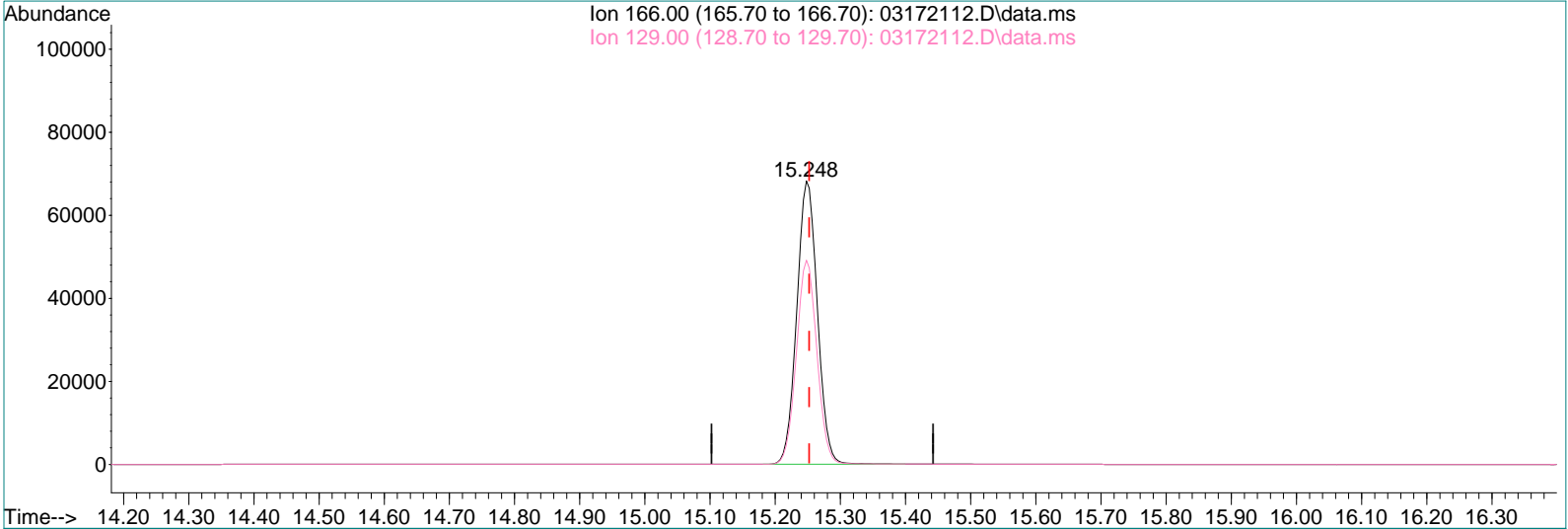
response 110193

Ion	Exp%	Act%
91.00	100	100
92.00	57.10	57.24
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\MS19\DATA\2021 03\17\03172112.D
 Acq On : 17 Mar 2021 14:39
 Sample : P2101325-002dil (20mL)
 Misc : S34-01272101

Vial: 3
 Operator: TZ
 Inst : MS19

Quant Time: Mar 17 15:04:54 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 14:07:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M



TIC: 03172112.D\data.ms

(37) Tetrachloroethene (T)

15.248min (-0.004) 6292.43pg

response 150235

Ion	Exp%	Act%
166.00	100	100
129.00	71.50	71.94
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\MS19\DATA\2021 03\17\03172104.D
 Acq On : 17 Mar 2021 9:34
 Sample : MB S19031721 1000mL
 Misc : S34-01272101_AS01329

Vial: 1
 Operator: TZ
 Inst : MS19

TZ 3/17/21

Quant Time: Mar 17 09:59:26 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 14:07:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	9.62	130	17316	1000.000	pg	-0.02
25) 1,4-Difluorobenzene (IS2)	11.57	114	80494	1000.000	pg	-0.01
38) Chlorobenzene-d5 (IS3)	15.90	54	13237	1000.000	pg	0.00

System Monitoring Compounds

20) 1,2-Dichloroethane-d4 ...	10.39	65	26732	1020.908	pg	-0.02
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	102.09%	
33) Toluene-d8 (SS2)	14.00	98	87503	995.291	pg	0.00
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	99.53%	
45) Bromofluorobenzene (SS3)	17.42	174	25488	963.688	pg	0.00
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	96.37%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethan...	0.00	85	0	N.D.		
3) Chloromethane	0.00	52	0	N.D.		
4) 1,2-Dichloro,1,1,2,2-t...	0.00	85	0	N.D.		
5) Vinyl Chloride	0.00	62	0	N.D.		
6) 1,3-Butadiene	0.00	54	0	N.D.		
7) Bromomethane	0.00	94	0	N.D.		
8) Chloroethane	0.00	64	0	N.D.		
9) Acrolein	0.00	56	0	N.D.		
10) Acetone	0.00	58	0	N.D.		
11) Trichlorofluoromethane	0.00	101	0	N.D.		
12) 1,1-Dichloroethene	0.00	96	0	N.D.		
13) Methylene Chloride	7.36	84	102	5.133	pg	88
14) Trichlorotrifluoroethane	0.00	151	0	N.D.		
15) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
16) 1,1-Dichloroethane	0.00	63	0	N.D.		
17) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
18) cis-1,2-Dichloroethene	0.00	96	0	N.D.		
19) Chloroform	0.00	83	0	N.D.		
21) 1,2-Dichloroethane	0.00	62	0	N.D.		
22) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
23) Benzene	11.24	78	375	N.D.		
24) Carbon Tetrachloride	0.00	117	0	N.D.		
26) 1,2-Dichloropropane	0.00	63	0	N.D.		
27) Bromodichloromethane	0.00	83	0	N.D.		
28) Trichloroethene	0.00	130	0	N.D.		
29) 1,4-Dioxane	0.00	88	0	N.D.		
30) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
31) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
32) 1,1,2-Trichloroethane	0.00	83	0	N.D.		
34) Toluene	14.10	91	148	N.D.		
35) Dibromochloromethane	0.00	129	0	N.D.		
36) 1,2-Dibromoethane	0.00	107	0	N.D.		
37) Tetrachloroethene	0.00	166	0	N.D.		
39) Chlorobenzene	0.00	112	0	N.D.		
40) Ethylbenzene	0.00	91	0	N.D.		
41) m,p-Xylene	0.00	91	0	N.D.		
42) Styrene	0.00	104	0	N.D.		
43) o-Xylene	0.00	106	0	N.D.		
44) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
46) 1,3,5-Trimethylbenzene	0.00	105	0	N.D.		
47) 1,2,4-Trimethylbenzene	18.59	105	102	N.D.		
48) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
49) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
50) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
51) 1,2-Dibromo-3-chloropr...	0.00	157	0	N.D.		
52) 1,2,4-Trichlorobenzene	20.87	182	110	N.D.		
53) Naphthalene	0.00	128	0	N.D.		

Data File : I:\MS19\DATA\2021 03\17\03172104.D
 Acq On : 17 Mar 2021 9:34
 Sample : MB S19031721 1000mL
 Misc : S34-01272101_AS01329

Vial: 1
 Operator: TZ
 Inst : MS19

Quant Time: Mar 17 09:59:26 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 14:07:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

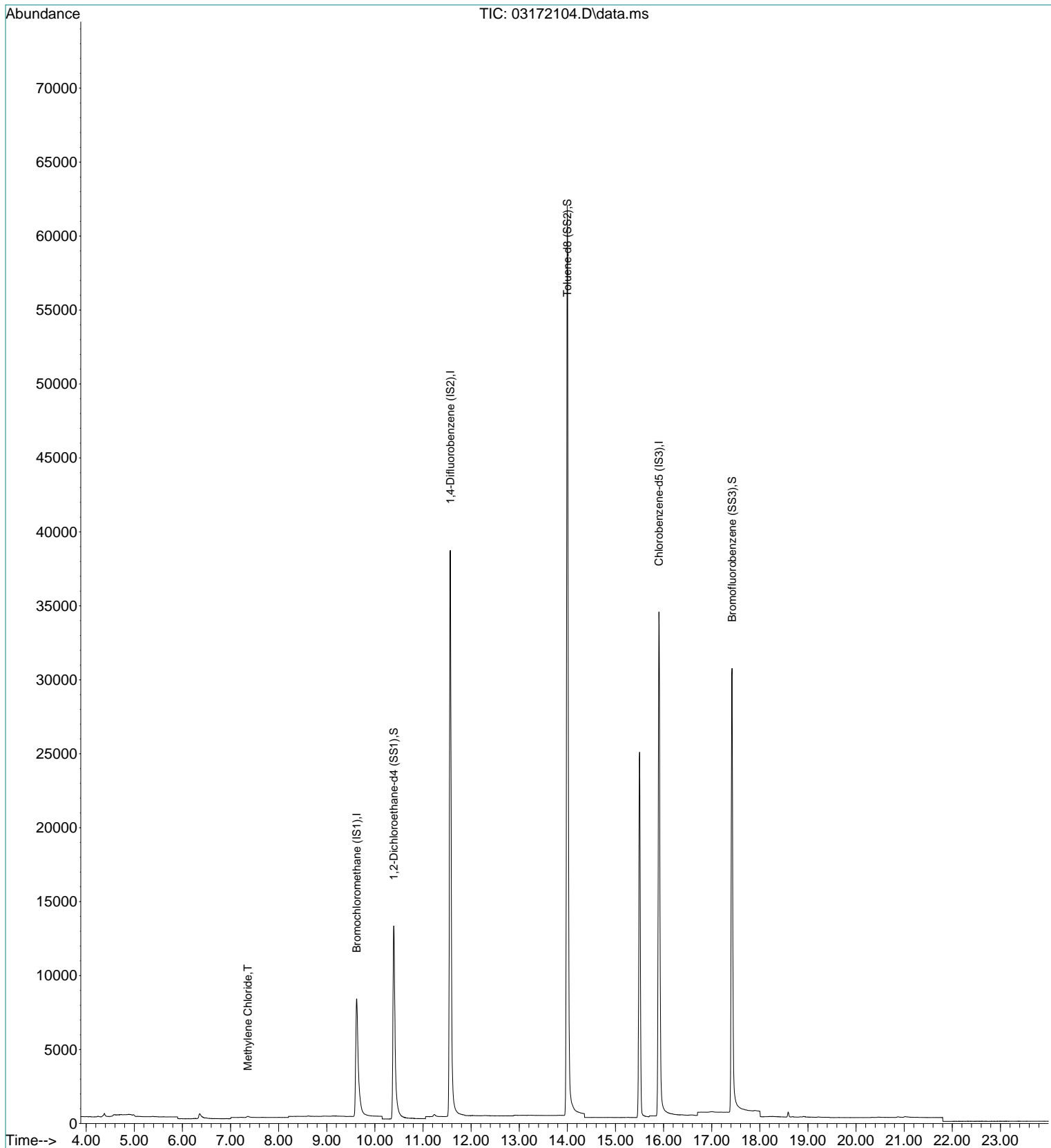
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
54) Hexachlorobutadiene	0.00	225	0	N.D.		

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

Data File : I:\MS19\DATA\2021 03\17\03172104.D
 Acq On : 17 Mar 2021 9:34
 Sample : MB S19031721 1000mL
 Misc : S34-01272101_AS01329

Vial: 1
 Operator: TZ
 Inst : MS19

Quant Time: Mar 17 09:59:26 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 14:07:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M



Data File : I:\MS19\DATA\2021 03\17\03172105.D
 Acq On : 17 Mar 2021 10:05
 Sample : LCS S19031721 1000pg
 Misc : S34-01272101/S34-03112101 (4/7)

Vial: 1
 Operator: TZ
 Inst : MS19

TZ 3/17/21

Quant Time: Mar 17 11:18:30 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 14:07:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	9.63	130	17451	1000.000	pg	0.00
25) 1,4-Difluorobenzene (IS2)	11.58	114	80836	1000.000	pg	0.00
38) Chlorobenzene-d5 (IS3)	15.90	54	13676	1000.000	pg	0.00

System Monitoring Compounds

20) 1,2-Dichloroethane-d4 ...	10.41	65	26962	1021.726	pg	0.00
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	102.17%	
33) Toluene-d8 (SS2)	14.00	98	88544	1002.871	pg	0.00
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	100.29%	
45) Bromofluorobenzene (SS3)	17.42	174	28172	1030.977	pg	0.00
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	103.10%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethan...	4.34	85	44109	1092.450	pg	100
3) Chloromethane	4.55	52	6105	824.935	pg	99
4) 1,2-Dichloro,1,1,2,2-t...	4.72	85	48874	937.317	pg	100
5) Vinyl Chloride	4.85	62	48859	1062.966	pg	100
6) 1,3-Butadiene	5.03	54	35222	1903.056	pg	99
7) Bromomethane	5.36	94	15716	1058.269	pg	99
8) Chloroethane	5.58	64	11266	1072.146	pg	100
9) Acrolein	6.15	56	17044	2004.020	pg	100
10) Acetone	6.29	58	56794	4985.916	pg	99
11) Trichlorofluoromethane	6.50	101	33892	1050.284	pg	100
12) 1,1-Dichloroethene	7.22	96	20539	1063.021	pg	100
13) Methylene Chloride	7.35	84	21319	1064.607	pg	99
14) Trichlorotrifluoroethane	7.67	151	16656	1080.602	pg	100
15) trans-1,2-Dichloroethene	8.38	96	21672	1126.357	pg	99
16) 1,1-Dichloroethane	8.59	63	33870	1109.696	pg	100
17) Methyl tert-Butyl Ether	8.66	73	58835	1159.354	pg	100
18) cis-1,2-Dichloroethene	9.47	96	22829	1088.405	pg	100
19) Chloroform	9.77	83	37423	1068.328	pg	98
21) 1,2-Dichloroethane	10.52	62	27315	1079.718	pg	99
22) 1,1,1-Trichloroethane	10.78	97	32026	1095.749	pg	100
23) Benzene	11.23	78	80713	1014.337	pg	100
24) Carbon Tetrachloride	11.38	117	26877	1082.487	pg	100
26) 1,2-Dichloropropane	12.05	63	19267	1054.749	pg	100
27) Bromodichloromethane	12.22	83	28975	1010.834	pg	99
28) Trichloroethene	12.28	130	23332	989.643	pg	100
29) 1,4-Dioxane	12.25	88	16483	887.687	pg	99
30) cis-1,3-Dichloropropene	13.12	75	29391	1053.837	pg	100
31) trans-1,3-Dichloropropene	13.63	75	23045	994.823	pg	99
32) 1,1,2-Trichloroethane	13.81	83	17480	1031.586	pg	100
34) Toluene	14.10	91	88242	992.325	pg	100
35) Dibromochloromethane	14.51	129	22753	1062.938	pg	100
36) 1,2-Dibromoethane	14.77	107	22778	1048.988	pg	99
37) Tetrachloroethene	15.25	166	23280	999.508	pg	100
39) Chlorobenzene	15.95	112	58905	1007.908	pg	100
40) Ethylbenzene	16.34	91	98814	1046.027	pg	100
41) m,p-Xylene	16.52	91	149768	2071.717	pg	100
42) Styrene	16.87	104	55595	1086.313	pg	99
43) o-Xylene	16.98	106	37891	1047.045	pg	100
44) 1,1,2,2-Tetrachloroethane	16.96	83	36081	1044.227	pg	100
46) 1,3,5-Trimethylbenzene	18.25	105	80110	1042.594	pg	99
47) 1,2,4-Trimethylbenzene	18.65	105	81066	1000.314	pg	100
48) 1,3-Dichlorobenzene	18.79	146	44999	991.528	pg	100
49) 1,4-Dichlorobenzene	18.85	146	45044	932.330	pg	100
50) 1,2-Dichlorobenzene	19.18	146	45241	971.223	pg	100
51) 1,2-Dibromo-3-chloropr...	19.60	157	28404	1831.729	pg	100
52) 1,2,4-Trichlorobenzene	20.81	182	49468	1512.804	pg	100
53) Naphthalene	20.92	128	74669	740.102	pg	100

Data File : I:\MS19\DATA\2021 03\17\03172105.D
 Acq On : 17 Mar 2021 10:05
 Sample : LCS S19031721 1000pg
 Misc : S34-01272101/S34-03112101 (4/7)

Vial: 1
 Operator: TZ
 Inst : MS19

Quant Time: Mar 17 11:18:30 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 14:07:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

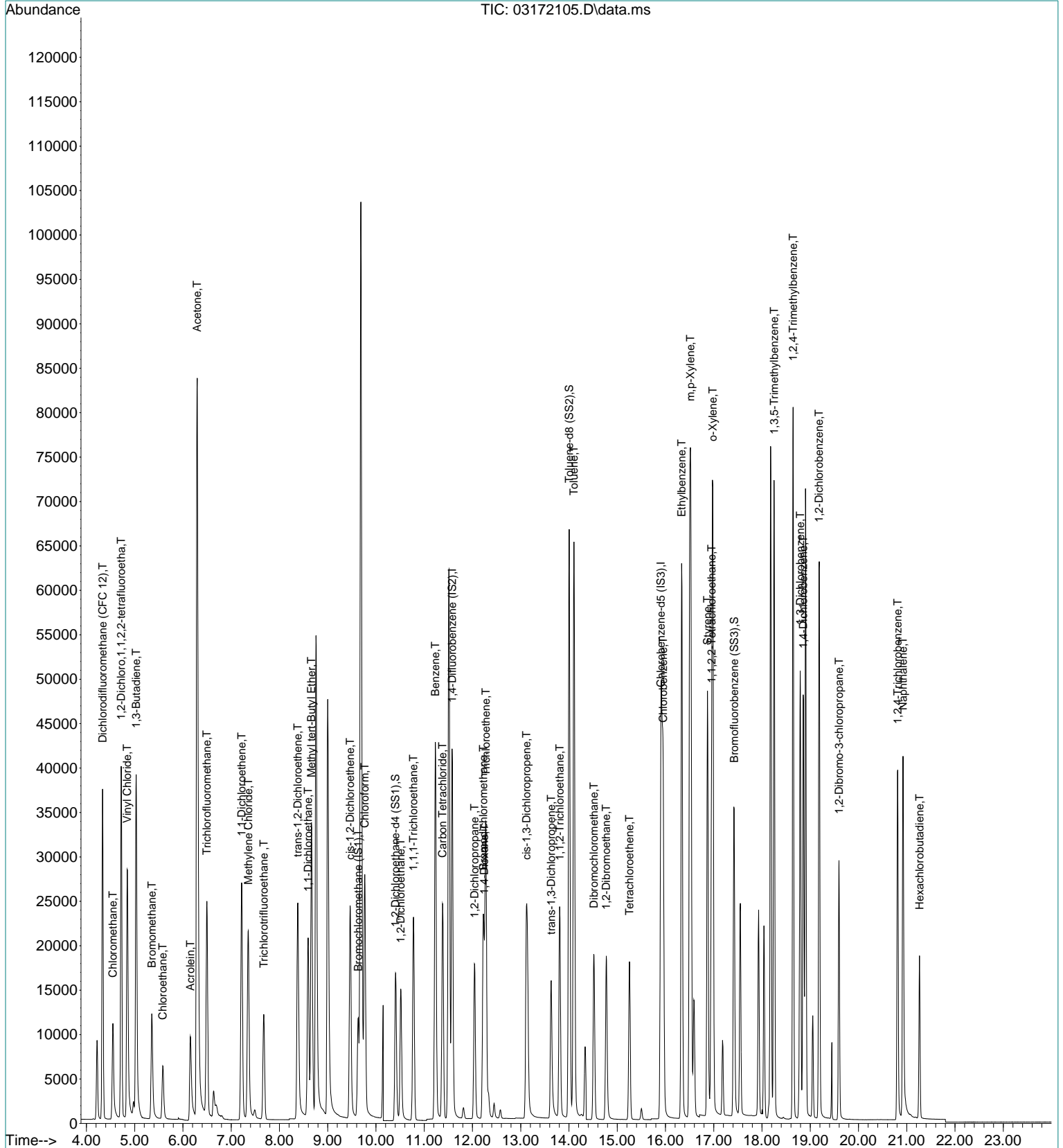
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Hexachlorobutadiene	21.27	225	17413	902.328	pg	100

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

Data File : I:\MS19\DATA\2021 03\17\03172105.D
 Acq On : 17 Mar 2021 10:05
 Sample : LCS S19031721 1000pg
 Misc : S34-01272101/S34-03112101 (4/7)

Vial: 1
 Operator: TZ
 Inst : MS19

Quant Time: Mar 17 11:18:30 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 14:07:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M



Method Path : I:\MS19\METHODS\
 Method File : S19031621.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Tue Mar 16 14:07:28 2021
 Response Via : Initial Calibration

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Calibration Files

20 =03162102.D 50 =03162103.D 100 =03162104.D 500 =03162105.D 1000=03162106.D 5000=03162111.D 10K =03162108.D
 25K =03162109.D 50K =03162112.D

Compound	20	50	100	500	1000	5000	10K	25K	50K	Avg	%RSD
-----ISTD-----											
1) I Bromochloromethane...											
2) T Dichlorodifluo...	2.636	2.729	2.155	2.457	2.322	2.565	1.970	2.070	1.920	2.314	12.95
3) T Chloromethane	0.459	0.566	0.250	0.498	0.349	0.422			0.424	0.424	26.40
4) T 1,2-Dichloro,1...	3.335	3.480	2.736	3.168	3.055	3.360	2.539	2.689	2.529	2.988	12.43
5) T Vinyl Chloride	2.543	3.143	2.414	2.845	2.708	3.067	2.352	2.443	2.191	2.634	12.49
6) T 1,3-Butadiene	0.914	1.065	0.820	1.067	1.087	1.411			1.061	1.061	18.99
7) T Bromomethane	0.965	0.968	0.773	0.893	0.871	0.984	0.732	0.771	0.702	0.851	12.82
8) T Chloroethane	0.612	0.686	0.543	0.644	0.621	0.705	0.538	0.564	0.507	0.602	11.42
9) T Acrolein	0.551	0.514	0.395	0.472	0.474	0.590	0.449	0.492	0.451	0.487	11.94
10) T Acetone			0.681	0.644	0.623	0.743	0.573		0.653	0.653	9.77
11) T Trichlorofluor...	1.966	2.098	1.661	1.954	1.874	2.143	1.629	1.721	1.597	1.849	11.11
12) T 1,1-Dichloroet...	1.178	1.191	1.000	1.154	1.109	1.298	0.993	1.061	0.980	1.107	9.76
13) T Methylene Chlo...	1.246	1.287	1.025	1.195	1.143	1.338	1.016	1.084	0.993	1.148	11.01
14) T Trichlorotrifl...	0.914	0.981	0.769	0.905	0.893	1.024	0.751	0.844	0.868	0.883	10.06
15) T trans-1,2-Dich...	0.937	1.241	0.967	1.187	1.133	1.334	1.011	1.097	1.016	1.103	12.11
16) T 1,1-Dichloroet...	1.786	1.927	1.526	1.890	1.810	2.092	1.544	1.658	1.508	1.749	11.66
17) T Methyl tert-Bu...	3.133	3.326	2.134	3.224	3.053	2.579			2.908	2.908	15.79
18) T cis-1,2-Dichlo...	1.178	1.295	1.035	1.266	1.217	1.440	1.085	1.188	1.113	1.202	10.19
19) T Chloroform	2.117	2.212	1.774	2.095	2.003	2.350	1.763	1.936	1.817	2.007	10.19
20) S 1,2-Dichloroet...	1.553	1.559	1.581	1.552	1.560	1.574	1.493	1.396	1.344	1.512	5.65
21) T 1,2-Dichloroet...	1.387	1.526	1.291	1.528	1.475	1.734	1.321	1.437	1.348	1.450	9.43
22) T 1,1,1-Trichlor...	1.747	1.933	1.366	1.804	1.717	2.031	1.401	1.584	1.490	1.675	13.84
23) T Benzene	5.039	5.122	3.924	4.589	4.433	5.220	4.031	4.454	4.226	4.560	10.42
24) T Carbon Tetrach...	1.495	1.511	1.152	1.476	1.422	1.738	1.243	1.412	1.355	1.423	11.81
-----ISTD-----											
25) I 1,4-Difluorobenzen...											
26) T 1,2-Dichloropr...	0.208	0.238	0.191	0.233	0.225	0.265	0.201	0.231	0.242	0.226	10.12
27) T Bromodichlorom...	0.321	0.359	0.279	0.345	0.332	0.411	0.319	0.389	0.436	0.355	13.98
28) T Trichloroethene	0.281	0.308	0.239	0.292	0.281	0.332	0.255	0.305	0.333	0.292	10.93
29) T 1,4-Dioxane	0.233	0.268	0.218	0.207	0.201	0.251	0.191	0.234	0.264	0.230	12.06
30) T cis-1,3-Dichlo...	0.259	0.314	0.259	0.334	0.336	0.451	0.355	0.452	0.345	0.345	21.60
31) T trans-1,3-Dich...			0.203	0.184	0.257	0.273	0.396	0.313	0.380	0.287	28.47
32) T 1,1,2-Trichlor...	0.205	0.221	0.178	0.211	0.204	0.241	0.184	0.215	0.230	0.210	9.64
33) S Toluene-d8 (SS2)	1.086	1.084	1.094	1.091	1.088	1.089	1.099	1.104	1.096	1.092	0.60
34) T Toluene	1.147	1.187	0.929	1.065	1.022	1.227	0.951	1.135	1.237	1.100	10.41
35) T Dibromochlorom...	0.230	0.260	0.205	0.258	0.253	0.317	0.246	0.296	0.319	0.265	14.62
36) T 1,2-Dibromoethane	0.228	0.271	0.222	0.269	0.264	0.320	0.248	0.289	0.307	0.269	12.37
37) T Tetrachloroethene	0.297	0.307	0.243	0.285	0.271	0.317	0.247	0.297	0.330	0.288	10.36

Retention Time (min)	Peak Name	Area	Height	Width	Height	Area	Height
4.632	Chlorobenzene-d5	3.758	4.292	4.067	4.716	3.577	4.273
7.045	Chlorobenzene	5.921	7.029	6.765	8.024	6.075	6.907
5.231	Ethylbenzene	4.553	5.258	5.094	6.285	4.802	5.286
3.330	m,p-Xylene	2.851	3.775	3.818	4.937	3.742	3.742
2.646	Styrene	2.293	2.665	2.568	3.066	2.338	2.646
2.517	o-Xylene	2.217	2.555	2.463	2.924	2.237	2.527
1.935	1,1,2,2-Tetrac...	1.996	2.029	2.038	2.030	1.984	1.998
5.653	Bromofluoroben...	4.842	5.604	5.434	6.678	5.068	5.618
5.586	1,3,5-Trimethy...	5.113	5.678	5.588	7.366	5.802	5.926
3.125	1,2,4-Trimethy...	2.960	3.208	3.145	3.968	3.089	3.318
3.886	1,3-Dichlorobe...	4.194	3.252	3.314	3.202	3.907	3.533
3.555	1,4-Dichlorobe...	3.120	3.164	3.058	3.875	3.028	3.406
1.016	1,2-Dichlorobe...	1.057	1.031	1.039	1.396	1.110	1.134
2.594	1,2-Dibromo-3-...	3.076	2.291	1.974	1.954	2.761	2.391
7.510	1,2,4-Trichlor...	7.026	5.872	6.047	8.981	6.335	7.377
1.677	Naphthalene	1.404	1.251	1.191	1.444	1.119	1.411
1.677	Hexachlorobuta...	1.404	1.251	1.191	1.444	1.119	1.411

(#) = Out of Range

S19031621.M Wed Mar 17 12:34:01 2021

ICV/LCS Standard Concentrations (Secondary Source)

72 3/19/21

4ng/L Working Std. ID: S34-03112101
 20ng/L Working Std. ID:
 200ng/L Working Std. ID:

Dilution Factor:	5	50	250
Working Std. Conc. Utilized:	20		

Working Std. Conc. Injection Amounts (L):

Compounds	mg/m ³	Secondary Working Std. Conc.				ICV / LCS Actual Conc.(ng)	
		200ng/L	20ng/L	4ng/L	4ng/L	0.050	0.050
Propene	1.05	210	21.0	4.20	4.20	1.050	1.050
Dichlorodifluoromethane(12)	1.05	210	21.0	4.20	4.20	1.050	1.050
Chloromethane	1.03	206	20.6	4.12	4.12	1.030	1.030
Freon-114	1.08	216	21.6	4.32	4.32	1.080	1.080
Vinyl Chloride	1.04	208	20.8	4.16	4.16	1.040	1.040
1,3-Butadiene	1.05	210	21.0	4.20	4.20	1.050	1.050
Bromomethane	1.02	204	20.4	4.08	4.08	1.020	1.020
Chloroethane	1.02	204	20.4	4.08	4.08	1.020	1.020
Ethanol	4.99	998	99.8	19.96	19.96	4.990	4.990
Acetonitrile	1.01	202	20.2	4.04	4.04	1.010	1.010
Acrolein	2.18	436	43.6	8.72	8.72	2.180	2.180
Acetone	5.16	1032	103.2	20.64	20.64	5.160	5.160
Trichlorofluoromethane(11)	1.02	204	20.4	4.08	4.08	1.020	1.020
Isopropanol	2.04	408	40.8	8.16	8.16	2.040	2.040
Acrylonitrile	2.05	410	41.0	8.20	8.20	2.050	2.050
1,1-Dichloroethene	1.06	212	21.2	4.24	4.24	1.060	1.060
tert-Butanol	2.09	418	41.8	8.36	8.36	2.090	2.090
Methylene Chloride	1.04	208	20.8	4.16	4.16	1.040	1.040
Allyl Chloride	1.05	210	21.0	4.20	4.20	1.050	1.050
Trichlorofluoroethane(113)	1.07	214	21.4	4.28	4.28	1.070	1.070
Carbon Disulfide	2.14	428	42.8	8.56	8.56	2.140	2.140
trans-1,2-Dichloroethene	1.06	212	21.2	4.24	4.24	1.060	1.060
1,1-Dichloroethane	1.06	212	21.2	4.24	4.24	1.060	1.060
Methyl tert-Butyl Ether	1.06	212	21.2	4.24	4.24	1.060	1.060
Vinyl Acetate	5.50	1100	110.0	22.00	22.00	5.500	5.500
2-Butanone	2.06	412	41.2	8.24	8.24	2.060	2.060
cis-1,2-Dichloroethene	1.04	208	20.8	4.16	4.16	1.040	1.040
Diisopropyl Ether	2.12	424	42.4	8.48	8.48	2.120	2.120
Ethyl Acetate	2.11	422	42.2	8.44	8.44	2.110	2.110
n-Hexane	1.06	212	21.2	4.24	4.24	1.060	1.060
Chloroform	1.07	214	21.4	4.28	4.28	1.070	1.070
Tetrahydrofuran	2.00	400	40.0	8.00	8.00	2.000	2.000
Ethyl tert-Butyl Ether	2.10	420	42.0	8.40	8.40	2.100	2.100
1,2-Dichloroethane	1.04	208	20.8	4.16	4.16	1.040	1.040
1,1,1-Trichloroethane	1.03	206	20.6	4.12	4.12	1.030	1.030
Benzene	1.02	204	20.4	4.08	4.08	1.020	1.020
Carbon Tetrachloride	1.05	210	21.0	4.20	4.20	1.050	1.050
Cyclohexane	2.08	416	41.6	8.32	8.32	2.080	2.080
tert-Amyl Methyl Ether	2.09	418	41.8	8.36	8.36	2.090	2.090
1,2-Dichloropropane	1.03	206	20.6	4.12	4.12	1.030	1.030
Bromodichloromethane	1.05	210	21.0	4.20	4.20	1.050	1.050
Trichloroethene	1.03	206	20.6	4.12	4.12	1.030	1.030
1,4-Dioxane	1.04	208	20.8	4.16	4.16	1.040	1.040
Isocitane	1.06	212	21.2	4.24	4.24	1.060	1.060
Methyl Methacrylate	2.08	416	41.6	8.32	8.32	2.080	2.080
n-Heptane	1.05	210	21.0	4.20	4.20	1.050	1.050
cis-1,3-Dichloropropene	1.05	210	21.0	4.20	4.20	1.050	1.050
4-Methyl-2-pentanone	2.08	416	41.6	8.32	8.32	2.080	2.080
trans-1,3-Dichloropropene	1.01	202	20.2	4.04	4.04	1.010	1.010
1,1,2-Trichloroethane	1.03	206	20.6	4.12	4.12	1.030	1.030
Toluene	1.03	206	20.6	4.12	4.12	1.030	1.030
2-Hexanone	2.02	404	40.4	8.08	8.08	2.020	2.020
Dibromochloromethane	1.05	210	21.0	4.20	4.20	1.050	1.050
1,2-Dibromoethane	1.04	208	20.8	4.16	4.16	1.040	1.040
n-Butyl Acetate	2.03	406	40.6	8.12	8.12	2.030	2.030
n-Octane	1.05	210	21.0	4.20	4.20	1.050	1.050
Tetrachloroethene	1.03	206	20.6	4.12	4.12	1.030	1.030
Chlorobenzene	1.03	206	20.6	4.12	4.12	1.030	1.030
Ethylbenzene	1.03	206	20.6	4.12	4.12	1.030	1.030
m-p-Xylene	2.06	412	41.2	8.24	8.24	2.060	2.060
Bromoform	1.04	208	20.8	4.16	4.16	1.040	1.040
Styrene	1.03	206	20.6	4.12	4.12	1.030	1.030
o-Xylene	1.03	206	20.6	4.12	4.12	1.030	1.030
n-Nonane	1.04	208	20.8	4.16	4.16	1.040	1.040
1,1,2,2-Tetrachloroethane	1.03	206	20.6	4.12	4.12	1.030	1.030
Cumene	1.04	208	20.8	4.16	4.16	1.040	1.040
alpha-Pinene	1.07	214	21.4	4.28	4.28	1.070	1.070
n-Propylbenzene	1.04	208	20.8	4.16	4.16	1.040	1.040
4-Ethyltoluene	1.05	210	21.0	4.20	4.20	1.050	1.050
1,3,5-Trimethylbenzene	1.03	206	20.6	4.12	4.12	1.030	1.030
1,2,4-Trimethylbenzene	1.02	204	20.4	4.08	4.08	1.020	1.020
Benzyl Chloride	2.01	402	40.2	8.04	8.04	2.010	2.010
1,3-Dichlorobenzene	1.03	206	20.6	4.12	4.12	1.030	1.030
1,4-Dichlorobenzene	1.02	204	20.4	4.08	4.08	1.020	1.020
sec-Butylbenzene	1.03	206	20.6	4.12	4.12	1.030	1.030
p-Isopropyltoluene	1.03	206	20.6	4.12	4.12	1.030	1.030
1,2-Dichlorobenzene	1.03	206	20.6	4.12	4.12	1.030	1.030
d-Limonene	1.04	208	20.8	4.16	4.16	1.040	1.040
1,2-Dibromo-3-chloropropane	1.93	386	38.6	7.72	7.72	1.930	1.930
1,2,4-Trichlorobenzene	1.94	388	38.8	7.76	7.76	1.940	1.940
Naphthalene	0.99	198	19.8	3.96	3.96	0.990	0.990
Hexachloro-1,3-butadiene	1.05	210	21.0	4.20	4.20	1.050	1.050
tert-Butylbenzene	1.03	206	20.6	4.12	4.12	1.030	1.030
n-Butylbenzene	1.03	206	20.6	4.12	4.12	1.030	1.030
1,1,1,2-Tetrachloroethane	1.03	206	20.6	4.12	4.12	1.030	1.030

*Enter information in the Solid Shaded Areas ONLY.

Method : I:\MS19\METHODS\S19031621.M (RTE Integrator)
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Tue Mar 16 14:07:28 2021
 Response via : Initial Calibration

3/17/21

#	ID	Conc	ISTD Conc	Path\File
1	20	21	1000	I:\MS19\DATA\2021_03\16\03162102.D
2	50	52	1000	I:\MS19\DATA\2021_03\16\03162103.D
3	100	104	1000	I:\MS19\DATA\2021_03\16\03162104.D
4	500	520	1000	I:\MS19\DATA\2021_03\16\03162105.D
5	1000	1040	1000	I:\MS19\DATA\2021_03\16\03162106.D
6	5000	5200	1000	I:\MS19\DATA\2021_03\16\03162111.D
7	10K	10400	1000	I:\MS19\DATA\2021_03\16\03162108.D
8	25K	26000	1000	I:\MS19\DATA\2021_03\16\03162109.D
9	50K	52000	1000	I:\MS19\DATA\2021_03\16\03162112.D

#	ID	Update Time	Quant Time	Acquisition Time
1	20	Mar 16 11:16 2021	Mar 16 11:15 2021	16 Mar 2021 8:17
2	50	Mar 16 11:20 2021	Mar 16 11:10 2021	16 Mar 2021 8:56
3	100	Mar 16 11:20 2021	Mar 16 11:18 2021	16 Mar 2021 9:29
4	500	Mar 16 11:11 2021	Mar 16 11:10 2021	16 Mar 2021 10:01
5	1000	Mar 16 11:11 2021	Mar 16 11:10 2021	16 Mar 2021 10:32
6	5000	Mar 16 13:35 2021	Mar 16 13:35 2021	16 Mar 2021 13:10
7	10K	Mar 16 12:25 2021	Mar 16 12:25 2021	16 Mar 2021 11:36
8	25K	Mar 16 12:31 2021	Mar 16 12:31 2021	16 Mar 2021 12:07
9	50K	Mar 16 14:07 2021	Mar 16 14:07 2021	16 Mar 2021 13:41

Wed Mar 17 12:34:42 2021

S19031621.M

Data File : I:\MS19\DATA\2021 03\16\03162102.D
 Acq On : 16 Mar 2021 8:17
 Sample : 20pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03152102 (4/9)

Vial: 14
 Operator: TZ
 Inst : MS19

TZ 3/17/21

Quant Time: Mar 16 11:15:33 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 11:10:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	9.62	130	16982	1000.000	pg	0.01
25) 1,4-Difluorobenzene (IS2)	11.56	114	78411	1000.000	pg	0.00
38) Chlorobenzene-d5 (IS3)	15.90	54	12618	1000.000	pg	0.00

System Monitoring Compounds

20) 1,2-Dichloroethane-d4 ...	10.39	65	26369	1003.173	pg	0.00
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	100.32%	
33) Toluene-d8 (SS2)	14.00	98	85131	996.427	pg	0.00
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	99.64%	
45) Bromofluorobenzene (SS3)	17.42	174	24420	989.848	pg	0.00
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	98.98%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethan...	4.34	85	931	22.481	pg	99
3) Chloromethane	4.57	52	162	21.294	pg	# 90
4) 1,2-Dichloro,1,1,2,2-t...	4.72	85	1178	22.047	pg	100
5) Vinyl Chloride	4.88	62	907	18.884	pg	92
6) 1,3-Butadiene	5.06	54	323	12.243	pg	86
7) Bromomethane	5.38	94	341	23.148	pg	98
8) Chloroethane	5.60	64	216	20.071	pg	99
9) Acrolein	6.24	56	408m	45.697	pg	
10) Acetone	6.33	58	1464	112.392	pg	98
11) Trichlorofluoromethane	6.49	101	681	20.715	pg	99
12) 1,1-Dichloroethene	7.22	96	416	21.254	pg	99
13) Methylene Chloride	7.35	84	440	21.804	pg	96
14) Trichlorotrifluoroethane	7.67	151	326	20.592	pg	98
15) trans-1,2-Dichloroethene	8.40	96	334	17.018	pg	89
16) 1,1-Dichloroethane	8.58	63	649	20.471	pg	98
17) Methyl tert-Butyl Ether	8.69	73	1096	21.464	pg	100
18) cis-1,2-Dichloroethene	9.47	96	416	19.636	pg	98
19) Chloroform	9.75	83	755	21.302	pg	95
21) 1,2-Dichloroethane	10.51	62	490	18.565	pg	86
22) 1,1,1-Trichloroethane	10.77	97	611	19.887	pg	100
23) Benzene	11.23	78	1780	22.384	pg	98
24) Carbon Tetrachloride	11.37	117	518	19.426	pg	99
26) 1,2-Dichloropropane	12.04	63	339	17.484	pg	95
27) Bromodichloromethane	12.22	83	524	17.327	pg	98
28) Trichloroethene	12.28	130	449	18.148	pg	97
29) 1,4-Dioxane	12.29	88	377	21.027	pg	92
30) cis-1,3-Dichloropropene	13.14	75	426	14.047	pg	97
31) trans-1,3-Dichloropropene	13.70	75	252m	11.541	pg	
32) 1,1,2-Trichloroethane	13.81	83	334	19.264	pg	98
34) Toluene	14.10	91	1871	20.682	pg	100
35) Dibromochloromethane	14.52	129	375	16.318	pg	100
36) 1,2-Dibromoethane	14.80	107	372	16.511	pg	99
37) Tetrachloroethene	15.25	166	485	19.397	pg	100
39) Chlorobenzene	15.95	112	1204	22.971	pg	98
40) Ethylbenzene	16.35	91	1849	21.481	pg	100
41) m,p-Xylene	16.52	91	2759	40.709	pg	100
42) Styrene	16.90	104	558	10.926	pg	98
43) o-Xylene	16.99	106	701	21.241	pg	99
44) 1,1,2,2-Tetrachloroethane	16.97	83	667	21.089	pg	99
46) 1,3,5-Trimethylbenzene	18.26	105	1498	20.891	pg	94
47) 1,2,4-Trimethylbenzene	18.65	105	1452	19.287	pg	100
48) 1,3-Dichlorobenzene	18.81	146	828	18.896	pg	99
49) 1,4-Dichlorobenzene	18.87	146	1020	23.061	pg	100
50) 1,2-Dichlorobenzene	19.19	146	942	21.338	pg	100
51) 1,2-Dibromo-3-chloropr...	19.61	157	513	33.487	pg	96
52) 1,2,4-Trichlorobenzene	20.84	182	1309	45.630	pg	93
53) Naphthalene	20.96	128	1952	21.936	pg	99

Data File : I:\MS19\DATA\2021 03\16\03162102.D
 Acq On : 16 Mar 2021 8:17
 Sample : 20pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03152102 (4/9)

Vial: 14
 Operator: TZ
 Inst : MS19

Quant Time: Mar 16 11:15:33 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 11:10:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

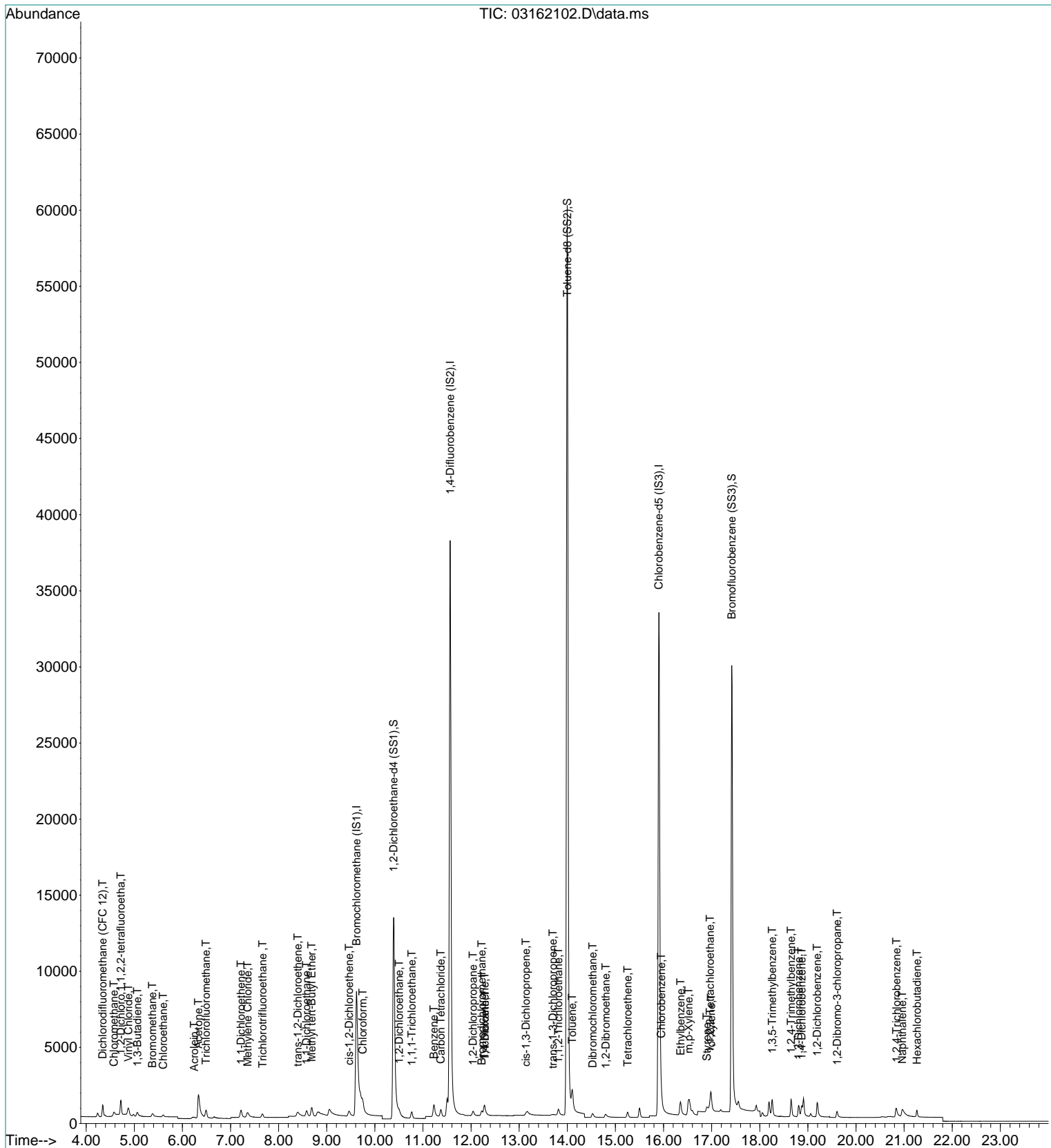
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Hexachlorobutadiene	21.27	225	436	22.563	pg	99

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

Data File : I:\MS19\DATA\2021 03\16\03162102.D
 Acq On : 16 Mar 2021 8:17
 Sample : 20pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03152102 (4/9)

Vial: 14
 Operator: TZ
 Inst : MS19

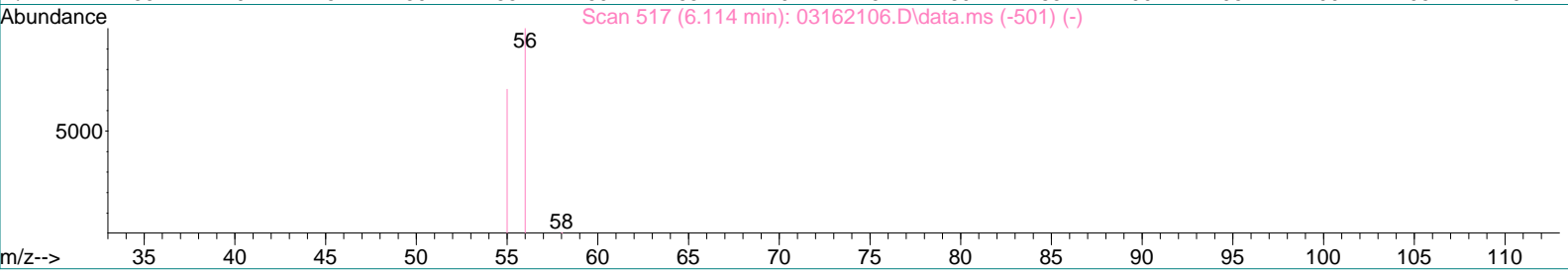
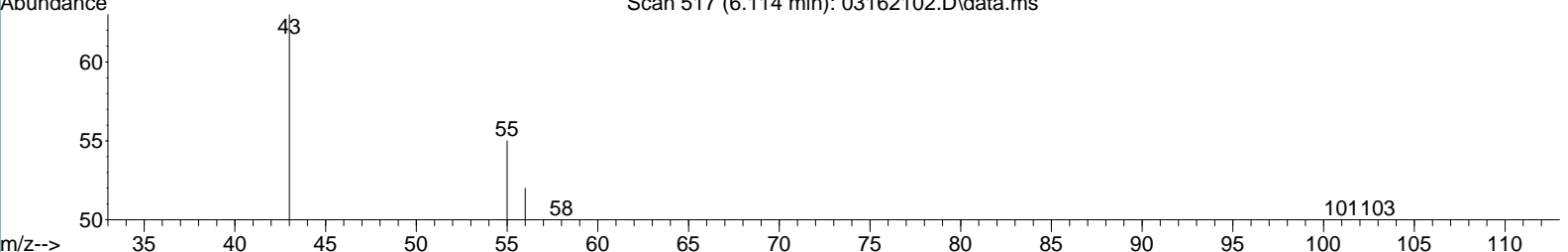
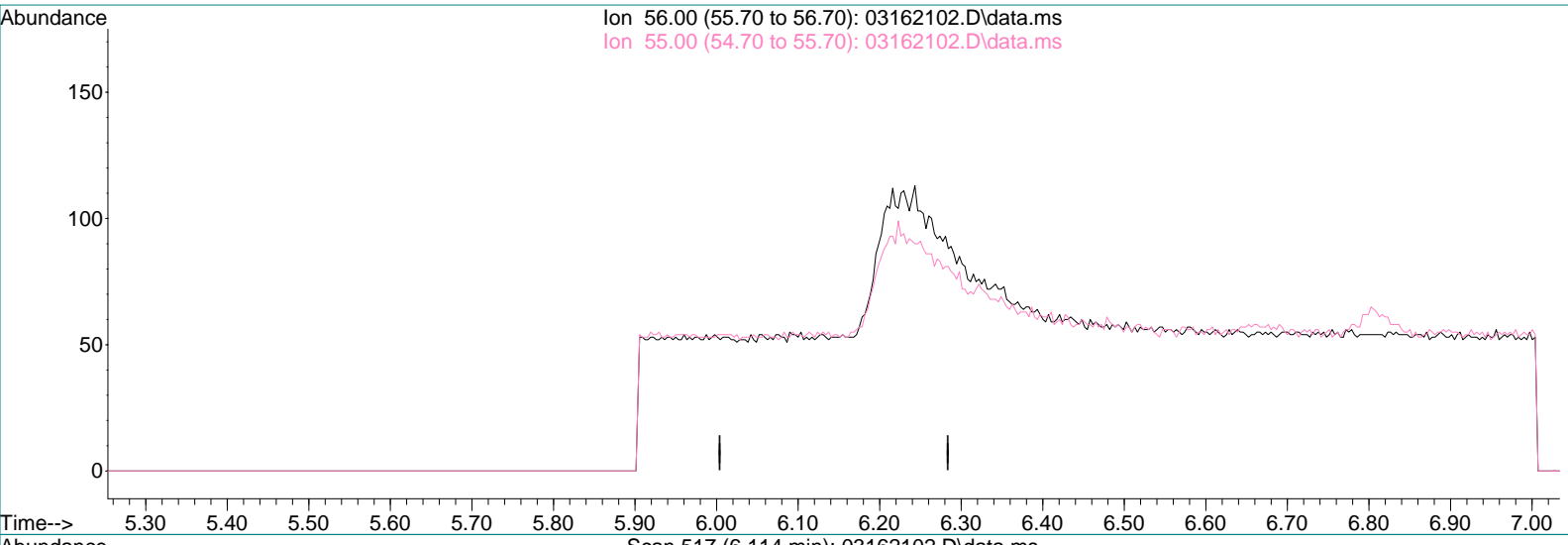
Quant Time: Mar 16 11:15:33 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 11:10:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M



Data File : I:\MS19\DATA\2021 03\16\03162102.D
 Acq On : 16 Mar 2021 8:17
 Sample : 20pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03152102 (4/9)

Vial: 14
 Operator: TZ
 Inst : MS19

Quant Time: Mar 16 11:10:38 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 11:10:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M



TIC: 03162102.D\data.ms

(9) Acrolein (T)

6.114min (-6.114) 0.00pg

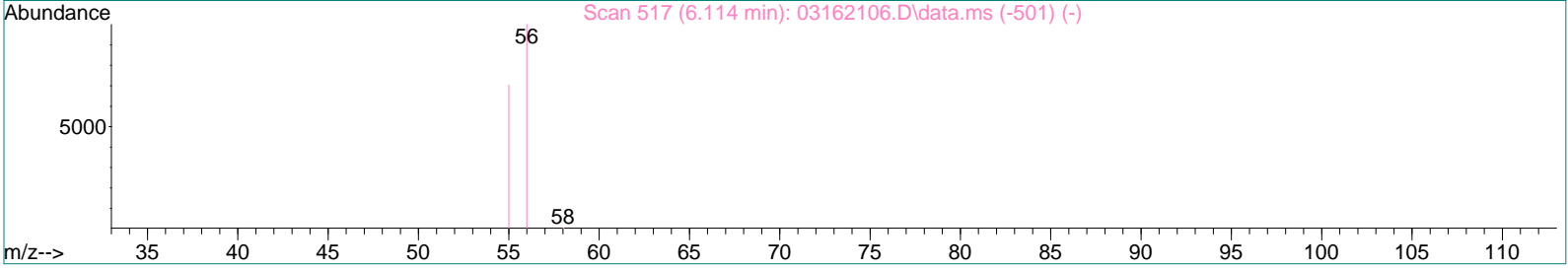
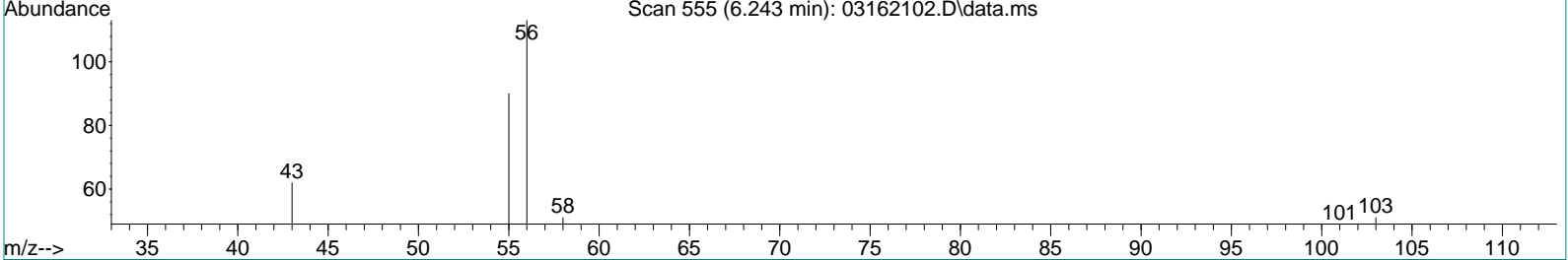
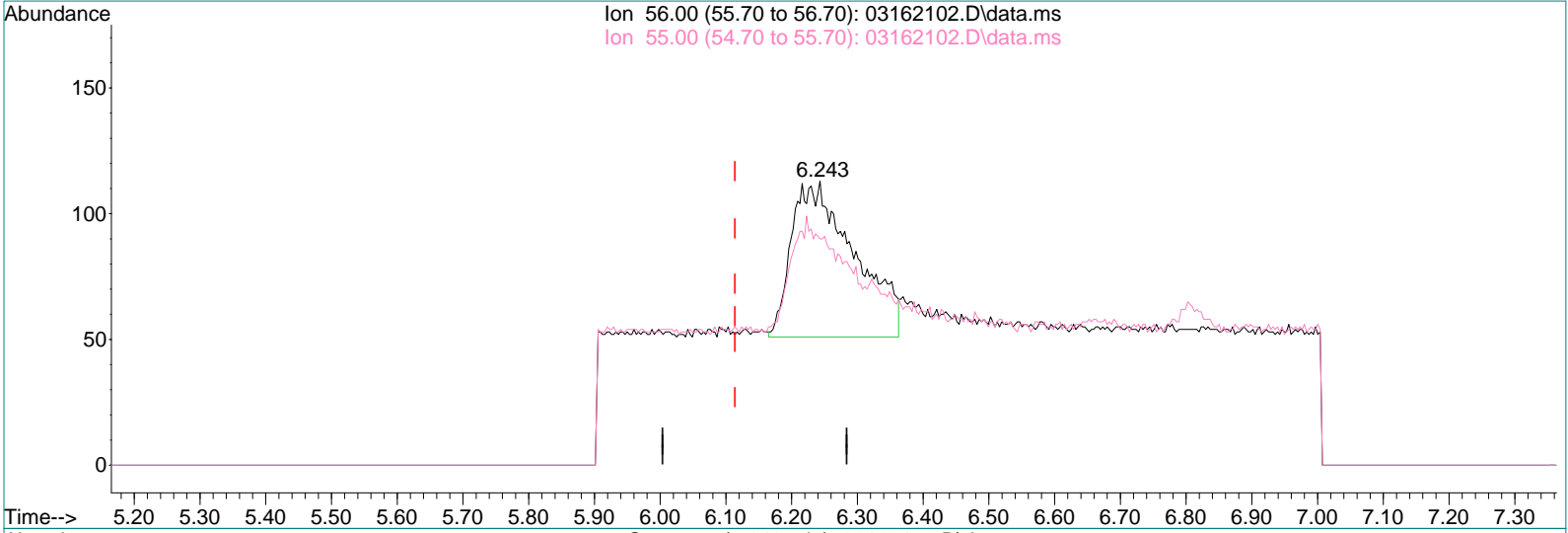
response 0

Ion	Exp%	Act%
56.00	100	0.00
55.00	68.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\MS19\DATA\2021 03\16\03162102.D
 Acq On : 16 Mar 2021 8:17
 Sample : 20pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03152102 (4/9)

Vial: 14
 Operator: TZ
 Inst : MS19

Quant Time: Mar 16 11:10:38 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 11:10:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M



TIC: 03162102.D\data.ms

(9) Acrolein (T)

6.243min (+0.130) 45.70pg m

MP

response 408

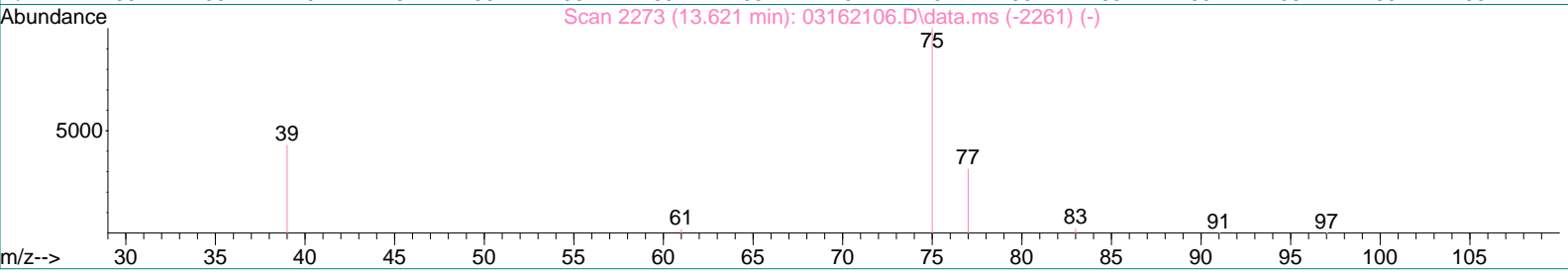
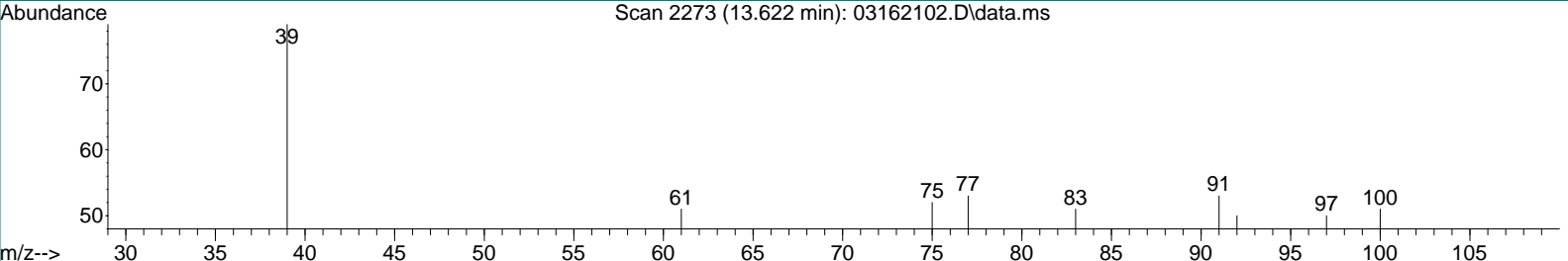
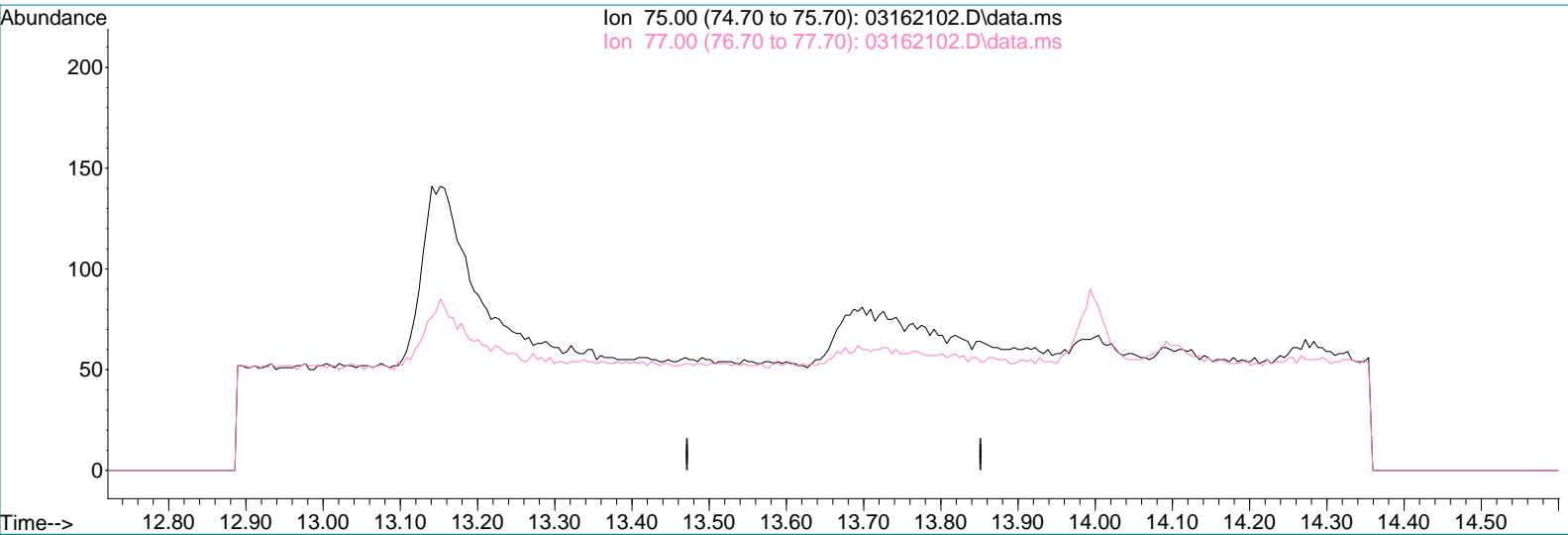
TZ 3/16/21

Ion	Exp%	Act%
56.00	100	100
55.00	68.40	61.27
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\MS19\DATA\2021 03\16\03162102.D
 Acq On : 16 Mar 2021 8:17
 Sample : 20pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03152102 (4/9)

Vial: 14
 Operator: TZ
 Inst : MS19

Quant Time: Mar 16 11:14:24 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 11:10:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M



TIC: 03162102.D\data.ms

(31) trans-1,3-Dichloropropene (T)

13.621min (-13.621) 0.00pg

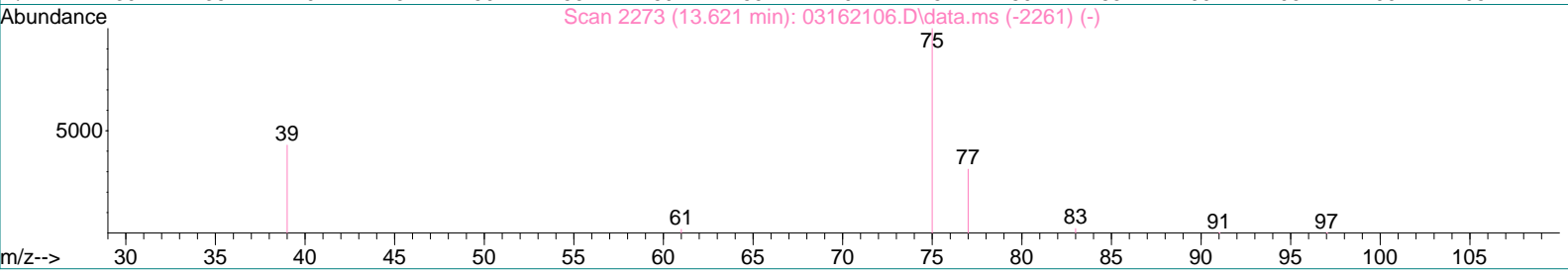
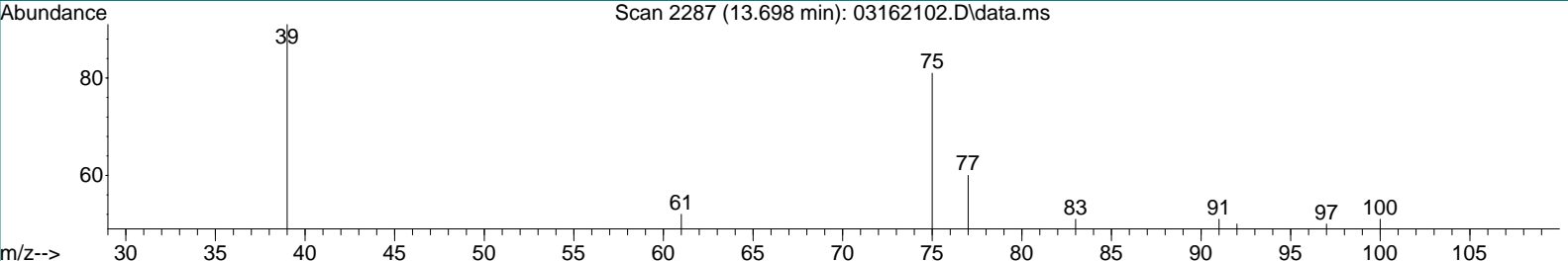
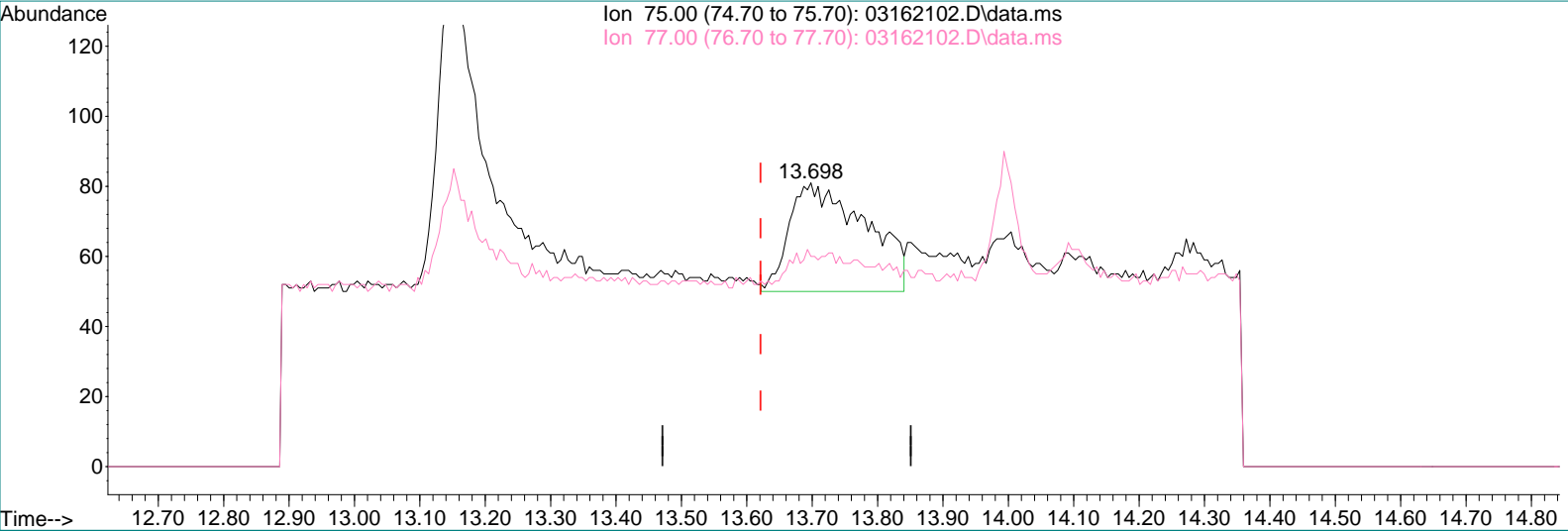
response 0

Ion	Exp%	Act%
75.00	100	0.00
77.00	31.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\MS19\DATA\2021 03\16\03162102.D
 Acq On : 16 Mar 2021 8:17
 Sample : 20pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03152102 (4/9)

Vial: 14
 Operator: TZ
 Inst : MS19

Quant Time: Mar 16 11:14:24 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 11:10:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M



TIC: 03162102.D\data.ms

(31) trans-1,3-Dichloropropene (T)

13.698min (+0.077) 11.54pg m

response 252

MP

Ion	Exp%	Act%
75.00	100	100
77.00	31.30	21.43#
0.00	0.00	0.00
0.00	0.00	0.00

TZ 3/16/21

Data File : I:\MS19\DATA\2021 03\16\03162103.D
 Acq On : 16 Mar 2021 8:56
 Sample : 50pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03152102 (4/9)

Vial: 14
 Operator: TZ
 Inst : MS19

TZ 3/17/21

Quant Time: Mar 16 11:10:39 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 11:10:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	9.61	130	16854	1000.000	pg	0.00
25) 1,4-Difluorobenzene (IS2)	11.56	114	77618	1000.000	pg	0.00
38) Chlorobenzene-d5 (IS3)	15.90	54	12675	1000.000	pg	0.00

System Monitoring Compounds

20) 1,2-Dichloroethane-d4 ...	10.39	65	26267	1006.882	pg	0.00
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	100.69%	
33) Toluene-d8 (SS2)	14.00	98	84165	995.185	pg	0.00
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	99.52%	
45) Bromofluorobenzene (SS3)	17.42	174	25023	1009.729	pg	0.00
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	100.97%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethan...	4.33	85	2392	58.199	pg	100
3) Chloromethane	4.56	52	496	65.693	pg	97
4) 1,2-Dichloro,1,1,2,2-t...	4.71	85	3050	57.515	pg	100
5) Vinyl Chloride	4.85	62	2781	58.342	pg	97
6) 1,3-Butadiene	5.04	54	933	35.634	pg	97
7) Bromomethane	5.36	94	848	58.003	pg	98
8) Chloroethane	5.58	64	601	56.270	pg	100
9) Acrolein	6.17	56	944	106.534	pg	96
10) Acetone	6.30	58	4026	311.426	pg	98
11) Trichlorofluoromethane	6.48	101	1803	55.261	pg	97
12) 1,1-Dichloroethene	7.21	96	1044	53.745	pg	98
13) Methylene Chloride	7.34	84	1128	56.321	pg	98
14) Trichlorotrifluoroethane	7.65	151	868	55.244	pg	100
15) trans-1,2-Dichloroethene	8.38	96	1098	56.369	pg	92
16) 1,1-Dichloroethane	8.57	63	1738	55.238	pg	99
17) Methyl tert-Butyl Ether	8.67	73	2887	56.969	pg	100
18) cis-1,2-Dichloroethene	9.45	96	1135	53.980	pg	98
19) Chloroform	9.74	83	1957	55.636	pg	99
21) 1,2-Dichloroethane	10.50	62	1337	51.039	pg	99
22) 1,1,1-Trichloroethane	10.76	97	1678	55.030	pg	98
23) Benzene	11.22	78	4489	56.879	pg	98
24) Carbon Tetrachloride	11.37	117	1299	49.084	pg	100
26) 1,2-Dichloropropane	12.04	63	959	49.967	pg	99
27) Bromodichloromethane	12.22	83	1449	48.405	pg	96
28) Trichloroethene	12.27	130	1218	49.734	pg	98
29) 1,4-Dioxane	12.26	88	1071	60.344	pg	96
30) cis-1,3-Dichloropropene	13.13	75	1279	42.605	pg	98
31) trans-1,3-Dichloropropene	13.66	75	803	37.151	pg	# 85
32) 1,1,2-Trichloroethane	13.81	83	891	51.914	pg	99
34) Toluene	14.10	91	4791	53.501	pg	100
35) Dibromochloromethane	14.52	129	1048	46.069	pg	100
36) 1,2-Dibromoethane	14.78	107	1093	49.008	pg	100
37) Tetrachloroethene	15.25	166	1239	50.060	pg	98
39) Chlorobenzene	15.95	112	3180	60.399	pg	99
40) Ethylbenzene	16.34	91	4939	57.121	pg	99
41) m,p-Xylene	16.52	91	7657	112.470	pg	98
42) Styrene	16.88	104	2174	42.377	pg	99
43) o-Xylene	16.98	106	1961	59.154	pg	98
44) 1,1,2,2-Tetrachloroethane	16.96	83	1845	58.073	pg	99
46) 1,3,5-Trimethylbenzene	18.25	105	4025	55.880	pg	100
47) 1,2,4-Trimethylbenzene	18.65	105	4143	54.783	pg	100
48) 1,3-Dichlorobenzene	18.80	146	2485	56.456	pg	99
49) 1,4-Dichlorobenzene	18.86	146	2764	62.209	pg	100
50) 1,2-Dichlorobenzene	19.19	146	2690	60.658	pg	100
51) 1,2-Dibromo-3-chloropr...	19.60	157	1633	106.116	pg	98
52) 1,2,4-Trichlorobenzene	20.82	182	3899	135.304	pg	99
53) Naphthalene	20.94	128	6442	72.068	pg	96

Data File : I:\MS19\DATA\2021 03\16\03162103.D
 Acq On : 16 Mar 2021 8:56
 Sample : 50pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03152102 (4/9)

Vial: 14
 Operator: TZ
 Inst : MS19

Quant Time: Mar 16 11:10:39 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 11:10:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

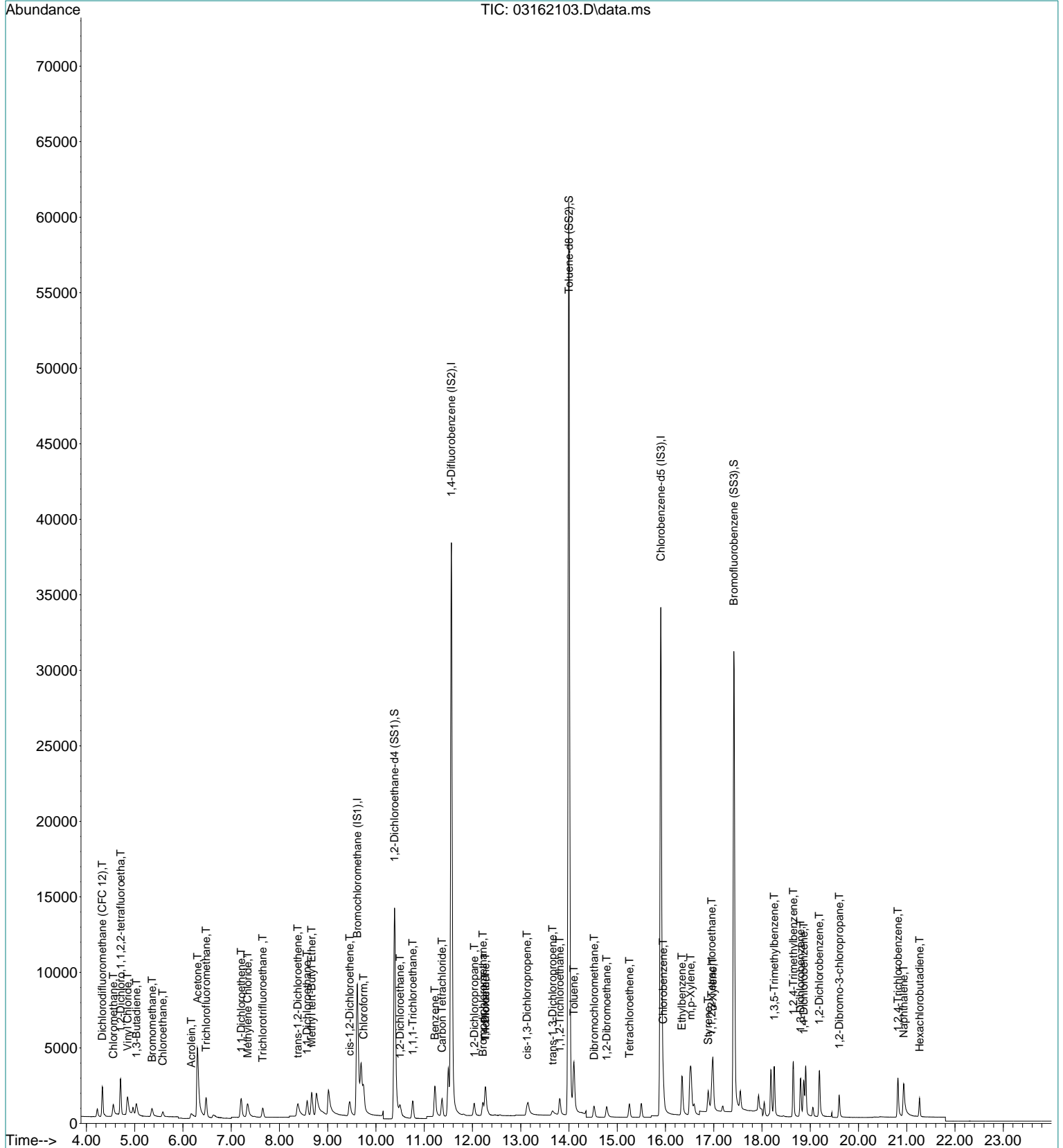
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Hexachlorobutadiene	21.27	225	1170	60.274	pg	99

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

Data File : I:\MS19\DATA\2021 03\16\03162103.D
 Acq On : 16 Mar 2021 8:56
 Sample : 50pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03152102 (4/9)

Vial: 14
 Operator: TZ
 Inst : MS19

Quant Time: Mar 16 11:10:39 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 11:10:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M



Data File : I:\MS19\DATA\2021 03\16\03162104.D
 Acq On : 16 Mar 2021 9:29
 Sample : 100pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03152102 (4/9)

Vial: 14
 Operator: TZ
 Inst : MS19

TZ 3/17/21

Quant Time: Mar 16 11:18:58 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 11:10:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	9.61	130	18448	1000.000	pg	0.00
25) 1,4-Difluorobenzene (IS2)	11.56	114	86417	1000.000	pg	0.00
38) Chlorobenzene-d5 (IS3)	15.90	54	14339	1000.000	pg	0.00

System Monitoring Compounds

20) 1,2-Dichloroethane-d4 ...	10.39	65	29162	1021.266	pg	0.00
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	102.13%	
33) Toluene-d8 (SS2)	14.00	98	94548	1004.125	pg	0.00
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	100.41%	
45) Bromofluorobenzene (SS3)	17.42	174	28615	1020.677	pg	0.00
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	102.07%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethan...	4.33	85	4134	91.893	pg	100
3) Chloromethane	4.56	52	480m	58.080	pg	
4) 1,2-Dichloro,1,1,2,2-t...	4.71	85	5249	90.430	pg	99
5) Vinyl Chloride	4.85	62	4676	89.621	pg	95
6) 1,3-Butadiene	5.04	54	1573	54.887	pg	95
7) Bromomethane	5.35	94	1484	92.734	pg	97
8) Chloroethane	5.58	64	1042	89.130	pg	100
9) Acrolein	6.16	56	1587	163.624	pg	99
10) Acetone	6.29	58	6482	458.082	pg	98
11) Trichlorofluoromethane	6.48	101	3126	87.531	pg	100
12) 1,1-Dichloroethene	7.20	96	1919	90.254	pg	97
13) Methylene Chloride	7.34	84	1967	89.726	pg	98
14) Trichlorotrifluoroethane	7.66	151	1490	86.638	pg	99
15) trans-1,2-Dichloroethene	8.38	96	1873	87.847	pg	99
16) 1,1-Dichloroethane	8.57	63	3012	87.457	pg	98
17) Methyl tert-Butyl Ether	8.66	73	4054	73.085	pg	100
18) cis-1,2-Dichloroethene	9.45	96	1986	86.292	pg	99
19) Chloroform	9.74	83	3436	89.243	pg	99
21) 1,2-Dichloroethane	10.50	62	2476	86.353	pg	97
22) 1,1,1-Trichloroethane	10.76	97	2596	77.780	pg	99
23) Benzene	11.22	78	7529	87.156	pg	100
24) Carbon Tetrachloride	11.37	117	2167	74.807	pg	100
26) 1,2-Dichloropropane	12.04	63	1720	80.492	pg	98
27) Bromodichloromethane	12.22	83	2508	75.250	pg	98
28) Trichloroethene	12.26	130	2109	77.348	pg	98
29) 1,4-Dioxane	12.26	88	1936	97.975	pg	95
30) cis-1,3-Dichloropropene	13.12	75	2348	70.251	pg	100
31) trans-1,3-Dichloropropene	13.65	75	1625	67.526	pg	98
32) 1,1,2-Trichloroethane	13.81	83	1596	83.523	pg	99
34) Toluene	14.10	91	8352	83.770	pg	100
35) Dibromochloromethane	14.52	129	1843	72.768	pg	97
36) 1,2-Dibromoethane	14.78	107	1991	80.183	pg	99
37) Tetrachloroethene	15.25	166	2186	79.329	pg	99
39) Chlorobenzene	15.95	112	5550	93.181	pg	100
40) Ethylbenzene	16.34	91	8829	90.261	pg	100
41) m,p-Xylene	16.52	91	13644	177.153	pg	98
42) Styrene	16.88	104	4210	72.541	pg	99
43) o-Xylene	16.98	106	3453	92.074	pg	99
44) 1,1,2,2-Tetrachloroethane	16.96	83	3338	92.874	pg	99
46) 1,3,5-Trimethylbenzene	18.25	105	7290	89.464	pg	100
47) 1,2,4-Trimethylbenzene	18.65	105	7552	88.272	pg	99
48) 1,3-Dichlorobenzene	18.80	146	4456	89.486	pg	99
49) 1,4-Dichlorobenzene	18.86	146	4849	96.470	pg	99
50) 1,2-Dichlorobenzene	19.19	146	4697	93.624	pg	100
51) 1,2-Dibromo-3-chloropr...	19.60	157	3030	174.047	pg	98
52) 1,2,4-Trichlorobenzene	20.81	182	6571	201.566	pg	98
53) Naphthalene	20.93	128	10377	102.617	pg	98

Data File : I:\MS19\DATA\2021 03\16\03162104.D
 Acq On : 16 Mar 2021 9:29
 Sample : 100pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03152102 (4/9)

Vial: 14
 Operator: TZ
 Inst : MS19

Quant Time: Mar 16 11:18:58 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 11:10:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

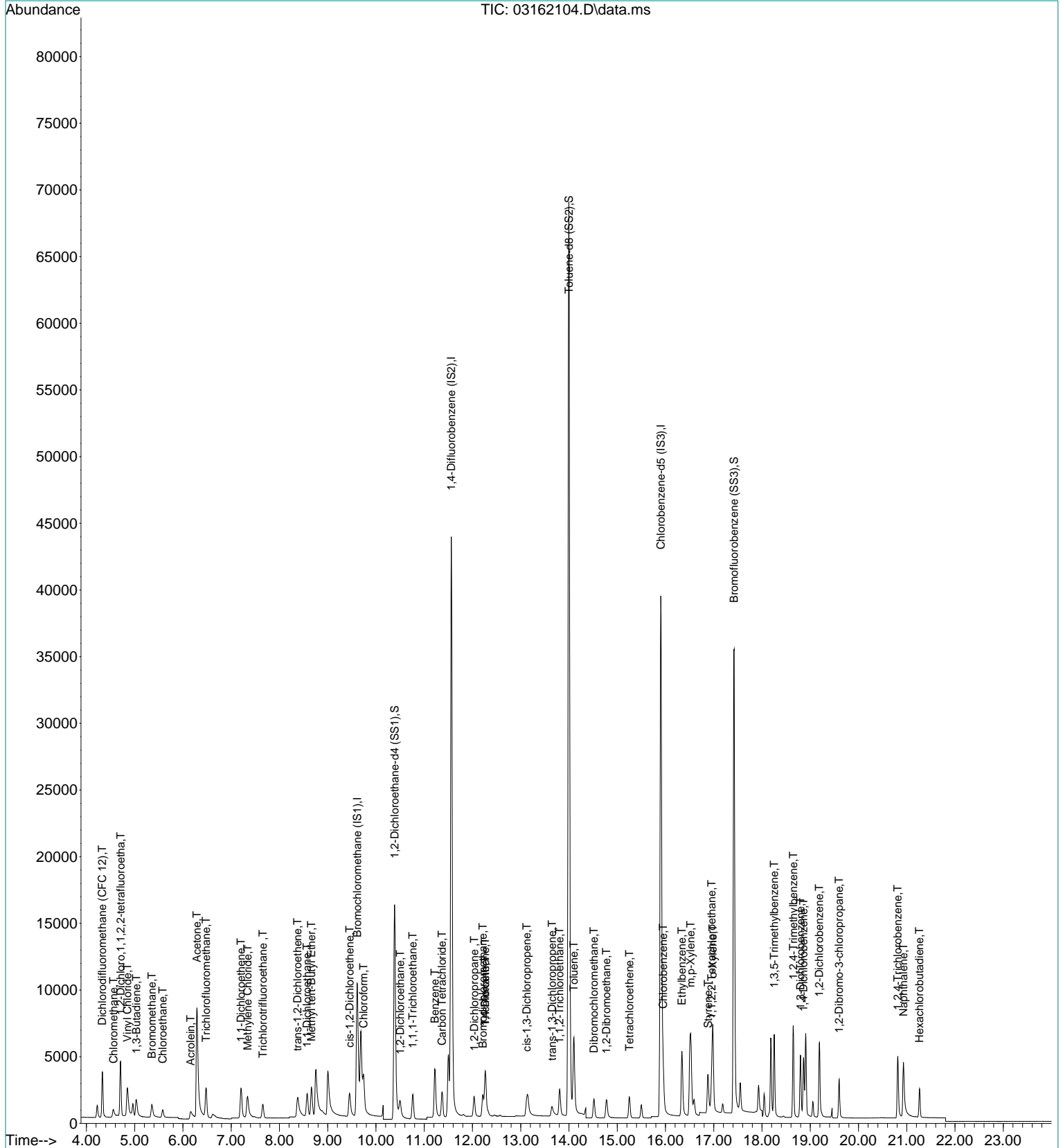
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Hexachlorobutadiene	21.26	225	2073	94.401	pg	99

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

Data File : I:\MS19\DATA\2021 03\16\03162104.D
 Acq On : 16 Mar 2021 9:29
 Sample : 100pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03152102 (4/9)

Vial: 14
 Operator: TZ
 Inst : MS19

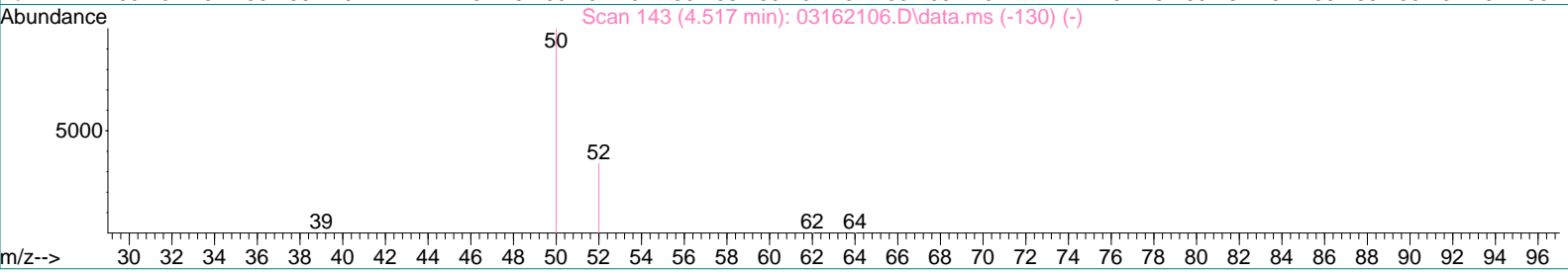
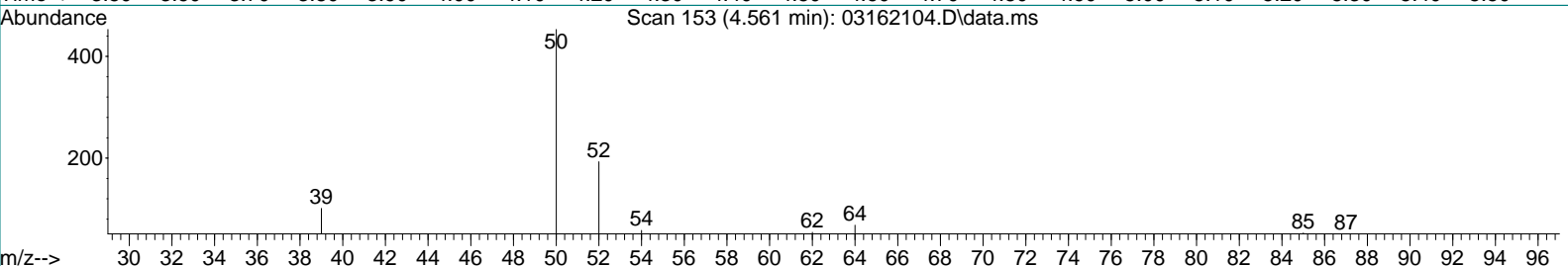
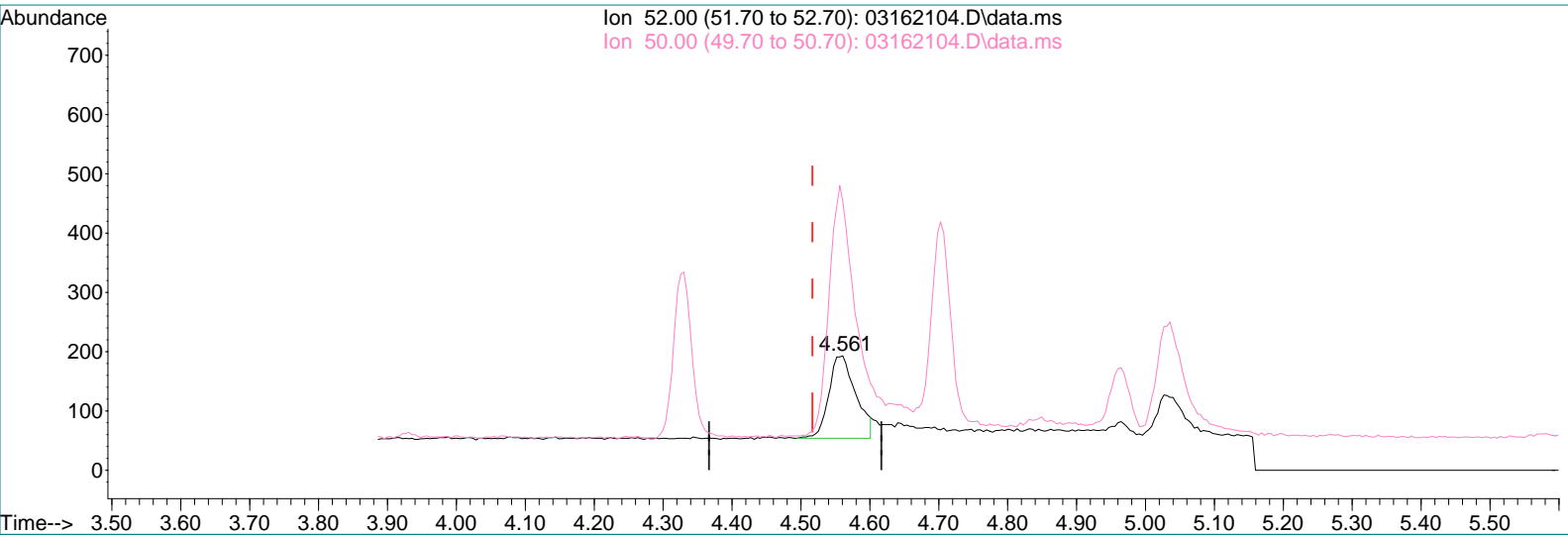
Quant Time: Mar 16 11:18:58 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 11:10:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M



Data File : I:\MS19\DATA\2021 03\16\03162104.D
 Acq On : 16 Mar 2021 9:29
 Sample : 100pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03152102 (4/9)

Vial: 14
 Operator: TZ
 Inst : MS19

Quant Time: Mar 16 11:10:40 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 11:10:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M



TIC: 03162104.D\data.ms

(3) Chloromethane (T)

4.561min (+0.044) 45.74pg

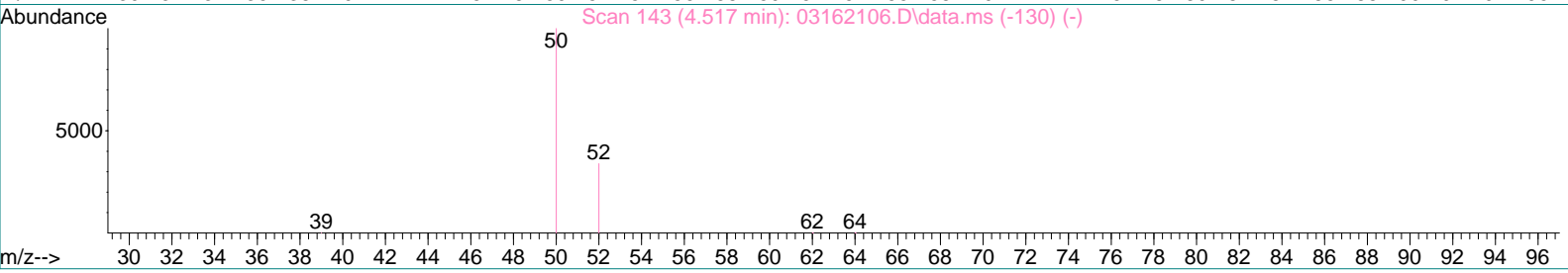
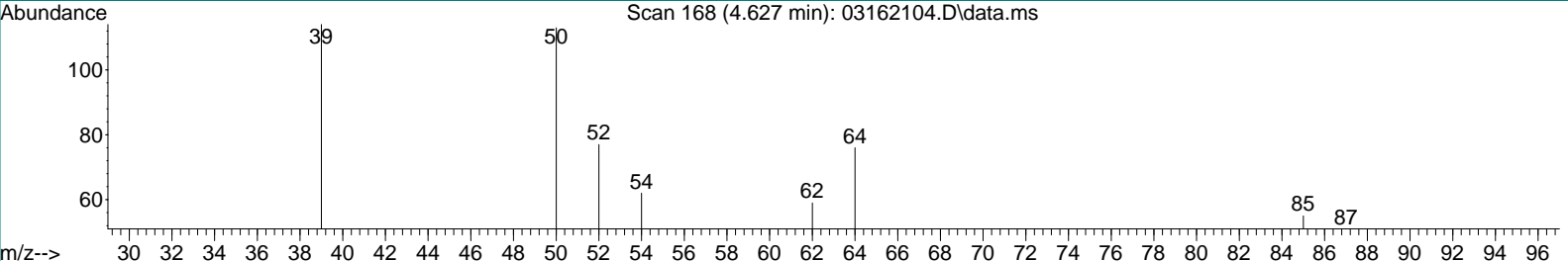
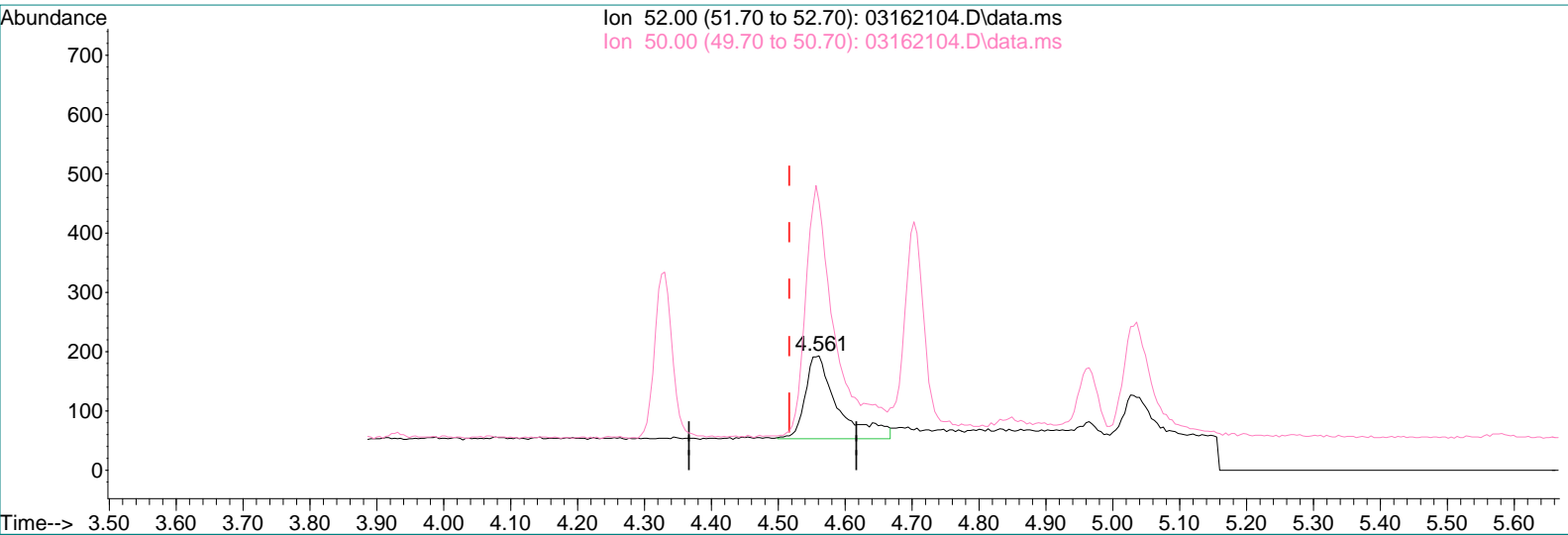
response 378

Ion	Exp%	Act%
52.00	100	100
50.00	298.50	286.24
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\MS19\DATA\2021 03\16\03162104.D
 Acq On : 16 Mar 2021 9:29
 Sample : 100pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03152102 (4/9)

Vial: 14
 Operator: TZ
 Inst : MS19

Quant Time: Mar 16 11:12:39 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 11:10:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M



TIC: 03162104.D\data.ms

(3) Chloromethane (T)

4.561min (+0.044) 58.08pg m

response 480

BLC

Ion	Exp%	Act%
52.00	100	100
50.00	298.50	225.42#
0.00	0.00	0.00
0.00	0.00	0.00

TZ 3/16/21

Data File : I:\MS19\DATA\2021 03\16\03162105.D
 Acq On : 16 Mar 2021 10:01
 Sample : 500pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03102102 (4/9)

Vial: 15
 Operator: TZ
 Inst : MS19

TZ 3/17/21

Quant Time: Mar 16 11:10:41 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 11:10:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	9.60	130	17242	1000.000	pg	0.00
25) 1,4-Difluorobenzene (IS2)	11.56	114	79829	1000.000	pg	0.00
38) Chlorobenzene-d5 (IS3)	15.90	54	13369	1000.000	pg	0.00

System Monitoring Compounds

20) 1,2-Dichloroethane-d4 ...	10.39	65	26751	1002.359	pg	0.00
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	100.24%	
33) Toluene-d8 (SS2)	14.00	98	87061	1000.916	pg	0.00
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	100.09%	
45) Bromofluorobenzene (SS3)	17.42	174	27120	1037.539	pg	0.00
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	103.75%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethan...	4.31	85	22027	523.875	pg	100
3) Chloromethane	4.53	52	4467	578.318	pg	99
4) 1,2-Dichloro,1,1,2,2-t...	4.69	85	28404	523.573	pg	100
5) Vinyl Chloride	4.82	62	25753	528.110	pg	99
6) 1,3-Butadiene	5.00	54	9563	357.021	pg	99
7) Bromomethane	5.33	94	8009	535.483	pg	98
8) Chloroethane	5.56	64	5776	528.624	pg	100
9) Acrolein	6.12	56	8879	979.479	pg	99
10) Acetone	6.26	58	28650	2166.310	pg	100
11) Trichlorofluoromethane	6.46	101	17184	514.825	pg	100
12) 1,1-Dichloroethene	7.19	96	10345	520.576	pg	100
13) Methylene Chloride	7.32	84	10713	522.864	pg	100
14) Trichlorotrifluoroethane	7.65	151	8196	509.898	pg	100
15) trans-1,2-Dichloroethene	8.36	96	10748	539.361	pg	99
16) 1,1-Dichloroethane	8.56	63	17435	541.657	pg	100
17) Methyl tert-Butyl Ether	8.64	73	28624	552.126	pg	100
18) cis-1,2-Dichloroethene	9.45	96	11354	527.838	pg	100
19) Chloroform	9.74	83	18960	526.889	pg	100
21) 1,2-Dichloroethane	10.49	62	13703	511.335	pg	100
22) 1,1,1-Trichloroethane	10.76	97	16021	513.587	pg	100
23) Benzene	11.22	78	41143	509.583	pg	100
24) Carbon Tetrachloride	11.37	117	12979	479.386	pg	100
26) 1,2-Dichloropropane	12.03	63	9677	490.234	pg	99
27) Bromodichloromethane	12.21	83	14328	465.377	pg	100
28) Trichloroethene	12.26	130	11888	471.974	pg	99
29) 1,4-Dioxane	12.24	88	8519	466.700	pg	99
30) cis-1,3-Dichloropropene	13.11	75	14006	453.633	pg	100
31) trans-1,3-Dichloropropene	13.63	75	10449	470.034	pg	100
32) 1,1,2-Trichloroethane	13.80	83	8755	495.984	pg	99
34) Toluene	14.10	91	44199	479.899	pg	100
35) Dibromochloromethane	14.51	129	10695	457.121	pg	100
36) 1,2-Dibromoethane	14.77	107	11185	487.626	pg	98
37) Tetrachloroethene	15.25	166	11845	465.321	pg	100
39) Chlorobenzene	15.95	112	29553	532.174	pg	100
40) Ethylbenzene	16.34	91	48863	535.780	pg	100
41) m,p-Xylene	16.51	91	73451	1022.878	pg	100
42) Styrene	16.87	104	25988	480.277	pg	99
43) o-Xylene	16.98	106	18708	535.039	pg	99
44) 1,1,2,2-Tetrachloroethane	16.95	83	17930	535.067	pg	100
46) 1,3,5-Trimethylbenzene	18.25	105	39335	517.748	pg	100
47) 1,2,4-Trimethylbenzene	18.65	105	39090	490.057	pg	100
48) 1,3-Dichlorobenzene	18.79	146	22513	484.914	pg	99
49) 1,4-Dichlorobenzene	18.86	146	23042	491.679	pg	100
50) 1,2-Dichlorobenzene	19.18	146	22210	474.828	pg	100
51) 1,2-Dibromo-3-chloropr...	19.60	157	13788	849.466	pg	100
52) 1,2,4-Trichlorobenzene	20.81	182	26385	868.086	pg	99
53) Naphthalene	20.92	128	40431	428.827	pg	99

Data File : I:\MS19\DATA\2021 03\16\03162105.D
 Acq On : 16 Mar 2021 10:01
 Sample : 500pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03102102 (4/9)

Vial: 15
 Operator: TZ
 Inst : MS19

Quant Time: Mar 16 11:10:41 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 11:10:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

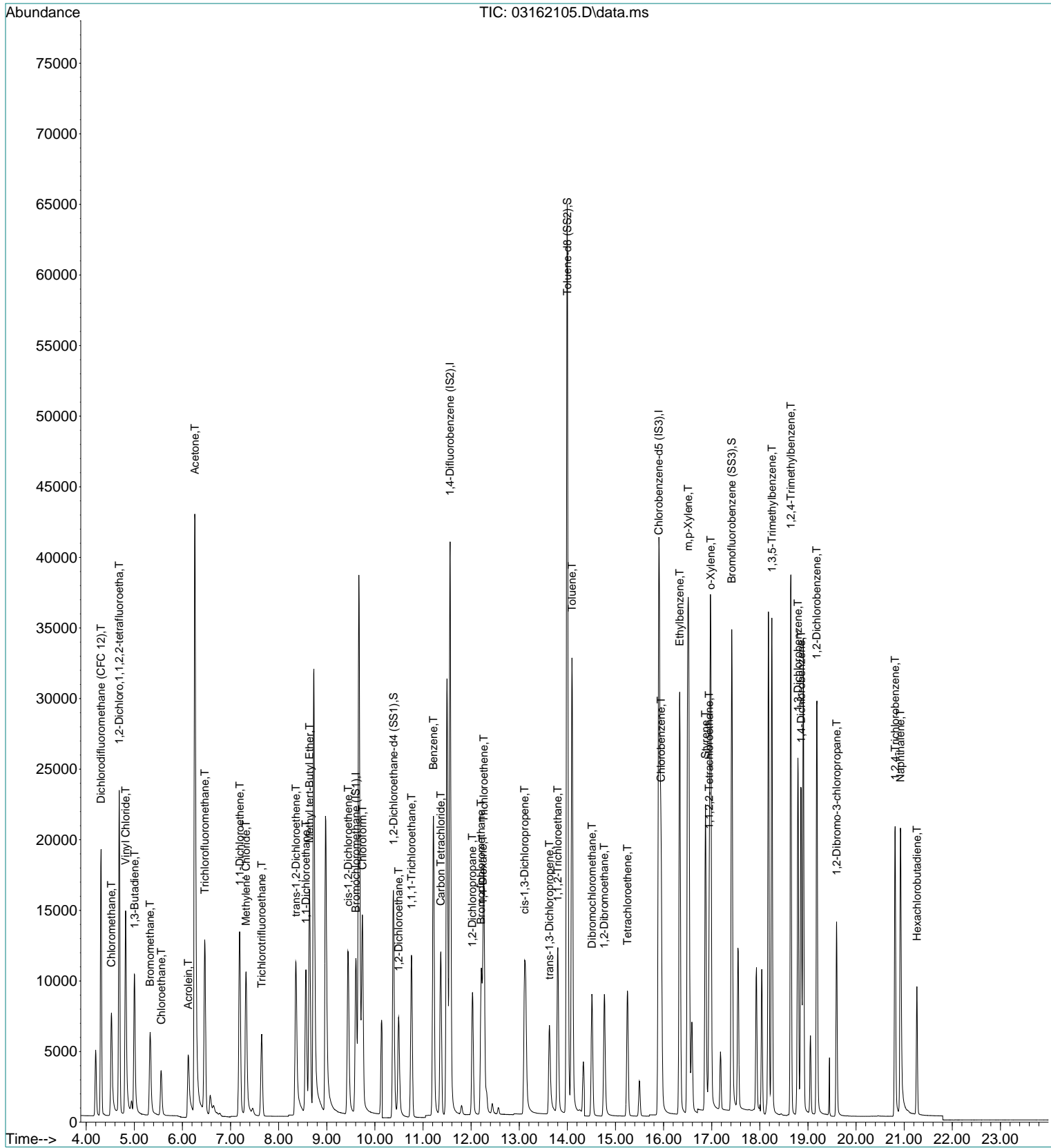
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Hexachlorobutadiene	21.27	225	8615	420.776	pg	99

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

Data File : I:\MS19\DATA\2021 03\16\03162105.D
 Acq On : 16 Mar 2021 10:01
 Sample : 500pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03102102 (4/9)

Vial: 15
 Operator: TZ
 Inst : MS19

Quant Time: Mar 16 11:10:41 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 11:10:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M



Data File : I:\MS19\DATA\2021 03\16\03162106.D
 Acq On : 16 Mar 2021 10:32
 Sample : 1000pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03102102 (4/9)

Vial: 15
 Operator: TZ
 Inst : MS19

TZ 3/17/21

Quant Time: Mar 16 11:10:43 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 11:10:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	9.61	130	17693	1000.000	pg	0.00
25) 1,4-Difluorobenzene (IS2)	11.56	114	82360	1000.000	pg	0.00
38) Chlorobenzene-d5 (IS3)	15.90	54	13971	1000.000	pg	0.00

System Monitoring Compounds

20) 1,2-Dichloroethane-d4 ...	10.39	65	27598	1007.737	pg	0.00
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	100.77%	
33) Toluene-d8 (SS2)	14.00	98	89567	998.083	pg	0.00
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	99.81%	
45) Bromofluorobenzene (SS3)	17.41	174	28477	1042.510	pg	0.00
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	104.25%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethan...	4.30	85	42732	990.402	pg	100
3) Chloromethane	4.52	52	6428	810.985	pg	100
4) 1,2-Dichloro,1,1,2,2-t...	4.68	85	56210	1009.712	pg	100
5) Vinyl Chloride	4.81	62	50313	1005.456	pg	100
6) 1,3-Butadiene	5.00	54	20004	727.783	pg	100
7) Bromomethane	5.32	94	16019	1043.731	pg	100
8) Chloroethane	5.55	64	11418	1018.347	pg	100
9) Acrolein	6.11	56	18283	1965.462	pg	99
10) Acetone	6.25	58	56857	4189.537	pg	100
11) Trichlorofluoromethane	6.46	101	33815	987.259	pg	100
12) 1,1-Dichloroethene	7.18	96	20411	1000.931	pg	100
13) Methylene Chloride	7.32	84	21041	1000.760	pg	100
14) Trichlorotrifluoroethane	7.64	151	16590	1005.806	pg	100
15) trans-1,2-Dichloroethene	8.36	96	21051	1029.463	pg	100
16) 1,1-Dichloroethane	8.56	63	34265	1037.383	pg	100
17) Methyl tert-Butyl Ether	8.64	73	55646	1045.991	pg	100
18) cis-1,2-Dichloroethene	9.45	96	22392	1014.450	pg	100
19) Chloroform	9.74	83	37218	1007.906	pg	100
21) 1,2-Dichloroethane	10.49	62	27145	987.110	pg	100
22) 1,1,1-Trichloroethane	10.76	97	31290	977.499	pg	100
23) Benzene	11.22	78	81570	984.546	pg	100
24) Carbon Tetrachloride	11.37	117	25659	923.571	pg	100
26) 1,2-Dichloropropane	12.03	63	19290	947.194	pg	100
27) Bromodichloromethane	12.21	83	28468	896.233	pg	100
28) Trichloroethene	12.26	130	23590	907.783	pg	100
29) 1,4-Dioxane	12.24	88	17055	905.619	pg	100
30) cis-1,3-Dichloropropene	13.11	75	29071	912.631	pg	100
31) trans-1,3-Dichloropropene	13.62	75	22938	1000.125	pg	100
32) 1,1,2-Trichloroethane	13.80	83	17442	957.749	pg	100
34) Toluene	14.10	91	87523	921.094	pg	100
35) Dibromochloromethane	14.51	129	21630	896.090	pg	100
36) 1,2-Dibromoethane	14.77	107	22621	955.888	pg	100
37) Tetrachloroethene	15.25	166	23171	882.281	pg	100
39) Chlorobenzene	15.95	112	58525	1008.475	pg	100
40) Ethylbenzene	16.33	91	98295	1031.357	pg	100
41) m,p-Xylene	16.51	91	148728	1981.940	pg	100
42) Styrene	16.87	104	54941	971.598	pg	100
43) o-Xylene	16.98	106	37670	1030.921	pg	100
44) 1,1,2,2-Tetrachloroethane	16.95	83	36130	1031.733	pg	100
46) 1,3,5-Trimethylbenzene	18.25	105	79720	1004.103	pg	100
47) 1,2,4-Trimethylbenzene	18.64	105	80419	964.742	pg	100
48) 1,3-Dichlorobenzene	18.79	146	46141	951.020	pg	100
49) 1,4-Dichlorobenzene	18.85	146	46523	949.950	pg	100
50) 1,2-Dichlorobenzene	19.18	146	44865	917.840	pg	100
51) 1,2-Dibromo-3-chloropr...	19.60	157	29027	1711.269	pg	100
52) 1,2,4-Trichlorobenzene	20.81	182	54595	1718.817	pg	100
53) Naphthalene	20.92	128	87018	883.178	pg	100

Data File : I:\MS19\DATA\2021 03\16\03162106.D
 Acq On : 16 Mar 2021 10:32
 Sample : 1000pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03102102 (4/9)

Vial: 15
 Operator: TZ
 Inst : MS19

Quant Time: Mar 16 11:10:43 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 11:10:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

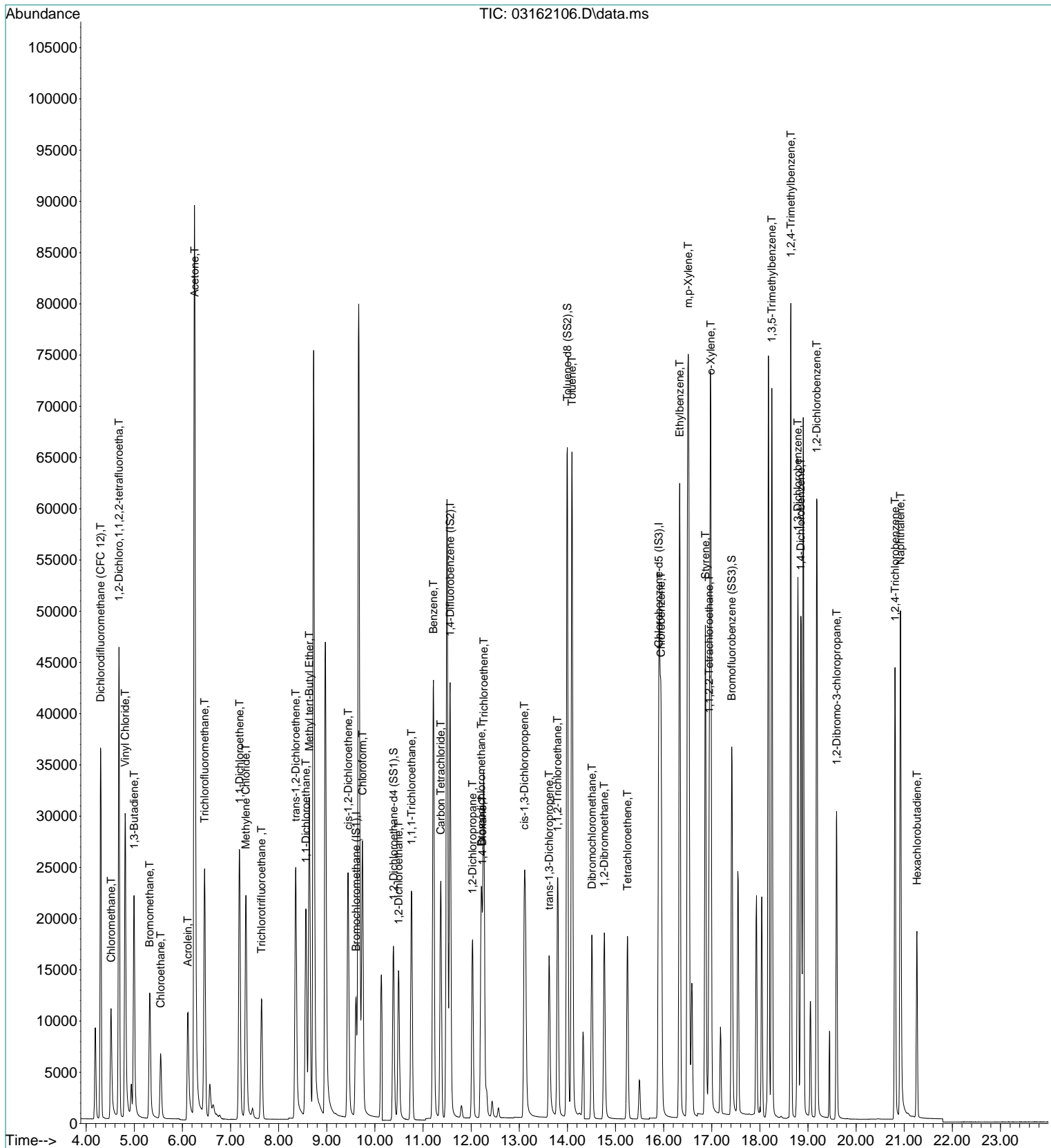
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
54) Hexachlorobutadiene	21.26	225	17132	800.709	pg	100

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

Data File : I:\MS19\DATA\2021 03\16\03162106.D
 Acq On : 16 Mar 2021 10:32
 Sample : 1000pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03102102 (4/9)

Vial: 15
 Operator: TZ
 Inst : MS19

Quant Time: Mar 16 11:10:43 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 11:10:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M



Data File : I:\MS19\DATA\2021 03\16\03162115.D
 Acq On : 16 Mar 2021 15:16
 Sample : 1000pg S19031621 ICV Std.
 Misc : S34-01272101/S34-03112101 (4/7)

Vial: 1
 Operator: TZ
 Inst : MS19

TZ 3/17/21

Quant Time: Mar 17 07:13:53 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 14:07:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	9.61	130	17908	1000.000	pg	-0.03
25) 1,4-Difluorobenzene (IS2)	11.56	114	84852	1000.000	pg	-0.02
38) Chlorobenzene-d5 (IS3)	15.90	54	14572	1000.000	pg	0.00

System Monitoring Compounds

20) 1,2-Dichloroethane-d4 ...	10.39	65	28770	1062.418	pg	-0.02
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	106.24%	
33) Toluene-d8 (SS2)	14.00	98	93071	1004.253	pg	0.00
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	100.43%	
45) Bromofluorobenzene (SS3)	17.42	174	29446	1011.340	pg	0.00
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	101.13%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethan...	4.31	85	46080	1112.142	pg	100
3) Chloromethane	4.52	52	7255	955.311	pg	100
4) 1,2-Dichloro,1,1,2,2-t...	4.69	85	59334	1108.882	pg	100
5) Vinyl Chloride	4.82	62	53538	1135.038	pg	100
6) 1,3-Butadiene	5.00	54	29572	1557.011	pg	98
7) Bromomethane	5.33	94	16960	1112.892	pg	100
8) Chloroethane	5.55	64	12244	1135.483	pg	100
9) Acrolein	6.12	56	19845	2273.813	pg	99
10) Acetone	6.26	58	62237	5324.323	pg	97
11) Trichlorofluoromethane	6.46	101	36273	1095.384	pg	100
12) 1,1-Dichloroethene	7.19	96	22001	1109.630	pg	99
13) Methylene Chloride	7.32	84	22798	1109.411	pg	98
14) Trichlorotrifluoroethane	7.65	151	17103	1081.286	pg	100
15) trans-1,2-Dichloroethene	8.36	96	22973	1163.505	pg	100
16) 1,1-Dichloroethane	8.57	63	36559	1167.229	pg	100
17) Methyl tert-Butyl Ether	8.64	73	64927	1246.749	pg	100
18) cis-1,2-Dichloroethene	9.44	96	24242	1126.277	pg	99
19) Chloroform	9.74	83	40122	1116.148	pg	100
21) 1,2-Dichloroethane	10.49	62	29614	1140.721	pg	100
22) 1,1,1-Trichloroethane	10.76	97	34354	1145.405	pg	100
23) Benzene	11.22	78	87233	1068.299	pg	100
24) Carbon Tetrachloride	11.37	117	29086	1141.561	pg	100
26) 1,2-Dichloropropane	12.03	63	20836	1086.656	pg	99
27) Bromodichloromethane	12.21	83	31134	1034.746	pg	99
28) Trichloroethene	12.27	130	24503	990.121	pg	99
29) 1,4-Dioxane	12.23	88	17890	917.860	pg	99
30) cis-1,3-Dichloropropene	13.11	75	32424	1107.563	pg	100
31) trans-1,3-Dichloropropene	13.62	75	26206	1077.736	pg	100
32) 1,1,2-Trichloroethane	13.80	83	18694	1051.015	pg	99
34) Toluene	14.10	91	94607	1013.549	pg	100
35) Dibromochloromethane	14.51	129	24133	1074.047	pg	99
36) 1,2-Dibromoethane	14.77	107	24424	1071.555	pg	100
37) Tetrachloroethene	15.25	166	24371	996.826	pg	100
39) Chlorobenzene	15.95	112	62447	1002.814	pg	100
40) Ethylbenzene	16.34	91	105995	1053.052	pg	100
41) m,p-Xylene	16.51	91	159928	2076.232	pg	100
42) Styrene	16.87	104	59824	1097.071	pg	99
43) o-Xylene	16.98	106	40302	1045.192	pg	100
44) 1,1,2,2-Tetrachloroethane	16.95	83	38046	1033.392	pg	100
46) 1,3,5-Trimethylbenzene	18.25	105	85319	1042.111	pg	100
47) 1,2,4-Trimethylbenzene	18.65	105	85934	995.182	pg	99
48) 1,3-Dichlorobenzene	18.79	146	47230	976.697	pg	99
49) 1,4-Dichlorobenzene	18.85	146	47440	921.547	pg	100
50) 1,2-Dichlorobenzene	19.18	146	47157	950.108	pg	100
51) 1,2-Dibromo-3-chloropr...	19.60	157	30086	1820.900	pg	97
52) 1,2,4-Trichlorobenzene	20.81	182	53261	1528.648	pg	100
53) Naphthalene	20.92	128	84173	783.004	pg	100

Data File : I:\MS19\DATA\2021 03\16\03162115.D
 Acq On : 16 Mar 2021 15:16
 Sample : 1000pg S19031621 ICV Std.
 Misc : S34-01272101/S34-03112101 (4/7)

Vial: 1
 Operator: TZ
 Inst : MS19

Quant Time: Mar 17 07:13:53 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 14:07:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

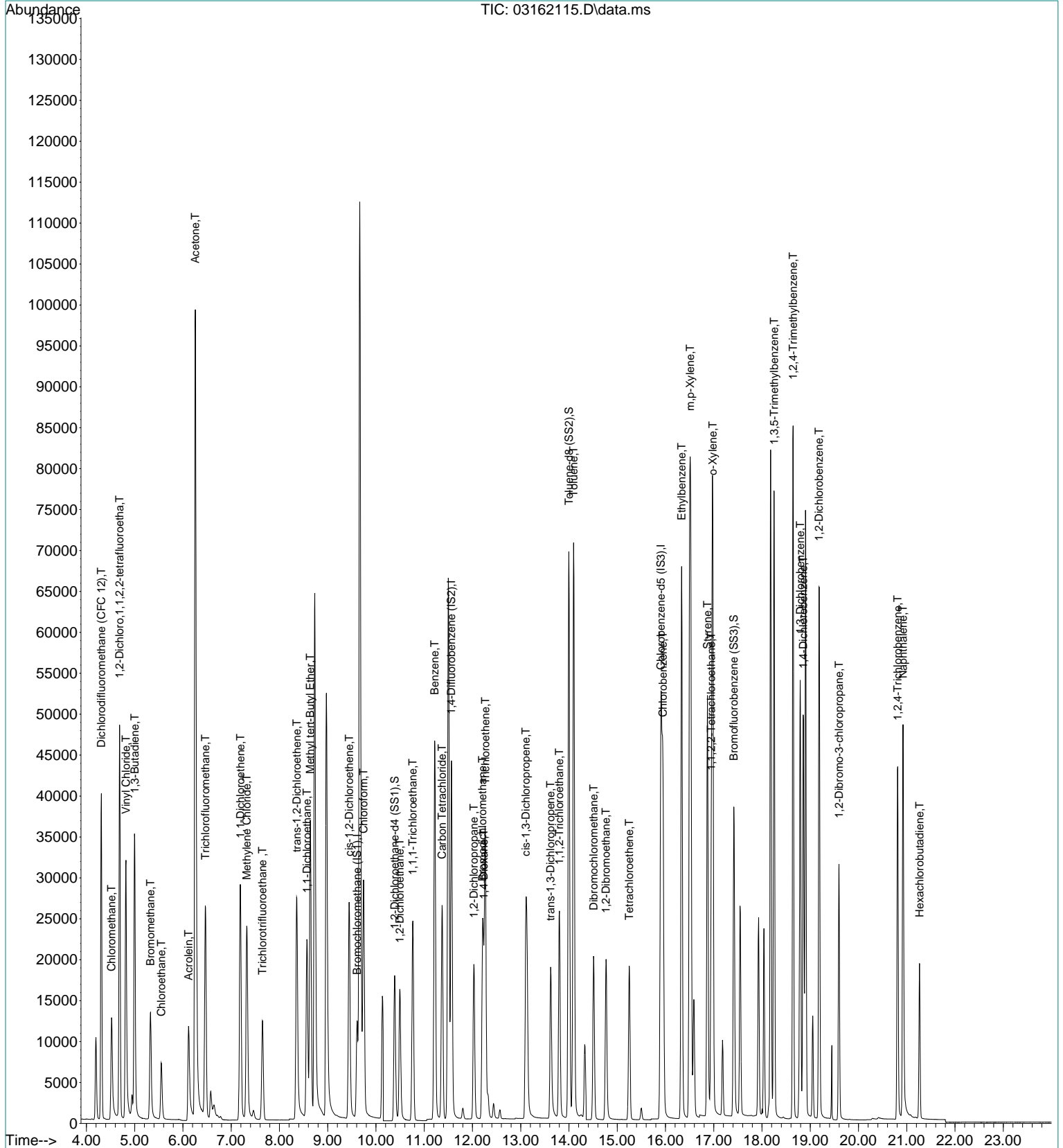
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Hexachlorobutadiene	21.27	225	17976	874.226	pg	100

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

Data File : I:\MS19\DATA\2021 03\16\03162115.D
Acq On : 16 Mar 2021 15:16
Sample : 1000pg S19031621 ICV Std.
Misc : S34-01272101/S34-03112101 (4/7)

Vial: 1
Operator: TZ
Inst : MS19

Quant Time: Mar 17 07:13:53 2021
Quant Method : I:\MS19\METHODS\S19031621.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Mar 16 14:07:28 2021
Response via : Initial Calibration
DataAcq Meth:TO15SIM.M



Data File : I:\MS19\DATA\2021 03\16\03162111.D
 Acq On : 16 Mar 2021 13:10
 Sample : 5000pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03152101 (4/14)

Vial: 16
 Operator: TZ
 Inst : MS19

TZ 3/17/21

Quant Time: Mar 16 13:35:34 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 12:31:53 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	9.62	130	20516	1000.000	pg	-0.01
25) 1,4-Difluorobenzene (IS2)	11.57	114	95453	1000.000	pg	0.00
38) Chlorobenzene-d5 (IS3)	15.90	54	16827	1000.000	pg	0.00

System Monitoring Compounds

20) 1,2-Dichloroethane-d4 ...	10.39	65	32284	1025.539	pg	-0.01
Spiked Amount	1000.000	Range	70 - 130	Recovery	=	102.55%
33) Toluene-d8 (SS2)	14.00	98	103921	997.924	pg	0.00
Spiked Amount	1000.000	Range	70 - 130	Recovery	=	99.79%
45) Bromofluorobenzene (SS3)	17.42	174	34165	1028.848	pg	0.00
Spiked Amount	1000.000	Range	70 - 130	Recovery	=	102.88%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethan...	4.29	85	273625	5829.206	pg	100
3) Chloromethane	4.50	52	45036	5638.262	pg	100
4) 1,2-Dichloro,1,1,2,2-t...	4.67	85	358471	5935.043	pg	100
5) Vinyl Chloride	4.80	62	330293	6191.467	pg	100
6) 1,3-Butadiene	4.98	54	150514	6609.973	pg	99
7) Bromomethane	5.31	94	104949	6093.726	pg	100
8) Chloroethane	5.54	64	75210	6177.623	pg	100
9) Acrolein	6.11	56	131857	13639.183	pg	99
10) Acetone	6.26	58	393248	26932.098	pg	100
11) Trichlorofluoromethane	6.45	101	224238	6010.649	pg	100
12) 1,1-Dichloroethene	7.18	96	138515	6219.791	pg	100
13) Methylene Chloride	7.33	84	142719	6170.395	pg	98
14) Trichlorotrifluoroethane	7.65	151	110291	6298.720	pg	100
15) trans-1,2-Dichloroethene	8.36	96	143677	6523.250	pg	99
16) 1,1-Dichloroethane	8.57	63	229635	6527.643	pg	100
17) Methyl tert-Butyl Ether	8.63	73	272445	4779.234	pg	100
18) cis-1,2-Dichloroethene	9.45	96	153616	6396.196	pg	100
19) Chloroform	9.75	83	253095	6283.610	pg	99
21) 1,2-Dichloroethane	10.50	62	184968	6381.712	pg	98
22) 1,1,1-Trichloroethane	10.77	97	214578	6431.781	pg	100
23) Benzene	11.22	78	556853	6096.630	pg	100
24) Carbon Tetrachloride	11.37	117	181896	6457.838	pg	100
26) 1,2-Dichloropropane	12.03	63	131782	6392.249	pg	100
27) Bromodichloromethane	12.21	83	203891	6435.495	pg	99
28) Trichloroethene	12.27	130	161511	6116.107	pg	100
29) 1,4-Dioxane	12.23	88	123424	5949.627	pg	99
30) cis-1,3-Dichloropropene	13.11	75	225853	7150.884	pg	100
31) trans-1,3-Dichloropropene	13.62	75	192847	7830.383	pg	99
32) 1,1,2-Trichloroethane	13.80	83	119416	6257.555	pg	100
34) Toluene	14.10	91	609190	6099.467	pg	100
35) Dibromochloromethane	14.51	129	157438	6639.086	pg	99
36) 1,2-Dibromoethane	14.77	107	158825	6539.709	pg	99
37) Tetrachloroethene	15.25	166	157316	6020.187	pg	100
39) Chlorobenzene	15.95	112	408698	5919.939	pg	100
40) Ethylbenzene	16.33	91	702070	6277.677	pg	100
41) m,p-Xylene	16.51	91	1105121	12784.137	pg	99
42) Styrene	16.87	104	427856	7354.322	pg	100
43) o-Xylene	16.98	106	270830	6287.234	pg	99
44) 1,1,2,2-Tetrachloroethane	16.95	83	258330	6293.308	pg	100
46) 1,3,5-Trimethylbenzene	18.25	105	589975	6422.701	pg	100
47) 1,2,4-Trimethylbenzene	18.65	105	638347	6354.312	pg	99
48) 1,3-Dichlorobenzene	18.79	146	350553	6364.342	pg	100
49) 1,4-Dichlorobenzene	18.85	146	341906	5959.417	pg	99
50) 1,2-Dichlorobenzene	19.18	146	342284	6058.554	pg	100
51) 1,2-Dibromo-3-chloropr...	19.60	157	234899	12442.547	pg	100
52) 1,2,4-Trichlorobenzene	20.81	182	464589	11588.926	pg	100
53) Naphthalene	20.92	128	778316	6481.291	pg	99

Data File : I:\MS19\DATA\2021 03\16\03162111.D
 Acq On : 16 Mar 2021 13:10
 Sample : 5000pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03152101 (4/14)

Vial: 16
 Operator: TZ
 Inst : MS19

Quant Time: Mar 16 13:35:34 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 12:31:53 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

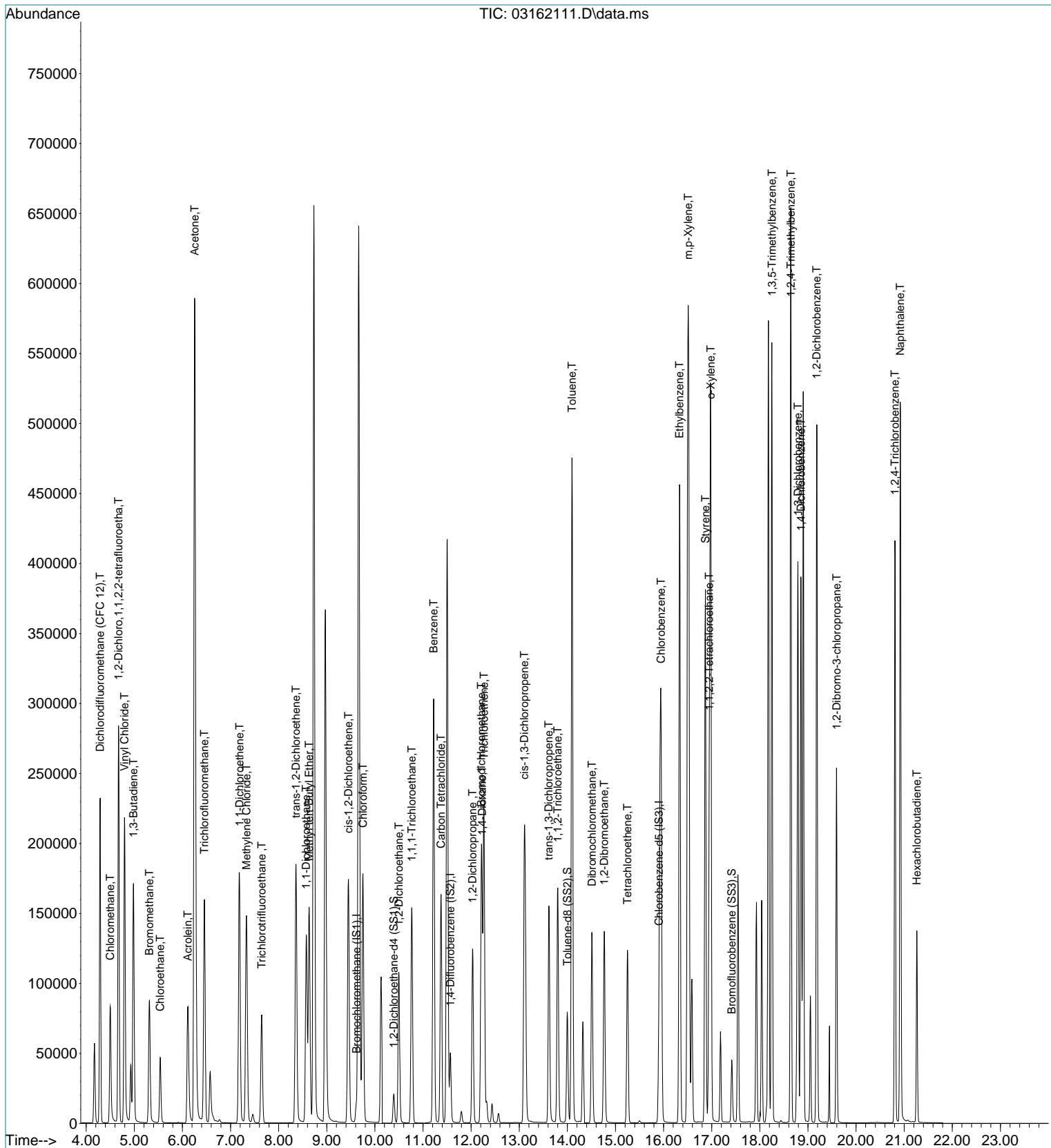
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Hexachlorobutadiene	21.26	225	125098	5443.216	pg	100

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

Data File : I:\MS19\DATA\2021 03\16\03162111.D
 Acq On : 16 Mar 2021 13:10
 Sample : 5000pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03152101 (4/14)

Vial: 16
 Operator: TZ
 Inst : MS19

Quant Time: Mar 16 13:35:34 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 12:31:53 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M



Data File : I:\MS19\DATA\2021 03\16\03162108.D
 Acq On : 16 Mar 2021 11:36
 Sample : 10000pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03102102 (4/9)

Vial: 15
 Operator: TZ
 Inst : MS19

Tz 3/17/21

Quant Time: Mar 16 12:25:00 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 11:32:11 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	9.62	130	21865	1000.000	pg	0.00
25) 1,4-Difluorobenzene (IS2)	11.57	114	102682	1000.000	pg	0.00
38) Chlorobenzene-d5 (IS3)	15.90	54	18602	1000.000	pg	0.00

System Monitoring Compounds

20) 1,2-Dichloroethane-d4 ...	10.40	65	32646	954.403	pg	0.00
Spiked Amount	1000.000	Range	70 - 130	Recovery	=	95.44%
33) Toluene-d8 (SS2)	14.00	98	112826	1010.352	pg	0.00
Spiked Amount	1000.000	Range	70 - 130	Recovery	=	101.04%
45) Bromofluorobenzene (SS3)	17.42	174	36908	991.370	pg	0.00
Spiked Amount	1000.000	Range	70 - 130	Recovery	=	99.14%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethan...	4.29	85	447921	8616.867	pg	100
3) Chloromethane	4.50	52	32298	3794.061	pg	100
4) 1,2-Dichloro,1,1,2,2-t...	4.67	85	577386	8646.704	pg	100
5) Vinyl Chloride	4.80	62	539896	9255.435	pg	100
6) 1,3-Butadiene	4.99	54	395830	16310.778	pg	98
7) Bromomethane	5.32	94	166371	8757.438	pg	100
8) Chloroethane	5.54	64	122281	9204.934	pg	100
9) Acrolein	6.12	56	213809	20734.439	pg	99
10) Acetone	6.26	58	646445	41521.095	pg	99
11) Trichlorofluoromethane	6.46	101	363253	8902.066	pg	100
12) 1,1-Dichloroethene	7.18	96	225885	9349.164	pg	100
13) Methylene Chloride	7.34	84	231096	9165.859	pg	98
14) Trichlorotrifluoroethane	7.65	151	172391	9039.158	pg	100
15) trans-1,2-Dichloroethene	8.37	96	232121	9828.592	pg	99
16) 1,1-Dichloroethane	8.58	63	361207	9425.731	pg	100
17) Methyl tert-Butyl Ether	8.64	73	322688	5311.357	pg	100
18) cis-1,2-Dichloroethene	9.46	96	246672	9544.536	pg	100
19) Chloroform	9.76	83	404736	9249.463	pg	99
21) 1,2-Dichloroethane	10.50	62	300367	9647.113	pg	98
22) 1,1,1-Trichloroethane	10.77	97	315620	8640.219	pg	100
23) Benzene	11.22	78	916630	9271.021	pg	100
24) Carbon Tetrachloride	11.38	117	277306	9137.434	pg	100
26) 1,2-Dichloropropane	12.03	63	214349	9660.351	pg	100
27) Bromodichloromethane	12.21	83	340611	10218.208	pg	99
28) Trichloroethene	12.27	130	266636	9420.212	pg	100
29) 1,4-Dioxane	12.23	88	201730	8973.190	pg	99
30) cis-1,3-Dichloropropene	13.11	75	383074	12169.489	pg	100
31) trans-1,3-Dichloropropene	13.62	75	327988	13977.204	pg	99
32) 1,1,2-Trichloroethane	13.80	83	196233	9549.383	pg	100
34) Toluene	14.10	91	1015262	9439.382	pg	100
35) Dibromochloromethane	14.51	129	263180	10640.502	pg	99
36) 1,2-Dibromoethane	14.77	107	264544	10315.133	pg	99
37) Tetrachloroethene	15.25	166	263245	9340.631	pg	100
39) Chlorobenzene	15.95	112	685303	8740.407	pg	100
40) Ethylbenzene	16.33	91	1175371	9369.462	pg	100
41) m,p-Xylene	16.51	91	1866824	19598.906	pg	99
42) Styrene	16.87	104	717002	11741.531	pg	99
43) o-Xylene	16.97	106	456658	9508.323	pg	100
44) 1,1,2,2-Tetrachloroethane	16.95	83	436956	9519.374	pg	100
46) 1,3,5-Trimethylbenzene	18.25	105	989865	9772.940	pg	100
47) 1,2,4-Trimethylbenzene	18.64	105	1111613	10593.326	pg	100
48) 1,3-Dichlorobenzene	18.79	146	603440	10129.719	pg	100
49) 1,4-Dichlorobenzene	18.85	146	575255	8901.079	pg	99
50) 1,2-Dichlorobenzene	19.18	146	591441	9585.389	pg	100
51) 1,2-Dibromo-3-chloropr...	19.59	157	412797	20447.735	pg	99
52) 1,2,4-Trichlorobenzene	20.81	182	776716	18079.488	pg	100
53) Naphthalene	20.92	128	1213749	9200.134	pg	99

Data File : I:\MS19\DATA\2021 03\16\03162108.D
 Acq On : 16 Mar 2021 11:36
 Sample : 10000pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03102102 (4/9)

Vial: 15
 Operator: TZ
 Inst : MS19

Quant Time: Mar 16 12:25:00 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 11:32:11 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

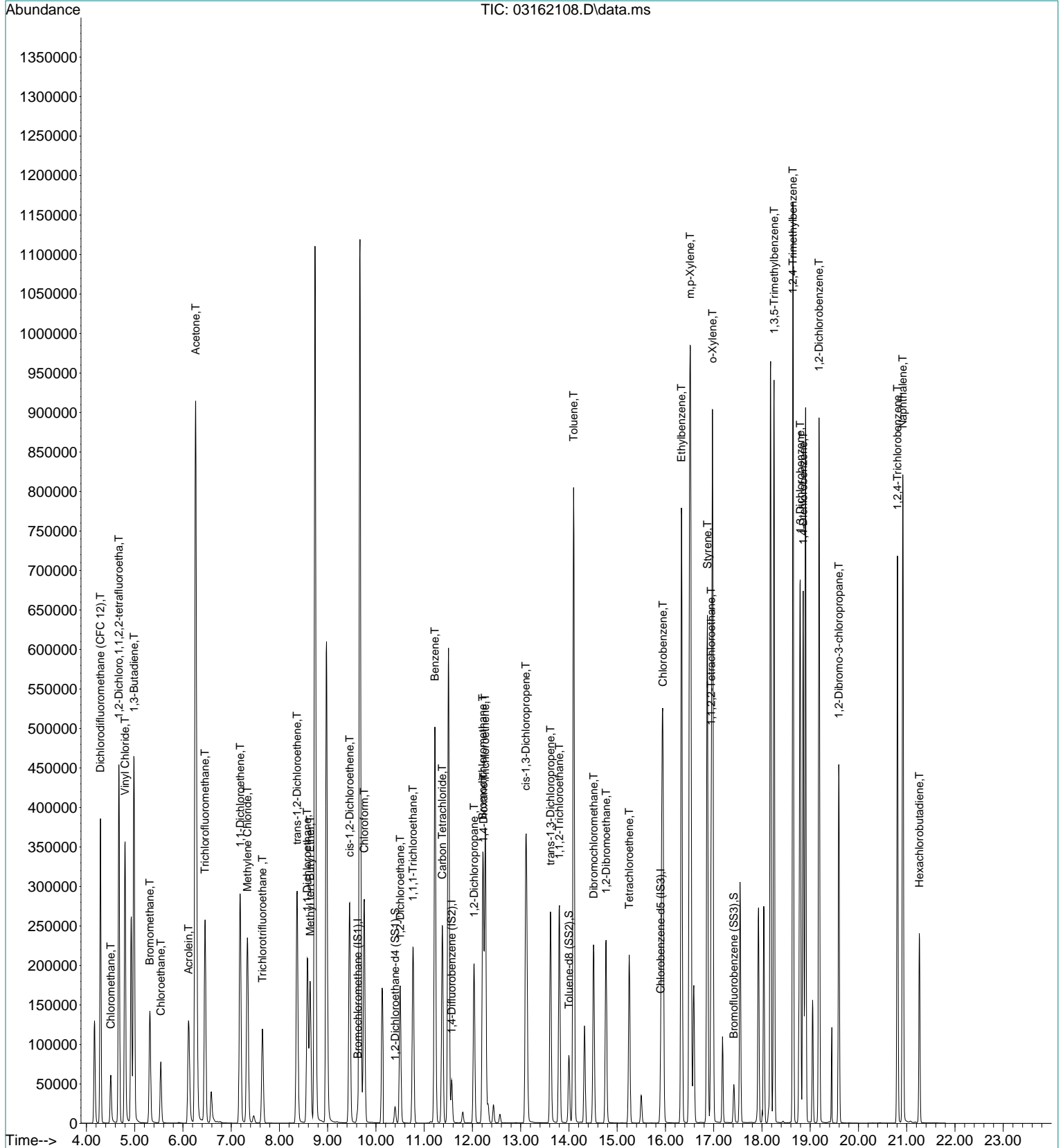
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Hexachlorobutadiene	21.26	225	214364	8209.245	pg	100

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

Data File : I:\MS19\DATA\2021 03\16\03162108.D
 Acq On : 16 Mar 2021 11:36
 Sample : 10000pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03102102 (4/9)

Vial: 15
 Operator: TZ
 Inst : MS19

Quant Time: Mar 16 12:25:00 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 11:32:11 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M



Data File : I:\MS19\DATA\2021 03\16\03162109.D
 Acq On : 16 Mar 2021 12:07
 Sample : 25000pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03152101 (4/14)

Vial: 16
 Operator: TZ
 Inst : MS19

TZ 3/17/21

Quant Time: Mar 16 12:31:47 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 12:25:10 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	9.63	130	24928	1000.000	pg	0.00
25) 1,4-Difluorobenzene (IS2)	11.57	114	110524	1000.000	pg	0.00
38) Chlorobenzene-d5 (IS3)	15.90	54	22424	1000.000	pg	0.00

System Monitoring Compounds

20) 1,2-Dichloroethane-d4 ...	10.40	65	34795	898.088	pg	0.00
Spiked Amount 1000.000	Range 70	- 130	Recovery =	89.81%		
33) Toluene-d8 (SS2)	14.00	98	122001	1013.498	pg	0.00
Spiked Amount 1000.000	Range 70	- 130	Recovery =	101.35%		
45) Bromofluorobenzene (SS3)	17.42	174	40257	898.130	pg	0.00
Spiked Amount 1000.000	Range 70	- 130	Recovery =	89.81%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethan...	4.29	85	1341436	23203.305	pg	100
3) Chloromethane	4.50	52	104641	10781.833	pg	100
4) 1,2-Dichloro,1,1,2,2-t...	4.67	85	1742804	23457.535	pg	100
5) Vinyl Chloride	4.80	62	1598651	24452.274	pg	100
6) 1,3-Butadiene	4.99	54	1142094	41279.067	pg	100
7) Bromomethane	5.32	94	499649	23601.390	pg	100
8) Chloroethane	5.55	64	365707	24549.659	pg	100
9) Acrolein	6.13	56	667766	57199.976	pg	99
10) Acetone	6.28	58	2114865	122566.768	pg	98
11) Trichlorofluoromethane	6.46	101	1094071	23952.814	pg	100
12) 1,1-Dichloroethene	7.19	96	687386	25319.940	pg	99
13) Methylene Chloride	7.35	84	702729	24868.876	pg	98
14) Trichlorotrifluoroethane	7.65	151	551969	25900.541	pg	100
15) trans-1,2-Dichloroethene	8.38	96	717677	26900.067	pg	99
16) 1,1-Dichloroethane	8.59	63	1105527	25742.010	pg	100
17) Methyl tert-Butyl Ether	8.64	73	590817	8529.777	pg	100
18) cis-1,2-Dichloroethene	9.46	96	770205	26450.684	pg	100
19) Chloroform	9.77	83	1266626	25829.014	pg	99
21) 1,2-Dichloroethane	10.51	62	931509	26516.064	pg	98
22) 1,1,1-Trichloroethane	10.77	97	1016608	24985.634	pg	100
23) Benzene	11.23	78	2886825	26013.799	pg	100
24) Carbon Tetrachloride	11.38	117	897552	26332.879	pg	100
26) 1,2-Dichloropropane	12.04	63	662592	28027.887	pg	100
27) Bromodichloromethane	12.22	83	1116625	31199.455	pg	99
28) Trichloroethene	12.27	130	858846	28501.264	pg	100
29) 1,4-Dioxane	12.23	88	666677	28067.004	pg	100
30) cis-1,3-Dichloropropene	13.11	75	1312561	37878.486	pg	99
31) trans-1,3-Dichloropropene	13.62	75	1070300	40245.530	pg	99
32) 1,1,2-Trichloroethane	13.80	83	617525	28248.789	pg	99
34) Toluene	14.10	91	3262066	28553.852	pg	99
35) Dibromochloromethane	14.51	129	849907	31818.962	pg	99
36) 1,2-Dibromoethane	14.77	107	830898	30134.842	pg	99
37) Tetrachloroethene	15.25	166	852857	28529.636	pg	100
39) Chlorobenzene	15.95	112	2284209	24701.806	pg	100
40) Ethylbenzene	16.33	91	3866524	25935.740	pg	99
41) m,p-Xylene	16.52	91	6530098	57381.819	pg	100
42) Styrene	16.87	104	2437007	32457.142	pg	99
43) o-Xylene	16.98	106	1560216	27317.668	pg	99
44) 1,1,2,2-Tetrachloroethane	16.95	83	1455641	26662.741	pg	100
46) 1,3,5-Trimethylbenzene	18.25	105	3493069	28894.848	pg	99
47) 1,2,4-Trimethylbenzene	18.64	105	4684388	36882.034	pg	100
48) 1,3-Dichlorobenzene	18.79	146	2285603	31989.254	pg	100
49) 1,4-Dichlorobenzene	18.86	146	2015803	26418.746	pg	99
50) 1,2-Dichlorobenzene	19.19	146	2313196	31491.650	pg	100
51) 1,2-Dibromo-3-chloropr...	19.60	157	1518497	62198.866	pg	99
52) 1,2,4-Trichlorobenzene	20.81	182	3492221	68370.857	pg	99
53) Naphthalene	20.92	128	4737666	30251.880	pg	98

Data File : I:\MS19\DATA\2021 03\16\03162109.D
 Acq On : 16 Mar 2021 12:07
 Sample : 25000pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03152101 (4/14)

Vial: 16
 Operator: TZ
 Inst : MS19

Quant Time: Mar 16 12:31:47 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 12:25:10 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

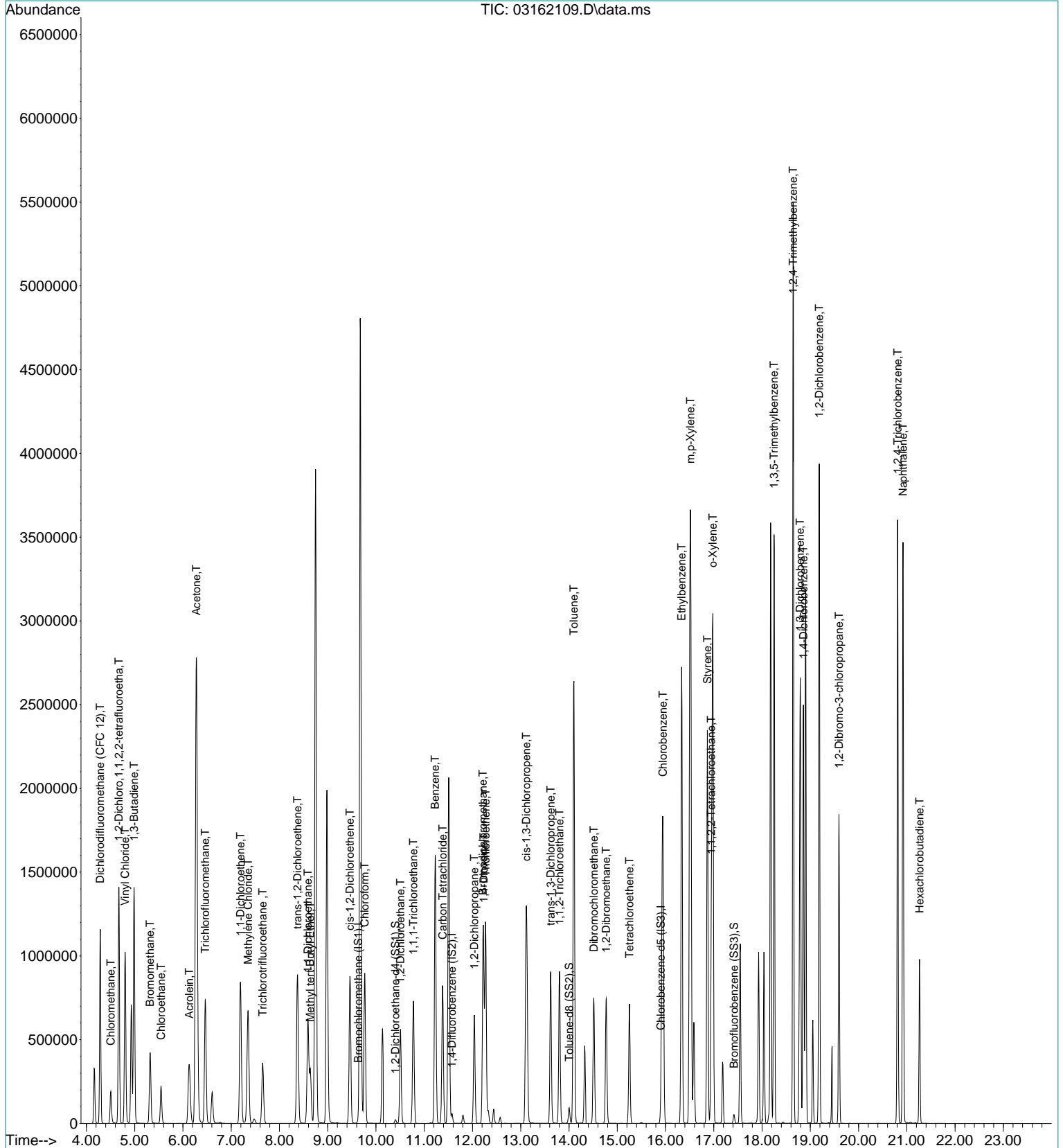
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Hexachlorobutadiene	21.26	225	799801	26167.348	pg	100

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

Data File : I:\MS19\DATA\2021 03\16\03162109.D
 Acq On : 16 Mar 2021 12:07
 Sample : 25000pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03152101 (4/14)

Vial: 16
 Operator: TZ
 Inst : MS19

Quant Time: Mar 16 12:31:47 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 12:25:10 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M



Data File : I:\MS19\DATA\2021 03\16\03162112.D
 Acq On : 16 Mar 2021 13:41
 Sample : 50000pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03152101 (4/14)

Vial: 16
 Operator: TZ
 Inst : MS19

TZ 3/17/21

Quant Time: Mar 16 14:07:18 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 13:35:39 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	9.64	130	28174	1000.000	pg	0.02
25) 1,4-Difluorobenzene (IS2)	11.58	114	111650	1000.000	pg	0.01
38) Chlorobenzene-d5 (IS3)	15.90	54	26496	1000.000	pg	0.00

System Monitoring Compounds

20) 1,2-Dichloroethane-d4 ...	10.41	65	37854	876.305	pg	0.02
Spiked Amount	1000.000	Range	70 - 130	Recovery	=	87.63%
33) Toluene-d8 (SS2)	14.00	98	122410	1004.282	pg	0.00
Spiked Amount	1000.000	Range	70 - 130	Recovery	=	100.43%
45) Bromofluorobenzene (SS3)	17.42	174	40421	763.514	pg	0.00
Spiked Amount	1000.000	Range	70 - 130	Recovery	=	76.35%

Target Compounds

						Qvalue
2) Dichlorodifluoromethan...	4.29	85	2813000	42254.927	pg	99
3) Chloromethane	4.51	52	290383	24303.974	pg	100
4) 1,2-Dichloro,1,1,2,2-t...	4.68	85	3705711	43191.684	pg	99
5) Vinyl Chloride	4.81	62	3240252	42764.545	pg	100
6) 1,3-Butadiene	5.00	54	2603285	87122.664	pg	98
7) Bromomethane	5.33	94	1028960	41999.431	pg	100
8) Chloroethane	5.56	64	742994	42949.733	pg	100
9) Acrolein	6.14	56	1383627	99825.261	pg	98
10) Acetone	6.29	58	5043265	243821.130	pg	94
11) Trichlorofluoromethane	6.47	101	2294248	43298.526	pg	100
12) 1,1-Dichloroethene	7.20	96	1435842	45378.757	pg	98
13) Methylene Chloride	7.36	84	1454778	44252.879	pg	98
14) Trichlorotrifluoroethane	7.66	151	1284071	51490.477	pg	100
15) trans-1,2-Dichloroethene	8.38	96	1503371	47928.376	pg	99
16) 1,1-Dichloroethane	8.60	63	2272783	45341.603	pg	99
17) Methyl tert-Butyl Ether	8.64	73	1142775	13948.030	pg	100
18) cis-1,2-Dichloroethene	9.47	96	1630689	47714.627	pg	100
19) Chloroform	9.78	83	2687280	46960.065	pg	99
21) 1,2-Dichloroethane	10.51	62	1975294	47943.758	pg	98
22) 1,1,1-Trichloroethane	10.78	97	2162169	45198.612	pg	100
23) Benzene	11.23	78	6190697	47751.799	pg	99
24) Carbon Tetrachloride	11.39	117	1947386	48294.577	pg	100
26) 1,2-Dichloropropane	12.04	63	1403921	56136.497	pg	99
27) Bromodichloromethane	12.22	83	2532616	65864.390	pg	100
28) Trichloroethene	12.28	130	1898120	59350.793	pg	100
29) 1,4-Dioxane	12.24	88	1519103	60364.916	pg	100
30) cis-1,3-Dichloropropene	13.11	75	3104304	80587.844	pg	99
31) trans-1,3-Dichloropropene	13.62	75	2330620	72842.772	pg	99
32) 1,1,2-Trichloroethane	13.81	83	1333419	57663.447	pg	99
34) Toluene	14.10	91	7183183	59410.729	pg	97
35) Dibromochloromethane	14.52	129	1852224	64293.968	pg	99
36) 1,2-Dibromoethane	14.77	107	1781039	60457.930	pg	99
37) Tetrachloroethene	15.25	166	1913056	60554.104	pg	99
39) Chlorobenzene	15.95	112	5324505	47024.790	pg	99
40) Ethylbenzene	16.34	91	8674563	47396.996	pg	97
41) m,p-Xylene	16.52	91	15767127	112575.214	pg	96
42) Styrene	16.87	104	5571491	59835.680	pg	98
43) o-Xylene	16.98	106	3797666	54165.778	pg	97
44) 1,1,2,2-Tetrachloroethane	16.96	83	3424718	51158.749	pg	99
46) 1,3,5-Trimethylbenzene	18.25	105	8332500	55973.506	pg	96
47) 1,2,4-Trimethylbenzene	18.65	105	11719662	74643.402	pg	93
48) 1,3-Dichlorobenzene	18.80	146	6232282	70880.672	pg	99
49) 1,4-Dichlorobenzene	18.86	146	4812163	51410.510	pg	98
50) 1,2-Dichlorobenzene	19.19	146	6403709	70957.310	pg	98
51) 1,2-Dibromo-3-chloropr...	19.60	157	3917716	130404.793	pg	95
52) 1,2,4-Trichlorobenzene	20.81	182	9619927	151847.945	pg	91
53) Naphthalene	20.92	128	10643352	54451.352	pg	95

Data File : I:\MS19\DATA\2021 03\16\03162112.D
 Acq On : 16 Mar 2021 13:41
 Sample : 50000pg S19031621 ICAL Std.
 Misc : S34-01272101/S34-03152101 (4/14)

Vial: 16
 Operator: TZ
 Inst : MS19

Quant Time: Mar 16 14:07:18 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 13:35:39 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

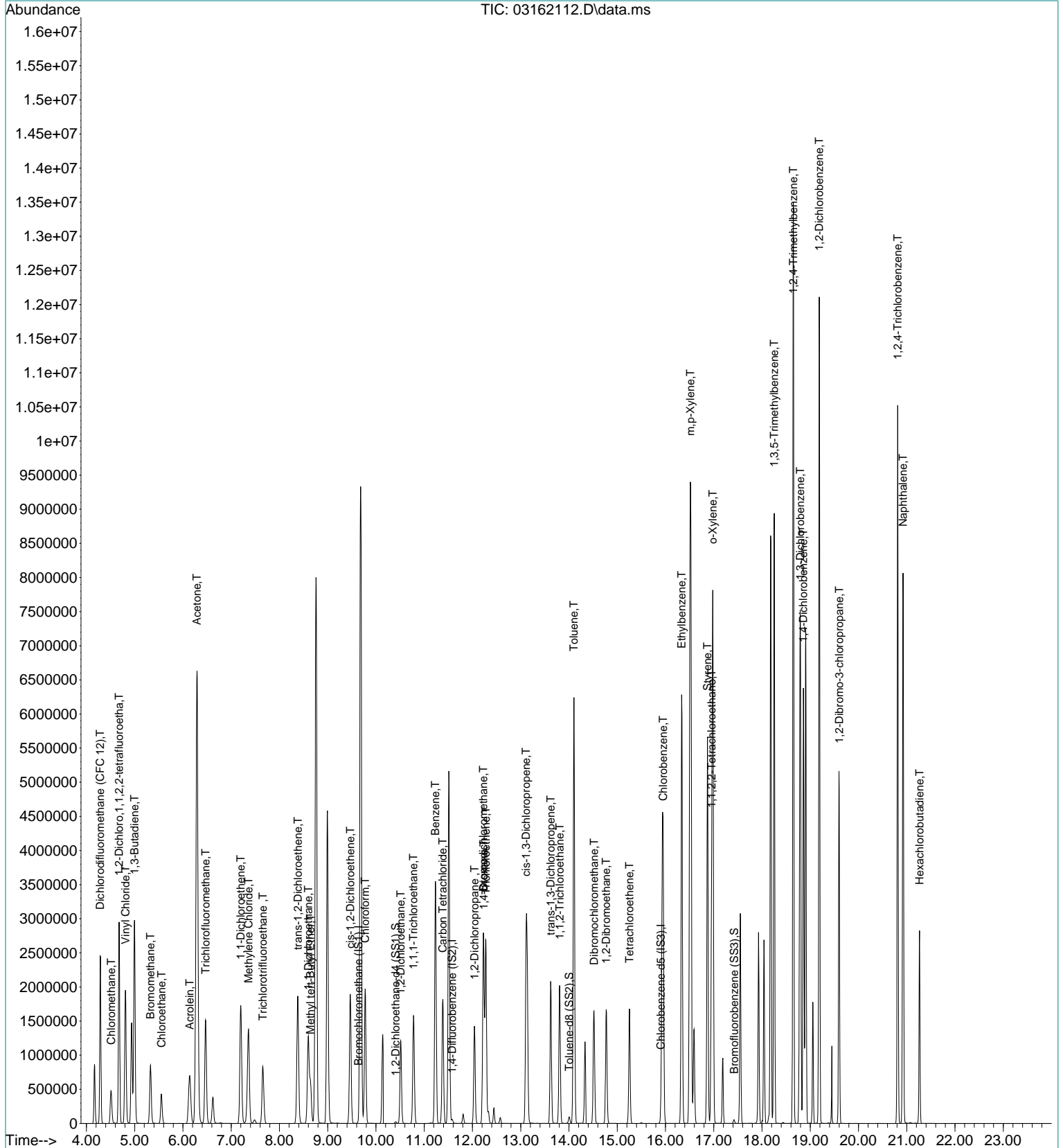
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Hexachlorobutadiene	21.27	225	2094378	56017.614	pg	99

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

Data File : I:\MS19\DATA\2021 03\16\03162112.D
Acq On : 16 Mar 2021 13:41
Sample : 50000pg S19031621 ICAL Std.
Misc : S34-01272101/S34-03152101 (4/14)

Vial: 16
Operator: TZ
Inst : MS19

Quant Time: Mar 16 14:07:18 2021
Quant Method : I:\MS19\METHODS\S19031621.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Mar 16 13:35:39 2021
Response via : Initial Calibration
DataAcq Meth:TO15SIM.M



Laboratory Control Sample Recovery Check Sheet - MS19

Data File Name: 03162115.D
 Data File Path: I:\MS19\DATA\2021_03\16\
 Operator: TZ
 Instrument Name: MS19
 Sample Name: 1000pg S19031621 ICV Std.
 Misc Info: S34-01272101/S34-03112101 (4/7)
 Date Acquired: 3/16/2021 15:16
 Acq. Method File: TO15SIM.M

TZ 3/17/21

#	Compound Name	Ret. Time	Amount Spiked (pg)	Amount Found (pg)	Percent Recovery	Lower Limit	Upper Limit	Flag	70-130% Method
2)	Dichlorodifluoromethane (CFC 12)	4.31	1050.0	1112.1	106	65	122	*	*
3)	Chloromethane	4.52	1030.0	955.3	93	48	162	*	*
4)	1,2-Dichloro,1,1,2,2-tetrafluoroetha *	4.69	1080.0	1108.9	103	49	133	*	*
5)	Vinyl Chloride	4.82	1040.0	1135.0	109	43	138	*	*
6)	1,3-Butadiene *	5.00	1050.0	1557.0	148	45	150	*	Fail
7)	Bromomethane	5.33	1020.0	1112.9	109	60	126	*	*
8)	Chloroethane	5.55	1020.0	1135.5	111	57	130	*	*
9)	Acrolein *	6.12	2180.0	2273.8	104	54	130	*	*
10)	Acetone	6.26	5160.0	5324.3	103	54	123	*	*
11)	Trichlorofluoromethane	6.46	1020.0	1095.4	107	69	117	*	*
12)	1,1-Dichloroethene	7.19	1060.0	1109.6	105	65	135	*	*
13)	Methylene Chloride	7.32	1040.0	1109.4	107	63	120	*	*
14)	Trichlorotrifluoroethane	7.65	1070.0	1081.3	101	67	123	*	*
15)	trans-1,2-Dichloroethene	8.36	1060.0	1163.5	110	67	123	*	*
16)	1,1-Dichloroethane	8.57	1060.0	1167.2	110	62	123	*	*
17)	Methyl tert-Butyl Ether	8.64	1060.0	1246.7	118	75	131	*	*
18)	cis-1,2-Dichloroethene	9.44	1040.0	1126.3	108	69	123	*	*
19)	Chloroform	9.74	1070.0	1116.1	104	67	117	*	*
21)	1,2-Dichloroethane	10.49	1040.0	1140.7	110	68	118	*	*
22)	1,1,1-Trichloroethane	10.76	1030.0	1145.4	111	73	124	*	*
25)	Benzene	11.22	1020.0	1068.3	105	60	122	*	*
24)	Carbon Tetrachloride	11.37	1050.0	1141.6	109	73	118	*	*
26)	1,2-Dichloropropane	12.03	1030.0	1086.7	106	66	126	*	*
27)	Bromodichloromethane	12.21	1050.0	1034.7	99	69	117	*	*
28)	Trichloroethene	12.27	1030.0	990.1	96	71	119	*	*
29)	1,4-Dioxane	12.23	1040.0	917.9	88	69	119	*	*
30)	cis-1,3-Dichloropropene	13.11	1050.0	1107.6	105	73	125	*	*
31)	trans-1,3-Dichloropropene	13.62	1010.0	1077.7	107	77	128	*	*
32)	1,1,2-Trichloroethane	13.80	1030.0	1051.0	102	68	123	*	*
34)	Toluene	14.00	1030.0	1013.5	98	69	120	*	*
35)	Dibromochloromethane *	14.51	1050.0	1074.0	102	74	122	*	*
36)	1,2-Dibromoethane	14.77	1040.0	1071.6	103	72	124	*	*
37)	Tetrachloroethene	15.25	1030.0	996.8	97	72	122	*	*
39)	Chlorobenzene	15.95	1030.0	1002.8	97	65	133	*	*
40)	Ethylbenzene	16.34	1030.0	1053.1	102	70	134	*	*
41)	m,p-Xylene	16.51	2060.0	2076.2	101	73	132	*	*
42)	Styrene *	16.87	1030.0	1097.1	107	71	142	*	*
43)	o-Xylene	16.98	1030.0	1045.2	101	69	136	*	*
44)	1,1,2,2-Tetrachloroethane	16.95	1030.0	1033.4	100	66	136	*	*
46)	1,3,5-Trimethylbenzene *	18.25	1030.0	1042.1	101	76	139	*	*
47)	1,2,4-Trimethylbenzene *	18.65	1020.0	995.2	98	75	139	*	*
48)	1,3-Dichlorobenzene	18.79	1030.0	976.7	95	64	138	*	*
49)	1,4-Dichlorobenzene	18.85	1020.0	921.5	90	55	137	*	*
50)	1,2-Dichlorobenzene	19.18	1030.0	950.1	92	62	138	*	*
51)	1,2-Dibromo-3-chloropropane *	19.60	1930.0	1820.9	94	66	149	*	*
52)	1,2,4-Trichlorobenzene	20.81	1940.0	1528.6	79	53	145	*	*
53)	Naphthalene	19.18	990.0	783.0	79	43	144	*	*
54)	Hexachlorobutadiene	21.27	1050.0	874.2	83	54	146	*	*

* Compounds with 70 - 130 as advisory limits

Data File : I:\MS19\DATA\2021 03\17\03172102.D
 Acq On : 17 Mar 2021 8:12
 Sample : CCV S19031721 1000pg
 Misc : S34-01272101/S34-03102102 (4/9)

Vial: 16
 Operator: TZ
 Inst : MS19

TZ 3/17/21

Quant Time: Mar 17 08:46:04 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 14:07:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
1 I	Bromochloromethane (IS1)	1.000	1.000	0.0	100	-0.03
2 T	Dichlorodifluoromethane (CF	2.314	2.237	3.3	97	0.02
3 T	Chloromethane	0.424	0.398	6.1	114	0.00
4 T	1,2-Dichloro,1,1,2,2-tetra	2.988	2.902	2.9	95	0.00
5 T	Vinyl Chloride	2.634	2.696	-2.4	100	0.00
6 T	1,3-Butadiene	1.061	1.061	0.0	98	0.00
7 T	Bromomethane	0.851	0.840	1.3	97	0.00
8 T	Chloroethane	0.602	0.611	-1.5	99	0.00
9 T	Acrolein	0.487	0.487	0.0	103	-0.03
10 T	Acetone	0.653	0.620	5.1	100	-0.04
11 T	Trichlorofluoromethane	1.849	1.805	2.4	97	0.00
12 T	1,1-Dichloroethene	1.107	1.090	1.5	99	-0.01
13 T	Methylene Chloride	1.148	1.138	0.9	100	-0.04
14 T	Trichlorotrifluoroethane	0.883	0.861	2.5	97	-0.01
15 T	trans-1,2-Dichloroethene	1.103	1.135	-2.9	101	-0.02
16 T	1,1-Dichloroethane	1.749	1.766	-1.0	98	-0.03
17 T	Methyl tert-Butyl Ether	2.908	3.098	-6.5	102	0.00
18 T	cis-1,2-Dichloroethene	1.202	1.205	-0.2	99	-0.03
19 T	Chloroform	2.007	1.958	2.4	98	-0.04
20 S	1,2-Dichloroethane-d4 (SS1)	1.512	1.540	-1.9	99	-0.03
21 T	1,2-Dichloroethane	1.450	1.445	0.3	98	-0.02
22 T	1,1,1-Trichloroethane	1.675	1.712	-2.2	100	-0.02
23 T	Benzene	4.560	4.348	4.6	99	-0.02
24 T	Carbon Tetrachloride	1.423	1.428	-0.4	101	-0.02
25 I	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	100	-0.02
26 T	1,2-Dichloropropane	0.226	0.222	1.8	99	-0.02
27 T	Bromodichloromethane	0.355	0.333	6.2	100	-0.02
28 T	Trichloroethene	0.292	0.278	4.8	99	-0.02
29 T	1,4-Dioxane	0.230	0.200	13.0	99	0.00
30 T	cis-1,3-Dichloropropene	0.345	0.342	0.9	102	-0.01
31 T	trans-1,3-Dichloropropene	0.287	0.283	1.4	104	0.00
32 T	1,1,2-Trichloroethane	0.210	0.200	4.8	98	-0.01
33 S	Toluene-d8 (SS2)	1.092	1.089	0.3	100	-0.01
34 T	Toluene	1.100	1.009	8.3	99	-0.01
35 T	Dibromochloromethane	0.265	0.254	4.2	100	0.00
36 T	1,2-Dibromoethane	0.269	0.263	2.2	99	0.00
37 T	Tetrachloroethene	0.288	0.266	7.6	98	0.00
38 I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	97	0.00
39 T	Chlorobenzene	4.273	4.156	2.7	99	0.00
40 T	Ethylbenzene	6.907	6.923	-0.2	99	0.00
41 T	m,p-Xylene	5.286	5.190	1.8	98	0.00
42 T	Styrene	3.742	3.896	-4.1	99	0.00
43 T	o-Xylene	2.646	2.602	1.7	98	0.00
44 T	1,1,2,2-Tetrachloroethane	2.527	2.535	-0.3	99	0.00
45 S	Bromofluorobenzene (SS3)	1.998	2.009	-0.6	95	0.00
46 T	1,3,5-Trimethylbenzene	5.618	5.516	1.8	98	0.00
47 T	1,2,4-Trimethylbenzene	5.926	5.695	3.9	98	0.00
48 T	1,3-Dichlorobenzene	3.318	3.227	2.7	99	0.00
49 T	1,4-Dichlorobenzene	3.533	3.267	7.5	99	0.00
50 T	1,2-Dichlorobenzene	3.406	3.160	7.2	100	0.00
51 T	1,2-Dibromo-3-chloropropane	1.134	1.142	-0.7	106	0.00
52 T	1,2,4-Trichlorobenzene	2.391	2.211	7.5	109	0.00
53 T	Naphthalene	7.377	7.078	4.1	113	0.00
54 T	Hexachlorobutadiene	1.411	1.336	5.3	108	0.00

Evaluate Continuing Calibration Report

Data File : I:\MS19\DATA\2021 03\17\03172102.D
Acq On : 17 Mar 2021 8:12
Sample : CCV S19031721 1000pg
Misc : S34-01272101/S34-03102102 (4/9)

Vial: 16
Operator: TZ
Inst : MS19

Quant Time: Mar 17 08:46:04 2021
Quant Method : I:\MS19\METHODS\S19031621.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Mar 16 14:07:28 2021
Response via : Initial Calibration
DataAcq Meth:TO15SIM.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev Area%	Dev(min)
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(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data File : I:\MS19\DATA\2021 03\17\03172102.D
 Acq On : 17 Mar 2021 8:12
 Sample : CCV S19031721 1000pg
 Misc : S34-01272101/S34-03102102 (4/9)

Vial: 16
 Operator: TZ
 Inst : MS19

TZ 3/17/21

Quant Time: Mar 17 08:46:04 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 14:07:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	9.60	130	17777	1000.000	pg	-0.03
25) 1,4-Difluorobenzene (IS2)	11.56	114	82290	1000.000	pg	-0.02
38) Chlorobenzene-d5 (IS3)	15.90	54	13497	1000.000	pg	0.00

System Monitoring Compounds

20) 1,2-Dichloroethane-d4 ...	10.38	65	27371	1018.204	pg	-0.03
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	101.82%	
33) Toluene-d8 (SS2)	13.99	98	89621	997.134	pg	-0.01
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	99.71%	
45) Bromofluorobenzene (SS3)	17.41	174	27113	1005.381	pg	0.00
Spiked Amount	1000.000	Range 70 - 130	Recovery	=	100.54%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethan...	4.30	85	41362	1005.629	pg	100
3) Chloromethane	4.52	52	7359	976.146	pg	100
4) 1,2-Dichloro,1,1,2,2-t...	4.69	85	53650	1010.044	pg	100
5) Vinyl Chloride	4.81	62	50316	1074.590	pg	100
6) 1,3-Butadiene	5.00	54	19607	1039.946	pg	99
7) Bromomethane	5.32	94	15539	1027.162	pg	100
8) Chloroethane	5.55	64	11296	1055.287	pg	100
9) Acrolein	6.11	56	18871	2178.147	pg	99
10) Acetone	6.25	58	56907	4904.221	pg	100
11) Trichlorofluoromethane	6.46	101	32725	995.523	pg	100
12) 1,1-Dichloroethene	7.19	96	20160	1024.271	pg	100
13) Methylene Chloride	7.32	84	21032	1031.014	pg	100
14) Trichlorotrifluoroethane	7.64	151	16076	1023.846	pg	100
15) trans-1,2-Dichloroethene	8.36	96	21182	1080.702	pg	100
16) 1,1-Dichloroethane	8.56	63	33592	1080.405	pg	100
17) Methyl tert-Butyl Ether	8.64	73	56721	1097.201	pg	100
18) cis-1,2-Dichloroethene	9.44	96	22272	1042.377	pg	99
19) Chloroform	9.74	83	36557	1024.468	pg	100
21) 1,2-Dichloroethane	10.49	62	26723	1036.946	pg	99
22) 1,1,1-Trichloroethane	10.76	97	31344	1052.749	pg	100
23) Benzene	11.21	78	80391	991.763	pg	100
24) Carbon Tetrachloride	11.37	117	25898	1023.929	pg	100
26) 1,2-Dichloropropane	12.03	63	19009	1022.238	pg	100
27) Bromodichloromethane	12.21	83	28492	976.421	pg	100
28) Trichloroethene	12.26	130	23351	972.948	pg	100
29) 1,4-Dioxane	12.23	88	16921	895.173	pg	99
30) cis-1,3-Dichloropropene	13.10	75	29567	1041.416	pg	100
31) trans-1,3-Dichloropropene	13.62	75	23770	1007.989	pg	99
32) 1,1,2-Trichloroethane	13.80	83	17133	993.242	pg	100
34) Toluene	14.09	91	86353	953.924	pg	100
35) Dibromochloromethane	14.51	129	21707	996.155	pg	99
36) 1,2-Dibromoethane	14.77	107	22472	1016.610	pg	99
37) Tetrachloroethene	15.25	166	22777	960.633	pg	100
39) Chlorobenzene	15.95	112	57783	1001.822	pg	100
40) Ethylbenzene	16.34	91	97176	1042.330	pg	100
41) m,p-Xylene	16.51	91	146409	2052.112	pg	100
42) Styrene	16.87	104	54167	1072.447	pg	100
43) o-Xylene	16.98	106	36873	1032.428	pg	100
44) 1,1,2,2-Tetrachloroethane	16.95	83	35929	1053.618	pg	100
46) 1,3,5-Trimethylbenzene	18.25	105	78169	1030.825	pg	100
47) 1,2,4-Trimethylbenzene	18.64	105	79176	989.949	pg	100
48) 1,3-Dichlorobenzene	18.79	146	45726	1020.909	pg	100
49) 1,4-Dichlorobenzene	18.85	146	45863	961.872	pg	99
50) 1,2-Dichlorobenzene	19.18	146	44784	974.163	pg	100
51) 1,2-Dibromo-3-chloropr...	19.60	157	30826	2014.285	pg	99
52) 1,2,4-Trichlorobenzene	20.81	182	59685	1849.462	pg	99
53) Naphthalene	20.92	128	98394	988.193	pg	100

Data File : I:\MS19\DATA\2021 03\17\03172102.D
 Acq On : 17 Mar 2021 8:12
 Sample : CCV S19031721 1000pg
 Misc : S34-01272101/S34-03102102 (4/9)

Vial: 16
 Operator: TZ
 Inst : MS19

Quant Time: Mar 17 08:46:04 2021
 Quant Method : I:\MS19\METHODS\S19031621.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Mar 16 14:07:28 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M

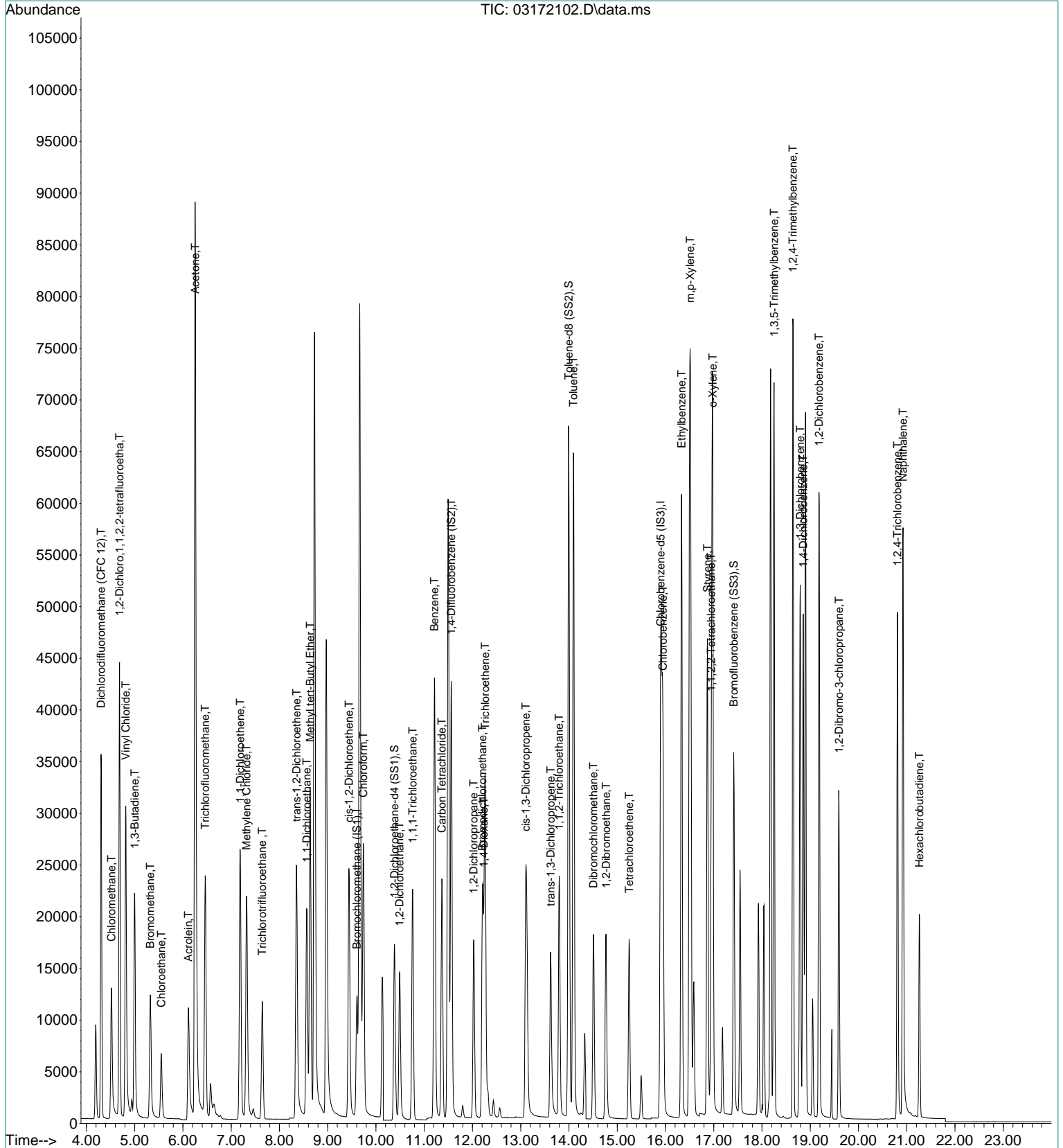
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Hexachlorobutadiene	21.26	225	18575	975.307	pg	100

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

Data File : I:\MS19\DATA\2021 03\17\03172102.D
Acq On : 17 Mar 2021 8:12
Sample : CCV S19031721 1000pg
Misc : S34-01272101/S34-03102102 (4/9)

Vial: 16
Operator: TZ
Inst : MS19

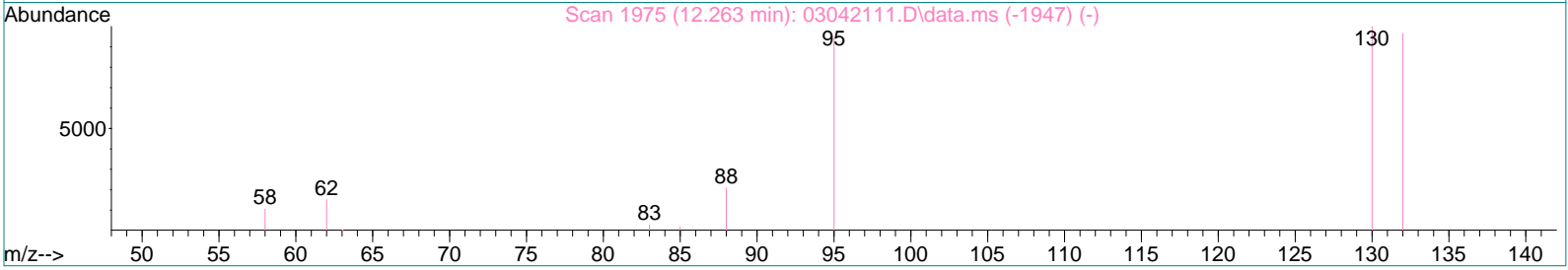
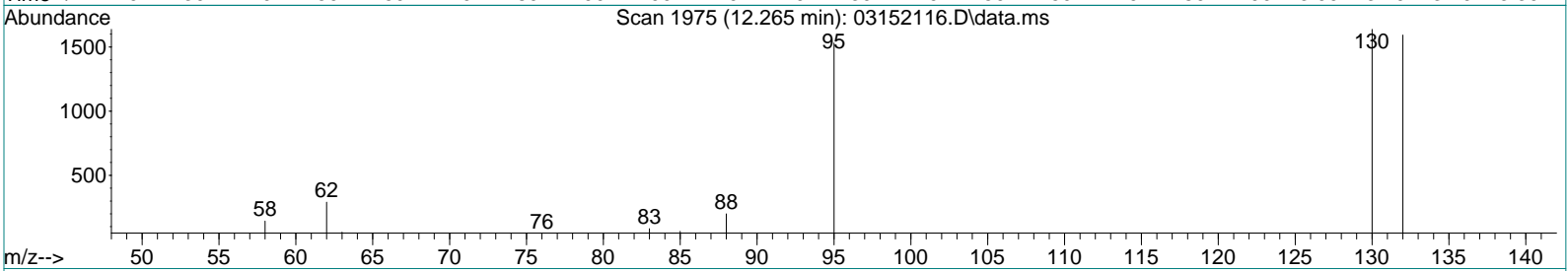
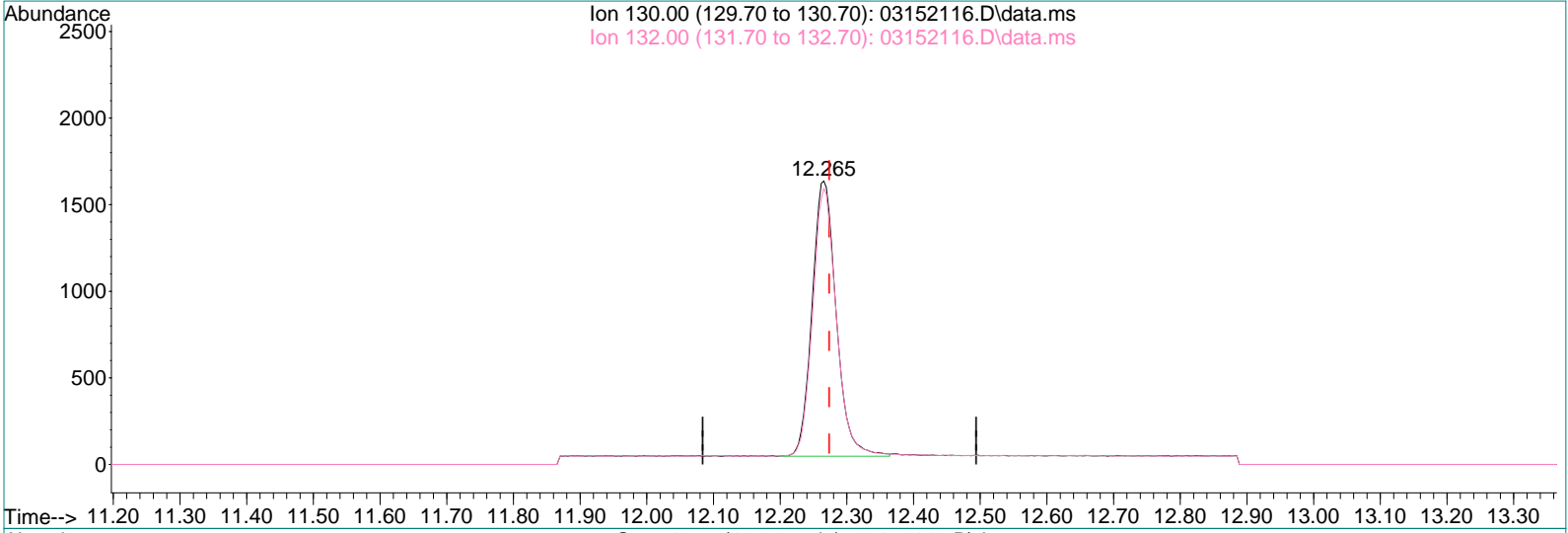
Quant Time: Mar 17 08:46:04 2021
Quant Method : I:\MS19\METHODS\S19031621.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Mar 16 14:07:28 2021
Response via : Initial Calibration
DataAcq Meth:TO15SIM.M



Data File : I:\MS19\DATA\2021 03\15\03152116.D
 Acq On : 15 Mar 2021 17:00
 Sample : P2101123-001 (1000mL)
 Misc : S34-01272101

Vial: 10
 Operator: TZ
 Inst : MS19

Quant Time: Mar 16 07:15:14 2021
 Quant Method : I:\MS19\METHODS\S19030421.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Mar 05 07:14:41 2021
 Response via : Initial Calibration
 DataAcq Meth:TO15SIM.M



TIC: 03152116.D\data.ms

(28) Trichloroethene (T)

12.265min (-0.008) 195.89pg

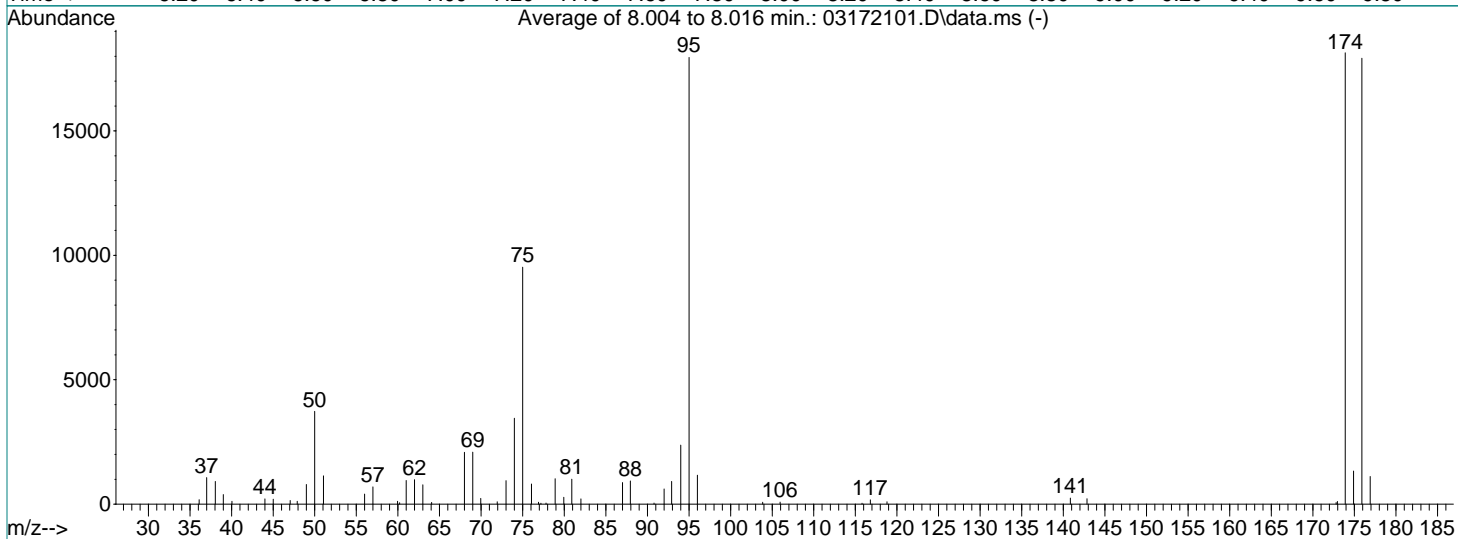
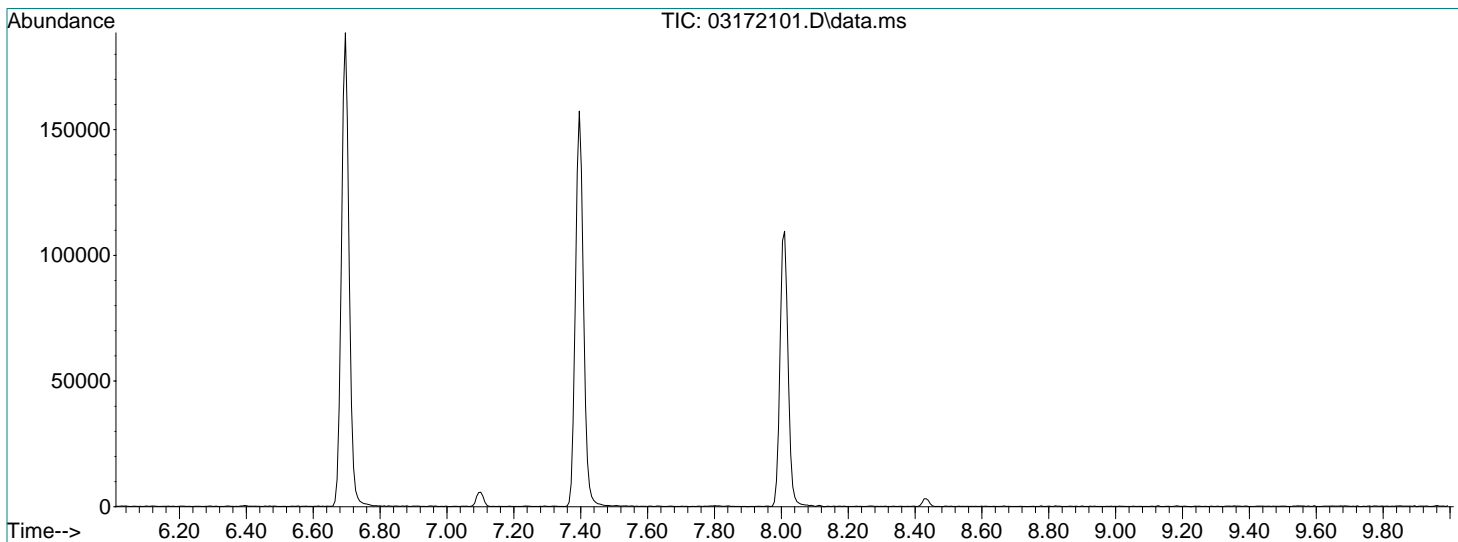
response 3989

Ion	Exp%	Act%
130.00	100	100
132.00	95.30	95.14
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\MS19\DATA\2021 03\17\
 Data File : 03172101.D
 Acq On : 17 Mar 2021 7:49
 Operator : TZ
 Sample : BFB S19031721
 Misc : S34-01272101
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\MS19\METHODS\S19031621.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Tue Mar 16 14:07:28 2021



AutoFind: Scans 638, 639, 640; Background Corrected with Scan 632

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.8	3729	PASS
75	95	30	66	53.0	9521	PASS
95	95	100	100	100.0	17955	PASS
96	95	5	9	6.5	1166	PASS
173	174	0.00	2	0.6	108	PASS
174	95	50	120	101.0	18138	PASS
175	174	4	9	7.3	1333	PASS
176	174	93	101	98.8	17923	PASS
177	176	5	9	6.2	1111	PASS

TZ 3/17/21

Injection Log

TZ 3/17/21

Directory: J:\MS19\DATA\2021_03\16\

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	3/16/21 7:55	03162101.D	BFB S19031621	S34-01272101	TZ	1	passed
2	3/16/21 8:17	03162102.D	20pg S19031621 ICAL Std.	S34-01272101/S34-03152102 (4/9)	TZ	14	S19031621.M
3	3/16/21 8:56	03162103.D	50pg S19031621 ICAL Std.	S34-01272101/S34-03152102 (4/9)	TZ	14	
4	3/16/21 9:29	03162104.D	100pg S19031621 ICAL Std.	S34-01272101/S34-03152102 (4/9)	TZ	14	
5	3/16/21 10:01	03162105.D	500pg S19031621 ICAL Std.	S34-01272101/S34-03102102 (4/9)	TZ	15	
6	3/16/21 10:32	03162106.D	1000pg S19031621 ICAL Std.	S34-01272101/S34-03102102 (4/9)	TZ	15	
7	3/16/21 11:04	03162107.D	5000pg S19031621 ICAL Std.	S34-01272101/S34-03102102 (4/9)	TZ	15	rerun
8	3/16/21 11:36	03162108.D	10000pg S19031621 ICAL Std.	S34-01272101/S34-03102102 (4/9)	TZ	15	S19031621.M
9	3/16/21 12:07	03162109.D	25000pg S19031621 ICAL Std.	S34-01272101/S34-03152101 (4/14)	TZ	16	
10	3/16/21 12:38	03162110.D	Blank (100mL)	S34-01272101	TZ	1	
11	3/16/21 13:10	03162111.D	5000pg S19031621 ICAL Std.	S34-01272101/S34-03152101 (4/14)	TZ	16	
12	3/16/21 13:41	03162112.D	50000pg S19031621 ICAL Std.	S34-01272101/S34-03152101 (4/14)	TZ	16	
13	3/16/21 14:12	03162113.D	Blank (100mL)	S34-01272101	TZ	1	
14	3/16/21 14:44	03162114.D	1000pg S19031621 ICV Std.	S34-01272101/S34-03112101 (4/7)	TZ	1	not using
15	3/16/21 15:16	03162115.D	1000pg S19031621 ICV Std.	S34-01272101/S34-03112101 (4/7)	TZ	1	passed
16	3/16/21 15:47	03162116.D	1000pg S19031621 ICV Std.	S34-01272101/S34-03112101 (4/7)	TZ	1	not using
S19031621.M ranges from 20pg->50k pg except: chloromethane and 1,3-butadiene: 20pg-5k pg, acetone: 500pg->50k pg,							
MTBE: 20pg->5k pg, cis-1,3-dichloropropene: 20pg->25k pg, trans-1,3-dichloropropene: reporting limit raised to 50pg, 50pg->25k pg,							
styrene: 50pg->10k pg, all compounds associated with IS-3 range up to 10k pg							
ICV failed high for 1,3-butadiene							

Injection Log

TZ 3/18/21

Directory: I:\MS19\DATA\2021_03\17\

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	3/17/21 7:49	03172101.D	BFB S19031721	S34-01272101	TZ	1	passed
2	3/17/21 8:12	03172102.D	CCV S19031721 1000pg	S34-01272101/S34-03102102 (4/9)	TZ	16	passed
3	3/17/21 9:03	03172103.D	Blank (100mL)	S34-01272101	TZ	1	
4	3/17/21 9:34	03172104.D	MB S19031721 1000mL	S34-01272101_AS01329	TZ	1	passed
5	3/17/21 10:05	03172105.D	LCS S19031721 1000pg	S34-01272101/S34-03112101 (4/7)	TZ	1	passed
6	3/17/21 10:37	03172106.D	LCSD S19031721 1000pg	S34-01272101/S34-03112101 (4/7)	TZ	1	passed
7	3/17/21 12:04	03172107.D	Blank (100mL)	S34-01272101	TZ	1	
8	3/17/21 12:34	03172108.D	P2101325-001 (1000mL)	S34-01272101	TZ	2	
9	3/17/21 13:05	03172109.D	P2101325-002 (1000mL)	S34-01272101	TZ	3	
10	3/17/21 13:37	03172110.D	P2101196-001 (1000mL)	S34-01272101	TZ	4	carry over;rerun
11	3/17/21 14:08	03172111.D	P2101196-002 (1000mL)	S34-01272101	TZ	5	
12	3/17/21 14:39	03172112.D	P2101325-002dil (20mL)	S34-01272101	TZ	3	
13	3/17/21 15:51	03172113.D	P2101196-003 (1000mL)	S34-01272101	TZ	6	
14	3/17/21 16:22	03172114.D	P2101196-004 (1000mL)	S34-01272101	TZ	7	
15	3/17/21 16:54	03172115.D	P2101196-005 (1000mL)	S34-01272101	TZ	8	
16	3/17/21 17:26	03172116.D	P2101196-006 (1000mL)	S34-01272101	TZ	9	
17	3/17/21 17:57	03172117.D	P2101196-007 (1000mL)	S34-01272101	TZ	10	
18	3/17/21 18:29	03172118.D	P2101196-008 (1000mL)	S34-01272101	TZ	11	
19	3/17/21 19:00	03172119.D	P2101196-008dup (1000mL)	S34-01272101	TZ	11	passed
20	3/17/21 19:32	03172120.D	P2101292-001 (1000mL)	S34-01272101	TZ	12	
21	3/17/21 20:03	03172121.D	P2101292-002 (1000mL)	S34-01272101	TZ	13	
22	3/17/21 20:35	03172122.D	P2101292-003 (1000mL)	S34-01272101	TZ	14	
23	3/17/21 21:06	03172123.D	P2101292-004 (1000mL)	S34-01272101	TZ	15	IS-3 failed
24	3/17/21 21:37	03172124.D	P2101292-005 (1000mL)	S34-01272101	TZ	2	IS-3 failed
25	3/17/21 22:09	03172125.D	P2101292-006 (1000mL)	S34-01272101	TZ	3	
26	3/17/21 22:40	03172126.D	P2101292-007 (1000mL)	S34-01272101	TZ	4	
27	3/17/21 23:11	03172127.D	P2101292-008 (1000mL)	S34-01272101	TZ	5	
28	3/17/21 23:43	03172128.D	Blank (100mL)	S34-01272101	TZ	1	
29	3/18/21 0:15	03172129.D	CCVend S19031721 1000pg	S34-01272101/S34-03102102 (4/9)	TZ	16	passed
30	3/18/21 0:46	03172130.D	CCVend S19031721 1000pg	S34-01272101/S34-03102102 (4/9)	TZ	16	not used
LCS/LCSD: 1,3-butadiene failed high							

SIMIVALLEY QC Certification

Conditioner: P-Conditioner-05

Cycles: 30

Batch: 27031

Batch Started By: on 1/29/21 0342
 Finished Cleaning By: on 1/29/21 0342

Container IDs	Cleaned Date	QC Date Analyzed	QC Results	Initial Vacuum		Final Vacuum		Comments
				Vacuum	Date/Time	Vacuum	Date/Time	
AS00464	1/29/21	2/1/21	Pass w/ Conditions	-14.3	1/29/21 0342			MS21_02/01/21
AS00981	1/29/21	2/1/21	Pass w/ Conditions	-14.3	1/29/21 0342	-14.0	2/10/21 0108	
AC02065	1/29/21	2/1/21	Pass w/ Conditions	-14.3	1/29/21 0342	-14.0	2/8/21 1246	
AC02384	1/29/21	2/1/21	Pass w/ Conditions	-14.3	1/29/21 0342	-14.0	2/10/21 0108	
AS00098	1/29/21	2/1/21	Pass w/ Conditions	-14.3	1/29/21 0342	-14.0	2/10/21 0108	
AS01094	1/29/21	2/1/21	Pass w/ Conditions	-14.3	1/29/21 0342	-14.0	2/10/21 0108	
AS00991	1/29/21	2/1/21	Pass w/ Conditions	-14.3	1/29/21 0342	-14.0	2/9/21 0849	
AC00416	1/29/21	2/1/21	Pass w/ Conditions	-14.3	1/29/21 0342	-14.0	2/10/21 1020	
AC02167	1/29/21	2/1/21	Pass w/ Conditions	-14.3	1/29/21 0342	-14.0	2/10/21 0912	
AC02327	1/29/21	2/1/21	Pass w/ Conditions	-14.3	1/29/21 0342	-14.0	2/10/21 0108	
AC00719	1/29/21	2/1/21	Pass w/ Conditions	-14.3	1/29/21 0342	-14.0	2/10/21 1020	
AS00425	1/29/21	2/1/21	Pass w/ Conditions	-14.3	1/29/21 0342	-14.0	2/10/21 0912	
AS00881	1/29/21	2/1/21	Pass w/ Conditions	-14.3	1/29/21 0342	-14.0	2/10/21 0912	
AS00321	1/29/21	2/1/21	Pass w/ Conditions	-14.3	1/29/21 0342	-14.0	2/9/21 0103	
AS01464	1/29/21	2/1/21	Pass w/ Conditions	-14.3	1/29/21 0342	-14.0	2/10/21 0108	
AS00776	1/29/21	2/1/21	Pass w/ Conditions	-14.3	1/29/21 0342	-14.0	2/9/21 0103	

Passed For: TO-15 (75 Comp 0.1 ug/m3 + TICs)

Exceptions:

COMPONENTID	Date / Time	MODULE	USER	COMMENTS
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Data Path : I:\MS21\DATA\2021 02\01\
 Data File : 02012106.D
 Acq On : 1 Feb 2021 11:12
 Operator : WA\RVT
 Sample : 020121 AS00464 27031
 Misc : LL+TICS (Sig #1); S34-12312004/AS01368 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

RVT 2/2/21

Quant Time: Feb 02 07:10:38 2021
 Quant Method : I:\MS21\Methods\F21103120.M
 Quant Title : EPA TO-15
 QLast Update : Mon Nov 02 07:44:09 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.483	130	83606	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.735	114	227684	1000.00	pg	0.01
56) Chlorobenzene-d5 (IS3)	14.667	54	30814	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.301	65	107764	804.28	pg	0.00
Spiked Amount	1000.000		Recovery	=	80.43%	
57) Toluene-d8 (SS2)	12.577	98	198951	1139.95	pg	0.00
Spiked Amount	1000.000		Recovery	=	114.00%	
74) Bromofluorobenzene (SS3)	16.111	174	82984	954.51	pg	-0.03
Spiked Amount	1000.000		Recovery	=	95.45%	
Target Compounds						
2] * Propene	3.483	42	302	3.75	pg	# 1
3] * Dichlorodifluoromethane	3.543	85	397	1.51	pg	89
4] * Chloromethane	3.672	50	490	4.49	pg	95
5] * 1,2-Dichloro-1,1,2,2...	0.000		0	N.D.		
6] * Vinyl Chloride	3.874	62	58	0.51	pg	# 1
7] * 1,3-Butadiene	3.959	54	59	0.72	pg	# 1
8] * Bromomethane	4.170	94	71	0.72	pg	91
9] * Chloroethane	0.000		0	N.D.		
10] * Ethanol	4.394	45	2188	51.13	pg	89
11] * Acetonitrile	4.571	41	339	3.51	pg	# 58
12] * Acrolein	4.675	56	524	12.24	pg	93
13] * Acetone	4.785	58	6642	116.63	pg	# 56
14] * Trichlorofluoromethane	4.906	101	585	2.27	pg	# 47
15] * 2-Propanol (Isopropa...	4.977	45	892	5.50	pg	# 45
16] * Acrylonitrile	5.137	53	111	1.31	pg	# 7
17] * 1,1-Dichloroethene	5.391	96	313	3.24	pg	95
18] tert-Butanol	5.444	59	54	0.42	pg	# 1
19] * Methylene Chloride	5.517	84	632	6.26	pg	93
20] * 3-Chloro-1-propene (...)	5.619	41	55	0.63	pg	# 27
21] * Trichlorotrifluoroet...	0.000		0	N.D.		
22] * Carbon Disulfide	5.785	76	6009	20.85	pg	99
23] * trans-1,2-Dichloroet...	6.288	96	59	0.68	pg	# 18
24] * 1,1-Dichloroethane	0.000		0	N.D.		
25] * Methyl tert-Butyl Ether	0.000		0	N.D.		
26] * Vinyl Acetate	6.655	86	119	7.28	pg	# 1
27] * 2-Butanone (MEK)	6.921	72	443	8.68	pg	72
28] * cis-1,2-Dichloroethene	7.276	96	51	0.55	pg	# 18
29] DIPE	7.574	45	257	1.25	pg	# 50
30] * Ethyl Acetate	7.574	61	246	8.63	pg	# 43
31] * n-Hexane	7.574	57	116	1.14	pg	# 49
32] * Chloroform	0.000		0	N.D.		
34] * Tetrahydrofuran	0.000		0	N.D.		
35] ETBE	0.000		0	N.D.		
36] * 1,2-Dichloroethane	8.426	62	65	0.46	pg	# 1
38] * 1,1,1-Trichloroethane	0.000		0	N.D.		
39] * Benzene	9.292	78	778	3.14	pg	# 83
40] Isopropyl Acetate	0.000		0	N.D.		
41] 1-Butanol	9.261	56	133	37.96	pg	# 100
42] * Carbon Tetrachloride	0.000		0	N.D.		
43] * Cyclohexane	0.000		0	N.D.		
44] TAME	0.000		0	N.D.		
45] * 1,2-Dichloropropane	0.000		0	N.D.		
46] * Bromodichloromethane	0.000		0	N.D.		
47] * Trichloroethene	0.000		0	N.D.		

Data Path : I:\MS21\DATA\2021 02\01\
 Data File : 02012106.D
 Acq On : 1 Feb 2021 11:12
 Operator : WA\RVT
 Sample : 020121 AS00464 27031
 Misc : LL+TICS (Sig #1); S34-12312004/AS01368 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

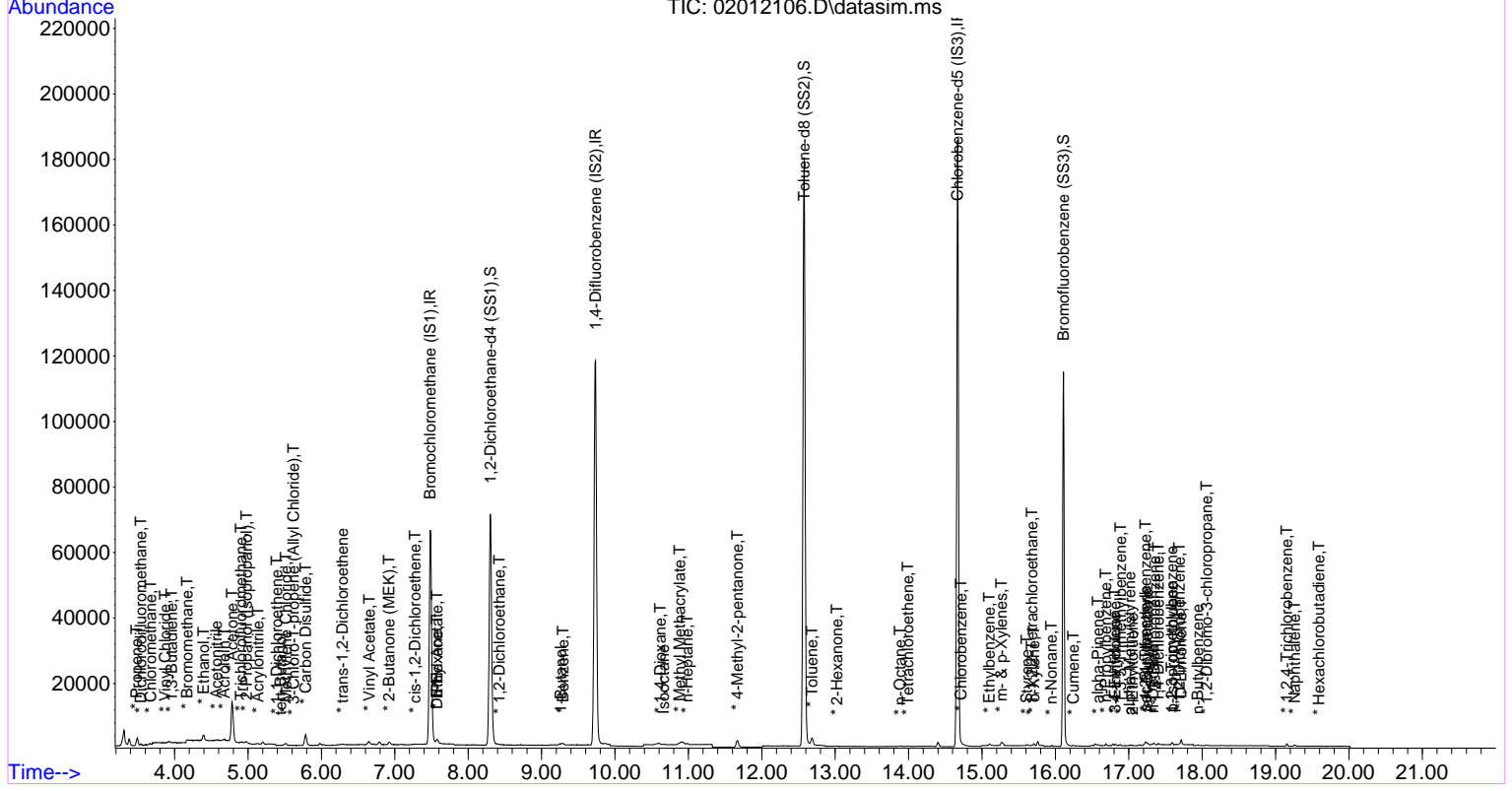
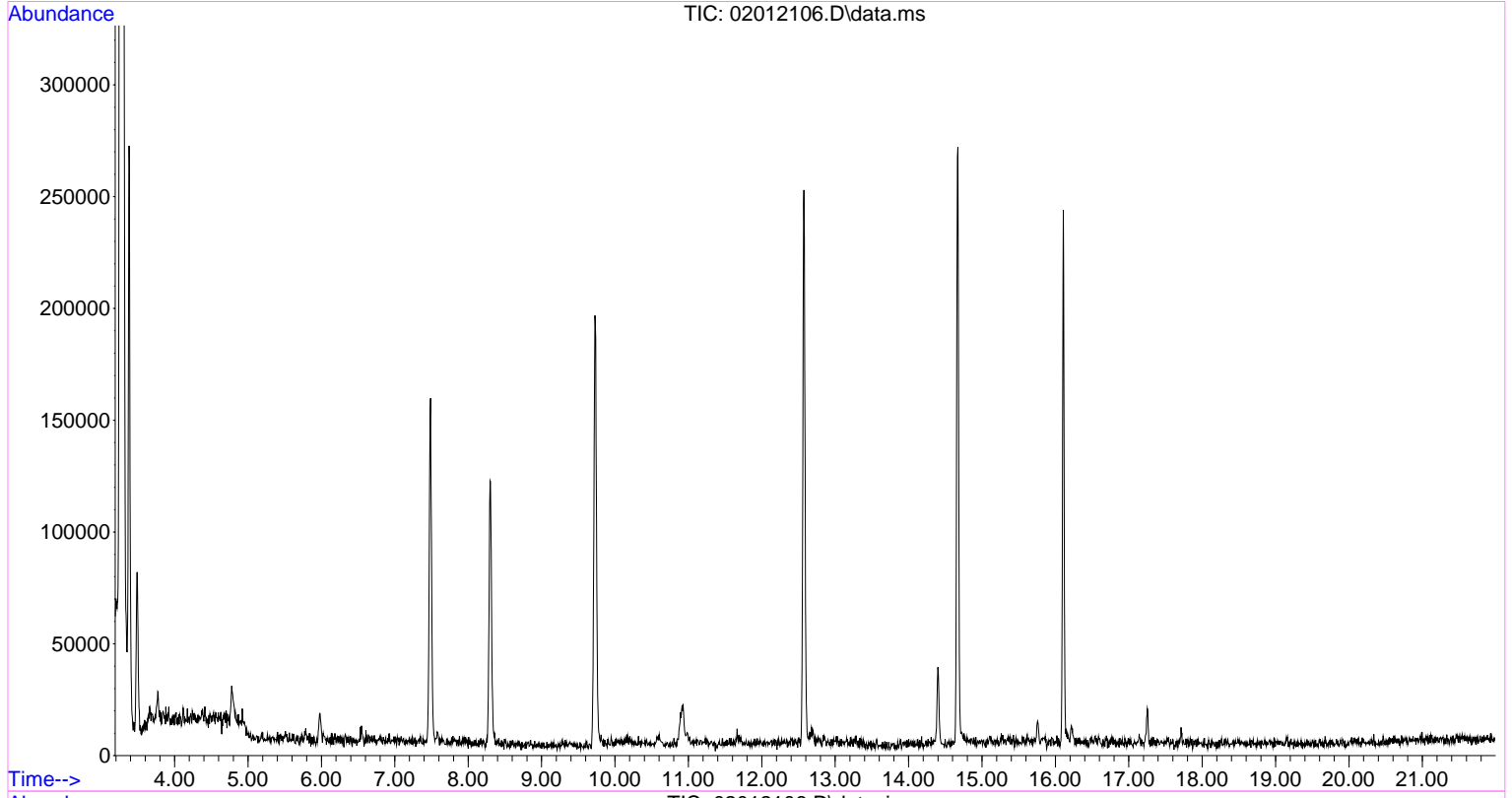
Quant Time: Feb 02 07:10:38 2021
 Quant Method : I:\MS21\Methods\F21103120.M
 Quant Title : EPA TO-15
 QLast Update : Mon Nov 02 07:44:09 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48] * 1,4-Dioxane	10.620	88	78	1.25	pg	# 67
49] Isooctane	10.661	56	150	1.47	pg	# 45
50] * Methyl Methacrylate	10.882	69	72	1.00	pg	# 37
51] * n-Heptane	10.985	71	281	4.01	pg	90
52] * cis-1,3-Dichloropropene	0.000		0	N.D.		
53] * 4-Methyl-2-pentanone	11.667	58	1115	26.13	pg	# 87
54] * trans-1,3-Dichloropr...	0.000		0	N.D.		
55] * 1,1,2-Trichloroethane	0.000		0	N.D.		
58] * Toluene	12.685	91	2487	11.65	pg	98
59] * 2-Hexanone	13.024	58	105	2.56	pg	# 55
60] * Dibromochloromethane	0.000		0	N.D.		
61] * 1,2-Dibromoethane	0.000		0	N.D.		
62] * n-Butyl Acetate	0.000		0	N.D.		
63] * n-Octane	13.881	85	51	1.30	pg	# 64
64] * Tetrachloroethene	13.989	166	92	1.09	pg	87
65] * Chlorobenzene	14.714	112	63	0.39	pg	# 10
66] * Ethylbenzene	15.101	91	515	2.58	pg	# 68
67] * m- & p-Xylenes	15.266	91	1385	8.65	pg	# 85
68] * Bromoform	0.000		0	N.D.		
69] Cyclohexanone	0.000		0	N.D.		
70] * Styrene	15.608	104	180	1.56	pg	# 55
71] * o-Xylene	15.705	91	499	2.99	pg	91
72] * n-Nonane	15.946	57	275	4.30	pg	100
73] * 1,1,2,2-Tetrachloroe...	15.682	83	82	0.76	pg	96
75] * Cumene	16.246	105	163	0.71	pg	# 61
76] * alpha-Pinene	16.581	93	196	2.02	pg	# 83
77] * n-Propylbenzene	16.687	91	414	1.61	pg	97
78] 3-Ethyltoluene	16.814	105	390	74.03	pg	90
79] * 4-Ethyltoluene	16.814	105	379	1.95	pg	95
80] * 1,3,5-Trimethylbenzene	16.886	105	233	1.35	pg	# 82
81] alpha-Methylstyrene	17.012	118	115	45.95	pg	100
82] 2-Ethyltoluene	17.046	105	143	49.65	pg	# 43
83] tert-Butylbenzene	17.251	134	223	5.26	pg	# 1
84] * 1,2,4-Trimethylbenzene	17.229	105	655	3.71	pg	87
85] * Benzyl Chloride	0.000		0	N.D.		
86] * 1,3-Dichlorobenzene	17.348	146	206	1.51	pg	97
87] * 1,4-Dichlorobenzene	17.402	146	227	1.96	pg	# 80
88] n-Decane	17.332	85	53	7.48	pg	# 1
89] sec-Butylbenzene	17.229	105	655	3.71	pg	# 75
90] 1,2,3-Trimethylbenzene	17.586	105	161	12.61	pg	# 1
91] p-Isopropyltoluene	17.591	134	136	2.40	pg	90
92] * 1,2-Dichlorobenzene	17.688	146	193	1.41	pg	# 60
93] * D-Limonene	17.715	68	690	13.29	pg	96
94] n-Butylbenzene	17.941	134	106	2.08	pg	# 58
95] * 1,2-Dibromo-3-chloro...	18.059	157	220	4.62	pg	94
96] n-Undecane	0.000		0	N.D.		
97] * 1,2,4-Trichlorobenzene	19.154	180	568	8.22	pg	83
98] * Naphthalene	19.257	128	445	2.72	pg	# 73
99] n-Dodecane	0.000		0	N.D.		
100] * Hexachlorobutadiene	19.592	225	64	0.76	pg	# 41

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

Data Path : I:\MS21\DATA\2021 02\01\
 Data File : 02012106.D
 Acq On : 1 Feb 2021 11:12
 Operator : WA\RVT
 Sample : 020121 AS00464 27031
 Misc : LL+TICS (Sig #1); S34-12312004/AS01368 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 02 07:10:38 2021
 Quant Method : I:\MS21\Methods\F21103120.M
 Quant Title : EPA TO-15
 QLast Update : Mon Nov 02 07:44:09 2020
 Response via : Initial Calibration



Data Path : I:\MS21\DATA\2021 03\02\
 Data File : 03022128.D
 Acq On : 3 Mar 2021 1:43
 Operator : WA\RVT
 Sample : SC02083
 Misc : 115130 (Sig #1); S34-03012102 (Sig #2)
 ALS Vial : 208 Sample Multiplier: 1

RVT 3/3/21

Quant Time: Mar 03 06:33:26 2021
 Quant Method : I:\MS21\Methods\F21103120.M
 Quant Title : EPA TO-15
 QLast Update : Mon Nov 02 07:44:09 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.483	130	60294	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.729	114	157676	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.660	54	22176	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.301	65	83796	867.20	pg	0.00
Spiked Amount	1000.000		Recovery	=	86.72%	
57) Toluene-d8 (SS2)	12.572	98	140003	1114.66	pg	0.00
Spiked Amount	1000.000		Recovery	=	111.47%	
74) Bromofluorobenzene (SS3)	16.106	174	57049	911.80	pg	-0.04
Spiked Amount	1000.000		Recovery	=	91.18%	
Target Compounds						
2] * Propene	3.483	42	1269	21.83	pg	Qvalue # 26
3] * Dichlorodifluoromethane	3.539	85	3078	16.24	pg	97
4] * Chloromethane	3.668	50	1443	18.34	pg	91
5] * 1,2-Dichloro-1,1,2,2...	3.748	85	96	0.87	pg	# 42
6] * Vinyl Chloride	0.000		0	N.D.		
7] * 1,3-Butadiene	3.959	54	35	0.60	pg	# 1
8] * Bromomethane	0.000		0	N.D.		
9] * Chloroethane	4.306	64	200	5.32	pg	# 67
10] * Ethanol	4.389	45	22911	742.38	pg	100
11] * Acetonitrile	4.566	41	2072	29.75	pg	98
12] * Acrolein	4.665	56	1165	37.72	pg	89
13] * Acetone	4.779	58	28955	704.99	pg	# 44
14] * Trichlorofluoromethane	4.912	101	1770	9.53	pg	99
15] * 2-Propanol (Isopropa...	4.971	45	11321	96.73	pg	93
16] * Acrylonitrile	5.131	53	97	1.58	pg	# 51
17] * 1,1-Dichloroethene	5.449	96	82	1.18	pg	# 31
18] tert-Butanol	5.488	59	1198	12.98	pg	# 26
19] * Methylene Chloride	5.512	84	4170	57.25	pg	96
20] * 3-Chloro-1-propene (...)	0.000		0	N.D.		
21] * Trichlorotrifluoroet...	5.751	151	387	5.19	pg	89
22] * Carbon Disulfide	5.780	76	10060	48.41	pg	99
23] * trans-1,2-Dichloroet...	0.000		0	N.D.		
24] * 1,1-Dichloroethane	0.000		0	N.D.		
25] * Methyl tert-Butyl Ether	0.000		0	N.D.		
26] * Vinyl Acetate	6.649	86	1080	91.67	pg	# 36
27] * 2-Butanone (MEK)	6.916	72	3410	92.70	pg	89
28] * cis-1,2-Dichloroethene	0.000		0	N.D.		
29] DIPE	7.567	45	571	3.85	pg	# 50
30] * Ethyl Acetate	7.574	61	709	34.49	pg	99
31] * n-Hexane	7.567	57	444	6.03	pg	# 83
32] * Chloroform	7.619	83	171	1.37	pg	# 17
34] * Tetrahydrofuran	8.064	71	54	1.93	pg	# 1
35] ETBE	0.000		0	N.D.		
36] * 1,2-Dichloroethane	0.000		0	N.D.		
38] * 1,1,1-Trichloroethane	8.758	97	53	0.67	pg	# 18
39] * Benzene	9.287	78	1967	11.45	pg	# 87
40] Isopropyl Acetate	0.000		0	N.D.		
41] 1-Butanol	9.250	56	1373	565.90	pg	# 100
42] * Carbon Tetrachloride	9.479	117	88	1.16	pg	# 75
43] * Cyclohexane	9.625	84	231	4.46	pg	# 28
44] TAME	0.000		0	N.D.		
45] * 1,2-Dichloropropane	0.000		0	N.D.		
46] * Bromodichloromethane	10.523	83	50	0.60	pg	# 18
47] * Trichloroethene	0.000		0	N.D.		

Data Path : I:\MS21\DATA\2021 03\02\
 Data File : 03022128.D
 Acq On : 3 Mar 2021 1:43
 Operator : WA\RVT
 Sample : SC02083
 Misc : 115130 (Sig #1); S34-03012102 (Sig #2)
 ALS Vial : 208 Sample Multiplier: 1

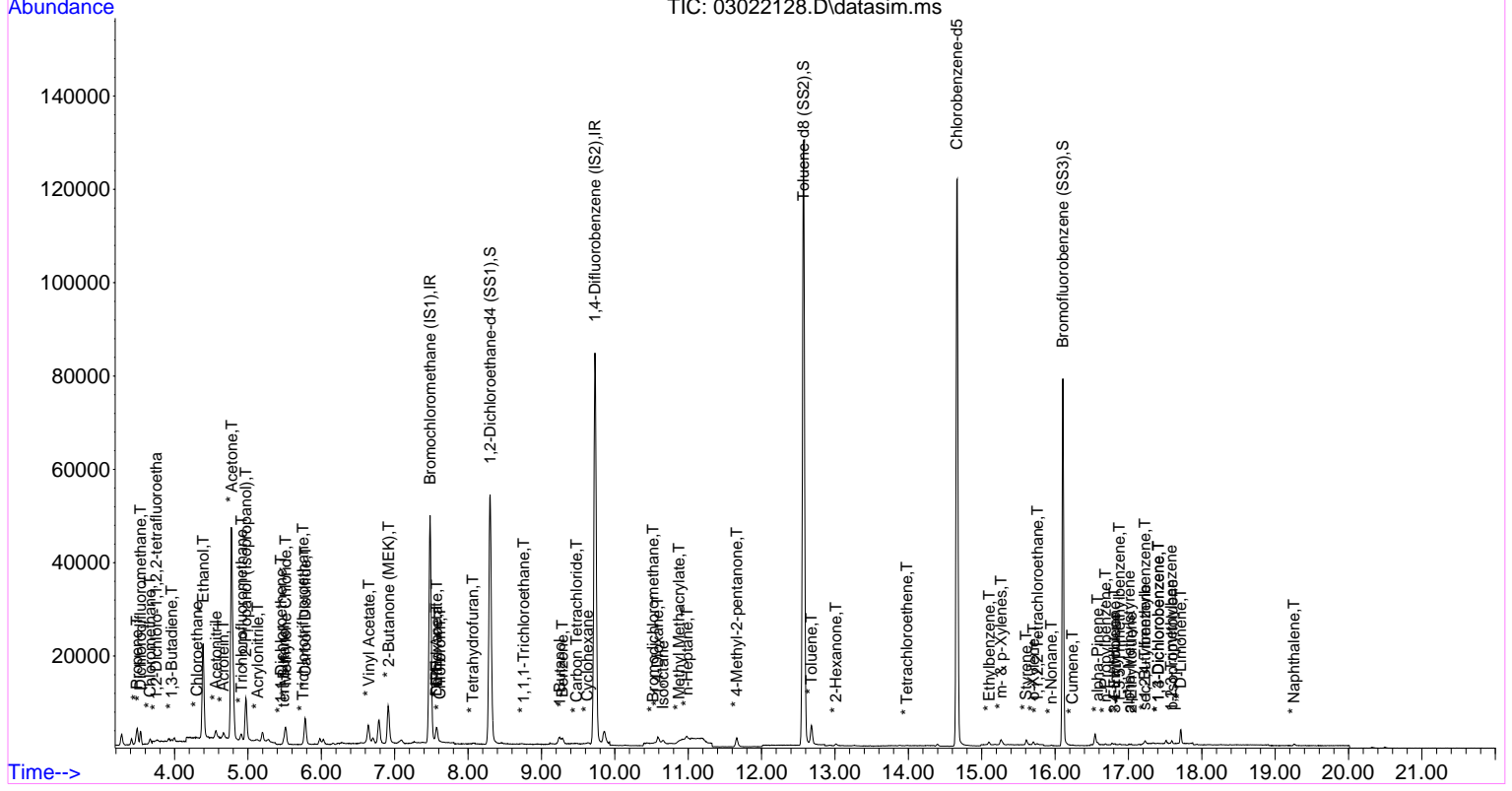
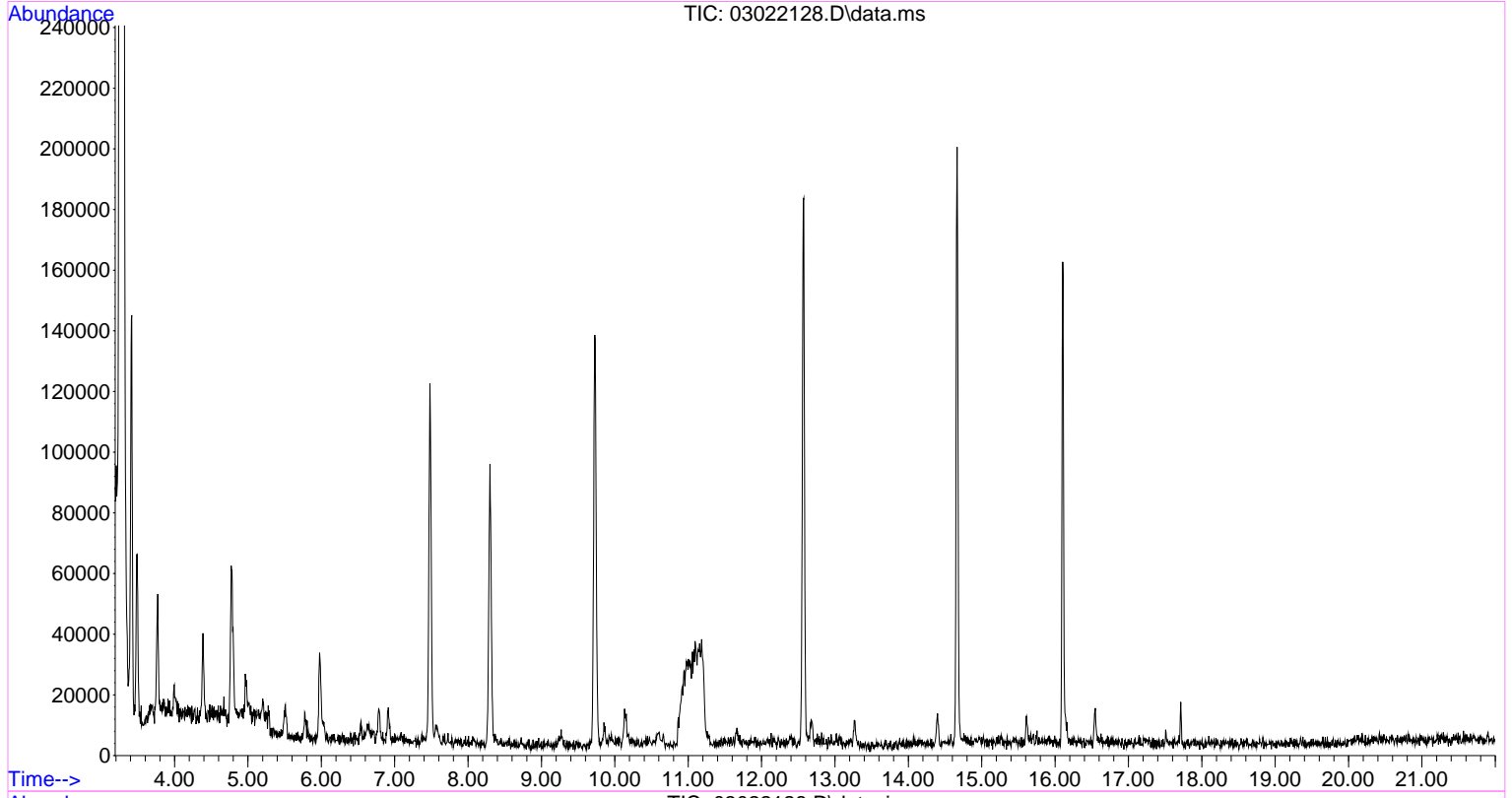
Quant Time: Mar 03 06:33:26 2021
 Quant Method : I:\MS21\Methods\F21103120.M
 Quant Title : EPA TO-15
 QLast Update : Mon Nov 02 07:44:09 2020
 Response via : Initial Calibration

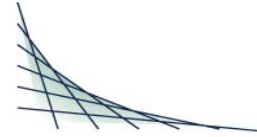
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48] * 1,4-Dioxane	10.585	88	1409	32.56	pg	90
49] Isooctane	10.654	56	563	7.99	pg	# 54
50] * Methyl Methacrylate	10.875	69	83	1.66	pg	# 37
51] * n-Heptane	10.985	71	609	12.55	pg	96
52] * cis-1,3-Dichloropropene	0.000		0	N.D.		
53] * 4-Methyl-2-pentanone	11.661	58	1040	35.19	pg	94
54] * trans-1,3-Dichloropr...	0.000		0	N.D.		
55] * 1,1,2-Trichloroethane	0.000		0	N.D.		
58] * Toluene	12.680	91	4782	31.13	pg	99
59] * 2-Hexanone	13.013	58	671	22.74	pg	97
60] * Dibromochloromethane	0.000		0	N.D.		
61] * 1,2-Dibromoethane	0.000		0	N.D.		
62] * n-Butyl Acetate	0.000		0	N.D.		
63] * n-Octane	0.000		0	N.D.		
64] * Tetrachloroethene	13.979	166	74	1.21	pg	# 10
65] * Chlorobenzene	0.000		0	N.D.		
66] * Ethylbenzene	15.101	91	696	4.85	pg	92
67] * m- & p-Xylenes	15.266	91	1394	12.10	pg	89
68] * Bromoform	0.000		0	N.D.		
69] Cyclohexanone	0.000		0	N.D.		
70] * Styrene	15.603	104	551	6.65	pg	98
71] * o-Xylene	15.705	91	518	4.32	pg	92
72] * n-Nonane	15.951	57	133	2.89	pg	# 85
73] * 1,1,2,2-Tetrachloroe...	15.762	83	63	0.81	pg	# 17
75] * Cumene	16.236	105	90	0.55	pg	# 48
76] * alpha-Pinene	16.581	93	269	3.86	pg	# 58
77] * n-Propylbenzene	16.687	91	213	1.15	pg	# 52
78] 3-Ethyltoluene	16.813	105	173	45.63	pg	# 42
79] * 4-Ethyltoluene	16.813	105	150	1.07	pg	# 44
80] * 1,3,5-Trimethylbenzene	16.877	105	155	1.25	pg	# 27
81] alpha-Methylstyrene	17.008	118	68	37.76	pg	# 63
82] 2-Ethyltoluene	17.037	105	135	65.14	pg	# 43
83] tert-Butylbenzene	0.000		0	N.D.		
84] * 1,2,4-Trimethylbenzene	17.224	105	480	3.78	pg	87
85] * Benzyl Chloride	0.000		0	N.D.		
86] * 1,3-Dichlorobenzene	17.407	146	70	0.71	pg	# 75
87] * 1,4-Dichlorobenzene	17.407	146	70	0.84	pg	# 75
88] n-Decane	0.000		0	N.D.		
89] sec-Butylbenzene	17.224	105	480	3.78	pg	# 54
90] 1,2,3-Trimethylbenzene	17.580	105	160	17.42	pg	# 1
91] p-Isopropyltoluene	17.596	134	125	3.07	pg	90
92] * 1,2-Dichlorobenzene	0.000		0	N.D.		
93] * D-Limonene	17.715	68	1327	35.52	pg	95
94] n-Butylbenzene	0.000		0	N.D.		
95] * 1,2-Dibromo-3-chloro...	0.000		0	N.D.		
96] n-Undecane	0.000		0	N.D.		
97] * 1,2,4-Trichlorobenzene	0.000		0	N.D.		
98] * Naphthalene	19.257	128	441	3.75	pg	99
99] n-Dodecane	0.000		0	N.D.		
100] * Hexachlorobutadiene	0.000		0	N.D.		

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

Data Path : I:\MS21\DATA\2021 03\02\
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 Acq On : 3 Mar 2021 1:43
 Operator : WA\RVT
 Sample : SC02083
 Misc : 115130 (Sig #1); S34-03012102 (Sig #2)
 ALS Vial : 208 Sample Multiplier: 1

Quant Time: Mar 03 06:33:26 2021
 Quant Method : I:\MS21\Methods\F21103120.M
 Quant Title : EPA TO-15
 QLast Update : Mon Nov 02 07:44:09 2020
 Response via : Initial Calibration





ANALYTICAL RESULTS FOR:

**KARL SCHULTZ
TETRA TECH
1 S WACKER DRIVE
SUITE 3700
CHICAGO, IL 60606**

PROJECT SITE: Martinizing Dry Cleaners; Green Bay, WI
SUBCONTRACT / PO #: 1168710 / CT-28
PROJECT #: 103X903100320001BI103
SDG: 160295
PREPARED: March 26, 2021
TOTAL # OF PAGES: 196

The data contained in the following report have been reviewed by the appropriate CT Laboratories' LLC staff members. In addition, CT Laboratories LLC certifies that to the best of our knowledge that the analyses reported herein are true, complete and correct within the limits of the methods employed and that they follow the applicable requirements as specified by the project plan, state-specific, NELAC or DOD QSM requirements. The estimated uncertainty of measurement is only available upon request. The reported results relate only to the tested samples. This report shall not be reproduced, except in full, without written approval of CT Laboratories LLC.

APPROVED BY:

PROJECT MANAGER

Certifications: IL (NELAP 200073), KS (NELAP E-10368), WI (157066030), DOD ELAP (A2LA 3806.01), VA (NELAP 4602038), MD (WI 00061), LA (NELAP ACC20160002), ISO17025 (A2LA 3806.01), GA EDP Stipulation (Accreditor: LA NELAP, ACC#: ACC20160002, Scope: Non-potable water solid and chemical materials, biological tissue, Effective: 12/10/2014, Expires: annually)

CT Laboratories LLC • 230 Lange Court • Baraboo, WI 53913 • 608-356-2760
www.ctlaboratories.com
• 608-356-2760



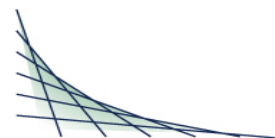


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Case Narrative

Client: Tetra Tech

Project: Martinizing Dry Cleaners Site; Green Bay, WI

Sample Receipt Date: 03/11/2021

SDG #: 160295

Two water samples and one Trip Blank were received for VOC analysis. The assigned sample ID numbers, date sampled, and date received are indicated in the attached Project Summary. The samples were received intact and at a temperature within method specified acceptance limits unless specifically stated otherwise in this case narrative or in the sample receipt documents.

Manual integrations may have been performed on the data provided with this package. If manual integrations were performed, a reason #(s) was included on the raw data that corresponds to the "Index Key for Manual Integration Rationale". The raw data includes a "Before" and "After" manual integration illustration. The manual integrations were initialed and dated by the analyst, as well as, by the person reviewing the data.

Sample Analysis and Quality Control

Volatile Analysis:

The samples were analyzed using US EPA Method 8260C (VOC). All samples were analyzed within the holding time. The following summaries of quality control procedures are included:

- Surrogate Recovery Data
- Matrix Spike/Matrix Spike Duplicate Recovery Data
- Laboratory Control Spike Data
- Method Blank Data
- Initial Calibration Summary
- Calibration Check Summary
- Analysis Run Log
- Prep Log
- Chromatograms

All analysis results met the method/project specified quality control criteria with following exceptions:

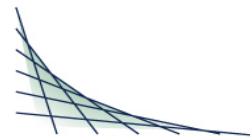
Detailed reports were provided for the 8260 data for all detected compounds, as well as, for those compounds manually integrated (if applicable). Compounds not reported on the form 1's were either not detected or did not meet identification criteria so they were reported as non-detects.

Some samples may have been analyzed and/or reanalyzed diluted to obtain results for all target compounds within the calibration range of the instrument.

VOC (8260C) Water Analysis

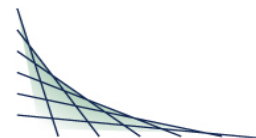
Analytical Run # 180019

Chlorobenzene was detected in the Method Blank (MB). This compound was not detected in the associated samples so the data were not qualified.



Data Qualifiers

Code	Description
A	Analyte averaged calibration criteria within acceptable limits.
B	Analyte detected in associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was not above the detection level.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Calibration criteria exceeded.



MANUAL INTEGRATION REASON CODES

CTLaboratories has identified four general cases with valid reasons supporting the use of manual integration techniques. These codes are used on chromatograms in this data package to document the reasons for manual integrations per CTLaboratories' SOP SS-10 current revision.

#1: Data system failed to select the correct peak or missed the peak entirely.

In some cases the chromatography system selects and integrates the "wrong peak". In this case the analyst must correct the selection and force the system to integrate the proper peak. In other instances the system may miss the peak completely. In this case the analyst manually integrated the peak

#2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak.

This phenomenon is common at low concentrations where the signal to noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low or high area counts for the target compound.

#3: Improperly Integrated Isomers and/or coeluting compounds.

For when the system fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations may be inaccurate, and they must be corrected by manual integration. Prime examples are compounds that are unresolved and integrated improperly when present at low concentrations in standards or samples.

#4: System Established Incorrect Baseline.

There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and may be corrected via manual procedures.

#5: Miscellaneous.

Some situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the group supervisor. If the form of manual integration is not clearly covered by these four cases, then review and approval by the group supervisor or the QA/QC Supervisor will be required.

Sample Delivery Group
160295

TETRA TECH
 KARL SCHULTZ
 2201 E ENTERPRISE AVENUE
 SUITE 105
 APPLETON, WI 54913

Project Name: MARTINIZING DRY CLEANERS SITE
 Project #: 103X903100320001BI103

	CT Sample #	Folder #	Client Sample #	Sample Description	Matrix	Date Sampled	Date Received
1	540257	160295		MDC-1216-SUMP-20210310	GROUND WATER	03/10/2021	03/11/2021
2	540258	160295		MDC-1219-SUMP2-20210310	GROUND WATER	03/10/2021	03/11/2021
3	540259	160295		TRIP BLANK	TRIP BLANK	03/10/2021	03/11/2021

QC Batch Cross Reference Summary

TETRA TECH
 KARL SCHULTZ
 2201 E ENTERPRISE AVENUE
 SUITE 105
 APPLETON, WI 54913

Project Name: MARTINIZING DRY CLEANERS
 Project #: 103X903100320001BI103
 Report Date: 03/26/2021
 Date Received: 03/11/2021
 SDG #: 160295

Organic Parameters

CTI LAB#:	Parameter	Method	Matrix	Prep Batch #	Analytical Run #
540257	VOC's by 8260 QSM	EPA 8260C	GROUND WATER		179961
540258	VOC's by 8260 QSM	EPA 8260C	GROUND WATER		179961
540259	VOC's by 8260 QSM	EPA 8260C	TRIP BLANK		179961

**VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL SUMMARY
DOCUMENTS**



1A

VOLATILE ORGANICS ANALYSIS

Sample Description

MDC-1216-SUMP-20210310

Lab Name: CT Laboratories Contract: TETRA TECH-MARTINIZING DRY CLEANERS SITE
 Matrix: GROUND WATER SDG No.: 160295
 Sample wt/vol: _____ (g/mL) CTL Sample ID: 540257
 % Solids: _____ Date Received: 03/11/2021
 Soil Extract Vol: _____ (mL) Date/Time Prepared: _____ / _____
 Analytical Method: EPA 8260C Analytical Prep Batch # _____
 Analytical Run #: 179961 Dilution Factor: 1.00
 Date & Time Analyzed: 03/16/2021 / 09:48 GPC Cleanup Date/Time: _____ / _____
 TCLP / SPLP / MLP or ASTM Procedure Extraction Date (if applicable): _____ / _____
 ICAL Calibration #: W031121. Concentration Units: ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.38	1.0	1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.36	1.0	1.0	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.27	1.0	1.0	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.28	1.0	1.0	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.49	1.0	2.0	2.0
87-61-6	1,2,3-Trichlorobenzene	1.0	U	0.43	1.0	2.0	2.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	2.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U	0.50	1.0	2.0	2.0
106-93-4	1,2-Dibromoethane	1.0	U	0.33	1.0	1.0	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.35	1.0	1.0	1.0
107-06-2	1,2-Dichloroethane	2.0	U	0.69	2.0	2.0	2.0
78-87-5	1,2-Dichloropropane	1.0	U	0.37	1.0	1.0	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.30	1.0	1.0	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.33	1.0	1.0	1.0
78-93-3	2-Butanone	10	U	2.9	10	10	10
591-78-6	2-Hexanone	10	U	3.3	10	10	10
108-10-1	4-Methyl-2-pentanone	10	U	3.7	10	10	10
67-64-1	Acetone	10	U	4.1	10	20	20
71-43-2	Benzene	1.0	U	0.47	1.0	2.0	2.0
74-97-5	Bromochloromethane	1.0	U	0.26	1.0	1.0	1.0
75-27-4	Bromodichloromethane	0.60	U	0.29	0.60	1.0	1.0
75-25-2	Bromoform	1.0	U	0.50	1.0	2.0	2.0
74-83-9	Bromomethane	1.0	U	0.49	1.0	2.0	2.0
75-15-0	Carbon disulfide	2.0	U	0.83	2.0	4.0	4.0



1A

VOLATILE ORGANICS ANALYSIS

Sample Description

MDC-1216-SUMP-20210310

Lab Name:	<u>CT Laboratories</u>	Contract:	<u>TETRA TECH-MARTINIZING DRY CLEANERS SITE</u>
Matrix:	<u>GROUND WATER</u>	SDG No.:	<u>160295</u>
Sample wt/vol:	<u>(g/mL)</u>	CTL Sample ID:	<u>540257</u>
% Solids:	<u></u>	Date Received:	<u>03/11/2021</u>
Soil Extract Vol:	<u>(mL)</u>	Date/Time Prepared:	<u>/</u>
Analytical Method:	<u>EPA 8260C</u>	Analytical Prep Batch #	<u></u>
Analytical Run #:	<u>179961</u>	Dilution Factor:	<u>1.00</u>
Date & Time Analyzed:	<u>03/16/2021 / 09:48</u>	GPC Cleanup Date/Time:	<u>/</u>
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (if applicable):	<u></u>		<u>/</u>
ICAL Calibration #:	<u>W031121.</u>	Concentration Units:	<u>ug/L</u>

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
56-23-5	Carbon tetrachloride	1.0	U	0.37	1.0	1.0	1.0
108-90-7	Chlorobenzene	1.0	U	0.37	1.0	1.0	1.0
75-00-3	Chloroethane	1.0	U	0.36	1.0	2.0	2.0
67-66-3	Chloroform	1.0	U	0.46	1.0	1.0	1.0
74-87-3	Chloromethane	1.0	U	0.39	1.0	2.0	2.0
156-59-2	cis-1,2-Dichloroethene	1.0	U	0.41	1.0	1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.34	1.0	1.0	1.0
110-82-7	Cyclohexane	2.0	U	0.71	2.0	2.0	2.0
124-48-1	Dibromochloromethane	1.0	U	0.35	1.0	1.0	1.0
75-71-8	Dichlorodifluoromethane	2.0	U	0.63	2.0	2.0	2.0
100-41-4	Ethylbenzene	1.0	U	0.42	1.0	1.0	1.0
76-13-1	Freon 113	4.0	U	1.5	4.0	4.0	4.0
98-82-8	Isopropylbenzene	1.0	U	0.39	1.0	1.0	1.0
179601-23-1	m & p-Xylene	2.0	U	0.74	2.0	2.0	2.0
79-20-9	Methyl Acetate	1.0	U	0.34	1.0	2.0	2.0
1634-04-4	Methyl tert-butyl ether	1.0	U	0.28	1.0	1.0	1.0
108-87-2	Methylcyclohexane	2.0	U	0.78	2.0	2.0	2.0
75-09-2	Methylene chloride	4.0	U	1.2	4.0	4.0	4.0
95-47-6	o-Xylene	2.0	U	0.72	2.0	2.0	2.0
100-42-5	Styrene	1.0	U	0.33	1.0	1.0	1.0
127-18-4	Tetrachloroethene	1.0	U	0.54	1.0	2.0	2.0
108-88-3	Toluene	1.0	U	0.27	1.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	0.35	1.0	1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	2.0	U	0.56	2.0	2.0	2.0



1A

VOLATILE ORGANICS ANALYSIS

Sample Description

MDC-1216-SUMP-20210310

Lab Name: CT Laboratories Contract: TETRA TECH-MARTINIZING DRY CLEANERS SITE
 Matrix: GROUND WATER SDG No.: 160295
 Sample wt/vol: _____ (g/mL) CTL Sample ID: 540257
 % Solids: _____ Date Received: 03/11/2021
 Soil Extract Vol: _____ (mL) Date/Time Prepared: /
 Analytical Method: EPA 8260C Analytical Prep Batch # _____
 Analytical Run #: 179961 Dilution Factor: 1.00
 Date & Time Analyzed: 03/16/2021 / 09:48 GPC Cleanup Date/Time: /
 TCLP / SPLP / MLP or ASTM Procedure Extraction Date (if applicable): /
 ICAL Calibration #: W031121. Concentration Units: ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
79-01-6	Trichloroethene	1.0	U	0.39	1.0	1.0	1.0
75-69-4	Trichlorofluoromethane	1.0	U	0.41	1.0	2.0	2.0
75-01-4	Vinyl chloride	0.30	U	0.14	0.30	0.60	0.60



1A

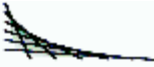
VOLATILE ORGANICS ANALYSIS

Sample Description

MDC-1219-SUMP2-20210310

Lab Name:	<u>CT Laboratories</u>	Contract:	<u>TETRA TECH-MARTINIZING DRY CLEANERS SITE</u>
Matrix:	<u>GROUND WATER</u>	SDG No.:	<u>160295</u>
Sample wt/vol:	<u>(g/mL)</u>	CTL Sample ID:	<u>540258</u>
% Solids:	<u></u>	Date Received:	<u>03/11/2021</u>
Soil Extract Vol:	<u>(mL)</u>	Date/Time Prepared:	<u>/</u>
Analytical Method:	<u>EPA 8260C</u>	Analytical Prep Batch #	<u></u>
Analytical Run #:	<u>179961</u>	Dilution Factor:	<u>1.00</u>
Date & Time Analyzed:	<u>03/16/2021 / 10:18</u>	GPC Cleanup Date/Time:	<u>/</u>
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (if applicable):	<u></u>		<u>/</u>
ICAL Calibration #:	<u>W031121.</u>	Concentration Units:	<u>ug/L</u>

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.38	1.0	1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.36	1.0	1.0	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.27	1.0	1.0	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.28	1.0	1.0	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.49	1.0	2.0	2.0
87-61-6	1,2,3-Trichlorobenzene	1.0	U	0.43	1.0	2.0	2.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	2.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U	0.50	1.0	2.0	2.0
106-93-4	1,2-Dibromoethane	1.0	U	0.33	1.0	1.0	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.35	1.0	1.0	1.0
107-06-2	1,2-Dichloroethane	2.0	U	0.69	2.0	2.0	2.0
78-87-5	1,2-Dichloropropane	1.0	U	0.37	1.0	1.0	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.30	1.0	1.0	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.33	1.0	1.0	1.0
78-93-3	2-Butanone	10	U	2.9	10	10	10
591-78-6	2-Hexanone	10	U	3.3	10	10	10
108-10-1	4-Methyl-2-pentanone	10	U	3.7	10	10	10
67-64-1	Acetone	10	U	4.1	10	20	20
71-43-2	Benzene	1.0	U	0.47	1.0	2.0	2.0
74-97-5	Bromochloromethane	1.0	U	0.26	1.0	1.0	1.0
75-27-4	Bromodichloromethane	0.79	J	0.29	0.60	1.0	1.0
75-25-2	Bromoform	1.0	U	0.50	1.0	2.0	2.0
74-83-9	Bromomethane	1.0	U	0.49	1.0	2.0	2.0
75-15-0	Carbon disulfide	2.0	U	0.83	2.0	4.0	4.0



1A

VOLATILE ORGANICS ANALYSIS

Sample Description

MDC-1219-SUMP2-20210310

Lab Name: CT Laboratories Contract: TETRA TECH-MARTINIZING DRY CLEANERS SITE
 Matrix: GROUND WATER SDG No.: 160295
 Sample wt/vol: _____ (g/mL) CTL Sample ID: 540258
 % Solids: _____ Date Received: 03/11/2021
 Soil Extract Vol: _____ (mL) Date/Time Prepared: _____ / _____
 Analytical Method: EPA 8260C Analytical Prep Batch # _____
 Analytical Run #: 179961 Dilution Factor: 1.00
 Date & Time Analyzed: 03/16/2021 / 10:18 GPC Cleanup Date/Time: _____ / _____
 TCLP / SPLP / MLP or ASTM Procedure Extraction Date (if applicable): _____ / _____
 ICAL Calibration #: W031121. Concentration Units: ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
56-23-5	Carbon tetrachloride	1.0	U	0.37	1.0	1.0	1.0
108-90-7	Chlorobenzene	1.0	U	0.37	1.0	1.0	1.0
75-00-3	Chloroethane	1.0	U	0.36	1.0	2.0	2.0
67-66-3	Chloroform	1.2		0.46	1.0	1.0	1.0
74-87-3	Chloromethane	0.67	J	0.39	1.0	2.0	2.0
156-59-2	cis-1,2-Dichloroethene	1.0	U	0.41	1.0	1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.34	1.0	1.0	1.0
110-82-7	Cyclohexane	2.0	U	0.71	2.0	2.0	2.0
124-48-1	Dibromochloromethane	0.51	J	0.35	1.0	1.0	1.0
75-71-8	Dichlorodifluoromethane	2.0	U	0.63	2.0	2.0	2.0
100-41-4	Ethylbenzene	1.0	U	0.42	1.0	1.0	1.0
76-13-1	Freon 113	4.0	U	1.5	4.0	4.0	4.0
98-82-8	Isopropylbenzene	1.0	U	0.39	1.0	1.0	1.0
179601-23-1	m & p-Xylene	2.0	U	0.74	2.0	2.0	2.0
79-20-9	Methyl Acetate	1.0	U	0.34	1.0	2.0	2.0
1634-04-4	Methyl tert-butyl ether	1.0	U	0.28	1.0	1.0	1.0
108-87-2	Methylcyclohexane	2.0	U	0.78	2.0	2.0	2.0
75-09-2	Methylene chloride	3.3	J	1.2	4.0	4.0	4.0
95-47-6	o-Xylene	2.0	U	0.72	2.0	2.0	2.0
100-42-5	Styrene	1.0	U	0.33	1.0	1.0	1.0
127-18-4	Tetrachloroethene	1.7	J	0.54	1.0	2.0	2.0
108-88-3	Toluene	1.0	U	0.27	1.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	0.35	1.0	1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	2.0	U	0.56	2.0	2.0	2.0



1A

VOLATILE ORGANICS ANALYSIS

Sample Description

MDC-1219-SUMP2-20210310

Lab Name:	<u>CT Laboratories</u>	Contract:	<u>TETRA TECH-MARTINIZING DRY CLEANERS SITE</u>
Matrix:	<u>GROUND WATER</u>	SDG No.:	<u>160295</u>
Sample wt/vol:	<u>(g/mL)</u>	CTL Sample ID:	<u>540258</u>
% Solids:	<u></u>	Date Received:	<u>03/11/2021</u>
Soil Extract Vol:	<u>(mL)</u>	Date/Time Prepared:	<u>/</u>
Analytical Method:	<u>EPA 8260C</u>	Analytical Prep Batch #	<u></u>
Analytical Run #:	<u>179961</u>	Dilution Factor:	<u>1.00</u>
Date & Time Analyzed:	<u>03/16/2021 / 10:18</u>	GPC Cleanup Date/Time:	<u>/</u>
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (if applicable):	<u></u>		<u>/</u>
ICAL Calibration #:	<u>W031121.</u>	Concentration Units:	<u>ug/L</u>

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
79-01-6	Trichloroethene	1.0	U	0.39	1.0	1.0	1.0
75-69-4	Trichlorofluoromethane	1.0	U	0.41	1.0	2.0	2.0
75-01-4	Vinyl chloride	0.30	U	0.14	0.30	0.60	0.60



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VOLATILE ORGANICS ANALYSIS

Sample Description

TRIP BLANK

Lab Name:	<u>CT Laboratories</u>	Contract:	<u>TETRA TECH-MARTINIZING DRY CLEANERS SITE</u>
Matrix:	<u>TRIP BLANK</u>	SDG No.:	<u>160295</u>
Sample wt/vol:	<u>(g/mL)</u>	CTL Sample ID:	<u>540259</u>
% Solids:	<u></u>	Date Received:	<u>03/11/2021</u>
Soil Extract Vol:	<u>(mL)</u>	Date/Time Prepared:	<u>/</u>
Analytical Method:	<u>EPA 8260C</u>	Analytical Prep Batch #	<u></u>
Analytical Run #:	<u>179961</u>	Dilution Factor:	<u>1.00</u>
Date & Time Analyzed:	<u>03/15/2021 / 11:38</u>	GPC Cleanup Date/Time:	<u>/</u>
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (if applicable):	<u></u>		<u>/</u>
ICAL Calibration #:	<u>W031121.</u>	Concentration Units:	<u>ug/L</u>

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.38	1.0	1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.36	1.0	1.0	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.27	1.0	1.0	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.28	1.0	1.0	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.49	1.0	2.0	2.0
87-61-6	1,2,3-Trichlorobenzene	1.0	U	0.43	1.0	2.0	2.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	2.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U	0.50	1.0	2.0	2.0
106-93-4	1,2-Dibromoethane	1.0	U	0.33	1.0	1.0	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.35	1.0	1.0	1.0
107-06-2	1,2-Dichloroethane	2.0	U	0.69	2.0	2.0	2.0
78-87-5	1,2-Dichloropropane	1.0	U	0.37	1.0	1.0	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.30	1.0	1.0	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.33	1.0	1.0	1.0
78-93-3	2-Butanone	10	U	2.9	10	10	10
591-78-6	2-Hexanone	10	U	3.3	10	10	10
108-10-1	4-Methyl-2-pentanone	10	U	3.7	10	10	10
67-64-1	Acetone	10	U	4.1	10	20	20
71-43-2	Benzene	1.0	U	0.47	1.0	2.0	2.0
74-97-5	Bromochloromethane	1.0	U	0.26	1.0	1.0	1.0
75-27-4	Bromodichloromethane	0.60	U	0.29	0.60	1.0	1.0
75-25-2	Bromoform	1.0	U	0.50	1.0	2.0	2.0
74-83-9	Bromomethane	1.0	U	0.49	1.0	2.0	2.0
75-15-0	Carbon disulfide	2.0	U	0.83	2.0	4.0	4.0



1A

VOLATILE ORGANICS ANALYSIS

Sample Description

TRIP BLANK

Lab Name:	<u>CT Laboratories</u>	Contract:	<u>TETRA TECH-MARTINIZING DRY CLEANERS SITE</u>
Matrix:	<u>TRIP BLANK</u>	SDG No.:	<u>160295</u>
Sample wt/vol:	<u>(g/mL)</u>	CTL Sample ID:	<u>540259</u>
% Solids:	<u></u>	Date Received:	<u>03/11/2021</u>
Soil Extract Vol:	<u>(mL)</u>	Date/Time Prepared:	<u>/</u>
Analytical Method:	<u>EPA 8260C</u>	Analytical Prep Batch #	<u></u>
Analytical Run #:	<u>179961</u>	Dilution Factor:	<u>1.00</u>
Date & Time Analyzed:	<u>03/15/2021 / 11:38</u>	GPC Cleanup Date/Time:	<u>/</u>
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (if applicable):	<u></u>		<u>/</u>
ICAL Calibration #:	<u>W031121.</u>	Concentration Units:	<u>ug/L</u>

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
56-23-5	Carbon tetrachloride	1.0	U	0.37	1.0	1.0	1.0
108-90-7	Chlorobenzene	1.0	U	0.37	1.0	1.0	1.0
75-00-3	Chloroethane	1.0	U	0.36	1.0	2.0	2.0
67-66-3	Chloroform	1.0	U	0.46	1.0	1.0	1.0
74-87-3	Chloromethane	1.0	U	0.39	1.0	2.0	2.0
156-59-2	cis-1,2-Dichloroethene	1.0	U	0.41	1.0	1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.34	1.0	1.0	1.0
110-82-7	Cyclohexane	2.0	U	0.71	2.0	2.0	2.0
124-48-1	Dibromochloromethane	1.0	U	0.35	1.0	1.0	1.0
75-71-8	Dichlorodifluoromethane	2.0	U	0.63	2.0	2.0	2.0
100-41-4	Ethylbenzene	1.0	U	0.42	1.0	1.0	1.0
76-13-1	Freon 113	4.0	U	1.5	4.0	4.0	4.0
98-82-8	Isopropylbenzene	1.0	U	0.39	1.0	1.0	1.0
179601-23-1	m & p-Xylene	2.0	U	0.74	2.0	2.0	2.0
79-20-9	Methyl Acetate	1.0	U	0.34	1.0	2.0	2.0
1634-04-4	Methyl tert-butyl ether	1.0	U	0.28	1.0	1.0	1.0
108-87-2	Methylcyclohexane	2.0	U	0.78	2.0	2.0	2.0
75-09-2	Methylene chloride	4.0	U	1.2	4.0	4.0	4.0
95-47-6	o-Xylene	2.0	U	0.72	2.0	2.0	2.0
100-42-5	Styrene	1.0	U	0.33	1.0	1.0	1.0
127-18-4	Tetrachloroethene	1.0	U	0.54	1.0	2.0	2.0
108-88-3	Toluene	1.0	U	0.27	1.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	0.35	1.0	1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	2.0	U	0.56	2.0	2.0	2.0



1A

VOLATILE ORGANICS ANALYSIS

Sample Description

TRIP BLANK

Lab Name:	<u>CT Laboratories</u>	Contract:	<u>TETRA TECH-MARTINIZING DRY CLEANERS SITE</u>
Matrix:	<u>TRIP BLANK</u>	SDG No.:	<u>160295</u>
Sample wt/vol:	<u>(g/mL)</u>	CTL Sample ID:	<u>540259</u>
% Solids:	<u></u>	Date Received:	<u>03/11/2021</u>
Soil Extract Vol:	<u>(mL)</u>	Date/Time Prepared:	<u>/</u>
Analytical Method:	<u>EPA 8260C</u>	Analytical Prep Batch #	<u></u>
Analytical Run #:	<u>179961</u>	Dilution Factor:	<u>1.00</u>
Date & Time Analyzed:	<u>03/15/2021 / 11:38</u>	GPC Cleanup Date/Time:	<u>/</u>
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (if applicable):	<u></u>		<u>/</u>
ICAL Calibration #:	<u>W031121.</u>	Concentration Units:	<u>ug/L</u>

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
79-01-6	Trichloroethene	1.0	U	0.39	1.0	1.0	1.0
75-69-4	Trichlorofluoromethane	1.0	U	0.41	1.0	2.0	2.0
75-01-4	Vinyl chloride	0.30	U	0.14	0.30	0.60	0.60



1A-2

VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description

METHOD BLANK

Lab Name: CT Laboratories Contract: TETRA TECH-MARTINIZING DRY CLEANERS SITE
 Matrix: _____ SDG No.: 160295
 Sample wt/vol: _____ (g/mL) CTL Sample ID: 541200
 % Solids: _____ Date Received: 03/11/2021
 Soil Extract Vol: _____ (mL) Date/Time Prepared: _____ / _____
 Analytical Method: EPA 8260C Analytical Prep Batch # 0
 Analytical Run #: 179961 Dilution Factor: 1.00
 Cleanup Date/Time/Type: _____ , _____ , _____
 TCLP / SPLP / MLP or ASTM Procedure Extraction Date (if applicable): _____ / _____
 ICAL Calibration #: W031121. Concentration Units: ug/L

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	DL/LOD	RL	Control Limit
71-55-6	1,1,1-Trichloroethane	03/15/2021 10:11	0.38	U	0.38	1.0	0.50
79-34-5	1,1,2,2-Tetrachloroethane	03/15/2021 10:11	0.36	U	0.36	1.0	0.50
79-00-5	1,1,2-Trichloroethane	03/15/2021 10:11	0.27	U	0.27	1.0	0.50
75-34-3	1,1-Dichloroethane	03/15/2021 10:11	0.28	U	0.28	1.0	0.50
75-35-4	1,1-Dichloroethene	03/15/2021 10:11	0.49	U	0.49	2.0	1.0
87-61-6	1,2,3-Trichlorobenzene	03/15/2021 10:11	0.43	U	0.43	2.0	1.0
120-82-1	1,2,4-Trichlorobenzene	03/15/2021 10:11	0.50	U	0.50	2.0	1.0
96-12-8	1,2-Dibromo-3-chloropropane	03/15/2021 10:11	0.50	U	0.50	2.0	1.0
106-93-4	1,2-Dibromoethane	03/15/2021 10:11	0.33	U	0.33	1.0	0.50
95-50-1	1,2-Dichlorobenzene	03/15/2021 10:11	0.35	U	0.35	1.0	0.50
107-06-2	1,2-Dichloroethane	03/15/2021 10:11	0.69	U	0.69	2.0	1.0
78-87-5	1,2-Dichloropropane	03/15/2021 10:11	0.37	U	0.37	1.0	0.50
541-73-1	1,3-Dichlorobenzene	03/15/2021 10:11	0.30	U	0.30	1.0	0.50
106-46-7	1,4-Dichlorobenzene	03/15/2021 10:11	0.33	U	0.33	1.0	0.50
78-93-3	2-Butanone	03/15/2021 10:11	2.9	U	2.9	10	5.0
591-78-6	2-Hexanone	03/15/2021 10:11	3.3	U	3.3	10	5
108-10-1	4-Methyl-2-pentanone	03/15/2021 10:11	3.7	U	3.7	10	5.0
67-64-1	Acetone	03/15/2021 10:11	4.1	U	4.1	20	10
71-43-2	Benzene	03/15/2021 10:11	0.47	U	0.47	2.0	1.0
74-97-5	Bromochloromethane	03/15/2021 10:11	0.26	U	0.26	1.0	0.50
75-27-4	Bromodichloromethane	03/15/2021 10:11	0.29	U	0.29	1.0	0.50
75-25-2	Bromoform	03/15/2021 10:11	0.50	U	0.50	2.0	1.0
74-83-9	Bromomethane	03/15/2021 10:11	0.49	U	0.49	2.0	1.0



1A-2

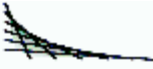
VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description

METHOD BLANK

Lab Name: CT Laboratories Contract: TETRA TECH-MARTINIZING DRY CLEANERS SITE
 Matrix: _____ SDG No.: 160295
 Sample wt/vol: _____ (g/mL) CTL Sample ID: 541200
 % Solids: _____ Date Received: 03/11/2021
 Soil Extract Vol: _____ (mL) Date/Time Prepared: _____ / _____
 Analytical Method: EPA 8260C Analytical Prep Batch # 0
 Analytical Run #: 179961 Dilution Factor: 1.00
 Cleanup Date/Time/Type: _____ , _____ , _____
 TCLP / SPLP / MLP or ASTM Procedure Extraction Date (if applicable): _____ / _____
 ICAL Calibration #: W031121. Concentration Units: ug/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	Control Limit
75-15-0	Carbon disulfide	03/15/2021	10:11	0.83	U	0.83	4.0	2.0
56-23-5	Carbon tetrachloride	03/15/2021	10:11	0.37	U	0.37	1.0	0.50
108-90-7	Chlorobenzene	03/15/2021	10:11	0.990	B	0.37	1.0	0.50
75-00-3	Chloroethane	03/15/2021	10:11	0.36	U	0.36	2.0	1.0
67-66-3	Chloroform	03/15/2021	10:11	0.46	U	0.46	1.0	0.50
74-87-3	Chloromethane	03/15/2021	10:11	0.39	U	0.39	2.0	1.0
156-59-2	cis-1,2-Dichloroethene	03/15/2021	10:11	0.41	U	0.41	1.0	0.50
10061-01-5	cis-1,3-Dichloropropene	03/15/2021	10:11	0.34	U	0.34	1.0	0.50
110-82-7	Cyclohexane	03/15/2021	10:11	0.71	U	0.71	2.0	1.0
124-48-1	Dibromochloromethane	03/15/2021	10:11	0.35	U	0.35	1.0	0.50
75-71-8	Dichlorodifluoromethane	03/15/2021	10:11	0.63	U	0.63	2.0	1.0
100-41-4	Ethylbenzene	03/15/2021	10:11	0.42	U	0.42	1.0	0.50
76-13-1	Freon 113	03/15/2021	10:11	1.5	U	1.5	4.0	2.0
98-82-8	Isopropylbenzene	03/15/2021	10:11	0.39	U	0.39	1.0	0.50
179601-23-1	m & p-Xylene	03/15/2021	10:11	0.74	U	0.74	2.0	1.0
79-20-9	Methyl Acetate	03/15/2021	10:11	0.34	U	0.34	2.0	1.0
1634-04-4	Methyl tert-butyl ether	03/15/2021	10:11	0.28	U	0.28	1.0	0.50
108-87-2	Methylcyclohexane	03/15/2021	10:11	0.78	U	0.78	2.0	1.0
75-09-2	Methylene chloride	03/15/2021	10:11	1.2	U	1.2	4.0	2.0
95-47-6	o-Xylene	03/15/2021	10:11	0.72	U	0.72	2.0	1.0
100-42-5	Styrene	03/15/2021	10:11	0.33	U	0.33	1.0	0.50
127-18-4	Tetrachloroethene	03/15/2021	10:11	0.54	U	0.54	2.0	1.0
108-88-3	Toluene	03/15/2021	10:11	0.27	U	0.27	1.0	0.50



1A-2

VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description

METHOD BLANK

Lab Name:	<u>CT Laboratories</u>	Contract:	<u>TETRA TECH-MARTINIZING DRY CLEANERS SITE</u>
Matrix:	<u></u>	SDG No.:	<u>160295</u>
Sample wt/vol:	<u>(g/mL)</u>	CTL Sample ID:	<u>541200</u>
% Solids:	<u></u>	Date Received:	<u>03/11/2021</u>
Soil Extract Vol:	<u>(mL)</u>	Date/Time Prepared:	<u>/</u>
Analytical Method:	<u>EPA 8260C</u>	Analytical Prep Batch #	<u>0</u>
Analytical Run #:	<u>179961</u>	Dilution Factor:	<u>1.00</u>
Cleanup Date/Time/Type:	<u></u>		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (if applicable):	<u>/</u>		
ICAL Calibration #:	<u>W031121.</u>	Concentration Units:	<u>ug/L</u>

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	DL/LOD	RL	<i>Control Limit</i>
156-60-5	trans-1,2-Dichloroethene	03/15/2021 10:11	0.35	U	0.35	1.0	0.50
10061-02-6	trans-1,3-Dichloropropene	03/15/2021 10:11	0.56	U	0.56	2.0	1.0
79-01-6	Trichloroethene	03/15/2021 10:11	0.39	U	0.39	1.0	0.50
75-69-4	Trichlorofluoromethane	03/15/2021 10:11	0.41	U	0.41	2.0	1.0
75-01-4	Vinyl chloride	03/15/2021 10:11	0.14	U	0.14	0.60	0.30



1A-2

VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description

CCB

Lab Name: CT Laboratories Contract: TETRA TECH-MARTINIZING DRY CLEANERS SITE
 Matrix: _____ SDG No.: 160295
 Sample wt/vol: _____ (g/mL) CTL Sample ID: 541710
 % Solids: _____ Date Received: 03/11/2021
 Soil Extract Vol: _____ (mL) Date/Time Prepared: _____ / _____
 Analytical Method: EPA 8260C Analytical Prep Batch # 0
 Analytical Run #: 179961 Dilution Factor: 1.00
 Cleanup Date/Time/Type: _____ , _____ , _____
 TCLP / SPLP / MLP or ASTM Procedure Extraction Date (if applicable): _____ / _____
 ICAL Calibration #: W031121. Concentration Units: ug/L

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	DL/LOD	RL	Control Limit
71-55-6	1,1,1-Trichloroethane	03/16/2021 09:18	0.38	U	0.38	1.0	0.50
79-34-5	1,1,2,2-Tetrachloroethane	03/16/2021 09:18	0.36	U	0.36	1.0	0.50
79-00-5	1,1,2-Trichloroethane	03/16/2021 09:18	0.27	U	0.27	1.0	0.50
75-34-3	1,1-Dichloroethane	03/16/2021 09:18	0.28	U	0.28	1.0	0.50
75-35-4	1,1-Dichloroethene	03/16/2021 09:18	0.49	U	0.49	2.0	1.0
87-61-6	1,2,3-Trichlorobenzene	03/16/2021 09:18	0.43	U	0.43	2.0	1.0
120-82-1	1,2,4-Trichlorobenzene	03/16/2021 09:18	0.50	U	0.50	2.0	1.0
96-12-8	1,2-Dibromo-3-chloropropane	03/16/2021 09:18	0.50	U	0.50	2.0	1.0
106-93-4	1,2-Dibromoethane	03/16/2021 09:18	0.33	U	0.33	1.0	0.50
95-50-1	1,2-Dichlorobenzene	03/16/2021 09:18	0.35	U	0.35	1.0	0.50
107-06-2	1,2-Dichloroethane	03/16/2021 09:18	0.69	U	0.69	2.0	1.0
78-87-5	1,2-Dichloropropane	03/16/2021 09:18	0.37	U	0.37	1.0	0.50
541-73-1	1,3-Dichlorobenzene	03/16/2021 09:18	0.30	U	0.30	1.0	0.50
106-46-7	1,4-Dichlorobenzene	03/16/2021 09:18	0.33	U	0.33	1.0	0.50
78-93-3	2-Butanone	03/16/2021 09:18	2.9	U	2.9	10	5.0
591-78-6	2-Hexanone	03/16/2021 09:18	3.3	U	3.3	10	5.0
108-10-1	4-Methyl-2-pentanone	03/16/2021 09:18	3.7	U	3.7	10	5.0
67-64-1	Acetone	03/16/2021 09:18	4.1	U	4.1	20	10
71-43-2	Benzene	03/16/2021 09:18	0.47	U	0.47	2.0	1.0
74-97-5	Bromochloromethane	03/16/2021 09:18	0.26	U	0.26	1.0	0.50
75-27-4	Bromodichloromethane	03/16/2021 09:18	0.29	U	0.29	1.0	0.50
75-25-2	Bromoform	03/16/2021 09:18	0.50	U	0.50	2.0	1.0
74-83-9	Bromomethane	03/16/2021 09:18	0.49	U	0.49	2.0	1.0



1A-2

VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description

CCB

Lab Name: CT Laboratories Contract: TETRA TECH-MARTINIZING DRY CLEANERS SITE
 Matrix: _____ SDG No.: 160295
 Sample wt/vol: _____ (g/mL) CTL Sample ID: 541710
 % Solids: _____ Date Received: 03/11/2021
 Soil Extract Vol: _____ (mL) Date/Time Prepared: _____ / _____
 Analytical Method: EPA 8260C Analytical Prep Batch # 0
 Analytical Run #: 179961 Dilution Factor: 1.00
 Cleanup Date/Time/Type: _____ , _____ , _____
 TCLP / SPLP / MLP or ASTM Procedure Extraction Date (if applicable): _____ / _____
 ICAL Calibration #: W031121. Concentration Units: ug/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	Control Limit
75-15-0	Carbon disulfide	03/16/2021	09:18	0.83	U	0.83	4.0	2.0
56-23-5	Carbon tetrachloride	03/16/2021	09:18	0.37	U	0.37	1.0	0.50
108-90-7	Chlorobenzene	03/16/2021	09:18	0.37	U	0.37	1.0	0.50
75-00-3	Chloroethane	03/16/2021	09:18	0.36	U	0.36	2.0	1.0
67-66-3	Chloroform	03/16/2021	09:18	0.46	U	0.46	1.0	0.50
74-87-3	Chloromethane	03/16/2021	09:18	0.39	U	0.39	2.0	1.0
156-59-2	cis-1,2-Dichloroethene	03/16/2021	09:18	0.41	U	0.41	1.0	0.50
10061-01-5	cis-1,3-Dichloropropene	03/16/2021	09:18	0.34	U	0.34	1.0	0.50
110-82-7	Cyclohexane	03/16/2021	09:18	0.71	U	0.71	2.0	1.0
124-48-1	Dibromochloromethane	03/16/2021	09:18	0.35	U	0.35	1.0	0.50
75-71-8	Dichlorodifluoromethane	03/16/2021	09:18	0.63	U	0.63	2.0	1.0
100-41-4	Ethylbenzene	03/16/2021	09:18	0.42	U	0.42	1.0	0.50
76-13-1	Freon 113	03/16/2021	09:18	1.5	U	1.5	4.0	2.0
98-82-8	Isopropylbenzene	03/16/2021	09:18	0.39	U	0.39	1.0	0.50
179601-23-1	m & p-Xylene	03/16/2021	09:18	0.74	U	0.74	2.0	1.0
79-20-9	Methyl Acetate	03/16/2021	09:18	0.34	U	0.34	2.0	1.0
1634-04-4	Methyl tert-butyl ether	03/16/2021	09:18	0.28	U	0.28	1.0	0.50
75-09-2	Methylene chloride	03/16/2021	09:18	1.2	U	1.2	4.0	2.0
95-47-6	o-Xylene	03/16/2021	09:18	0.72	U	0.72	2.0	1.0
100-42-5	Styrene	03/16/2021	09:18	0.33	U	0.33	1.0	0.50
127-18-4	Tetrachloroethene	03/16/2021	09:18	0.54	U	0.54	2.0	1.0
108-88-3	Toluene	03/16/2021	09:18	0.27	U	0.27	1.0	0.50
156-60-5	trans-1,2-Dichloroethene	03/16/2021	09:18	0.35	U	0.35	1.0	0.50



1A-2

VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description

CCB

Lab Name: CT Laboratories Contract: TETRA TECH-MARTINIZING DRY CLEANERS SITE
 Matrix: _____ SDG No.: 160295
 Sample wt/vol: _____ (g/mL) CTL Sample ID: 541710
 % Solids: _____ Date Received: 03/11/2021
 Soil Extract Vol: _____ (mL) Date/Time Prepared: _____ / _____
 Analytical Method: EPA 8260C Analytical Prep Batch # 0
 Analytical Run #: 179961 Dilution Factor: 1.00
 Cleanup Date/Time/Type: _____ , _____ , _____
 TCLP / SPLP / MLP or ASTM Procedure Extraction Date (if applicable): _____ / _____
 ICAL Calibration #: W031121. Concentration Units: ug/L

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	DL/LOD	RL	Control Limit
10061-02-6	trans-1,3-Dichloropropene	03/16/2021 09:18	0.5	U	0.5	2.0	1.0
79-01-6	Trichloroethene	03/16/2021 09:18	0.39	U	0.39	1.0	0.50
75-69-4	Trichlorofluoromethane	03/16/2021 09:18	0.41	U	0.41	2.0	1.0
75-01-4	Vinyl chloride	03/16/2021 09:18	0.14	U	0.14	0.60	0.30

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories Contract: TETRA TECH-MARTINIZING DRY CLEANERS SITE
 Analytical Method: EPA 8260C SDG: 160295
 Analytical Run #: 179961 ICAL Calibration #: W031121.

CTLab #		540257			
Surrogate	Spike Amount	% Recovery	Lower Limit	Upper Limit	Qualifier
1,2 Dichloroethane-d4	100	101	70	120	
Bromofluorobenzene	100	102	75	120	
d8-Toluene	100	98	85	120	
Dibromofluoromethane	100	101	85	115	

CTLab #		540258			
Surrogate	Spike Amount	% Recovery	Lower Limit	Upper Limit	Qualifier
1,2 Dichloroethane-d4	100	104	70	120	
Bromofluorobenzene	100	102	75	120	
d8-Toluene	100	101	85	120	
Dibromofluoromethane	100	102	85	115	

CTLab #		540259			
Surrogate	Spike Amount	% Recovery	Lower Limit	Upper Limit	Qualifier
1,2 Dichloroethane-d4	100	100	70	120	
Bromofluorobenzene	100	100	75	120	
d8-Toluene	100	101	85	120	
Dibromofluoromethane	100	100	85	115	

CTLab #		541184		Sample Type: Lab Control Spike	
Surrogate	Spike Amount	% Recovery	Lower Limit	Upper Limit	Qualifier
1,2 Dichloroethane-d4	100	101	70	120	
Bromofluorobenzene	100	101	75	120	
d8-Toluene	100	100	85	120	
Dibromofluoromethane	100	101	85	115	

CTLab #		541197		Sample Type: Continuing Calibration Verification	
Surrogate	Spike Amount	% Recovery	Lower Limit	Upper Limit	Qualifier
1,2 Dichloroethane-d4	100	101	70	120	
Bromofluorobenzene	100	101	70	120	
d8-Toluene	100	100	85	120	
Dibromofluoromethane	100	101	85	115	

CTLab #		541200		Sample Type: Method Blank	
Surrogate	Spike Amount	% Recovery	Lower Limit	Upper Limit	Qualifier
1,2 Dichloroethane-d4	100	102	70	120	
Bromofluorobenzene	100	102	75	120	
d8-Toluene	100	99.0	85	115	
Dibromofluoromethane	100	100	85	115	

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories Contract: TETRA TECH-MARTINIZING DRY CLEANERS SITE
 Analytical Method: EPA 8260C SDG: 160295
 Analytical Run #: 179961 ICAL Calibration #: W031121.

CTLab #	541588	Sample Type:		Lab Control Spike Duplicate	
Surrogate	Spike Amount	% Recovery	Lower Limit	Upper Limit	Qualifier
1,2 Dichloroethane-d4	100	96.0	70	120	
Bromofluorobenzene	100	103	75	120	
d8-Toluene	100	101	85	120	
Dibromofluoromethane	100	101	85	115	

CTLab #	541632	Sample Type:		Continuing Calibration Verification	
Surrogate	Spike Amount	% Recovery	Lower Limit	Upper Limit	Qualifier
1,2 Dichloroethane-d4	100	98.0	70	120	
Bromofluorobenzene	100	100	70	120	
d8-Toluene	100	100	85	120	
Dibromofluoromethane	100	98.0	85	115	

CTLab #	541710	Sample Type:		Normal Field Sample	
Surrogate	Spike Amount	% Recovery	Lower Limit	Upper Limit	Qualifier
1,2 Dichloroethane-d4	100	98.0	70	120	
Bromofluorobenzene	100	99.0	75	120	
d8-Toluene	100	100	85	115	
Dibromofluoromethane	100	101	85	115	

WATER VOLATILE LAB CONTROL SAMPLE

LCS

Lab Name: CT Laboratories Contract TETRA TECH-MARTINIZING DRY CLEANERS SITE
 Sample No.: 541184 SDG No.: 160295
 Analytical Method: EPA 8260C Concentration Units: ug/L

Sample No.: 541184 Parent Sample No.: 0
 Analytical Prep Batch #: 0 Analytical Preparation Date/Time: _____
 Analytical Run #: 179961 ICAL Calibration #: W031121.

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,1,1-Trichloroethane	03/15/2021 08:42	65-130	10.8		10.0	108
1,1,2,2-Tetrachloroethane	03/15/2021 08:42	65-130	9.56		10.0	96
1,1,2-Trichloroethane	03/15/2021 08:42	75-125	9.91		10.0	99
1,1-Dichloroethane	03/15/2021 08:42	70-135	10.0		10.0	100
1,1-Dichloroethene	03/15/2021 08:42	70-130	10.7		10.0	107
1,2,3-Trichlorobenzene	03/15/2021 08:42	55-140	9.63		10.0	96
1,2,4-Trichlorobenzene	03/15/2021 08:42	65-135	9.87		10.0	99
1,2-Dibromo-3-chloropropane	03/15/2021 08:42	50-130	9.52		10.0	95
1,2-Dibromoethane	03/15/2021 08:42	80-120	9.46		10.0	95
1,2-Dichlorobenzene	03/15/2021 08:42	70-120	9.84		10.0	98
1,2-Dichloroethane	03/15/2021 08:42	70-130	9.91		10.0	99
1,2-Dichloropropane	03/15/2021 08:42	75-125	9.72		10.0	97
1,3-Dichlorobenzene	03/15/2021 08:42	75-125	9.77		10.0	98
1,4-Dichlorobenzene	03/15/2021 08:42	75-125	10.0		10.0	100
2-Butanone	03/15/2021 08:42	30-150	96.9		100	97
2-Hexanone	03/15/2021 08:42	55-130	93.9		100	94
4-Methyl-2-pentanone	03/15/2021 08:42	60-135	94.5		100	94
Acetone	03/15/2021 08:42	40-140	102		100	102
Benzene	03/15/2021 08:42	80-120	10.1		10.0	101
Bromochloromethane	03/15/2021 08:42	65-130	9.86		10.0	99
Bromodichloromethane	03/15/2021 08:42	75-120	10.2		10.0	102
Bromoform	03/15/2021 08:42	70-130	9.55		10.0	96
Bromomethane	03/15/2021 08:42	30-145	10.4		10.0	104
Carbon disulfide	03/15/2021 08:42	35-160	22.4		20.0	112
Carbon tetrachloride	03/15/2021 08:42	65-140	10.8		10.0	108
Chlorobenzene	03/15/2021 08:42	80-120	9.66		10.0	97
Chloroethane	03/15/2021 08:42	60-135	9.95		10.0	100
Chloroform	03/15/2021 08:42	65-135	9.95		10.0	100

WATER VOLATILE LAB CONTROL SAMPLE

LCS

Lab Name: CT Laboratories Contract TETRA TECH-MARTINIZING DRY CLEANERS SITE
 Sample No.: 541184 SDG No.: 160295
 Analytical Method: EPA 8260C Concentration Units: ug/L

Sample No.: 541184 Parent Sample No.: 0
 Analytical Prep Batch #: 0 Analytical Preparation Date/Time: _____
 Analytical Run #: 179961 ICAL Calibration #: W031121.

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Chloromethane	03/15/2021 08:42	40-125	9.61		10.0	96
cis-1,2-Dichloroethene	03/15/2021 08:42	70-125	10.0		10.0	100
cis-1,3-Dichloropropene	03/15/2021 08:42	70-130	9.66		10.0	97
Cyclohexane	03/15/2021 08:42	70-130	11.1		10.0	111
Dibromochloromethane	03/15/2021 08:42	60-135	9.82		10.0	98
Dichlorodifluoromethane	03/15/2021 08:42	30-155	9.19		10.0	92
Ethylbenzene	03/15/2021 08:42	75-125	10.2		10.0	102
Freon 113	03/15/2021 08:42	70-130	22.9		20.0	114
Isopropylbenzene	03/15/2021 08:42	75-125	10.3		10.0	103
m & p-Xylene	03/15/2021 08:42	75-130	20.1		20.0	100
Methyl Acetate	03/15/2021 08:42	70-130	9.66		10.0	97
Methyl tert-butyl ether	03/15/2021 08:42	65-125	9.60		10.0	96
Methylcyclohexane	03/15/2021 08:42	70-130	11.3		10.0	113
Methylene chloride	03/15/2021 08:42	55-140	9.62		10.0	96
o-Xylene	03/15/2021 08:42	80-120	9.70		10.0	97
Styrene	03/15/2021 08:42	65-135	10.1		10.0	101
Tetrachloroethene	03/15/2021 08:42	45-150	10.1		10.0	101
Toluene	03/15/2021 08:42	75-120	10.2		10.0	102
trans-1,2-Dichloroethene	03/15/2021 08:42	60-140	10.4		10.0	104
trans-1,3-Dichloropropene	03/15/2021 08:42	55-140	10.1		10.0	101
Trichloroethene	03/15/2021 08:42	70-125	10.3		10.0	103
Trichlorofluoromethane	03/15/2021 08:42	60-145	10.9		10.0	109
Vinyl chloride	03/15/2021 08:42	50-145	10.4		10.0	104

Spike Recovery: 0 out of 51 outside limits

3A

Sample Description

WATER VOLATILE LAB CONTROL SAMPLE

LCSD

Lab Name: CT Laboratories Contract: TETRA TECH-MARTINIZING DRY CLEANERS SITE
 Sample No.: 541588 SDG No.: 160295
 Analytical Method: EPA 8260C Concentration Units: ug/L

Analytical Run #: 179961 Sample No.: 541588 Parent Sample No.: 541184
 Analytical Prep Batch #: 0 Analytical Preparation Date/Time: _____
 ICAL Calibration #: W031121.

Analyte	Analysis		Spike Result	Parent Result	Spike Amount	%R	%RPD	Control Limit	
	Date/Time							(%R)	(%RPD)
1,1,1-Trichloroethane	03/15/2021	19:28	10.4	10.8	10.0	104	4	65-130	30
1,1,2,2-Tetrachloroethane	03/15/2021	19:28	7.74	9.56	10.0	77	21	65-130	30
1,1,2-Trichloroethane	03/15/2021	19:28	9.67	9.91	10.0	97	2	75-125	30
1,1-Dichloroethane	03/15/2021	19:28	10.1	10.0	10.0	101	1	70-135	30
1,1-Dichloroethene	03/15/2021	19:28	10.3	10.7	10.0	103	4	70-130	30
1,2,3-Trichlorobenzene	03/15/2021	19:28	10.0	9.63	10.0	100	4	55-140	30
1,2,4-Trichlorobenzene	03/15/2021	19:28	9.98	9.87	10.0	100	1	65-135	30
1,2-Dibromo-3-chloropropane	03/15/2021	19:28	8.37	9.52	10.0	84	13	50-130	30
1,2-Dibromoethane	03/15/2021	19:28	9.82	9.46	10.0	98	4	80-120	30
1,2-Dichlorobenzene	03/15/2021	19:28	9.73	9.84	10.0	97	1	70-120	30
1,2-Dichloroethane	03/15/2021	19:28	9.92	9.91	10.0	99	0	70-130	30
1,2-Dichloropropane	03/15/2021	19:28	9.82	9.72	10.0	98	1	75-125	30
1,3-Dichlorobenzene	03/15/2021	19:28	9.74	9.77	10.0	97	0	75-125	30
1,4-Dichlorobenzene	03/15/2021	19:28	9.72	10.0	10.0	97	3	75-125	30
2-Butanone	03/15/2021	19:28	94.9	96.9	100	95	2	30-150	30
2-Hexanone	03/15/2021	19:28	101	93.9	100	101	7	55-130	30
4-Methyl-2-pentanone	03/15/2021	19:28	96.4	94.5	100	96	2	60-135	30
Acetone	03/15/2021	19:28	94.8	102	100	95	7	40-140	30
Benzene	03/15/2021	19:28	10.2	10.1	10.0	102	1	80-120	30
Bromochloromethane	03/15/2021	19:28	9.85	9.86	10.0	98	0	65-130	30
Bromodichloromethane	03/15/2021	19:28	9.83	10.2	10.0	98	4	75-120	30
Bromoform	03/15/2021	19:28	8.91	9.55	10.0	89	7	70-130	30
Bromomethane	03/15/2021	19:28	9.53	10.4	10.0	95	9	30-145	30
Carbon disulfide	03/15/2021	19:28	21.2	22.4	20.0	106	6	35-160	30
Carbon tetrachloride	03/15/2021	19:28	10.1	10.8	10.0	101	7	65-140	30
Chlorobenzene	03/15/2021	19:28	9.68	9.66	10.0	97	0	80-120	30
Chloroethane	03/15/2021	19:28	10.2	9.95	10.0	102	2	60-135	30
Chloroform	03/15/2021	19:28	10.1	9.95	10.0	101	1	65-135	30

3A

Sample Description

WATER VOLATILE LAB CONTROL SAMPLE

LCSD

Lab Name: CT Laboratories Contract: TETRA TECH-MARTINIZING DRY CLEANERS SITE
 Sample No.: 541588 SDG No.: 160295
 Analytical Method: EPA 8260C Concentration Units: ug/L

Analytical Run #: 179961 Sample No.: 541588 Parent Sample No.: 541184
 Analytical Prep Batch #: 0 Analytical Preparation Date/Time: _____
 ICAL Calibration #: W031121.

Analyte	Analysis		Spike Result	Parent Result	Spike Amount	%R	%RPD	Control Limit	
	Date/Time							(%R)	(%RPD)
Chloromethane	03/15/2021	19:28	9.77	9.61	10.0	98	2	40-125	30
cis-1,2-Dichloroethene	03/15/2021	19:28	9.69	10.0	10.0	97	3	70-125	30
cis-1,3-Dichloropropene	03/15/2021	19:28	9.25	9.66	10.0	92	4	70-130	30
Cyclohexane	03/15/2021	19:28	11.1	11.1	10.0	111	0	70-130	30
Dibromochloromethane	03/15/2021	19:28	9.76	9.82	10.0	98	1	60-135	30
Dichlorodifluoromethane	03/15/2021	19:28	9.04	9.19	10.0	90	2	30-155	30
Ethylbenzene	03/15/2021	19:28	10.1	10.2	10.0	101	1	75-125	30
Freon 113	03/15/2021	19:28	22.1	22.9	20.0	110	4	70-130	30
Isopropylbenzene	03/15/2021	19:28	10.0	10.3	10.0	100	3	75-125	30
m & p-Xylene	03/15/2021	19:28	19.7	20.1	20.0	98	2	75-130	30
Methyl Acetate	03/15/2021	19:28	8.58	9.66	10.0	86	12	70-130	30
Methyl tert-butyl ether	03/15/2021	19:28	10.1	9.60	10.0	101	5	65-125	30
Methylcyclohexane	03/15/2021	19:28	10.8	11.3	10.0	108	5	70-130	30
Methylene chloride	03/15/2021	19:28	9.84	9.62	10.0	98	2	55-140	30
o-Xylene	03/15/2021	19:28	9.93	9.70	10.0	99	2	80-120	30
Styrene	03/15/2021	19:28	10.1	10.1	10.0	101	0	65-135	30
Tetrachloroethene	03/15/2021	19:28	10.1	10.1	10.0	101	0	45-150	30
Toluene	03/15/2021	19:28	10.1	10.2	10.0	101	1	75-120	30
trans-1,2-Dichloroethene	03/15/2021	19:28	10.0	10.4	10.0	100	4	60-140	30
trans-1,3-Dichloropropene	03/15/2021	19:28	9.74	10.1	10.0	97	4	55-140	30
Trichloroethene	03/15/2021	19:28	11.7	10.3	10.0	117	13	70-125	30
Trichlorofluoromethane	03/15/2021	19:28	10.8	10.9	10.0	108	1	60-145	30
Vinyl chloride	03/15/2021	19:28	10.1	10.4	10.0	101	3	50-145	30

RPD or Spike Recovery: 0 out of 51 outside QC limits

VOLATILE METHOD BLANK SUMMARY

Lab Name:	<u>CT Laboratories</u>	Contract:	<u>TETRA TECH-MARTINIZING DRY CLEANERS SITE</u>
Sample ID:	<u>541200</u>	SDG No.:	<u>160295</u>
Matrix:	<u>LIQUID</u>	Date Extracted:	<u></u>
Date Analyzed:	<u>03/15/2021</u>	Time Analyzed:	<u>10:11</u>
Analytical Method:	<u>EPA 8260C</u>	Extraction Method:	<u>NONE</u>
Analytical Run #:	<u>179961</u>	Extraction Batch #:	<u>0</u>
		ICAL Calibration #:	<u>W031121.</u>

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED	CALIBRATION # ID
1	BFB	542339	03/15/2021 07:57	
2	LCSW	541184	03/15/2021 08:42	W031121.
3	CCV	541197	03/15/2021 08:42	W031121.
4	MBW	541200	03/15/2021 10:11	W031121.
5	TRIP BLANK	540259	03/15/2021 11:38	W031121.
6	LCSDW	541588	03/15/2021 19:28	W031121.
7	BFB	542338	03/16/2021 07:33	
8	CCV	541632	03/16/2021 08:20	W031121.
9	CCB	541710	03/16/2021 09:18	W031121.
10	MDC-1216-SUMP-20210310	540257	03/16/2021 09:48	W031121.
11	MDC-1219-SUMP2-20210310	540258	03/16/2021 10:18	W031121.

Data File : C:\Instarch\Data\MAR1121\BFB1.D
 Acq On : 11 Mar 2021 10:32
 Sample : BFB DIRECT INJ.
 Misc : 50 ng Inj.
 Integration File: VOC.P

Vial: 1
 Operator: RLD-DGS
 Inst : VMS3
 Multiplr: 1.00

Method : C:\INSTARCH\METHODS\W031121.M
 Title : 8260C Waters Method

Spectrum Information: Average of 4.656 to 4.669 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.1	22118	PASS
75	95	30	60	49.5	49550	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	6.9	6949	PASS
173	174	0.00	2	0.6	471	PASS
174	95	50	100	80.5	80543	PASS
175	174	5	9	8.1	6539	PASS
176	174	95	101	99.0	79770	PASS
177	176	5	9	6.4	5133	PASS

W031121.M Mon Mar 15 11:16:46 2021

pl_i log
Injection Log Summary Report

Method : C:\INSTARCH\METHODS\W031121.M
 Title : 8260C Waters Method
 Start (Tune) File ID : C:\INSTARCH\DATA\MAR1121\BFB1.D
 Injection Date : 11 Mar 2021 Log Time Period (hrs) : ALL
 Injection Time : 10:32 Total files within period : 16
 Sample Directory : C:\INSTARCH\DATA\MAR1121\

Injection Log Summary Table

File ID	Multiplier		T	Sample Name Misc Info	Date	Time
	I	S				
WCAL1	1.00	1.00	1.00	INITIAL CALIB. PT1 0.5/5.0 ug/L, 5.0 mL	11 Mar 2021	11:46
WCAL2	1.00	1.00	1.00	INITIAL CALIB. PT2 1.00/10.00 ug/L, 5.0	11 Mar 2021	12:15
WCAL3	1.00	1.00	1.00	INITIAL CALIB. PT3 2.00/20.0 ug/L, 5.0	11 Mar 2021	12:45
WCAL4	1.00	1.00	1.00	INITIAL CALIB. PT4 5.00/50.0 ug/L, 5.0	11 Mar 2021	13:14
WCAL5	1.00	1.00	1.00	INITIAL CALIB. PT5 10.0/100.0 ug/L, 5.0	11 Mar 2021	13:44
WCAL6	1.00	1.00	1.00	INITIAL CALIB. PT6 20.0/200.0 ug/L, 5.0	11 Mar 2021	14:13
WCAL7	1.00	1.00	1.00	INITIAL CALIB. PT7 30.0/300.0 ug/L, 5.0	11 Mar 2021	14:43
WCAL8	1.00	1.00	1.00	INITIAL CALIB. PT8 40.0/400.0 ug/L, 5.0	11 Mar 2021	15:12
WCAL9	1.00	1.00	1.00	INITIAL CALIB. PT9 80.0/800.0 ug/L, 5.0	11 Mar 2021	15:41
ICV1	1.00	1.00	1.00	INITIAL CALIB. VERIF 10.0/100 ug/L, 5.0 m	11 Mar 2021	16:40
ICV2	1.00	1.00	1.00	INITIAL CALIB. VERIF 30.0/300 ug/L, 5.0 m	11 Mar 2021	17:10
ICB1	1.00	1.00	1.00	INITIAL CALIB. BLANK 5.0 mL DI H2O Purged	11 Mar 2021	18:08

8260 ISTD/SSTD 20ug/ml VOC0810
 8260 BFB STD. 50ug/ml VOC0809
 8260 ICV STD. 100ug/ml VOC0811
 8260 CCV/CALIB. 100ug/ml VOC0812

Data File : C:\Instarch\Data\MAR1521\BFB1.D
 Acq On : 15 Mar 2021 7:57
 Sample : 180026,BFB,
 Misc : 50 ng Inj.
 Integration File: VOC.P

Vial: 1
 Operator: DGS-RLD
 Inst : VMS3
 Multiplr: 1.00

Method : C:\INSTARCH\METHODS\W031121.M
 Title : 8260C Waters Method

Spectrum Information: Average of 4.663 to 4.669 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.0	19991	PASS
75	95	30	60	52.3	52293	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	6.6	6567	PASS
173	174	0.00	2	0.7	588	PASS
174	95	50	100	85.2	85221	PASS
175	174	5	9	8.8	7467	PASS
176	174	95	101	99.5	84764	PASS
177	176	5	9	6.3	5353	PASS

W031121.M Tue Mar 16 14:00:52 2021

Data File : C:\Instarch\Data\MAR1521\BFB2.D
 Acq On : 16 Mar 2021 7:33
 Sample : 179961,BFB,
 Misc : 50 ng Inj.
 Integration File: VOC.P

Vial: 26
 Operator: DGS-RLD
 Inst : VMS3
 Multiplr: 1.00

Method : C:\INSTARCH\METHODS\W031121.M
 Title : 8260C Waters Method

Spectrum Information: Average of 4.687 to 4.705 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	19236	PASS
75	95	30	60	52.4	52422	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	6.4	6376	PASS
173	174	0.00	2	0.6	570	PASS
174	95	50	100	92.4	92407	PASS
175	174	5	9	7.1	6532	PASS
176	174	95	101	97.6	90144	PASS
177	176	5	9	6.8	6105	PASS

W031121.M Tue Mar 16 14:01:57 2021

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
 Title : 8260C Waters Method
 Start (Tune) File ID : C:\INSTARCH\DATA\MAR1521\BFB1.D
 Injection Date : 15 Mar 2021 Log Time Period (hrs) : ALL
 Injection Time : 07:57 Total files within period : 31
 Sample Directory : C:\INSTARCH\DATA\MAR1521\

Injection Log Summary Table

File ID	Multiplier			Sample Name Misc Info	Date	Time
	I	S	T			
CCV-LCS1	1.00	1.00	1.00	180026,LCSW, 10.0/100 ug/L, 5.0 mL Pur	15 Mar 2021	08:42
MB1	1.00	1.00	1.00	180026,MBW, pH<2,5.0 mL DI H2O Purged	15 Mar 2021	10:11
540259	1.00	1.00	1.00	179961,540259, pH<2,5.0 mL Purged + IS/	15 Mar 2021	11:38
540257	1.00	1.00	1.00	179961,540257,100 pH<2,5.0 mL Purged + IS/	15 Mar 2021	16:32
540258	1.00	1.00	1.00	179961,540258,100 pH<2,5.0 mL Purged + IS/	15 Mar 2021	17:02
CCVF-L~1	1.00	1.00	1.00	180026,LCSWDW, 10.0/100 ug/L, 5.0 mL Pur	15 Mar 2021	19:28
BFB2	1.00	1.00	1.00	179961,BFB, 50 ng Inj.	16 Mar 2021	07:33
CCV2	1.00	1.00	1.00	179961,LCSW, 10.0/100 ug/L, 5.0 mL Pur	16 Mar 2021	08:20
CCB1	1.00	1.00	1.00	179961,CCB, pH<2,5.0 mL DI H2O Purged	16 Mar 2021	09:18
540257R	1.00	1.00	1.00	179961,540257, pH<2,5.0 mL Purged + IS/	16 Mar 2021	09:48
540258R	1.00	1.00	1.00	179961,540258, pH<2,5.0 mL Purged + IS/	16 Mar 2021	10:18

8260 ISTD/SSTD 20ug/ml VOC0810
 8260 BFB STD. 50ug/ml VOC0809
 8260 ICV STD. 100ug/ml VOC0811
 8260 CCV/CALIB. 100ug/ml VOC0812

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : CT Laboratories, LLC Contract :
 Project : Site : Location : Group :
 Lab File ID (Standard): WCAL5.D Date Analyzed : 11 Mar 2021
 Instrument ID : VMS3 Time Analyzed : 13:44
 GC Column : DB-624UI ID : VMS3(mm) Heated Purge (Y:N) : N

		IS1		IS2		IS3	
		Area	# RT	# Area	# RT	# Area	# RT
12 HOUR STD		1315866	7.71	1129283	11.62	646127	14.92
UPPER LIMIT		2631732	8.21	2258566	12.12	1292254	15.42
LOWER LIMIT		657933	7.21	564642	11.12	323064	14.42
File ID	Sample						
540257	179961,54	1245240	7.71	1107898	11.62	586159	14.92
540257R	179961,54	1304061	7.71	1102157	11.62	607021	14.92
540258	179961,54	1214756	7.71	1083423	11.62	583118	14.92
540258R	179961,54	1262316	7.71	1119629	11.62	620784	14.92
540259	179961,54	1260509	7.71	1085447	11.62	582943	14.92
CCB1	179961,CC	1228291	7.70	1080228	11.62	606915	14.92
CCV2	179961,LC	1311149	7.70	1128774	11.62	652982	14.92
CCVF-L~1	180026,LC	1348015	7.70	1147087	11.62	650386	14.92
CCV-LCS1	180026,LC	1284945	7.71	1109099	11.62	633846	14.92
MB1	180026,MB	1262076	7.71	1093490	11.62	603982	14.92

IS1 = FLUOROBENZENE**ISTD**
 IS2 = d5-CHLOROBENZENE**ISTD**
 IS3 = d4-1,4-DICHLOROBENZENE**IS

AREA UPPER LIMIT = 200% of internal standard area
 AREA LOWER LIMIT = 50% of internal standard area
 RT UPPER LIMIT = 0.5 minutes of internal standard RT
 RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
 * Values outside of contract required QC limits

**VOLATILE ORGANIC ANALYSIS
SAMPLE DATA
DOCUMENTS**

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1521\540259.D
 Acq On : 15 Mar 2021 11:38
 Sample : 179961,540259,
 Misc : pH<2,5.0 mL Purged + IS/SS
 MS Integration Params: VOC.P

Vial: 9
 Operator: DGS-RLD
 Inst : VMS3
 Multiplr: 1.00

Quant Time: Mar 15 11:59:14 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
						Rcv (Ar)
1) FLUOROBENZENE**ISTD**	7.71	96	1260509	20.00	ug/L	0.00 NA%
68) d5-CHLOROENZENE**ISTD**	11.62	117	1085447	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROENZENE**IS	14.92	152	582943	20.00	ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.86	113	331533	20.019	ug/L	0.00
Spiked Amount	20.000	Range	90 - 110	Recovery	= 100	%
45) SURR12DCAd4	7.27	102	90222	20.096	ug/L	0.00
Spiked Amount	20.000	Range	89 - 111	Recovery	= 100	%
61) SURRD8Tolule	9.71	98	1276709	20.154	ug/L	0.00
Spiked Amount	20.000	Range	93 - 107	Recovery	= 101	%
83) SURR4BrFBenz	13.25	95	538225	20.057	ug/L	0.00
Spiked Amount	20.000	Range	83 - 111	Recovery	= 100	%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	0.00	50	0	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorothe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.06	43	12834	Below	Cal	84
16) Iodomethane	4.19	142	3450	N.D.		
17) Carbon Dislf	4.26	76	7199	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.64	84	11004	0.5889	ug/L	96
21) tbutylalcohol	4.85	59	3568	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorthe	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorthe	0.00	96	0	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydrofur	6.66	42	3176	N.D.		

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

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1521\540259.D

Vial: 9

Acq On : 15 Mar 2021 11:38

Operator: DGS-RLD

Sample : 179961,540259,

Inst : VMS3

Misc : pH<2,5.0 mL Purged + IS/SS

Multiplr: 1.00

MS Integration Params: VOC.P

Quant Time: Mar 15 11:59:14 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method

Last Update : Fri Mar 12 07:06:57 2021

Response via : Initial Calibration

DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Chloroform	0.00	83	0	N.D.		
40) 111trichlota	0.00	97	0	N.D.		
42) Cyclohexane	0.00	56	0	N.D.		
43) Carbtetracl	0.00	119	0	N.D.		
44) 11dicloprope	0.00	110	0	N.D.		
46) Benzene	0.00	78	0	N.D.		
47) 12dichlorota	0.00	62	0	N.D.		
48) TAME	0.00	73	0	N.D.		
49) trichloroete	0.00	95	0	N.D.		
50) methylcyclohexane	0.00	83	0	N.D.		
51) 12dicloropra	0.00	63	0	N.D.		
52) 23Dicl1propene	0.00	75	0	N.D.		
53) Dibromometha	0.00	93	0	N.D.		
54) methylmethacrylate	0.00	69	0	N.D.		
55) 14dioxane	8.63	88	2906	N.D.		
56) Bromodiclrma	0.00	83	0	N.D.		
57) 2Nitropropane	0.00	43	0	N.D.		
58) 2CLEVE	0.00	63	0	N.D.		
59) c13dicloproe	0.00	75	0	N.D.		
60) 4Meth2Pentan	0.00	43	0	N.D.		
62) Toluene	0.00	92	0	N.D.		
63) t13Dicloprop	0.00	75	0	N.D.		
64) ethylmethacrylate	0.00	69	0	N.D.		
65) 112Triclotha	0.00	83	0	N.D.		
66) Tetrachlorte	0.00	166	0	N.D.		
67) 13Diclorpropa	0.00	76	0	N.D.		
69) 2Hexanone	10.65	43	3657	N.D.		
70) Clorodibrmta	0.00	129	0	N.D.		
71) 12Dibrometha	0.00	107	0	N.D.		
72) Chlorobenzen	0.00	112	0	N.D.		
73) 1Clhexane	11.63	91	3511	N.D.		
74) 1112Tetclota	0.00	131	0	N.D.		
75) Ethylbenzene	0.00	91	0	N.D.		
76) m p-Xylene	0.00	106	0	N.D.		
77) o-Xylene	0.00	106	0	N.D.		
78) Styrene	0.00	104	0	N.D.		
79) Bromoform	0.00	173	0	N.D.		
80) Isopropylben	13.06	105	2879	N.D.		
81) cyclohexanone	0.00	55	0	N.D.		
84) Bromobenzene	0.00	156	0	N.D.		
85) 1122Tetrclta	0.00	83	0	N.D.		
86) 123Triclproa	0.00	75	0	N.D.		
87) 14dichloro2butene	0.00	53	0	N.D.		
88) n-Propylbenz	13.64	91	3929	N.D.		
89) 2chlorotolue	13.64	91	3448	N.D.		
90) 4chlorotolue	0.00	91	0	N.D.		
91) 135Trimebenz	0.00	105	0	N.D.		
92) tbutylbenzen	0.00	119	0	N.D.		
93) 124Trimetben	0.00	105	0	N.D.		
94) sbutylbenzen	14.68	105	3965	N.D.		
95) 13Diclorbenz	0.00	146	0	N.D.		
96) pIsopropylto	14.91	119	3659	N.D.		
97) 14dichlorobe	0.00	146	0	N.D.		
98) 12dichlorobe	0.00	146	0	N.D.		
99) nButylbenzen	15.49	91	5352	N.D.		
100) 12dibromo3cl	0.00	157	0	N.D.		
101) 135Trichlorobenzene	0.00	180	0	N.D.		

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

540259.D W031121.M

Wed Mar 17 08:42:25 2021

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Page 2

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1521\540259.D
Acq On : 15 Mar 2021 11:38
Sample : 179961,540259,
Misc : pH<2,5.0 mL Purged + IS/SS
MS Integration Params: VOC.P

Vial: 9
Operator: DGS-RLD
Inst : VMS3
Multiplr: 1.00

Quant Time: Mar 15 11:59:14 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 12 07:06:57 2021
Response via : Initial Calibration
DataAcq Meth : W031121.M

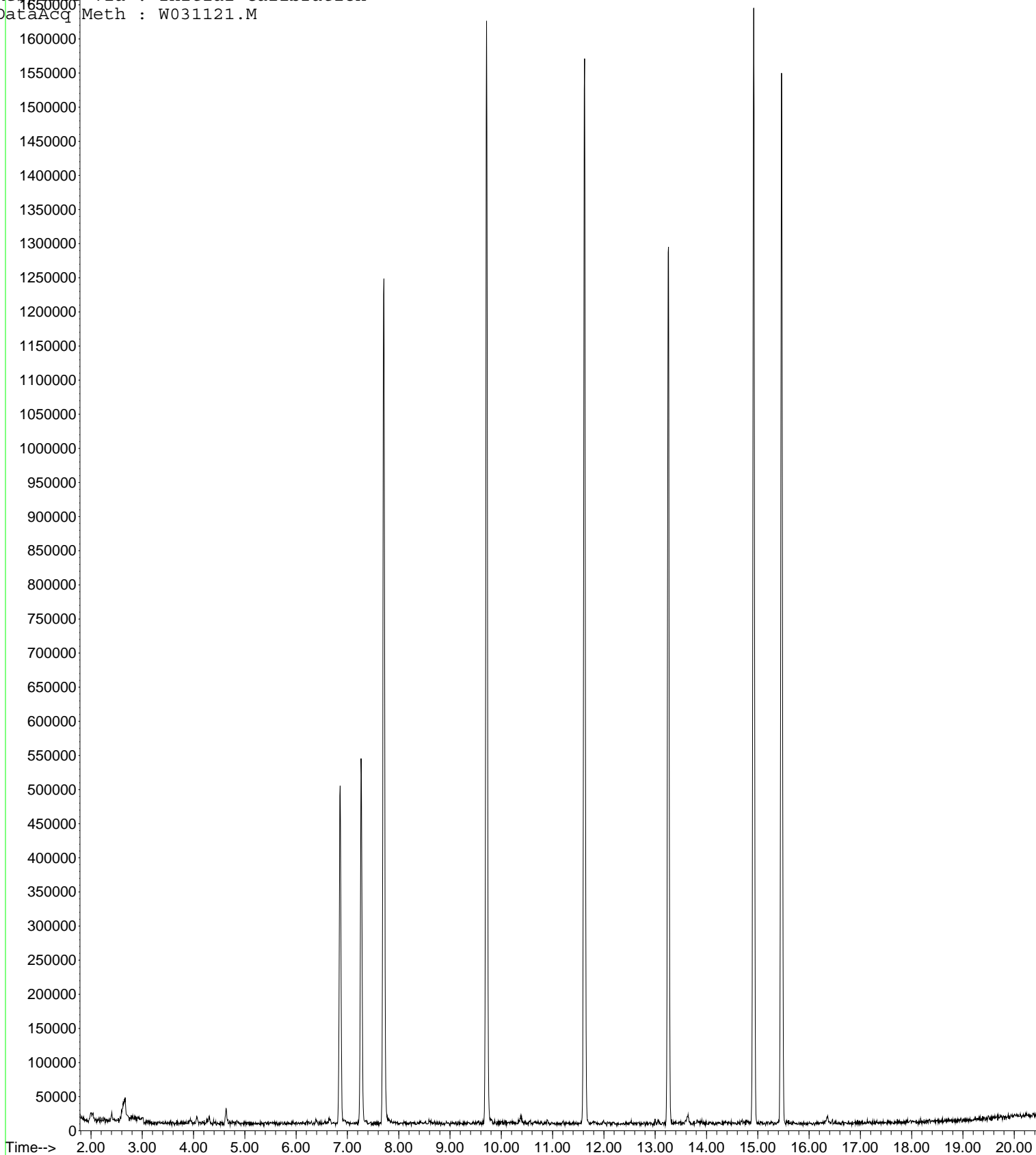
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.		
103) Hexachlorobu	0.00	225	0	N.D.		
104) Naphthalene	0.00	128	0	N.D.		
105) 123Trichlben	0.00	180	0	N.D.		

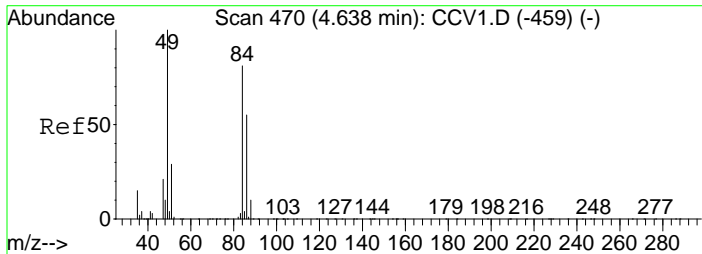
Abundance
Data File : C:\INSTARCH\DATA\MAR1521\540259.D
Acq On : 15 Mar 2021 11:38
Sample : 179961,540259,
Misc : pH<2,5.0 mL Purged + IS/SS
MS1 Separation Params: VOC.P

TIC: 540259.D
Vial: 9
Operator: DGS-RLD
Inst : VMS3
Multiplr: 1.00

Quantitation Report
Time: Mar 15 11:59:14 2021 Results File: W031121.RES

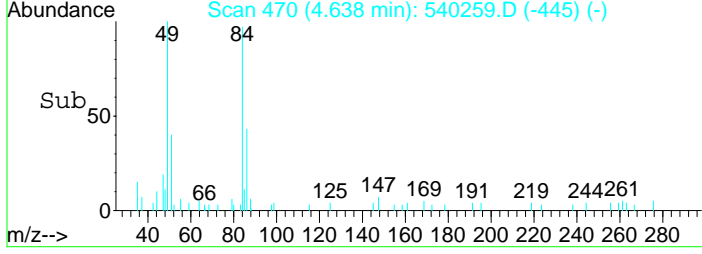
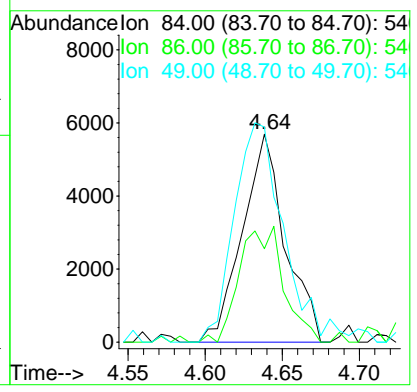
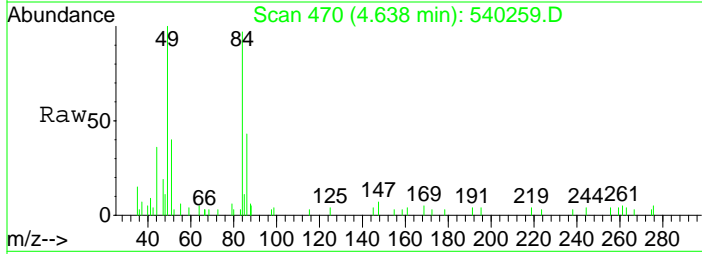
Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 12 07:06:57 2021
Response via : Initial Calibration
DataAcq Meth : W031121.M





#20
 Methylchlorid
 Concen: 0.59 ug/L
 RT: 4.64 min Scan# 470
 Delta R.T. 0.00 min
 Lab File: 540259.D
 Acq: 15 Mar 2021 11:38

Tgt Ion	Ratio	Lower	Upper
84	100		
86	57.0	42.5	82.5
49	124.0	101.7	141.7



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1521\540257.D
 Acq On : 15 Mar 2021 16:32
 Sample : 179961,540257,100
 Misc : pH<2,5.0 mL Purged + IS/SS
 MS Integration Params: VOC.P

Vial: 19
 Operator: DGS-RLD
 Inst : VMS3
 Multiplr: 1.00

NOT USED

Quant Time: Mar 15 16:53:24 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
						Rcv (Ar)
1) FLUOROBENZENE**ISTD**	7.71	96	1245240	20.00	ug/L	0.00 NA%
68) d5-CHLOROENZENE**ISTD**	11.62	117	1107898	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROENZENE**IS	14.92	152	586159	20.00	ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.86	113	330455	20.199	ug/L	0.00
Spiked Amount	20.000	Range	90 - 110	Recovery	= 101	%
45) SURR12DCAd4	7.27	102	87647	19.761	ug/L	0.00
Spiked Amount	20.000	Range	89 - 111	Recovery	= 99	%
61) SURRd8Tolule	9.71	98	1257385	20.092	ug/L	0.00
Spiked Amount	20.000	Range	93 - 107	Recovery	= 100	%
83) SURR4BrFBenz	13.25	95	541327	20.062	ug/L	0.00
Spiked Amount	20.000	Range	83 - 111	Recovery	= 100	%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	0.00	50	0	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorothe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.07	43	29451	N.D.		
16) Iodomethane	0.00	142	0	N.D.		
17) Carbon Dislf	4.26	76	3059	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.64	84	2825	N.D.		
21) tbutylalcohol	4.86	59	4485	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorte	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydrofur	6.66	42	4243	N.D.		

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

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1521\540257.D
 Acq On : 15 Mar 2021 16:32
 Sample : 179961,540257,100
 Misc : pH<2,5.0 mL Purged + IS/SS
 MS Integration Params: VOC.P

Vial: 19
 Operator: DGS-RLD
 Inst : VMS3
 Multiplr: 1.00

Quant Time: Mar 15 16:53:24 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
 Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Chloroform	0.00	83	0	N.D.		
40) 111trichlota	0.00	97	0	N.D.		
42) Cyclohexane	0.00	56	0	N.D.		
43) Carbtetracl	0.00	119	0	N.D.		
44) 11dicloprope	0.00	110	0	N.D.		
46) Benzene	0.00	78	0	N.D.		
47) 12dichlorota	0.00	62	0	N.D.		
48) TAME	0.00	73	0	N.D.		
49) trichloroete	0.00	95	0	N.D.		
50) methylcyclohexane	0.00	83	0	N.D.		
51) 12dicloropra	0.00	63	0	N.D.		
52) 23Dicl1propene	0.00	75	0	N.D.		
53) Dibromometha	0.00	93	0	N.D.		
54) methylmethacrylate	0.00	69	0	N.D.		
55) 14dioxane	0.00	88	0	N.D.		
56) Bromodiclrma	0.00	83	0	N.D.		
57) 2Nitropropane	0.00	43	0	N.D.		
58) 2CLEVE	0.00	63	0	N.D.		
59) c13dicloproe	0.00	75	0	N.D.		
60) 4Meth2Pentan	0.00	43	0	N.D.		
62) Toluene	0.00	92	0	N.D.		
63) t13Dicloprop	0.00	75	0	N.D.		
64) ethylmethacrylate	0.00	69	0	N.D.		
65) 112Triclotha	0.00	83	0	N.D.		
66) Tetrachlorte	0.00	166	0	N.D.		
67) 13Diclorpropa	0.00	76	0	N.D.		
69) 2Hexanone	0.00	43	0	N.D.		
70) Clorodibrmta	0.00	129	0	N.D.		
71) 12Dibrometha	0.00	107	0	N.D.		
72) Chlorobenzen	11.65	112	14447	Below	Cal #	39
73) 1Clhexane	11.63	91	2787	N.D.		
74) 1112Tetclota	0.00	131	0	N.D.		
75) Ethylbenzene	0.00	91	0	N.D.		
76) m p-Xylene	0.00	106	0	N.D.		
77) o-Xylene	0.00	106	0	N.D.		
78) Styrene	0.00	104	0	N.D.		
79) Bromoform	0.00	173	0	N.D.		
80) Isopropylben	0.00	105	0	N.D.		
81) cyclohexanone	0.00	55	0	N.D.		
84) Bromobenzene	0.00	156	0	N.D.		
85) 1122Tetrclta	0.00	83	0	N.D.		
86) 123Triclproa	0.00	75	0	N.D.		
87) 14dichloro2butene	0.00	53	0	N.D.		
88) n-Propylbenz	0.00	91	0	N.D.		
89) 2chlorotolue	0.00	91	0	N.D.		
90) 4chlorotolue	0.00	91	0	N.D.		
91) 135Trimebenz	0.00	105	0	N.D.		
92) tbutylbenzen	0.00	119	0	N.D.		
93) 124Trimetben	0.00	105	0	N.D.		
94) sbutylbenzen	0.00	105	0	N.D.		
95) 13Diclorbenz	0.00	146	0	N.D.		
96) pIsopropylto	0.00	119	0	N.D.		
97) 14dichlorobe	0.00	146	0	N.D.		
98) 12dichlorobe	0.00	146	0	N.D.		
99) nButylbenzen	0.00	91	0	N.D.		
100) 12dibromo3cl	0.00	157	0	N.D.		
101) 135Trichlorobenzene	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration
 540257.D W031121.M Wed Mar 17 08:42:12 2021

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1521\540257.D
Acq On : 15 Mar 2021 16:32
Sample : 179961,540257,100
Misc : pH<2,5.0 mL Purged + IS/SS
MS Integration Params: VOC.P

Vial: 19
Operator: DGS-RLD
Inst : VMS3
Multiplr: 1.00

Quant Time: Mar 15 16:53:24 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 12 07:06:57 2021
Response via : Initial Calibration
DataAcq Meth : W031121.M

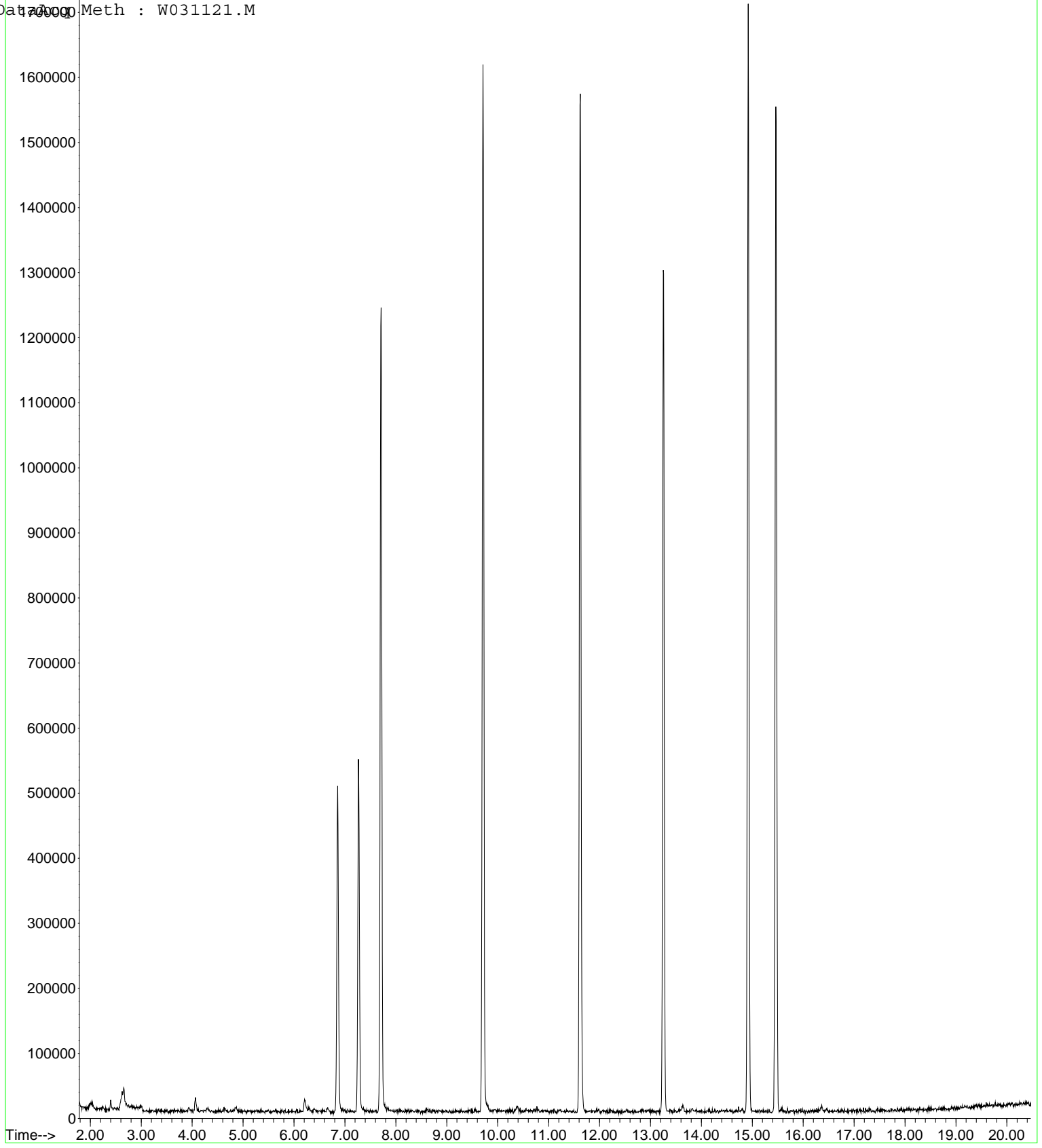
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.		
103) Hexachlorobu	0.00	225	0	N.D.		
104) Naphthalene	0.00	128	0	N.D.		
105) 123Trichlben	0.00	180	0	N.D.		

Abundance
Data File : C:\INSTARCH\DATA\MAR1521\540257.D
Acc On : 15 Mar 2021 16:32
Sample : 179961,540257,100
Misc : pH<2,5.0 mL Purged + IS/SS
MS Integration Params: VOC.P

TIC: 540257.D
Vial: 19
Operator: DGS-RLD
Inst : VMS3
Multiplr: 1.00

Quant Time: Mar 15 16:53:24 2021 Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 12 07:06:57 2021
Response via : Initial Calibration
Data Meth : W031121.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1521\540258.D
 Acq On : 15 Mar 2021 17:02
 Sample : 179961,540258,100
 Misc : pH<2,5.0 mL Purged + IS/SS
 MS Integration Params: VOC.P

Vial: 20
 Operator: DGS-RLD
 Inst : VMS3
 Multiplr: 1.00

NOT USED

Quant Time: Mar 15 17:22:57 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
						Rcv (Ar)
1) FLUOROBENZENE**ISTD**	7.71	96	1214756	20.00	ug/L	0.00 NA%
68) d5-CHLORO BENZENE**ISTD**	11.62	117	1083423	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLORO BENZENE**IS	14.92	152	583118	20.00	ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.86	113	325119	20.372	ug/L	0.00
Spiked Amount	20.000	Range	90 - 110	Recovery	= 102	%
45) SURR12DCAd4	7.27	102	86283	19.942	ug/L	0.00
Spiked Amount	20.000	Range	89 - 111	Recovery	= 100	%
61) SURRD8Tolule	9.71	98	1206971	19.770	ug/L	0.00
Spiked Amount	20.000	Range	93 - 107	Recovery	= 99	%
83) SURR4BrFBenz	13.26	95	546958	20.376	ug/L	0.00
Spiked Amount	20.000	Range	83 - 111	Recovery	= 102	%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	0.00	50	0	N.D.		
4) Vinylchlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorothe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.07	43	22400	N.D.		
16) Iodomethane	0.00	142	0	N.D.		
17) Carbon Dislf	4.26	76	3622	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.64	84	3328	N.D.		
21) tbutylalcohol	4.85	59	8241	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorte	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydrofur	6.65	42	4048	N.D.		

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

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1521\540258.D
 Acq On : 15 Mar 2021 17:02
 Sample : 179961,540258,100
 Misc : pH<2,5.0 mL Purged + IS/SS
 MS Integration Params: VOC.P

Vial: 20
 Operator: DGS-RLD
 Inst : VMS3
 Multiplr: 1.00

Quant Time: Mar 15 17:22:57 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
 Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Chloroform	0.00	83	0	N.D.		
40) 111trichlota	0.00	97	0	N.D.		
42) Cyclohexane	0.00	56	0	N.D.		
43) Carbtetracl	0.00	119	0	N.D.		
44) 11dicloprope	0.00	110	0	N.D.		
46) Benzene	0.00	78	0	N.D.		
47) 12dichlorota	0.00	62	0	N.D.		
48) TAME	0.00	73	0	N.D.		
49) trichloroete	0.00	95	0	N.D.		
50) methylcyclohexane	0.00	83	0	N.D.		
51) 12dicloropra	0.00	63	0	N.D.		
52) 23Dicl1propene	0.00	75	0	N.D.		
53) Dibromometha	0.00	93	0	N.D.		
54) methylmethacrylate	0.00	69	0	N.D.		
55) 14dioxane	8.62	88	2868	N.D.		
56) Bromodiclrma	0.00	83	0	N.D.		
57) 2Nitropropane	0.00	43	0	N.D.		
58) 2CLEVE	0.00	63	0	N.D.		
59) c13dicloproe	0.00	75	0	N.D.		
60) 4Meth2Pentan	0.00	43	0	N.D.		
62) Toluene	0.00	92	0	N.D.		
63) t13Dicloprop	0.00	75	0	N.D.		
64) ethylmethacrylate	0.00	69	0	N.D.		
65) 112Triclotha	0.00	83	0	N.D.		
66) Tetrachlorte	0.00	166	0	N.D.		
67) 13Diclorpropa	0.00	76	0	N.D.		
69) 2Hexanone	0.00	43	0	N.D.		
70) Clorodibrmta	0.00	129	0	N.D.		
71) 12Dibrometha	0.00	107	0	N.D.		
72) Chlorobenzen	11.66	112	14642	Below	Cal #	40
73) 1Clhexane	11.62	91	2678	N.D.		
74) 1112Tetclota	0.00	131	0	N.D.		
75) Ethylbenzene	0.00	91	0	N.D.		
76) m p-Xylene	0.00	106	0	N.D.		
77) o-Xylene	0.00	106	0	N.D.		
78) Styrene	0.00	104	0	N.D.		
79) Bromoform	0.00	173	0	N.D.		
80) Isopropylben	0.00	105	0	N.D.		
81) cyclohexanone	0.00	55	0	N.D.		
84) Bromobenzene	0.00	156	0	N.D.		
85) 1122Tetrclta	0.00	83	0	N.D.		
86) 123Triclproa	0.00	75	0	N.D.		
87) 14dichloro2butene	0.00	53	0	N.D.		
88) n-Propylbenz	0.00	91	0	N.D.		
89) 2chlorotolue	0.00	91	0	N.D.		
90) 4chlorotolue	0.00	91	0	N.D.		
91) 135Trimebenz	0.00	105	0	N.D.		
92) tbutylbenzen	0.00	119	0	N.D.		
93) 124Trimetben	0.00	105	0	N.D.		
94) sbutylbenzen	0.00	105	0	N.D.		
95) 13Diclorbenz	0.00	146	0	N.D.		
96) pIsopropylto	0.00	119	0	N.D.		
97) 14dichlorobe	0.00	146	0	N.D.		
98) 12dichlorobe	0.00	146	0	N.D.		
99) nButylbenzen	0.00	91	0	N.D.		
100) 12dibromo3cl	0.00	157	0	N.D.		
101) 135Trichlorobenzene	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration
 540258.D W031121.M Wed Mar 17 08:42:21 2021

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1521\540258.D
 Acq On : 15 Mar 2021 17:02
 Sample : 179961,540258,100
 Misc : pH<2,5.0 mL Purged + IS/SS
 MS Integration Params: VOC.P

Vial: 20
 Operator: DGS-RLD
 Inst : VMS3
 Multiplr: 1.00

Quant Time: Mar 15 17:22:57 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
 Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

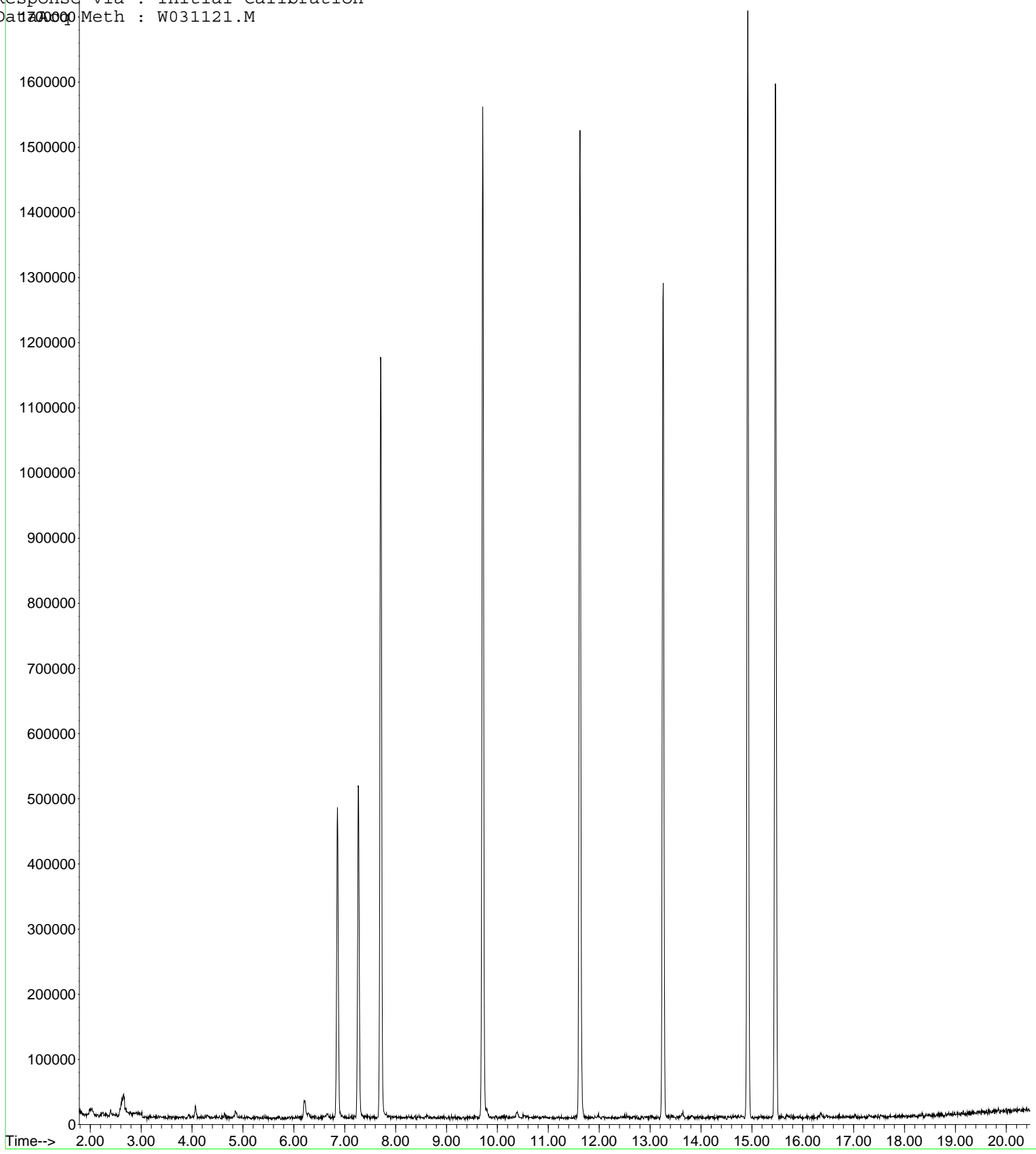
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.		
103) Hexachlorobu	0.00	225	0	N.D.		
104) Naphthalene	0.00	128	0	N.D.		
105) 123Trichlben	0.00	180	0	N.D.		

Abundance
Data File : C:\INSTARCH\DATA\MAR1521\540258.D
Acq On : 15 Mar 2021 17:02
Sample : 179961,540258,100
Misc : pH<2,5.0 mL Purged + IS/SS
MS Integration Params: VOC.P

TIC: 540258.D
Vial: 20
Operator: DGS-RLD
Inst : VMS3
Multiplr: 1.00

Quant Time: Mar 15 17:22:57 2021 Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 12 07:06:57 2021
Response via : Initial Calibration
Data Meth : W031121.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1521\540257R.D
 Acq On : 16 Mar 2021 9:48
 Sample : 179961,540257,
 Misc : pH<2,5.0 mL Purged + IS/SS
 MS Integration Params: VOC.P

Vial: 31
 Operator: DGS-RLD
 Inst : VMS3
 Multiplr: 1.00

Report

Quant Time: Mar 16 10:08:51 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
						Rcv (Ar)
1) FLUOROBENZENE**ISTD**	7.71	96	1304061	20.00	ug/L	0.00 NA%
68) d5-CHLOROENZENE**ISTD**	11.62	117	1102157	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROENZENE**IS	14.92	152	607021	20.00	ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.86	113	345964	20.193	ug/L	0.00
Spiked Amount	20.000	Range	90 - 110	Recovery	= 101	%
45) SURR12DCAd4	7.27	102	94066	20.252	ug/L	0.00
Spiked Amount	20.000	Range	89 - 111	Recovery	= 101	%
61) SURRd8Tolule	9.71	98	1283915	19.590	ug/L	0.00
Spiked Amount	20.000	Range	93 - 107	Recovery	= 98	%
83) SURR4BrFBenz	13.25	95	569791	20.391	ug/L	0.00
Spiked Amount	20.000	Range	83 - 111	Recovery	= 102	%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.09	50	11290	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorothe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.06	43	38729	N.D.		
16) Iodomethane	4.18	142	3488	N.D.		
17) Carbon Dislf	4.26	76	3025	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	0.00	84	0	N.D.		
21) tbutylalcohol	4.86	59	19283	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorthe	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	6.21	77	4624	N.D.		
32) c12dichlorthe	0.00	96	0	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydrofur	6.67	42	2509	N.D.		

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

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1521\540257R.D
 Acq On : 16 Mar 2021 9:48
 Sample : 179961,540257,
 Misc : pH<2,5.0 mL Purged + IS/SS
 MS Integration Params: VOC.P

Vial: 31
 Operator: DGS-RLD
 Inst : VMS3
 Multiplr: 1.00

Quant Time: Mar 16 10:08:51 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Chloroform	0.00	83	0	N.D.		
40) 111trichlota	0.00	97	0	N.D.		
42) Cyclohexane	0.00	56	0	N.D.		
43) Carbtetracl	0.00	119	0	N.D.		
44) 11dicloprope	0.00	110	0	N.D.		
46) Benzene	0.00	78	0	N.D.		
47) 12dichlorota	0.00	62	0	N.D.		
48) TAME	0.00	73	0	N.D.		
49) trichloroete	0.00	95	0	N.D.		
50) methylcyclohexane	0.00	83	0	N.D.		
51) 12dicloropra	0.00	63	0	N.D.		
52) 23Dicl1propene	0.00	75	0	N.D.		
53) Dibromometha	0.00	93	0	N.D.		
54) methylmethacrylate	0.00	69	0	N.D.		
55) 14dioxane	8.62	88	3949	N.D.		
56) Bromodiclrma	0.00	83	0	N.D.		
57) 2Nitropropane	0.00	43	0	N.D.		
58) 2CLEVE	0.00	63	0	N.D.		
59) c13dicloproe	0.00	75	0	N.D.		
60) 4Meth2Pentan	9.55	43	3542	Below	Cal #	39
62) Toluene	0.00	92	0	N.D.		
63) t13Dicloprop	0.00	75	0	N.D.		
64) ethylmethacrylate	0.00	69	0	N.D.		
65) 112Triclotha	0.00	83	0	N.D.		
66) Tetrachlorte	0.00	166	0	N.D.		
67) 13Diclorpropa	0.00	76	0	N.D.		
69) 2Hexanone	10.62	43	3339	N.D.		
70) Clorodibrmta	0.00	129	0	N.D.		
71) 12Dibrometha	0.00	107	0	N.D.		
72) Chlorobenzen	0.00	112	0	N.D.		
73) 1Clhexane	11.63	91	3768	N.D.		
74) 1112Tetclota	0.00	131	0	N.D.		
75) Ethylbenzene	0.00	91	0	N.D.		
76) m p-Xylene	0.00	106	0	N.D.		
77) o-Xylene	0.00	106	0	N.D.		
78) Styrene	0.00	104	0	N.D.		
79) Bromoform	0.00	173	0	N.D.		
80) Isopropylben	13.06	105	2811	N.D.		
81) cyclohexanone	0.00	55	0	N.D.		
84) Bromobenzene	0.00	156	0	N.D.		
85) 1122Tetrclta	0.00	83	0	N.D.		
86) 123Triclproa	0.00	75	0	N.D.		
87) 14dichloro2butene	0.00	53	0	N.D.		
88) n-Propylbenz	13.64	91	3666	N.D.		
89) 2chlorotolue	13.64	91	3280	N.D.		
90) 4chlorotolue	0.00	91	0	N.D.		
91) 135Trimebenz	0.00	105	0	N.D.		
92) tbutylbenzen	0.00	119	0	N.D.		
93) 124Trimetben	0.00	105	0	N.D.		
94) sbutylbenzen	14.68	105	4327	N.D.		
95) 13Diclorbenz	0.00	146	0	N.D.		
96) pIsopropylto	14.91	119	4476	N.D.		
97) 14dichlorobe	0.00	146	0	N.D.		
98) 12dichlorobe	0.00	146	0	N.D.		
99) nButylbenzen	15.50	91	5602	N.D.		
100) 12dibromo3cl	0.00	157	0	N.D.		
101) 135Trichlorobenzene	0.00	180	0	N.D.		

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

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1521\540257R.D
Acq On : 16 Mar 2021 9:48
Sample : 179961,540257,
Misc : pH<2,5.0 mL Purged + IS/SS
MS Integration Params: VOC.P

Vial: 31
Operator: DGS-RLD
Inst : VMS3
Multiplr: 1.00

Quant Time: Mar 16 10:08:51 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 12 07:06:57 2021
Response via : Initial Calibration
DataAcq Meth : W031121.M

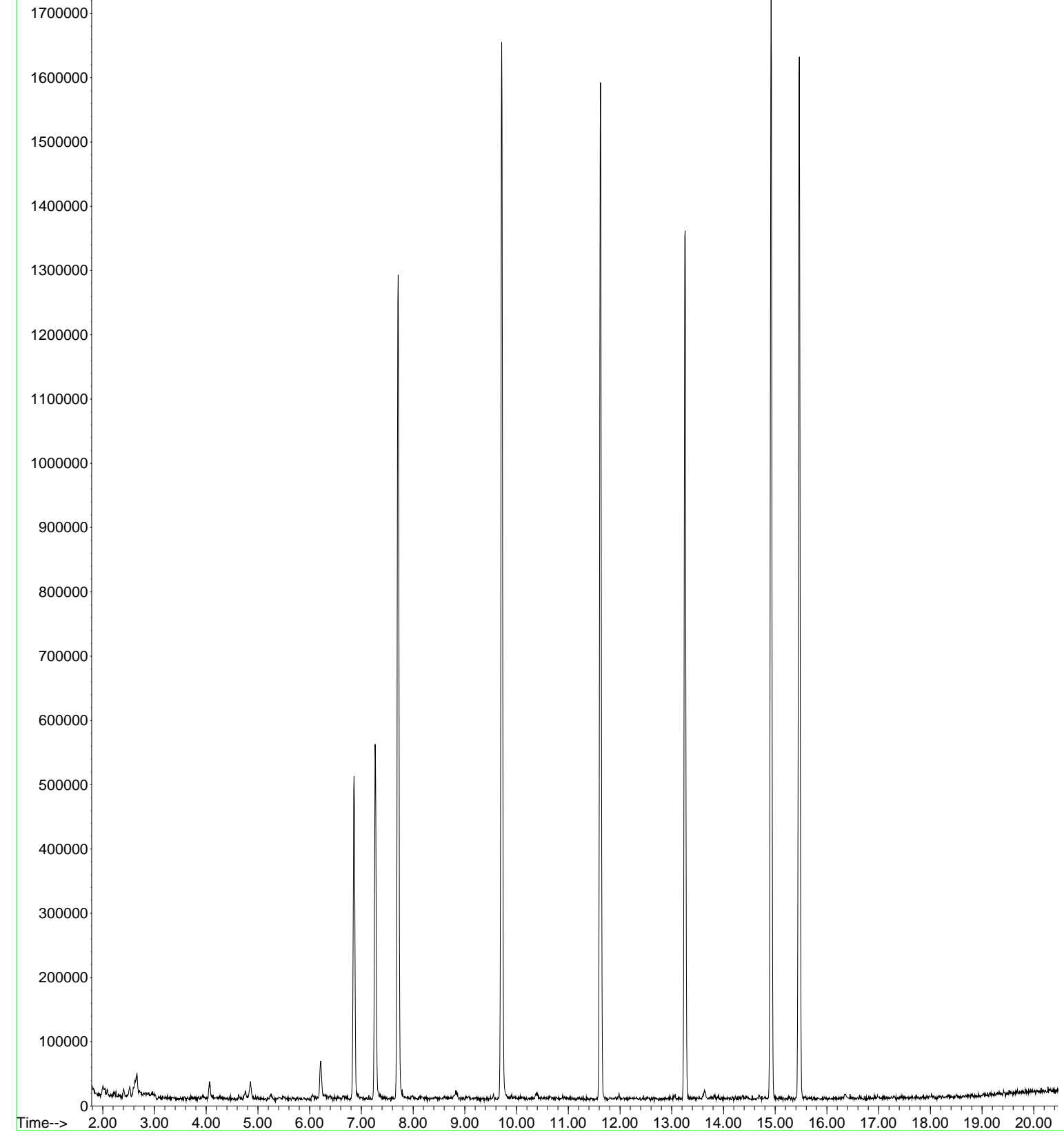
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.		
103) Hexachlorobu	0.00	225	0	N.D.		
104) Naphthalene	0.00	128	0	N.D.		
105) 123Trichlben	0.00	180	0	N.D.		

Abundance
Data File : C:\INSTARCH\DATA\MAR1521\540257R.D
Acq On : 16 Mar 2021 9:48
Sample : 179961,540257,
Misc : pH<2,5.0 mL Purged + IS/SS
MS Integration Params: VOC.P

TIC: 540257R.D
Vial: 31
Operator: DGS-RLD
Inst : VMS3
Multiplr: 1.00

Quant Time: Mar 16 10:08:51 2021 Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 12 07:06:57 2021
Response via : Initial Calibration
DataAcq Meth : W031121.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1521\540258R.D
 Acq On : 16 Mar 2021 10:18
 Sample : 179961,540258,
 Misc : pH<2,5.0 mL Purged + IS/SS
 MS Integration Params: VOC.P

Vial: 32
 Operator: DGS-RLD
 Inst : VMS3
 Multiplr: 1.00

Report

Quant Time: Mar 16 10:38:49 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
						Rcv (Ar)
1) FLUOROBENZENE**ISTD**	7.71	96	1262316	20.00	ug/L	0.00 NA%
68) d5-CHLOROENZENE**ISTD**	11.62	117	1119629	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROENZENE**IS	14.92	152	620784	20.00	ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.86	113	339853	20.492	ug/L	0.00
Spiked Amount	20.000	Range	90 - 110	Recovery	= 102	%
45) SURR12DCAd4	7.27	102	93570	20.811	ug/L	0.00
Spiked Amount	20.000	Range	89 - 111	Recovery	= 104	%
61) SURRD8Tolule	9.71	98	1275953	20.113	ug/L	0.00
Spiked Amount	20.000	Range	93 - 107	Recovery	= 101	%
83) SURR4BrFBenz	13.25	95	581792	20.359	ug/L	0.00
Spiked Amount	20.000	Range	83 - 111	Recovery	= 102	%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.09	50	12765	0.6652	ug/L	93
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorothe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.07	43	38432	N.D.		
16) Iodomethane	4.17	142	4439	N.D.		
17) Carbon Dislf	4.26	76	4115	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.64	84	61480	3.2858	ug/L	90
21) tbutylalcohol	4.85	59	26888	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorthe	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	6.15	59	9538	N.D.		
31) 22dichloropr	6.20	77	4014	N.D.		
32) c12dichlorthe	0.00	96	0	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydrofur	6.66	42	3469	N.D.		

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

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1521\540258R.D
 Acq On : 16 Mar 2021 10:18
 Sample : 179961,540258,
 Misc : pH<2,5.0 mL Purged + IS/SS
 MS Integration Params: VOC.P

Vial: 32
 Operator: DGS-RLD
 Inst : VMS3
 Multiplr: 1.00

Quant Time: Mar 16 10:38:49 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Chloroform	6.67	83	36340	1.2356	ug/L	91
40) 111trichlota	0.00	97	0	N.D.		
42) Cyclohexane	0.00	56	0	N.D.		
43) Carbtetraclor	0.00	119	0	N.D.		
44) 11dicloprope	0.00	110	0	N.D.		
46) Benzene	0.00	78	0	N.D.		
47) 12dichlorota	0.00	62	0	N.D.		
48) TAME	0.00	73	0	N.D.		
49) trichloroete	0.00	95	0	N.D.		
50) methylcyclohexane	0.00	83	0	N.D.		
51) 12dicloropra	0.00	63	0	N.D.		
52) 23Dicl1propene	0.00	75	0	N.D.		
53) Dibromometha	0.00	93	0	N.D.		
54) methylmethacrylate	0.00	69	0	N.D.		
55) 14dioxane	8.64	88	3386	N.D.		
56) Bromodiclrma	8.78	83	17005	0.7852	ug/L #	90
57) 2Nitropropane	0.00	43	0	N.D.		
58) 2CLEVE	0.00	63	0	N.D.		
59) c13dicloproe	0.00	75	0	N.D.		
60) 4Meth2Pentan	9.55	43	2906	Below	Cal #	39
62) Toluene	9.79	92	8278	N.D.		
63) t13Dicloprop	0.00	75	0	N.D.		
64) ethylmethacrylate	0.00	69	0	N.D.		
65) 112Triclotha	0.00	83	0	N.D.		
66) Tetrachlorte	10.53	166	32301	1.6734	ug/L	97
67) 13Diclorpropa	0.00	76	0	N.D.		
69) 2Hexanone	0.00	43	0	N.D.		
70) Clorodibrmta	10.83	129	8472	0.5103	ug/L #	84
71) 12Dibrometha	0.00	107	0	N.D.		
72) Chlorobenzen	0.00	112	0	N.D.		
73) 1Clhexane	11.62	91	2994	N.D.		
74) 1112Tetclota	0.00	131	0	N.D.		
75) Ethylbenzene	0.00	91	0	N.D.		
76) m p-Xylene	0.00	106	0	N.D.		
77) o-Xylene	0.00	106	0	N.D.		
78) Styrene	0.00	104	0	N.D.		
79) Bromoform	0.00	173	0	N.D.		
80) Isopropylben	13.05	105	2608	N.D.		
81) cyclohexanone	0.00	55	0	N.D.		
84) Bromobenzene	0.00	156	0	N.D.		
85) 1122Tetrclta	0.00	83	0	N.D.		
86) 123Triclproa	0.00	75	0	N.D.		
87) 14dichloro2butene	0.00	53	0	N.D.		
88) n-Propylbenz	13.64	91	3080	N.D.		
89) 2chlorotolue	13.64	91	2920	N.D.		
90) 4chlorotolue	0.00	91	0	N.D.		
91) 135Trimebenz	0.00	105	0	N.D.		
92) tbutylbenzen	0.00	119	0	N.D.		
93) 124Trimetben	14.42	105	3146	N.D.		
94) sbutylbenzen	14.68	105	3579	N.D.		
95) 13Diclorbenz	0.00	146	0	N.D.		
96) pIsopropylto	14.91	119	3296	N.D.		
97) 14dichlorobe	0.00	146	0	N.D.		
98) 12dichlorobe	0.00	146	0	N.D.		
99) nButylbenzen	0.00	91	0	N.D.		
100) 12dibromo3cl	0.00	157	0	N.D.		
101) 135Trichlorobenzene	0.00	180	0	N.D.		

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

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1521\540258R.D
Acq On : 16 Mar 2021 10:18
Sample : 179961,540258,
Misc : pH<2,5.0 mL Purged + IS/SS
MS Integration Params: VOC.P

Vial: 32
Operator: DGS-RLD
Inst : VMS3
Multiplr: 1.00

Quant Time: Mar 16 10:38:49 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 12 07:06:57 2021
Response via : Initial Calibration
DataAcq Meth : W031121.M

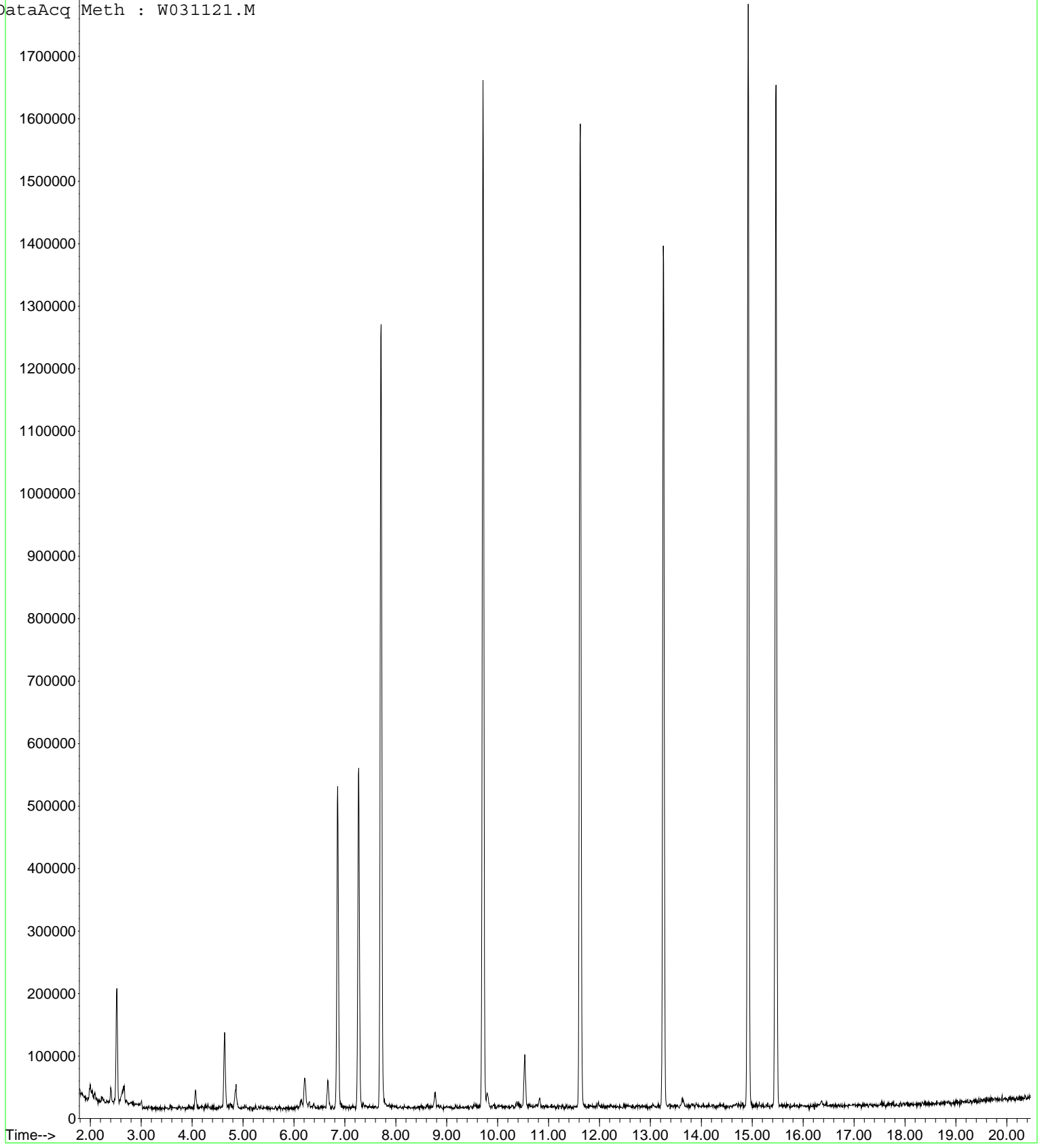
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.		
103) Hexachlorobu	0.00	225	0	N.D.		
104) Naphthalene	0.00	128	0	N.D.		
105) 123Trichlben	0.00	180	0	N.D.		

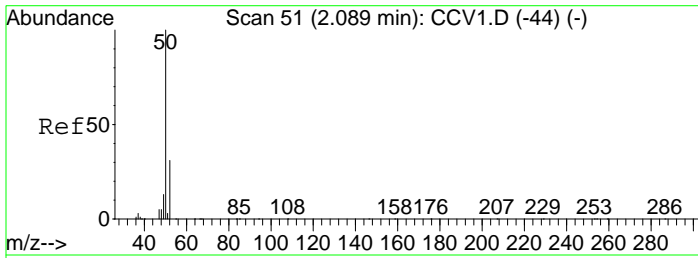
Abundance
Data File : C:\INSTARCH\DATA\MAR1521\540258R.D
Acq On : 16 Mar 2021 10:18
Sample : 179961,540258,
Misc : pH<2,5.0 mL Purged + IS/SS
MS Integration Params: VOC.P

TIC: 540258R.D
Vial: 32
Operator: DGS-RLD
Inst : VMS3
Multiplr: 1.00

Quant Time: Mar 16 10:38:49 2021 Results File: W031121.RES

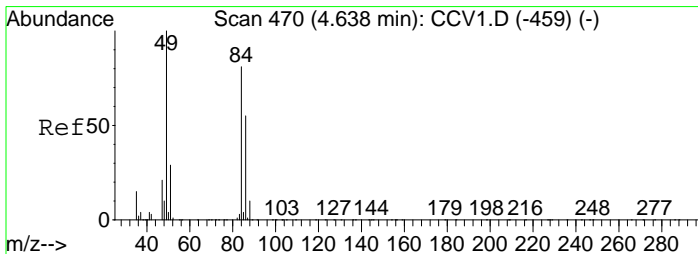
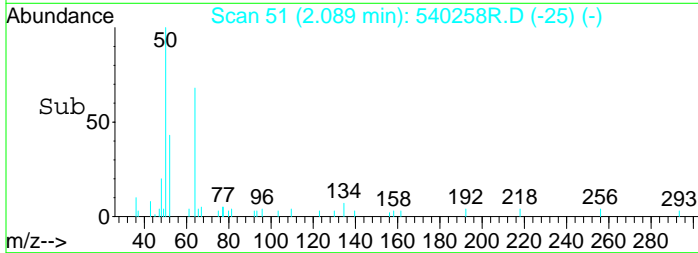
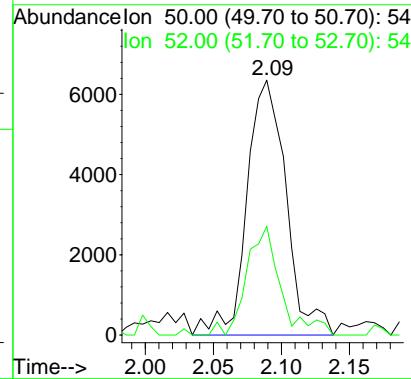
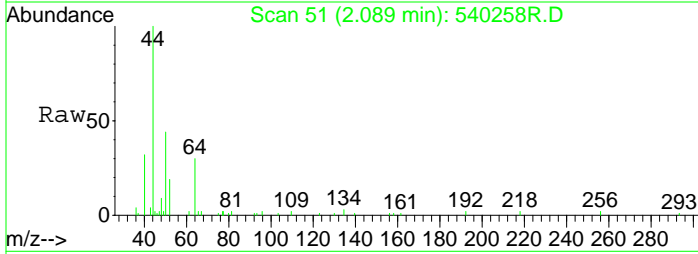
Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 12 07:06:57 2021
Res via : Initial Calibration
DataAcq Meth : W031121.M





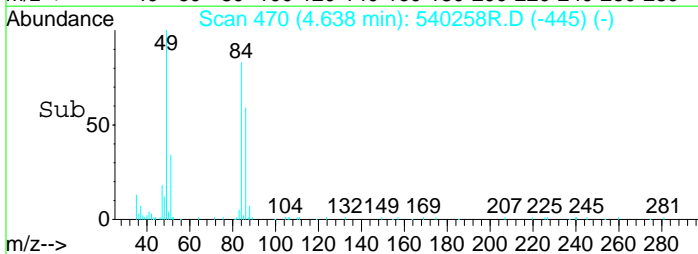
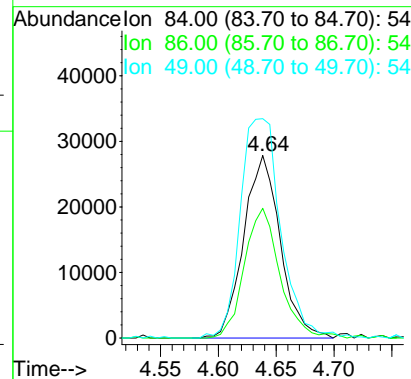
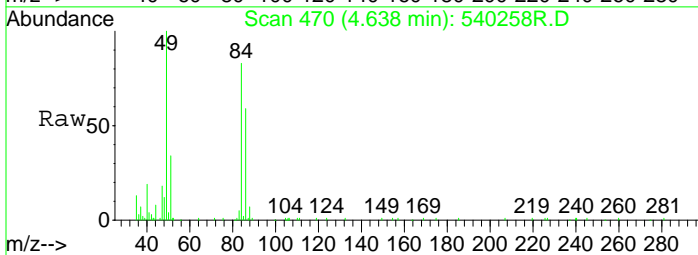
#3
 Chloromethan
 Concen: 0.67 ug/L
 RT: 2.09 min Scan# 51
 Delta R.T. 0.01 min
 Lab File: 540258R.D
 Acq: 16 Mar 2021 10:18

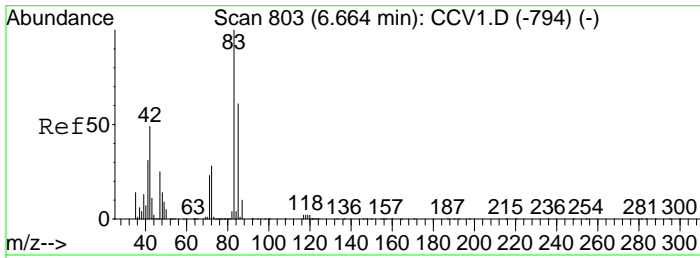
Tgt Ion	Resp	Lower	Upper
50	12765		
52	37.1	12.9	52.9



#20
 Methylchlorid
 Concen: 3.29 ug/L
 RT: 4.64 min Scan# 470
 Delta R.T. 0.00 min
 Lab File: 540258R.D
 Acq: 16 Mar 2021 10:18

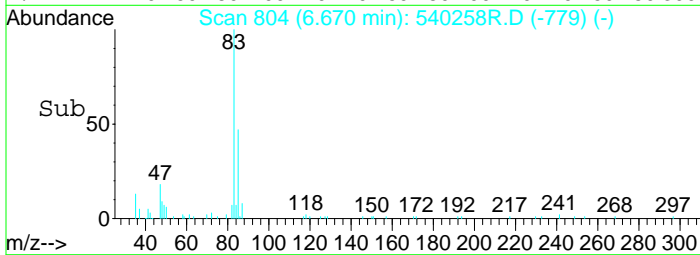
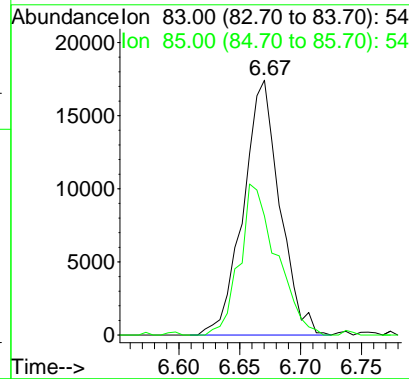
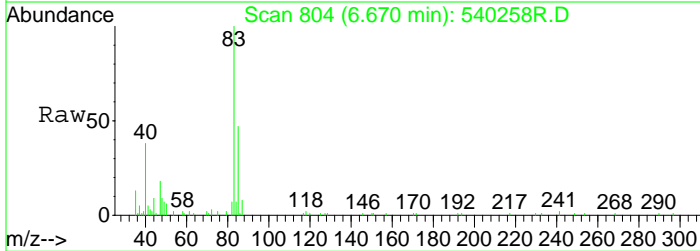
Tgt Ion	Resp	Lower	Upper
84	61480		
86	68.8	42.5	82.5
49	133.2	101.7	141.7





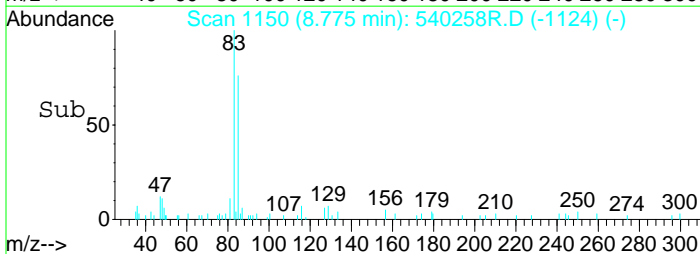
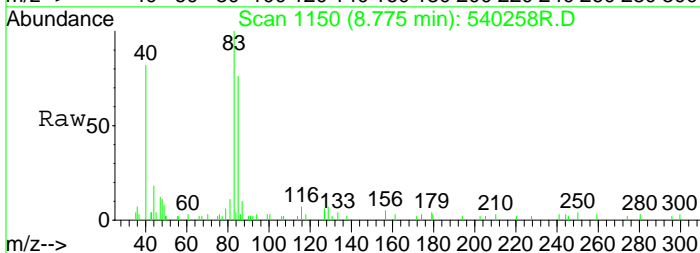
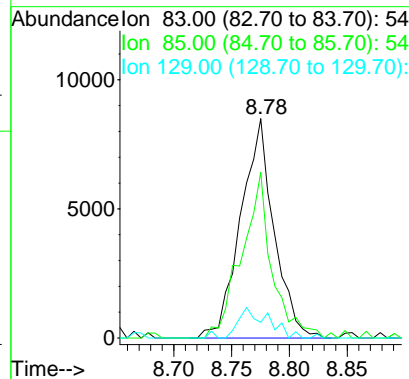
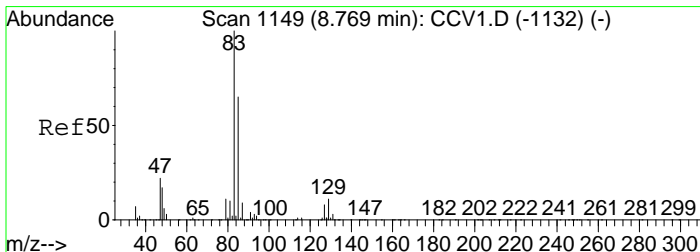
#39
 Chloroform
 Concen: 1.24 ug/L
 RT: 6.67 min Scan# 804
 Delta R.T. 0.00 min
 Lab File: 540258R.D
 Acq: 16 Mar 2021 10:18

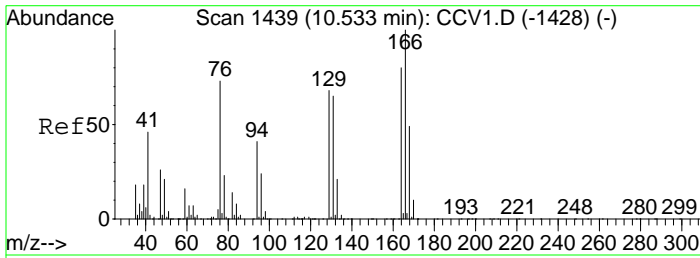
Tgt Ion	83	Resp	36340
Ion Ratio	Lower	Upper	
83	100		
85	59.8	47.1	87.1



#56
 Bromodichloro
 Concen: 0.79 ug/L
 RT: 8.78 min Scan# 1150
 Delta R.T. 0.01 min
 Lab File: 540258R.D
 Acq: 16 Mar 2021 10:18

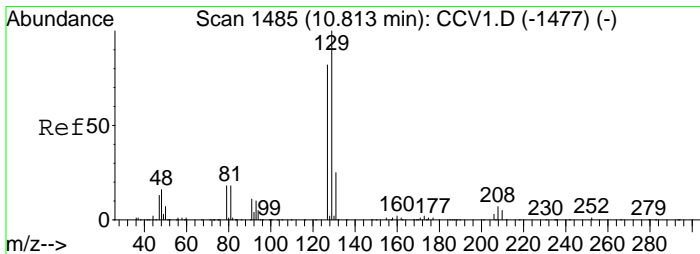
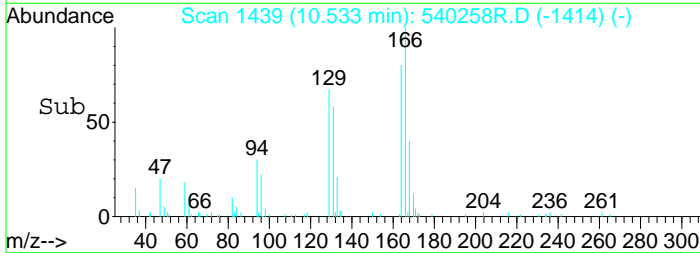
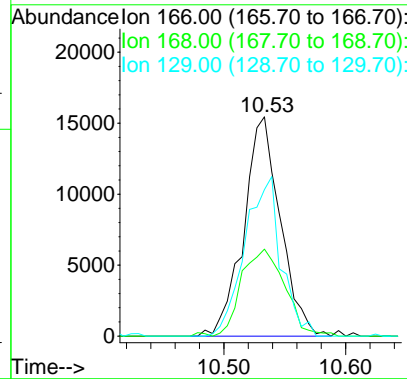
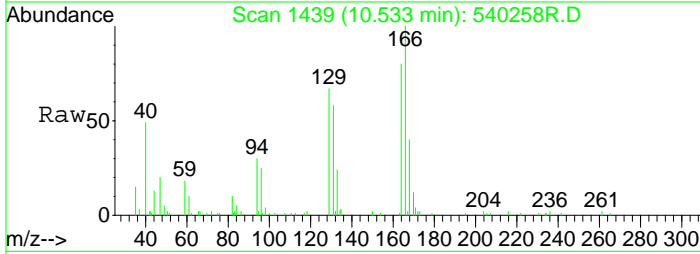
Tgt Ion	83	Resp	17005
Ion Ratio	Lower	Upper	
83	100		
85	68.7	43.3	83.3
129	0.0	0.0	31.4





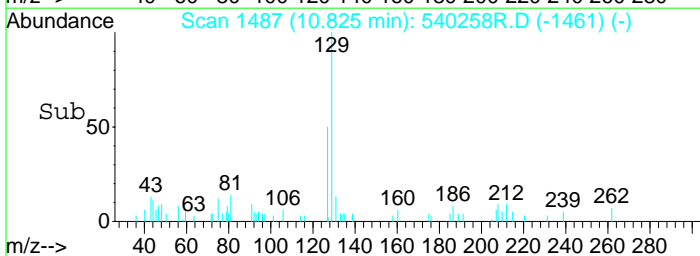
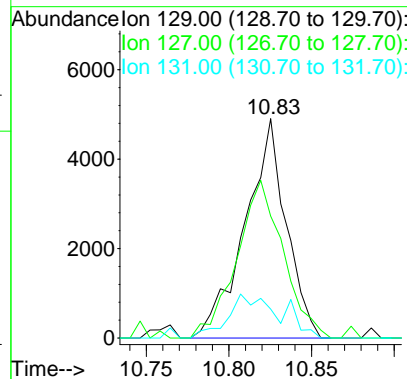
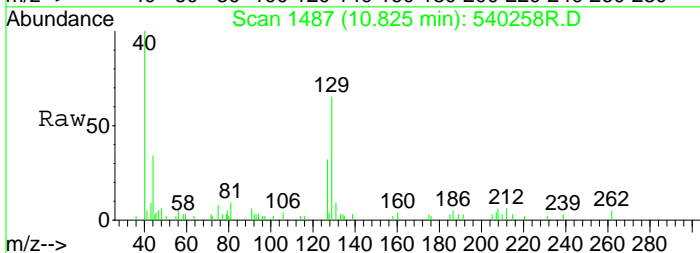
#66
 Tetrachlorte
 Concen: 1.67 ug/L
 RT: 10.53 min Scan# 1439
 Delta R.T. 0.00 min
 Lab File: 540258R.D
 Acq: 16 Mar 2021 10:18

Tgt Ion	Resp	Lower	Upper
166	100		
168	46.9	29.1	69.1
129	72.0	49.4	89.4



#70
 Clorodibrmta
 Concen: 0.51 ug/L
 RT: 10.83 min Scan# 1487
 Delta R.T. 0.01 min
 Lab File: 540258R.D
 Acq: 16 Mar 2021 10:18

Tgt Ion	Resp	Lower	Upper
129	100		
127	81.1	56.0	96.0
131	0.0	3.8	43.8#



**VOLATILE ORGANIC ANALYSIS
INITIAL CALIBRATION
DOCUMENTS**

Method Path : C:\INSTARCH\METHODS\
 Method File : W031121.M
 Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response Via : Initial Calibration

Rd 03/17/2021

Calibration Files ug/L
 1 0.5/5.0 =WCAL1.D 2 1.0/10.0 =WCAL2.D 3 2.0/20.0 =WCAL3.D
 4 5.0/50.0 =WCAL4.D 5 10.0/100.0 =WCAL5.D 6 20.0/200.0 =WCAL6.D
 7 30.0/300.0 =WCAL7.D 8 40.0/400.0 =WCAL8.D 9 80.0/800.0 =WCAL9.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
	8	9							

1) I	FLUOROBENZENE**ISTD**	-----ISTD-----								
2) PT	Dichlorodi	0.235	0.214	0.260	0.235	0.271	0.258	0.256	-----	
		0.245	0.225							
										Q A= -0.011 R=1.000
										B= 0.271
										C= -0.002
3) PT	Chloromethan	0.342	0.310	0.323	0.307	0.316	0.302	0.295	0.304	7.87
		0.284	0.259							
4) PT	Vinylchlorid	0.304	0.284	0.290	0.311	0.326	0.305	0.300	0.297	5.75
		0.287	0.268							
5) PT	Bromomethane		0.171	0.187	0.201	0.193	0.175	0.171	0.173	14.02
		0.165	0.121							
6) PT	Chloroethane		0.212	0.202	0.204	0.219	0.202	0.201	0.204	4.02
		0.201	0.191							
7) T	Dichloroflmeta	0.557	0.540	0.542	0.534	0.544	0.514	0.505	0.519	6.93
		0.489	0.442							
8) PT	Trichlorofma	0.428	0.298	0.391	0.357	0.432	0.392	0.397	0.382	10.65
		0.384	0.359							
9) T	Ethylether	0.238	0.236	0.201	0.226	0.231	0.225	0.226	0.225	4.96
		0.230	0.217							
10) T	dichlorotfluoro	0.247	0.236	0.267	0.266	0.295	0.271	0.279	0.265	6.58
		0.273	0.255							
11) T	propyleneoxide		0.048	0.053	0.052	0.054	0.053	0.055	0.052	5.13
		0.051	0.047							
12) T	Acrolein		0.047	0.045	0.044	0.045	0.044	0.044	0.045	3.03
		0.044	0.043							
13) PT	l1dichlorothe	0.272	0.207	0.233	0.227	0.259	0.244	0.249	0.240	7.85
		0.241	0.231							
14) PT	Trichlorotfluor	0.199	0.172	0.200	0.197	0.231	0.214	0.222	0.205	8.50
		0.215	0.199							
15) PT	Acetone	0.148	0.133	0.115	0.102	0.095	0.092	0.090	-----	
		0.084	0.072							
										Q A= -0.001 R=1.000
										B= 0.096
										C= 0.017
16) T	Iodomethane		0.244	0.235	0.235	0.260	0.265	0.268	0.251	5.62
		0.263	0.242							
17) PT	Carbon Dislf	0.660	0.620	0.622	0.597	0.638	0.570	0.552	0.579	12.15
		0.518	0.433							
18) T	allylchloride	0.437	0.400	0.427	0.396	0.422	0.398	0.389	0.397	8.59
		0.379	0.321							
19) PT	methylacetate		0.061	0.073	0.067	0.070	0.071	0.073	0.071#	7.33
		0.076	0.077							
20) PT	Methylchlorid	0.336	0.313	0.323	0.296	0.304	0.278	0.280	0.296	8.40
		0.276	0.260							
21) T	tbutylalcohol	0.031	0.030	0.030	0.030	0.029	0.029	0.028	0.028#	9.96
		0.027	0.022							
22) T	Acrylonitrile		0.128	0.122	0.116	0.121	0.116	0.116	0.116	7.20
		0.113	0.099							
23) PT	t12dichlororte	0.293	0.245	0.268	0.272	0.289	0.271	0.273	0.269	5.83
		0.263	0.250							
24) PT	MtBE	0.658	0.678	0.716	0.713	0.727	0.692	0.691	0.684	5.28

90)	T	4chlorotolue	2.274	2.074	2.137	2.069	2.083	1.923	1.881	1.957	12.81
			1.742	1.433							
91)	T	135Trimebenz	2.358	2.054	2.253	2.050	2.154	2.005	1.928	2.003	13.40
			1.777	1.452							
92)	T	tbutylbenzen	2.112	1.820	1.931	1.763	1.871	1.744	1.722	1.766	12.31
			1.597	1.334							
93)	T	124Trimetben	2.016	2.054	2.149	2.034	2.085	1.969	1.902	1.935	11.21
			1.767	1.438							
94)	T	sbutylbenzen	3.226	2.667	2.714	2.574	2.659	2.417	2.340	2.592	12.43
			2.139								
95)	PT	13Diclorobenz	1.349	1.304	1.279	1.228	1.226	1.181	1.158	1.199	9.67
			1.097	0.968							
96)	T	pIsopropylto	2.601	2.199	2.261	2.178	2.312	2.108	2.039	2.121	14.28
			1.888	1.507							
97)	PT	14dichlorobe	1.392	1.266	1.333	1.241	1.255	1.207	1.179	1.220	9.78
			1.119	0.984							
98)	PT	12dichlorobe	1.236	1.245	1.214	1.156	1.146	1.095	1.087	1.126	9.39
			1.041	0.915							
99)	T	nButylbenzen	2.362	1.991	2.046	1.917	2.042	1.895	1.871	1.916	13.66
			1.719	1.398							
100)	PT	12dibromo3cl		0.136	0.136	0.128	0.123	0.146	0.149	0.140	7.59
			0.148	0.151							
101)	T	135Trichloroben	0.876	0.745	0.788	0.763	0.767	0.790	0.782	0.772	6.53
			0.754	0.684							
102)	PT	124Trichlobe	0.726	0.637	0.678	0.646	0.649	0.678	0.668	0.662	4.80
			0.659	0.613							
103)	T	Hexachlorobu	0.415	0.301	0.352	0.334	0.361	0.363	0.370	0.354	8.81
			0.351	0.333							
104)	T	Naphthalene	1.785	1.487	1.630	1.572	1.619	1.622	1.595	1.567	8.95
			1.522	1.265							
105)	T	123Trichlben	0.694	0.592	0.628	0.612	0.609	0.617	0.618	0.615	5.75
			0.609	0.560							

Total Average %RSD 7.11

L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range

W031121.M

Tue Mar 16 09:00:36 2021

Data File : C:\Instarch\Data\MAR1121\BFB1.D
 Acq On : 11 Mar 2021 10:32
 Sample : BFB DIRECT INJ.
 Misc : 50 ng Inj.
 Integration File: VOC.P

Vial: 1
 Operator: RLD-DGS
 Inst : VMS3
 Multiplr: 1.00

Method : C:\INSTARCH\METHODS\W031121.M
 Title : 8260C Waters Method

Spectrum Information: Average of 4.656 to 4.669 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.1	22118	PASS
75	95	30	60	49.5	49550	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	6.9	6949	PASS
173	174	0.00	2	0.6	471	PASS
174	95	50	100	80.5	80543	PASS
175	174	5	9	8.1	6539	PASS
176	174	95	101	99.0	79770	PASS
177	176	5	9	6.4	5133	PASS

W031121.M Mon Mar 15 11:16:46 2021

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1121\WCAL1.D
 Acq On : 11 Mar 2021 11:46
 Sample : INITIAL CALIB. PT1
 Misc : 0.5/5.0 ug/L, 5.0 mL Purged + IS/SS
 MS Integration Params: VOC.P

Vial: 4
 Operator: RLD-DGS
 Inst : VMS3
 Multiplr: 1.00

Quant Time: Mar 12 08:01:06 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method
 Last Update : Fri Mar 12 06:57:55 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
						Rcv (Ar)
1) FLUOROBENZENE**ISTD**	7.71	96	1309552	20.00	ug/L	0.00
68) d5-CHLORO BENZENE**ISTD**	11.62	117	1095767	20.00	ug/L	0.00
82) d4-1,4-DICHLORO BENZENE**IS	14.92	152	606021	20.00	ug/L	0.00

System Monitoring Compounds

41) SURRDibrflma	6.86	113	343638	19.973	ug/L	0.00
Spiked Amount	20.000	Range	90 - 110	Recovery	= 100	%
45) SURR12DCAd4	7.27	102	94864	20.338	ug/L	0.00
Spiked Amount	20.000	Range	89 - 111	Recovery	= 102	%
61) SURRD8Tolule	9.71	98	1318347	20.031	ug/L	0.00
Spiked Amount	20.000	Range	93 - 107	Recovery	= 100	%
83) SURR4BrFBenz	13.26	95	567063	20.327	ug/L	0.00
Spiked Amount	20.000	Range	83 - 111	Recovery	= 102	%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodi	1.84	85	7709	0.4818	ug/L	86
3) Chloromethan	2.09	50	11205	0.5629	ug/L	98
4) VinylChlorid	2.25	62	9945	0.5113	ug/L #	49
5) Bromomethane	2.71	94	8943	0.7317	ug/L	79
6) Chloroethane	2.87	64	8371	0.6270	ug/L	73
7) Dichloroflmethane	3.20	67	18251	0.5375	ug/L	91
8) Trichlorofma	3.26	101	14028	0.5608	ug/L	98
9) Ethylether	3.71	59	7803	0.5286	ug/L	96
10) dichlorotfluoroethan	3.73	67	8099	0.4659	ug/L	84
11) propyleneoxide	3.77	58	16048	4.7388	ug/L	82
12) Acrolein	3.85	56	7339	2.5174	ug/L	89
13) 11dichlorothe	3.99	96	8895	0.5654	ug/L	88
14) Trichlorotfluoroeth	4.04	101	13016	0.9681	ug/L	95
15) Acetone	4.07	43	48585m	6.9023	ug/L	95
16) Iodomethane	4.17	142	17950	1.0901	ug/L	91
17) Carbon Dislf	4.26	76	43246	1.1405	ug/L	97
18) allylchloride	4.48	41	28640	1.1031	ug/L	97
19) methylacetate	4.53	74	2739	0.5903	ug/L #	59
20) Methylchlorid	4.63	84	11016	0.5675	ug/L	89
21) tbutylalcohol	4.84	59	51164	27.5131	ug/L	95
22) Acrylonitrile	4.94	53	21212	2.7828	ug/L	91
23) t12dichlorite	5.02	96	9577	0.5433	ug/L	97
24) MtBE	5.05	73	21538	0.4806	ug/L	94
25) Hexane	5.41	57	26473	1.0717	ug/L	96
26) 11dichlorota	5.54	63	16446	0.5386	ug/L	100
27) Vinylacetate	5.63	43	185961	6.4648	ug/L	95
28) chloroprene	5.67	53	27727	1.0492	ug/L	98
29) Diisopether	5.69	45	28278	0.5266	ug/L	94
30) ETBE	6.14	59	24174	0.5546	ug/L	92
31) 22dichloropr	6.28	77	10143	0.4906	ug/L	99
32) c12dichlorite	6.27	96	10826	0.5490	ug/L	96
33) 2Butanone	6.29	72	15052	5.6892	ug/L	97
34) propionitrile	6.34	54	17124	5.1813	ug/L	94
35) Ethylacetate	6.38	88	2840	3.0510	ug/L #	68
36) methacrylonitrile	6.53	67	9989	1.0249	ug/L	93
37) Bromochlorma	6.56	128	4571	0.5139	ug/L	88
38) Tetrahydrofur	6.65	42	35732	5.7294	ug/L	93

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

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1121\WCAL1.D
 Acq On : 11 Mar 2021 11:46
 Sample : INITIAL CALIB. PT1
 Misc : 0.5/5.0 ug/L, 5.0 mL Purged + IS/SS
 MS Integration Params: VOC.P

Vial: 4
 Operator: RLD-DGS
 Inst : VMS3
 Multiplr: 1.00

Quant Time: Mar 12 08:01:06 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method
 Last Update : Fri Mar 12 06:57:55 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Chloroform	6.66	83	16209	0.5312	ug/L	93
40) 111trichlota	6.91	97	11854	0.5032	ug/L	85
42) Cyclohexane	7.00	56	12142	0.4653	ug/L	87
43) Carbtetracl	7.13	119	8647	0.4590	ug/L	98
44) 11dicloprope	7.11	110	5229	0.5905	ug/L #	74
46) Benzene	7.36	78	40058	0.5675	ug/L	96
47) 12dichlorota	7.36	62	12672	0.5285	ug/L #	91
48) TAME	7.53	73	22460	0.5238	ug/L	97
49) trichloroete	8.17	95	10617	0.5777	ug/L	97
50) methylcyclohexane	8.43	83	16160	0.4845	ug/L	85
51) 12dicloropra	8.43	63	9956	0.5012	ug/L #	87
52) 23Dicl1propene	8.49	75	12783	0.4765	ug/L	98
53) Dibromometha	8.56	93	4918	0.4292	ug/L #	72
54) methylmethacrylate	8.60	69	7251	0.4952	ug/L	93
55) 14dioxane	8.62	88	10719	36.8698	ug/L	94
56) Bromodiclma	8.77	83	11191	0.4981	ug/L	98
57) 2Nitropropane	9.04	43	25695	5.3126	ug/L	92
58) 2CLEVE	9.16	63	30901	2.4882	ug/L	97
59) c13dicloproe	9.35	75	14157	0.5073	ug/L	90
60) 4Meth2Pentan	9.55	43	98238	5.9313	ug/L	96
62) Toluene	9.80	92	25231	0.5494	ug/L	91
63) t13Dicloprop	10.05	75	9372	0.4245	ug/L	87
64) ethylmethacrylate	10.20	69	24188	1.0033	ug/L	94
65) 112Triclotha	10.29	83	7766	0.5475	ug/L	94
66) Tetrachlorte	10.53	166	10252	0.5120	ug/L	95
67) 13Diclorpropa	10.52	76	15011	0.5110	ug/L	98
69) 2Hexanone	10.64	43	69553	5.7345	ug/L	97
70) Clorodibrmta	10.83	129	7298	0.4491	ug/L	91
71) 12Dibrometha	10.97	107	7839	0.4755	ug/L	97
72) Chlorobenzen	11.66	112	43136	0.7984	ug/L	84
73) 1Clhexane	11.63	91	13195	0.5736	ug/L #	31
74) 1112Tetclota	11.78	131	6827	0.4486	ug/L	95
75) Ethylbenzene	11.82	91	44626	0.5717	ug/L	95
76) m p-Xylene	11.99	106	34306	1.0984	ug/L	91
77) o-Xylene	12.53	106	15173	0.4989	ug/L #	80
78) Styrene	12.54	104	24999	0.5048	ug/L	97
79) Bromoform	12.77	173	4655	0.4001	ug/L	92
80) Isopropylben	13.06	105	42913	0.5799	ug/L	99
81) cyclohexanone	13.14	55	10607	11.7764	ug/L #	95
84) Bromobenzene	13.47	156	11124	0.5418	ug/L	97
85) 1122Tetrclta	13.44	83	11848	0.5165	ug/L	100
86) 123Triclproa	13.50	75	13997	0.5118	ug/L	96
87) 14dichloro2butene	13.51	53	2563	0.3792	ug/L #	31
88) n-Propylbenz	13.64	91	52940	0.6268	ug/L	93
89) 2chlorotolue	13.75	91	28758	0.5522	ug/L	99
90) 4chlorotolue	13.90	91	34455	0.5809	ug/L	95
91) 135Trimebenz	13.90	105	35720	0.5884	ug/L	97
92) tbutylbenzen	14.37	119	31993	0.5979	ug/L	97
93) 124Trimetben	14.44	105	30542	0.5209	ug/L	94
94) sbutylbenzen	14.68	105	48878	0.6475	ug/L	97
95) 13Diclorbenz	14.82	146	20445	0.5627	ug/L	92
96) pIsopropylto	14.91	119	39399m	0.6095	ug/L	96
97) 14dichlorobe	14.95	146	21092	0.5707	ug/L #	71
98) 12dichlorobe	15.49	146	18722	0.5487	ug/L #	61
99) nButylbenzen	15.50	91	35792m	0.6093	ug/L	95
100) 12dibromo3cl	16.59	157	1921	0.4538	ug/L #	73
101) 135Trichlorobenzene	16.91	180	13272	0.5673	ug/L	90

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

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1121\WCAL1.D
 Acq On : 11 Mar 2021 11:46
 Sample : INITIAL CALIB. PT1
 Misc : 0.5/5.0 ug/L, 5.0 mL Purged + IS/SS
 MS Integration Params: VOC.P

Vial: 4
 Operator: RLD-DGS
 Inst : VMS3
 Multiplr: 1.00

Quant Time: Mar 12 08:01:06 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
 Title : 8260C Waters Method
 Last Update : Fri Mar 12 06:57:55 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

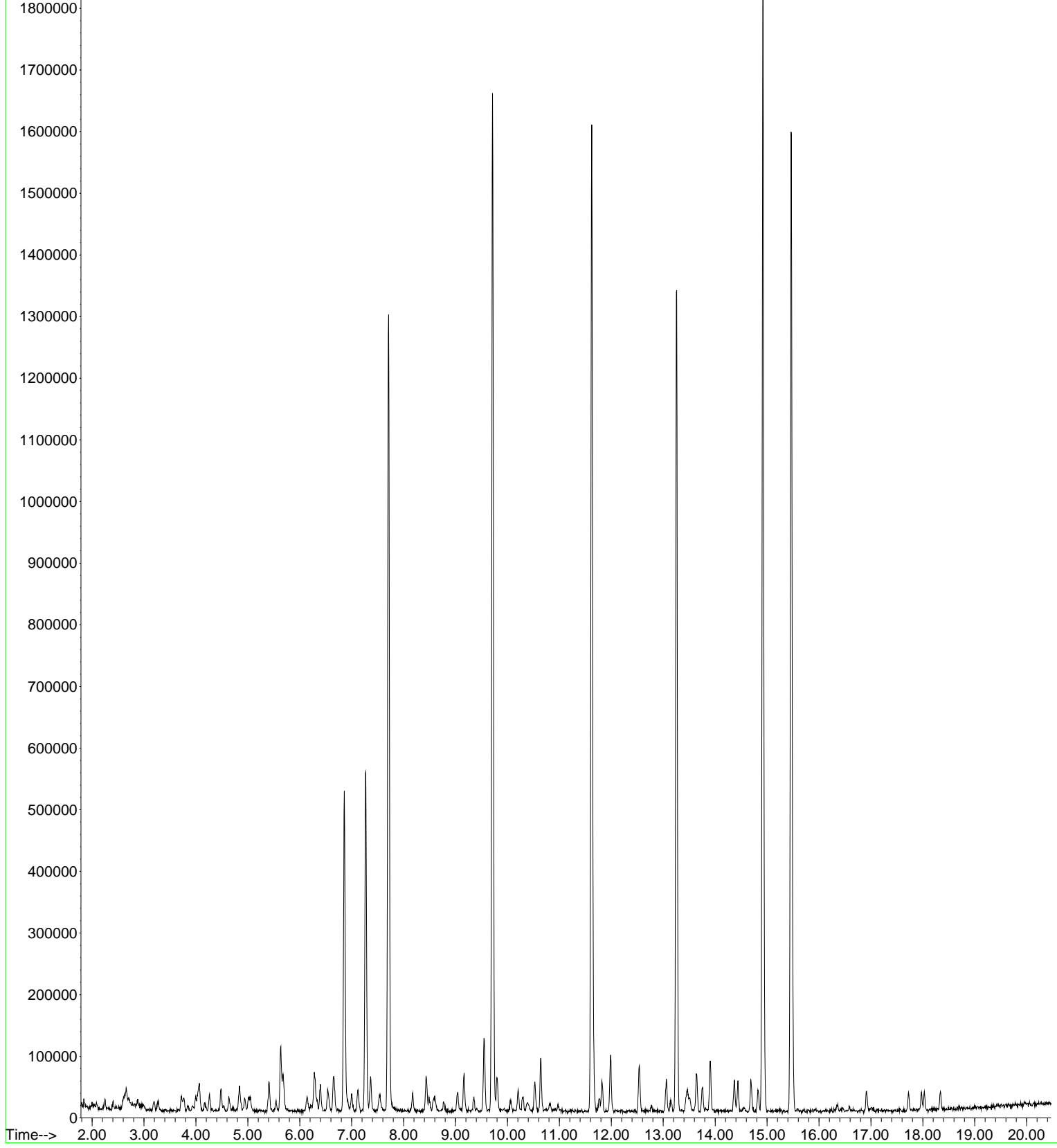
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.72	180	10993	0.5484	ug/L	99
103) Hexachlorobu	17.97	225	6291	0.5872	ug/L	84
104) Naphthalene	18.03	128	27038	0.5696	ug/L	96
105) 123Trichlben	18.34	180	10508	0.5635	ug/L	96

Abundance
Date: 20200901
File : C:\INSTARCH\DATA\MAR1121\WCAL1.D
Acq On : 11 Mar 2021 11:46
Sample : INITIAL CALIB. PT1
Mixture : 0.5/5.0 ug/L, 5.0 mL Purged + IS/SS
MS Integration Params: VOC.P

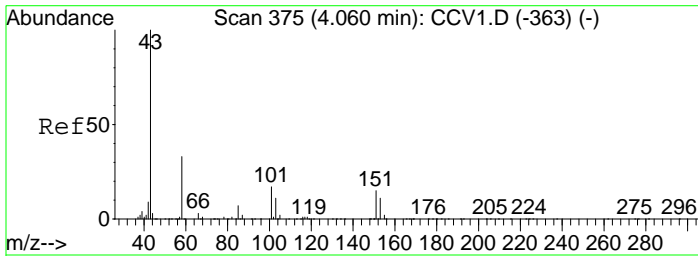
TIC: WCAL1.D
Vial: 4
Operator: RLD-DGS
Inst : VMS3
Multiplr: 1.00

Quant. Time: Mar 12 08:01:06 2021 Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 12 06:57:55 2021
Response via : Initial Calibration
DataAcq Meth : W031121.M

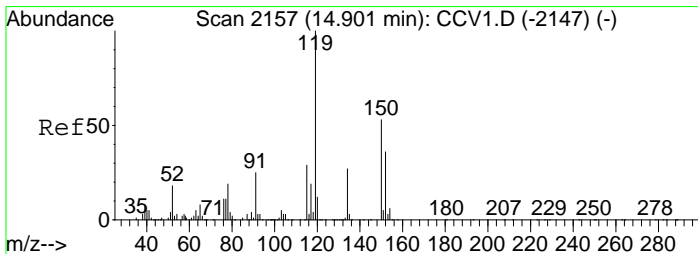
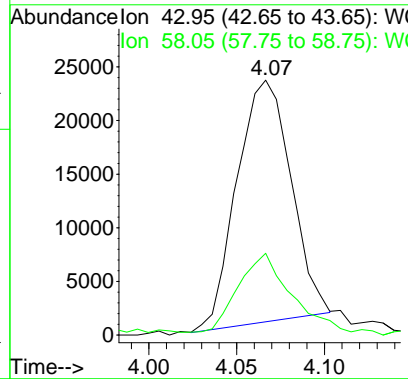
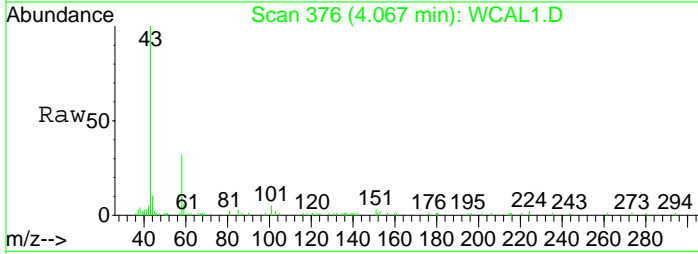


DGS 03/16/2021



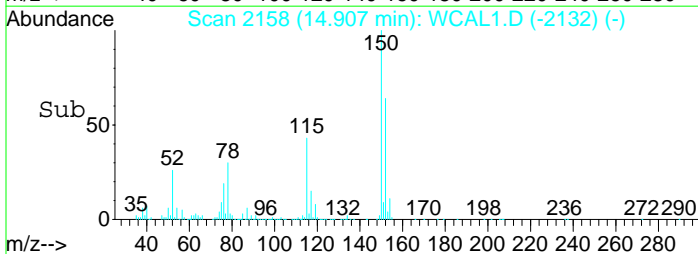
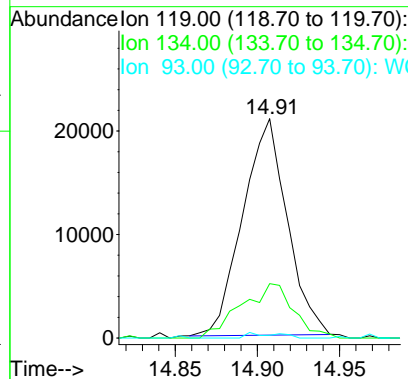
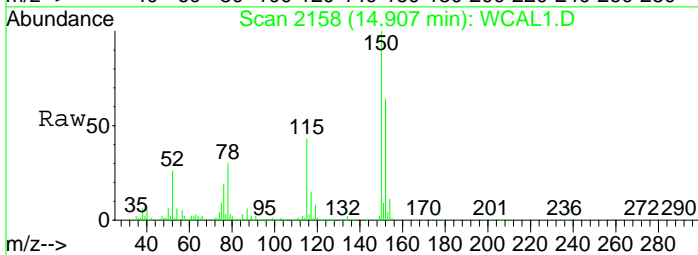
#15
 Acetone
 Concen: 6.90 ug/L m
 RT: 4.07 min Scan# 376
 Delta R.T. 0.01 min
 Lab File: WCAL1.D
 Acq: 11 Mar 2021 11:46

Tgt Ion	Resp	Lower	Upper
43	100		
58	34.8	12.1	52.1



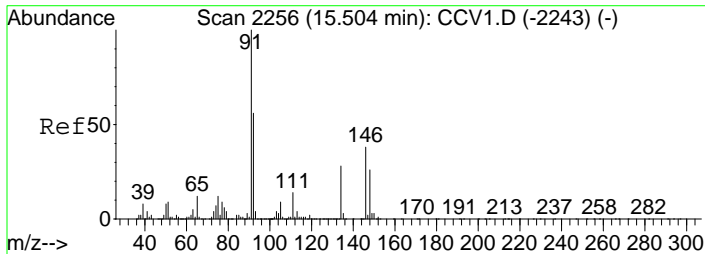
#96
 pIsopropylto
 Concen: 0.61 ug/L m
 RT: 14.91 min Scan# 2158
 Delta R.T. 0.01 min
 Lab File: WCAL1.D
 Acq: 11 Mar 2021 11:46

Tgt Ion	Resp	Lower	Upper
119	100		
134	29.6	6.7	46.7
93	0.0	0.0	22.6



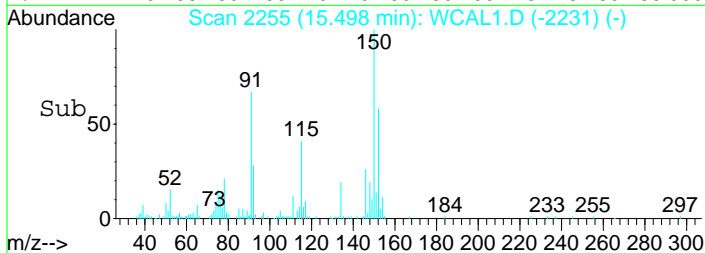
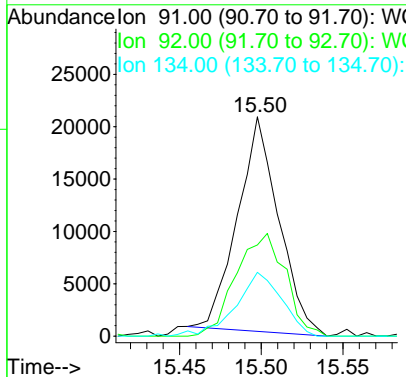
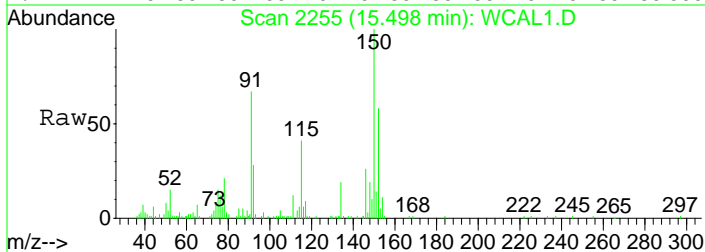
RJ 03/17/2021

DGS 03/16/2021

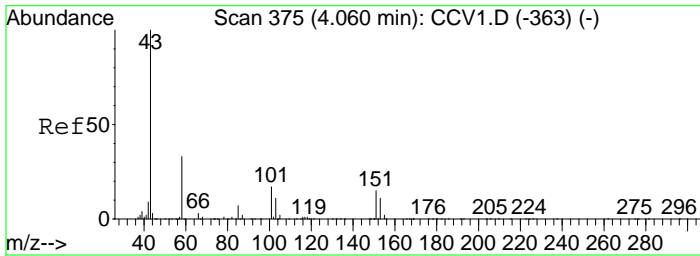


#99
 nButylbenzen
 Concen: 0.61 ug/L m
 RT: 15.50 min Scan# 2255
 Delta R.T. -0.01 min
 Lab File: WCAL1.D
 Acq: 11 Mar 2021 11:46

Tgt Ion	91	Resp	35792
Ion Ratio	Lower	Upper	
91	100		
92	57.5	35.9	75.9
134	33.4	7.2	47.2



RJ 03/17/2021

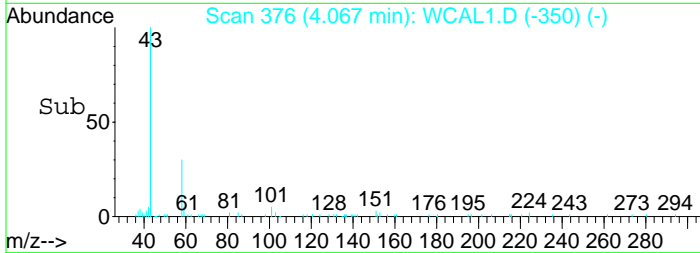
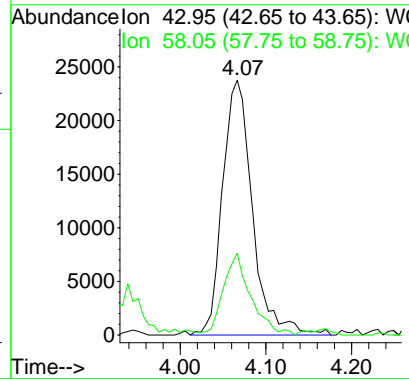
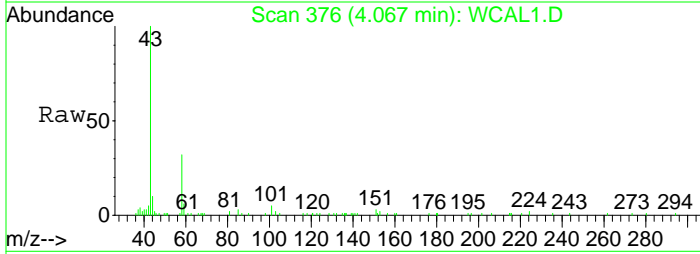


#15
 Acetone
 Concen: 5.68 ug/L
 RT: 4.07 min Scan# 376
 Delta R.T. 0.01 min
 Lab File: WCAL1.D
 Acq: 11 Mar 2021 11:46

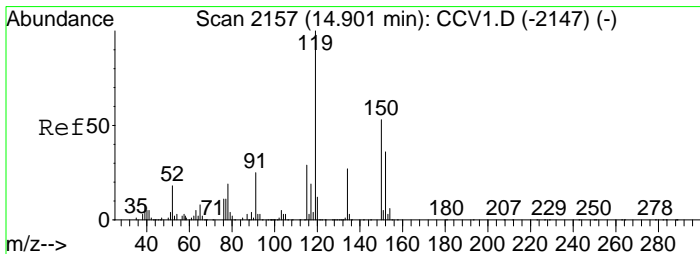
Before Manual Integration

DGE 03/16/2021

Tgt Ion:	43	Resp:	57704
Ion Ratio	100	Lower	Upper
	58	29.3	12.1 52.1

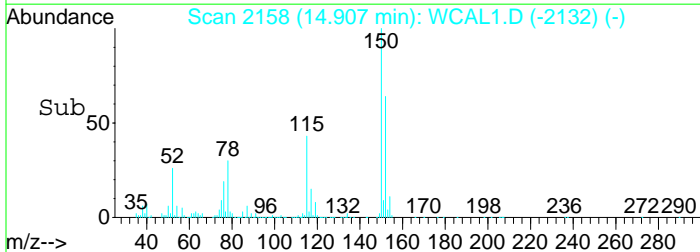
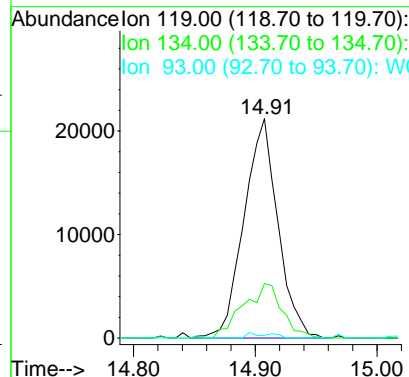
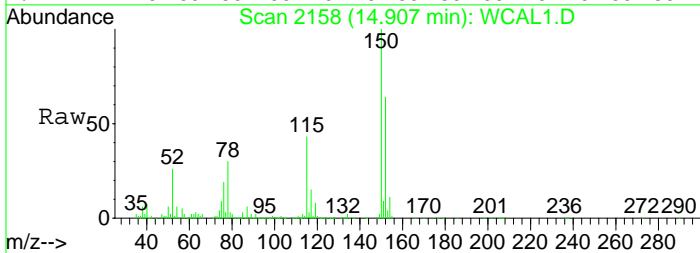


REASON # 2



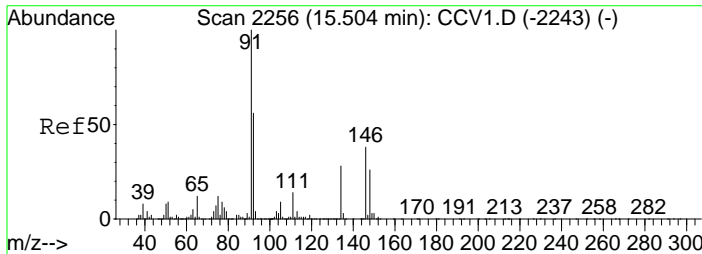
#96
 pIsopropylto
 Concen: 0.64 ug/L
 RT: 14.91 min Scan# 2158
 Delta R.T. 0.01 min
 Lab File: WCAL1.D
 Acq: 11 Mar 2021 11:46

Tgt Ion:	119	Resp:	41008
Ion Ratio	100	Lower	Upper
	134	28.4	6.7 46.7
	93	0.0	0.0 22.6



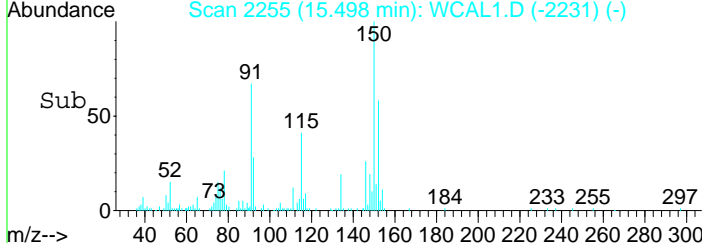
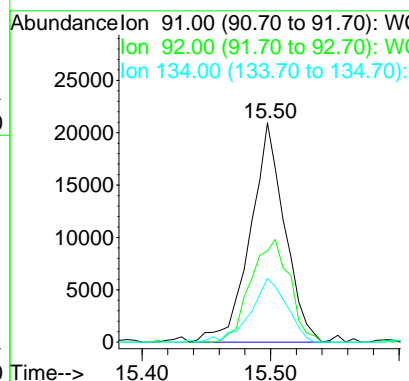
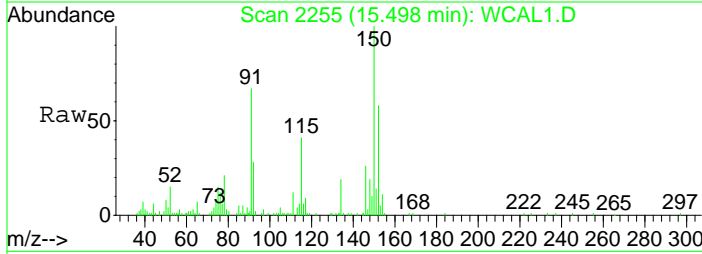
REASON # 2

DGS 03/16/2021



#99
 nButylbenzen
 Concen: 0.67 ug/L
 RT: 15.50 min Scan# 2255
 Delta R.T. -0.01 min
 Lab File: WCAL1.D
 Acq: 11 Mar 2021 11:46

Tgt Ion	Resp	Lower	Upper
91	38944		
91	100		
92	52.9	35.9	75.9
134	30.7	7.2	47.2



REASON # 2

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1121\WCAL2.D

Vial: 5

Acq On : 11 Mar 2021 12:15

Operator: RLD-DGS

Sample : INITIAL CALIB. PT2

Inst : VMS3

Misc : 1.00/10.00 ug/L, 5.0 mL Purged + IS/SS

Multiplr: 1.00

MS Integration Params: VOC.P

Quant Time: Mar 12 08:01:54 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method

Last Update : Fri Mar 12 06:57:32 2021

Response via : Initial Calibration

DataAcq Meth : W031121.M

IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
						Rcv (Ar)
1) FLUOROBENZENE**ISTD**	7.71	96	1260418	20.00	ug/L	0.00
						NA%
68) d5-CHLOROENZENE**ISTD**	11.62	117	1090045	20.00	ug/L	0.00
						NA%
82) d4-1,4-DICHLOROENZENE**IS	14.92	152	608988	20.00	ug/L	0.00
						NA%

System Monitoring Compounds

41) SURRDibrflma	6.86	113	328263	19.823	ug/L	0.00
Spiked Amount	20.000	Range	90 - 110	Recovery	= 99	%
45) SURR12DCAd4	7.27	102	91302	20.338	ug/L	0.00
Spiked Amount	20.000	Range	89 - 111	Recovery	= 102	%
61) SURRD8Tolule	9.71	98	1258084	19.861	ug/L	0.00
Spiked Amount	20.000	Range	93 - 107	Recovery	= 99	%
83) SURR4BrFBenz	13.25	95	560412	19.991	ug/L	0.00
Spiked Amount	20.000	Range	83 - 111	Recovery	= 100	%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodi	1.84	85	13512	0.8773	ug/L	99
3) Chloromethan	2.09	50	19511	1.0183	ug/L	99
4) VinylChlorid	2.25	62	17867	0.9543	ug/L	79
5) Bromomethane	2.70	94	10794m	0.9176	ug/L #	85
6) Chloroethane	2.87	64	13340	1.0382	ug/L	96
7) Dichloroflmethane	3.19	67	34050	1.0419	ug/L	96
8) Trichlorofma	3.27	101	18786	0.7803	ug/L	91
9) Ethylether	3.71	59	14863	1.0462	ug/L	97
10) dichlorotfluoroethan	3.71	67	14879	0.8893	ug/L	98
11) propyleneoxide	3.77	58	30460	9.3451	ug/L	91
12) Acrolein	3.84	56	14911	5.3141	ug/L	98
13) 11dichlorothe	3.99	96	13049	0.8618	ug/L	93
14) Trichlorotfluoroeth	4.04	101	21630	1.6714	ug/L	97
15) Acetone	4.06	43	84021m	12.4018	ug/L	96
16) Iodomethane	4.18	142	30764	1.9412	ug/L	97
17) Carbon Dislf	4.26	76	78133	2.1409	ug/L	97
18) allylchloride	4.48	41	50395	2.0166	ug/L	100
19) methylacetate	4.53	74	3822	0.8558	ug/L	83
20) Methylchlorid	4.64	84	19724	1.0557	ug/L	94
21) tbutylalcohol	4.83	59	93837	52.4273	ug/L	98
22) Acrylonitrile	4.94	53	40305	5.4937	ug/L	97
23) t12dichlorthe	5.02	96	15455	0.9109	ug/L #	79
24) MtBE	5.05	73	42740	0.9910	ug/L	99
25) Hexane	5.40	57	39452	1.6593	ug/L	99
26) 11dichlorota	5.53	63	28812	0.9805	ug/L	91
27) Vinylacetate	5.63	43	360350	13.0156	ug/L	93
28) chloroprene	5.67	53	45261	1.7794	ug/L	98
29) Diisopether	5.68	45	51588	0.9982	ug/L	98
30) ETBE	6.14	59	43880	1.0459	ug/L	94
31) 22dichloropr	6.28	77	19733	0.9916	ug/L	91
32) c12dichlorthe	6.27	96	18881	0.9948	ug/L	97
33) 2Butanone	6.29	72	29034	11.4017	ug/L	91
34) propionitrile	6.33	54	32818	10.3170	ug/L	98
35) Ethylacetate	6.40	88	4006	4.4714	ug/L #	81
36) methacrylonitrile	6.54	67	18952	2.0204	ug/L	94
37) Bromochloroma	6.56	128	9083	1.0610	ug/L	88
38) Tetrahydrofur	6.65	42	64007	10.6632	ug/L	97

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

Quant Time: Mar 12 08:01:54 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method

Last Update : Fri Mar 12 06:57:32 2021

Response via : Initial Calibration

DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Chloroform	6.67	83	30897	1.0521	ug/L	93
40) 111trichlota	6.91	97	20904	0.9220	ug/L	96
42) Cyclohexane	7.00	56	21343	0.8497	ug/L	97
43) Carbtetracl	7.13	119	15935	0.8789	ug/L	90
44) 11dicloprope	7.11	110	7905	0.9275	ug/L	94
46) Benzene	7.36	78	77936	1.1472	ug/L	97
47) 12dichlorota	7.36	62	21715	0.9409	ug/L	97
48) TAME	7.53	73	39353	0.9535	ug/L	93
49) trichloroete	8.17	95	16326	0.9229	ug/L	93
50) methylcyclohexane	8.43	83	27985	0.8718	ug/L	96
51) 12dicloropra	8.43	63	20041	1.0482	ug/L	90
52) 23Dicl1propene	8.49	75	25688	0.9949	ug/L	98
53) Dibromometha	8.57	93	11470	1.0400	ug/L	95
54) methylmethacrylate	8.60	69	14021	0.9948	ug/L	94
55) 14dioxane	8.62	88	15481	55.3253	ug/L	94
56) Bromodicl rma	8.78	83	20860	0.9647	ug/L	90
57) 2Nitropropane	9.03	43	45382	9.7488	ug/L	99
58) 2CLEVE	9.16	63	61881	5.1770	ug/L	96
59) c13dicloproe	9.35	75	27546	1.0256	ug/L	91
60) 4Meth2Pentan	9.55	43	195380	12.2562	ug/L	93
62) Toluene	9.80	92	48226	1.0911	ug/L	99
63) t13Dicloprop	10.06	75	19791	0.9313	ug/L	90
64) ethylmethacrylate	10.20	69	44269	1.9078	ug/L	96
65) 112Triclotha	10.29	83	12517	0.9169	ug/L #	82
66) Tetrachlorte	10.53	166	17665	0.9165	ug/L	92
67) 13Diclorpropa	10.52	76	29272	1.0352	ug/L	100
69) 2Hexanone	10.64	43	143661	11.9068	ug/L	96
70) Clorodibrmta	10.82	129	14825	0.9171	ug/L	87
71) 12Dibrometha	10.97	107	15725	0.9589	ug/L	95
72) Chlorobenzen	11.66	112	65153	1.2123	ug/L	84
73) 1Clhexane	11.64	91	23154	1.0118	ug/L #	71
74) 1112Tetclota	11.76	131	15135	0.9996	ug/L	93
75) Ethylbenzene	11.82	91	89411	1.1514	ug/L	93
76) m p-Xylene	11.99	106	65248	2.1001	ug/L	91
77) o-Xylene	12.53	106	29557	0.9770	ug/L #	85
78) Styrene	12.55	104	48966	0.9939	ug/L	97
79) Bromoform	12.77	173	11814	1.0207	ug/L	95
80) Isopropylben	13.06	105	75799	1.0297	ug/L	97
81) cyclohexanone	13.14	55	18069	20.1664	ug/L	96
84) Bromobenzene	13.47	156	21829	1.0579	ug/L	96
85) 1122Tetrclta	13.44	83	25926	1.1247	ug/L	98
86) 123Triclproa	13.50	75	27376	0.9962	ug/L	100
87) 14dichloro2butene	13.52	53	6803	1.0015	ug/L	96
88) n-Propylbenz	13.64	91	93986	1.1074	ug/L	93
89) 2chlorotolue	13.76	91	59842	1.1434	ug/L	99
90) 4chlorotolue	13.91	91	63156	1.0596	ug/L	98
91) 135Trimebenz	13.90	105	62558	1.0255	ug/L	92
92) tbutylbenzen	14.37	119	55419	1.0306	ug/L	97
93) 124Trimetben	14.43	105	62558	1.0618	ug/L	93
94) sbutylbenzen	14.69	105	81197	1.0705	ug/L	97
95) 13Diclorbenz	14.82	146	39705	1.0875	ug/L	94
96) pIsopropylto	14.91	119	66971	1.0311	ug/L	98
97) 14dichlorobe	14.96	146	38551	1.0380	ug/L	79
98) 12dichlorobe	15.50	146	37919	1.1058	ug/L #	84
99) nButylbenzen	15.50	91	60616	1.0268	ug/L	96
100) 12dibromo3cl	16.59	157	4156	0.9770	ug/L	88
101) 135Trichlorobenzene	16.92	180	22695	0.9653	ug/L	95

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

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1121\WCAL2.D Vial: 5
 Acq On : 11 Mar 2021 12:15 Operator: RLD-DGS
 Sample : INITIAL CALIB. PT2 Inst : VMS3
 Misc : 1.00/10.00 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
 MS Integration Params: VOC.P

Quant Time: Mar 12 08:01:54 2021 Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
 Title : 8260C Waters Method
 Last Update : Fri Mar 12 06:57:32 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.73	180	19402	0.9632	ug/L	96
103) Hexachlorobu	17.97	225	9176	0.8523	ug/L	89
104) Naphthalene	18.03	128	45283	0.9493	ug/L	94
105) 123Trichlben	18.34	180	18013	0.9613	ug/L	97

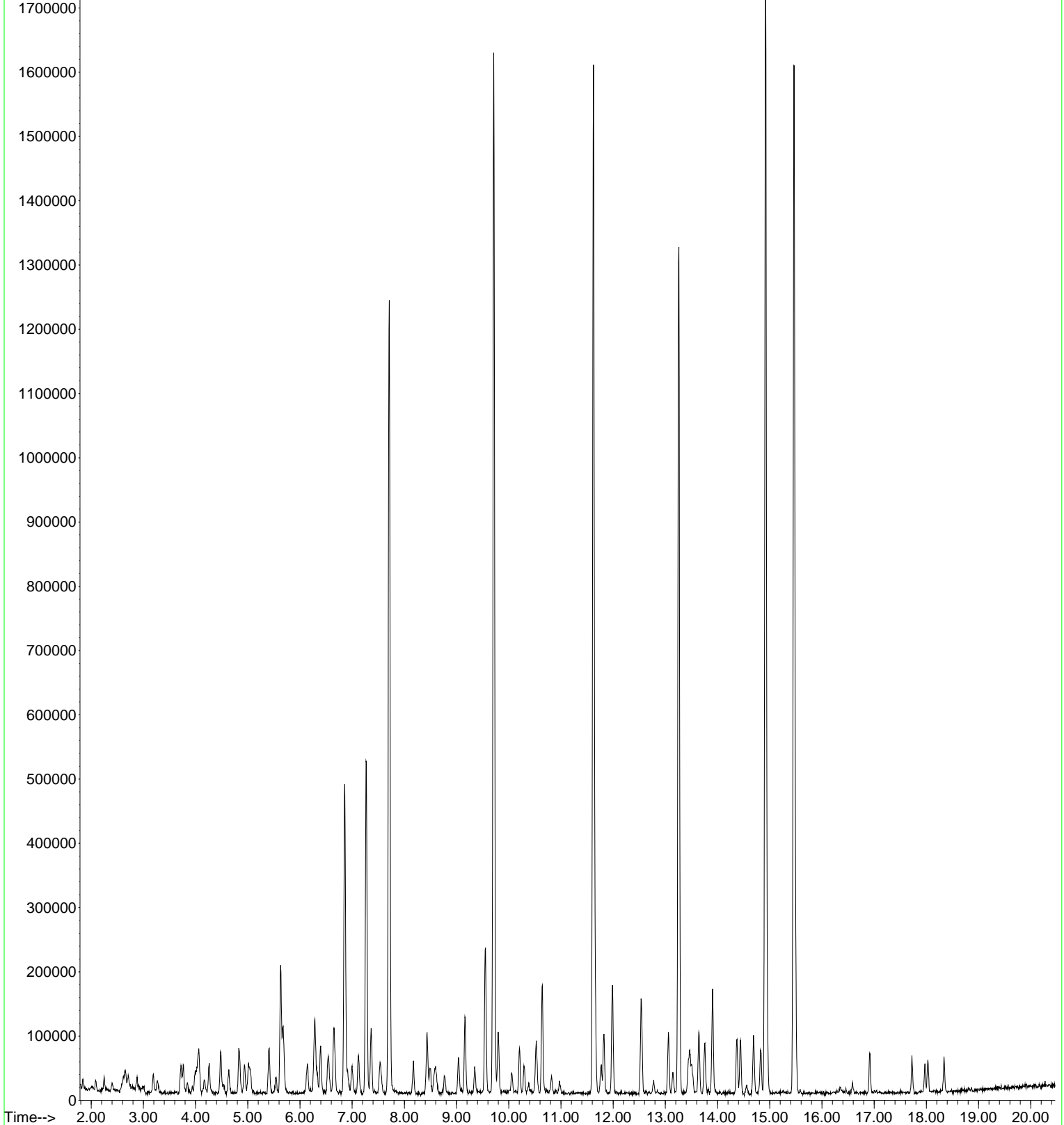
Quantitation Report

TIC: WCAL2.D

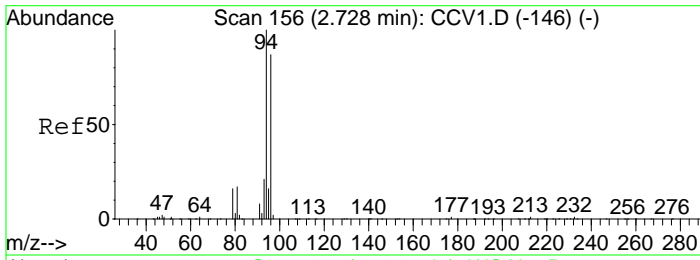
Abundance
Data File : C:\INSTARCH\DATA\MAR1121\WCAL2.D Vial: 5
Acq On : 11 Mar 2021 12:15 Operator: RLD-DGS
Sample : INITIAL CALIB. PT2 Inst : VMS3
Misc : 1.00/10.00 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS200000
100000
0

Quant Time: Mar 12 08:01:54 2021 Results File: W031121.RES

1900000
Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 12 06:57:32 2021
Response via : Initial Calibration
1800000
1700000
1600000
1500000
1400000
1300000
1200000
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
DataAcq Meth : W031121.M

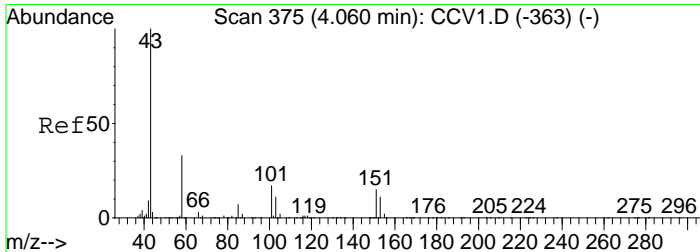
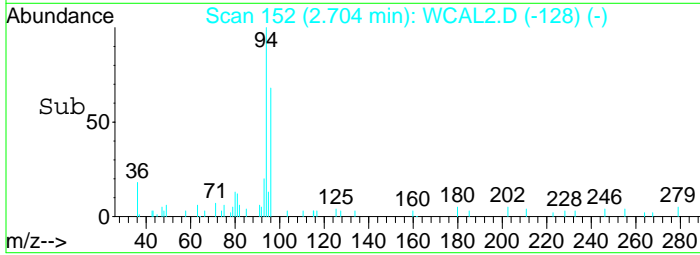
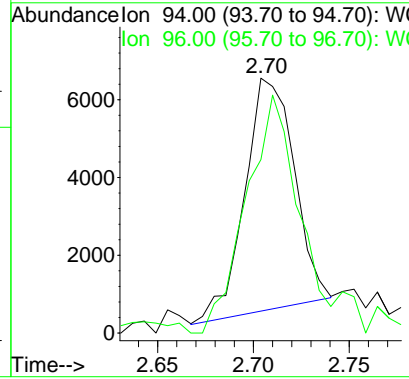
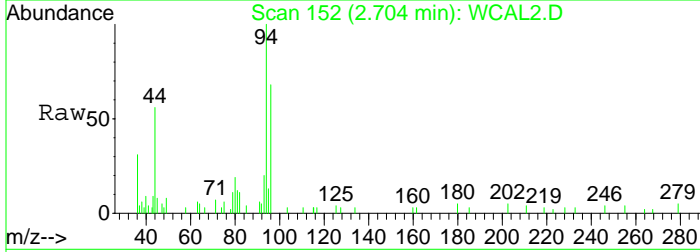


DGE 03/16/2021



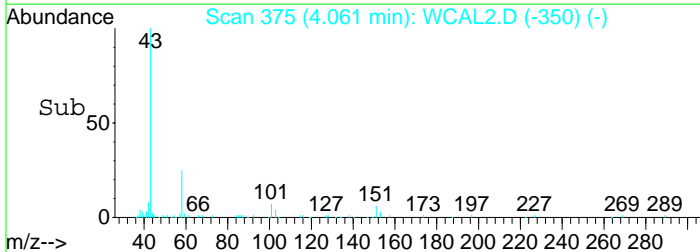
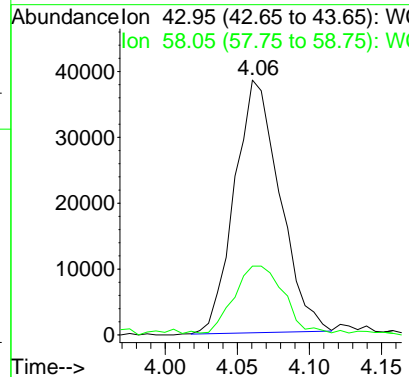
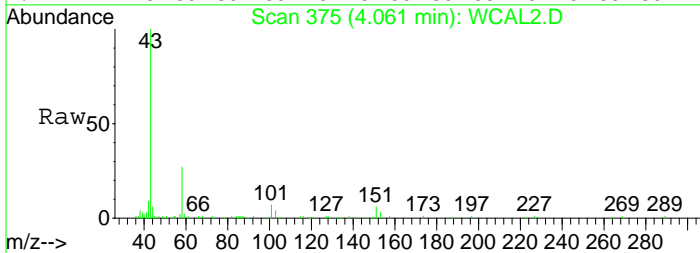
#5
 Bromomethane
 Concen: 0.92 ug/L m
 RT: 2.70 min Scan# 152
 Delta R.T. -0.01 min
 Lab File: WCAL2.D
 Acq: 11 Mar 2021 12:15

Tgt Ion	Ratio	Lower	Upper
94	100		
96	114.0	73.5	113.5#



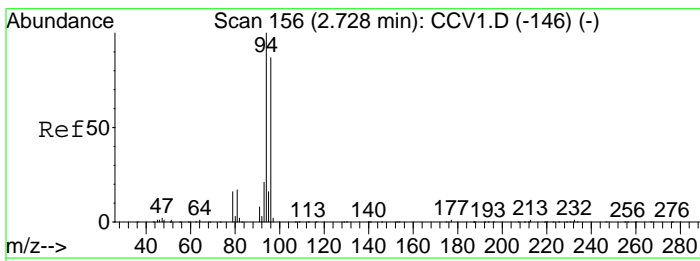
#15
 Acetone
 Concen: 12.40 ug/L m
 RT: 4.06 min Scan# 375
 Delta R.T. 0.00 min
 Lab File: WCAL2.D
 Acq: 11 Mar 2021 12:15

Tgt Ion	Ratio	Lower	Upper
43	100		
58	31.7	12.1	52.1



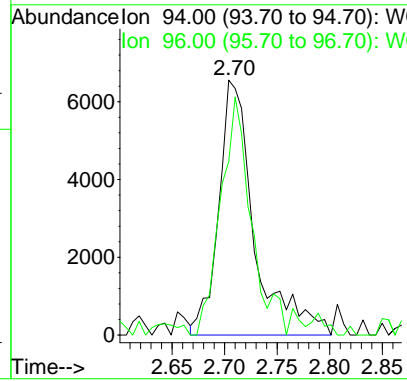
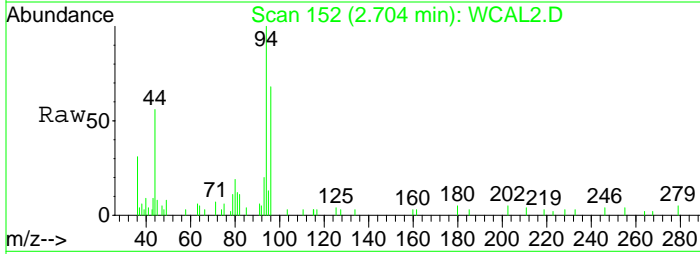
RJ 03/17/2021

DGE 03/16/2021

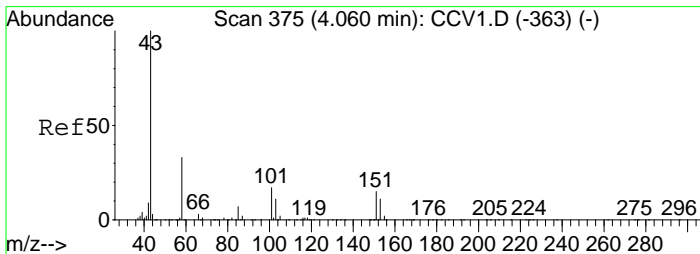
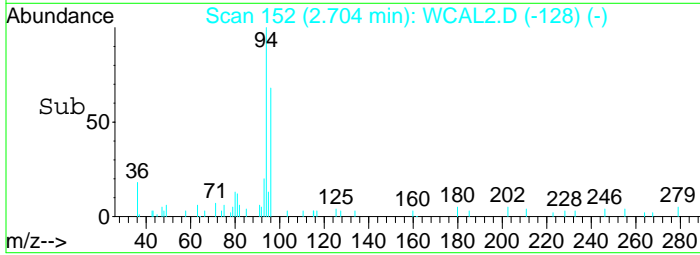


#5
 Bromomethane
 Concen: 1.43 ug/L
 RT: 2.70 min Scan# 152
 Delta R.T. -0.01 min
 Lab File: WCAL2.D
 Acq: 11 Mar 2021 12:15

Tgt Ion: 94 Resp: 15555
 Ion Ratio Lower Upper
 94 100
 96 79.1 73.5 113.5

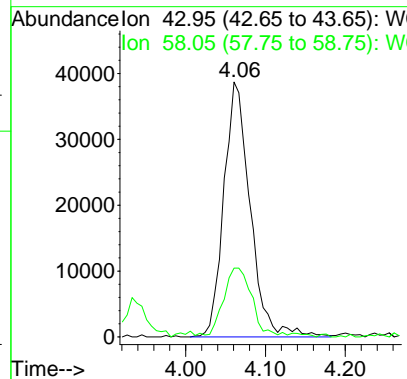
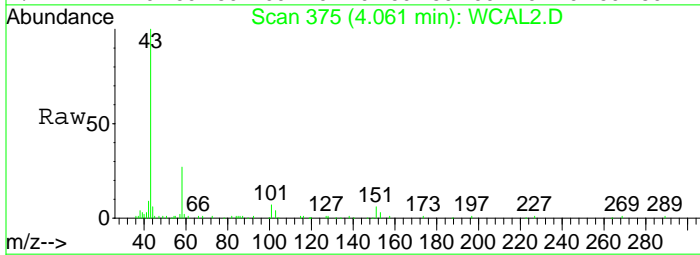


REASON # 2

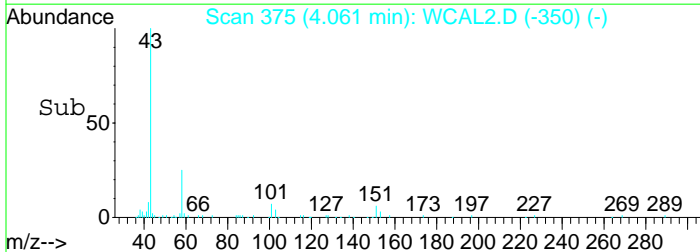


#15
 Acetone
 Concen: 11.24 ug/L
 RT: 4.06 min Scan# 375
 Delta R.T. 0.00 min
 Lab File: WCAL2.D
 Acq: 11 Mar 2021 12:15

Tgt Ion: 43 Resp: 89146
 Ion Ratio Lower Upper
 43 100
 58 29.9 12.1 52.1



REASON # 2



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1121\WCAL3.D Vial: 6
 Acq On : 11 Mar 2021 12:45 Operator: RLD-DGS
 Sample : INITIAL CALIB. PT3 Inst : VMS3
 Misc : 2.00/20.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
 MS Integration Params: VOC.P

Quant Time: Mar 12 08:02:21 2021 Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method
 Last Update : Fri Mar 12 06:54:42 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
						Rcv (Ar)
1) FLUOROBENZENE**ISTD**	7.71	96	1294947	20.00	ug/L	0.00
68) d5-CHLOROENZENE**ISTD**	11.62	117	1073740	20.00	ug/L	0.00
82) d4-1,4-DICHLOROENZENE**IS	14.92	152	599478	20.00	ug/L	0.00

System Monitoring Compounds

41) SURRDibrflma	6.86	113	335522	19.742	ug/L	0.00
Spiked Amount	20.000	Range	90 - 110	Recovery	= 99	%
45) SURR12DCAd4	7.27	102	93311	20.084	ug/L	0.00
Spiked Amount	20.000	Range	89 - 111	Recovery	= 100	%
61) SURRd8Tolule	9.71	98	1302040	20.125	ug/L	0.00
Spiked Amount	20.000	Range	93 - 107	Recovery	= 101	%
83) SURR4BrFBenz	13.25	95	555907	20.030	ug/L	0.00
Spiked Amount	20.000	Range	83 - 111	Recovery	= 100	%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodi	1.84	85	33721	2.1689	ug/L	91
3) Chloromethan	2.08	50	41798	2.0008	ug/L	96
4) VinylChlorid	2.25	62	37524	1.9046	ug/L	97
5) Bromomethane	2.71	94	24222m	1.7208	ug/L	92
6) Chloroethane	2.88	64	26156	1.8790	ug/L	97
7) Dichloroflmethane	3.19	67	70151	1.9799	ug/L	98
8) Trichlorofma	3.27	101	50605	2.0242	ug/L	99
9) Ethylether	3.71	59	26002	1.7096	ug/L	89
10) dichlorotfluoroethan	3.72	67	34583	2.0675	ug/L	97
11) propyleneoxide	3.76	58	68677	20.8137	ug/L	95
12) Acrolein	3.84	56	29227	9.7768	ug/L	93
13) 11dichlorothe	3.99	96	30159	1.8938	ug/L	97
14) Trichlorotfluoroeth	4.02	101	51788	3.9884	ug/L	96
15) Acetone	4.06	43	149506	16.7879	ug/L	98
16) Iodomethane	4.17	142	60784	3.7257	ug/L	98
17) Carbon Dislf	4.26	76	160991	3.8881	ug/L	97
18) allylchloride	4.49	41	110479	4.0700	ug/L	95
19) methylacetate	4.53	74	9433	2.2259	ug/L	99
20) Methylchlorid	4.64	84	41887	2.0360	ug/L	99
21) tbutylalcohol	4.83	59	193126	99.1604	ug/L	99
22) Acrylonitrile	4.94	53	79293	9.8491	ug/L	96
23) t12dichlorote	5.01	96	34650	1.9413	ug/L	92
24) MtBE	5.05	73	92680	2.0813	ug/L	97
25) Hexane	5.41	57	102722	4.1450	ug/L	93
26) 11dichlorota	5.54	63	61793	1.9834	ug/L	97
27) Vinylacetate	5.63	43	740113	20.9908	ug/L	94
28) chloroprene	5.67	53	108252	4.0551	ug/L	96
29) Diisopether	5.68	45	108290	1.9695	ug/L	96
30) ETBE	6.14	59	84964	1.8662	ug/L	98
31) 22dichloropr	6.28	77	38401	1.8519	ug/L	99
32) c12dichlorote	6.27	96	40935	2.0260	ug/L	98
33) 2Butanone	6.29	72	54170	19.5575	ug/L	94
34) propionitrile	6.33	54	70559	21.0919	ug/L	97
35) Ethylacetate	6.40	88	9879	11.6075	ug/L #	86
36) methacrylonitrile	6.54	67	38972	3.9602	ug/L	90
37) Bromochloroma	6.55	128	17993	1.9871	ug/L	97
38) Tetrahydrofur	6.65	42	133114	19.9916	ug/L	97

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

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1121\WCAL3.D Vial: 6
 Acq On : 11 Mar 2021 12:45 Operator: RLD-DGS
 Sample : INITIAL CALIB. PT3 Inst : VMS3
 Misc : 2.00/20.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
 MS Integration Params: VOC.P

Quant Time: Mar 12 08:02:21 2021 Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
 Title : 8260C Waters Method
 Last Update : Fri Mar 12 06:54:42 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Chloroform	6.67	83	61582	1.9497	ug/L	99
40) 111trichlota	6.92	97	42862	1.8458	ug/L	90
42) Cyclohexane	7.00	56	50447	2.0076	ug/L	94
43) Carbtetracl	7.12	119	35189	1.9786	ug/L	97
44) 11dicloroprope	7.12	110	17548	2.0420	ug/L	98
46) Benzene	7.36	78	154313	1.9829	ug/L	98
47) 12dichlorota	7.36	62	51183	2.1392	ug/L	97
48) TAME	7.53	73	85687	2.0090	ug/L	97
49) trichloroete	8.17	95	35848	1.8860	ug/L	96
50) methylcyclohexane	8.44	83	62231	1.9045	ug/L	97
51) 12dicloropra	8.43	63	39901	1.9720	ug/L	89
52) 23Dicl1propene	8.49	75	52695	1.9796	ug/L	96
53) Dibromometha	8.57	93	21206	1.8165	ug/L	95
54) methylmethacrylate	8.59	69	27199	1.8809	ug/L	93
55) 14dioxane	8.62	88	29147	97.7808	ug/L	97
56) Bromodiclma	8.77	83	45271	2.0383	ug/L	97
57) 2Nitropropane	9.04	43	88094	18.1826	ug/L	98
58) 2CLEVE	9.16	63	132676	10.2409	ug/L	99
59) c13diclorproe	9.35	75	55125	1.9606	ug/L	97
60) 4Meth2Pentan	9.55	43	401387	21.0044	ug/L	94
62) Toluene	9.80	92	95866	1.9549	ug/L	98
63) t13Diclorprop	10.06	75	41484	2.0265	ug/L	98
64) ethylmethacrylate	10.21	69	95095	3.9727	ug/L	99
65) 112Triclotha	10.30	83	28916	2.1053	ug/L	97
66) Tetrachlorte	10.53	166	39067	1.9574	ug/L	96
67) 13Diclorpropa	10.52	76	60160	2.0215	ug/L	97
69) 2Hexanone	10.64	43	285796	20.8962	ug/L	96
70) Clorodibrmta	10.81	129	33111	2.1958	ug/L	98
71) 12Dibrometha	10.97	107	33415	2.1140	ug/L	96
72) Chlorobenzen	11.66	112	110904	1.6752	ug/L	93
73) 1Clhexane	11.64	91	41407	1.7167	ug/L #	80
74) 1112Tetclota	11.76	131	27815	1.8651	ug/L	91
75) Ethylbenzene	11.82	91	166121	1.9331	ug/L	97
76) m p-Xylene	11.99	106	137981	4.1702	ug/L	98
77) o-Xylene	12.53	106	62109	2.0526	ug/L	96
78) Styrene	12.54	104	100364	2.0162	ug/L	95
79) Bromoform	12.77	173	21737	1.9701	ug/L	97
80) Isopropylben	13.06	105	158419	2.0070	ug/L	98
81) cyclohexanone	13.14	55	33277	38.1852	ug/L	96
84) Bromobenzene	13.47	156	42469	1.9818	ug/L	95
85) 1122Tetrclta	13.44	83	47008	1.9571	ug/L	98
86) 123Triclproa	13.50	75	55209	2.0391	ug/L	99
87) 14dichloro2butene	13.53	53	13169	1.9615	ug/L	95
88) n-Propylbenz	13.64	91	190142	1.9878	ug/L	93
89) 2chlorotolue	13.76	91	112621	1.9796	ug/L	98
90) 4chlorotolue	13.91	91	128110	1.9936	ug/L	99
91) 135Trimetbenz	13.90	105	135084	2.0591	ug/L	96
92) tbutylbenzen	14.37	119	115750	1.9964	ug/L	96
93) 124Trimetben	14.43	105	128810	2.0944	ug/L	98
94) sbutylbenzen	14.69	105	162675	1.9040	ug/L	98
95) 13Diclorbenz	14.83	146	76671	1.9778	ug/L	98
96) pIsopropylto	14.91	119	135522	1.8793	ug/L	96
97) 14dichlorobe	14.96	146	79939	2.0445	ug/L	95
98) 12dichlorobe	15.49	146	72772	2.0079	ug/L	94
99) nButylbenzen	15.50	91	122674	1.8595	ug/L	97
100) 12dibromo3cl	16.59	157	8158	2.0997	ug/L	87
101) 135Trichlorobenzene	16.91	180	47232	1.9796	ug/L	98

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

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1121\WCAL3.D Vial: 6
 Acq On : 11 Mar 2021 12:45 Operator: RLD-DGS
 Sample : INITIAL CALIB. PT3 Inst : VMS3
 Misc : 2.00/20.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
 MS Integration Params: VOC.P

Quant Time: Mar 12 08:02:21 2021 Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
 Title : 8260C Waters Method
 Last Update : Fri Mar 12 06:54:42 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.72	180	40653	2.0227	ug/L	95
103) Hexachlorobu	17.97	225	21127	1.9615	ug/L	97
104) Naphthalene	18.03	128	97727	1.9998	ug/L	99
105) 123Trichlben	18.34	180	37629	1.9882	ug/L	95

Abundance Quantitation Report

TIC: WCAL3.D

Data File : C:\INSTARCH\DATA\MAR1121\WCAL3.D

Vial: 6

Acq On : 11 Mar 2021 12:45

Operator: RLD-DGS

Sample : INITIAL CALIB. PT3

Inst : VMS3

Misc : 2.00/20.0 ug/L, 5.0 mL Purged + IS/SS

Multiplr: 1.00

MS Integration Params: VOC.P

2000000

Quant Time: Mar 12 08:02:21 2021

Results File: W031121.RES

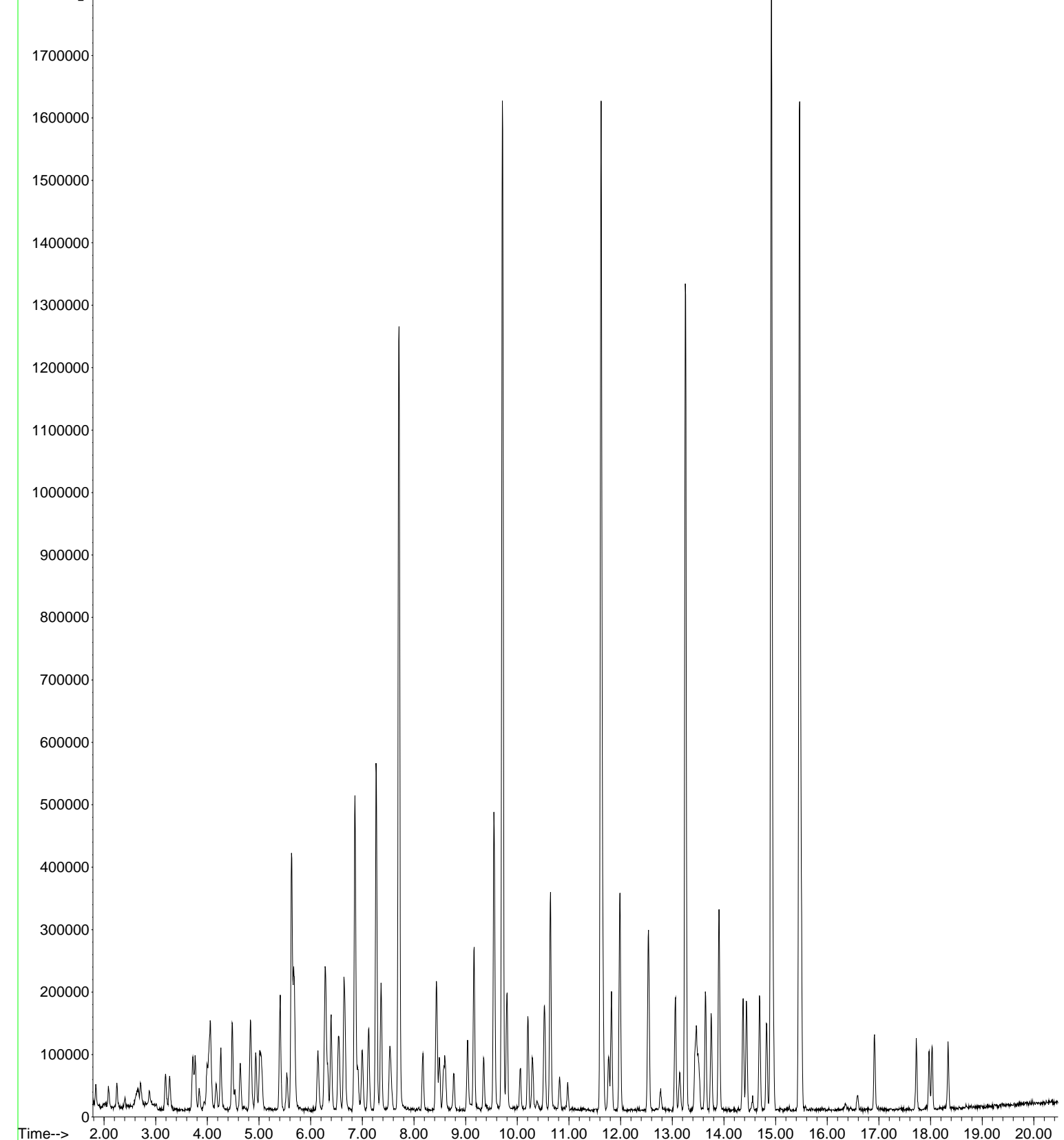
Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

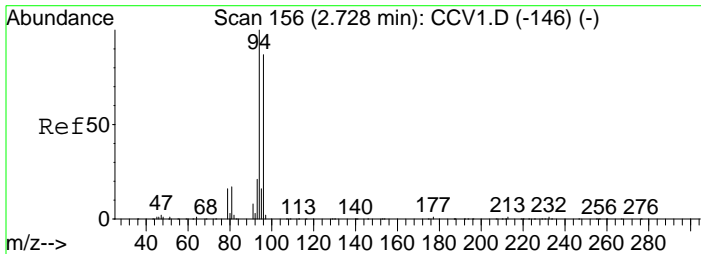
Title : 8260C Waters Method

Last Update : Fri Mar 12 06:54:42 2021

Response via : Initial Calibration

Data File : W031121.M



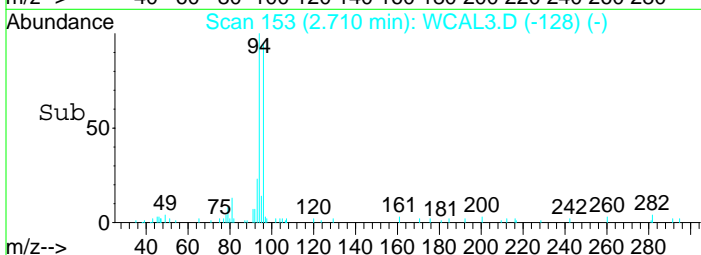
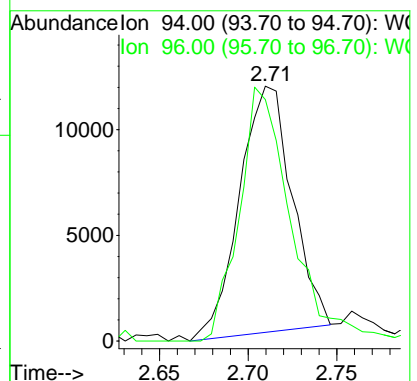
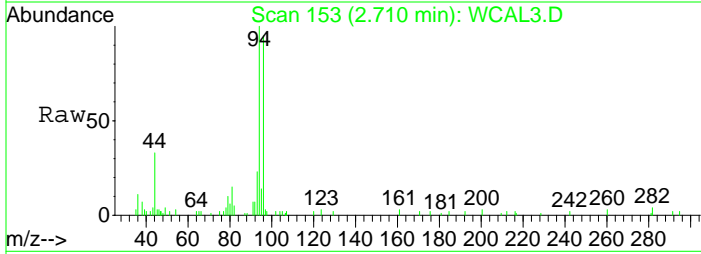


#5
 Bromomethane
 Concen: 1.72 ug/L m
 RT: 2.71 min Scan# 153
 Delta R.T. -0.00 min
 Lab File: WCAL3.D
 Acq: 11 Mar 2021 12:45

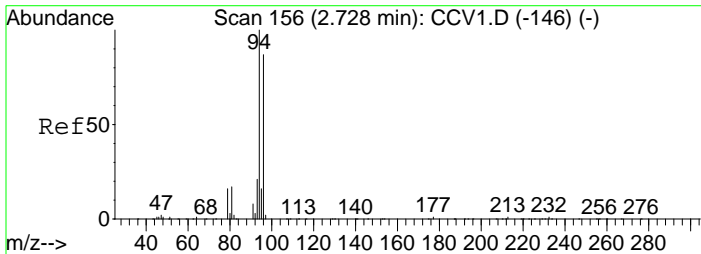
After Manual Integration

DGS 03/16/2021

Tgt Ion	94	96	Resp	24222	Lower	Upper
Ion Ratio	100	100.8			73.5	113.5



RJ 03/17/2021

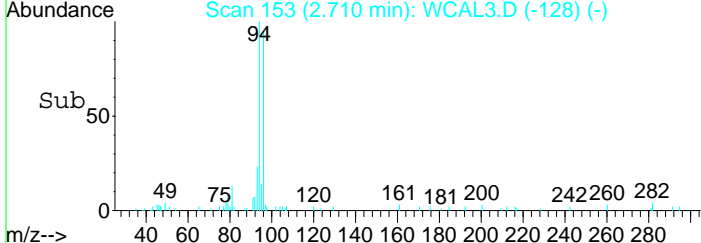
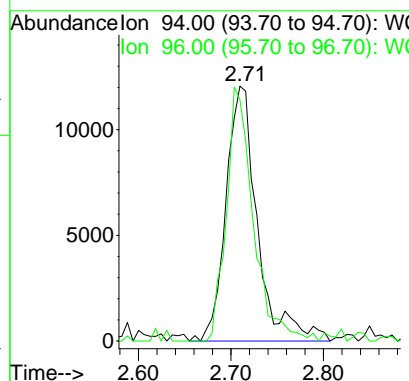
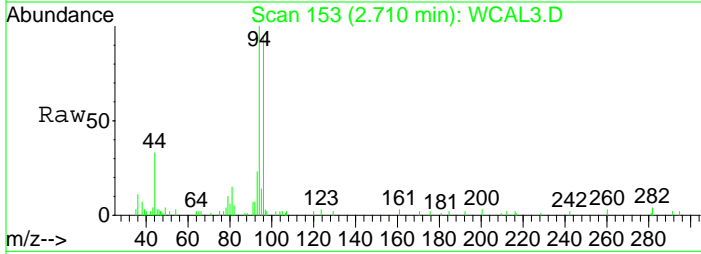


#5
 Bromomethane
 Concen: 2.55 ug/L
 RT: 2.71 min Scan# 153
 Delta R.T. -0.00 min
 Lab File: WCAL3.D
 Acq: 11 Mar 2021 12:45

Before Manual Integration

DGS 03/16/2021

Tgt Ion: 94 Resp: 28579
 Ion Ratio Lower Upper
 94 100
 96 85.5 73.5 113.5



REASON # 2

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1121\WCAL4.D Vial: 7
 Acq On : 11 Mar 2021 13:14 Operator: RLD-DGS
 Sample : INITIAL CALIB. PT4 Inst : VMS3
 Misc : 5.00/50.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
 MS Integration Params: VOC.P

Quant Time: Mar 12 07:55:03 2021 Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method
 Last Update : Fri Mar 12 06:54:56 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
						Rcv (Ar)
1) FLUOROBENZENE**ISTD**	7.71	96	1266005	20.00	ug/L	0.00 NA%
68) d5-CHLOROENZENE**ISTD**	11.62	117	1086327	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROENZENE**IS	14.92	152	624155	20.00	ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.86	113	338624	20.446	ug/L	0.00
Spiked Amount	20.000	Range	90 - 110	Recovery	= 102	%
45) SURR12DCAd4	7.27	102	89992	19.791	ug/L	0.00
Spiked Amount	20.000	Range	89 - 111	Recovery	= 99	%
61) SURRd8Tolule	9.71	98	1282498	20.244	ug/L	0.00
Spiked Amount	20.000	Range	93 - 107	Recovery	= 101	%
83) SURR4BrFBenz	13.26	95	575535	19.910	ug/L	0.00
Spiked Amount	20.000	Range	83 - 111	Recovery	= 100	%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodi	1.84	85	74421	4.7949	ug/L	98
3) Chloromethan	2.08	50	97042	4.7509	ug/L	99
4) VinylChlorid	2.25	62	98578	5.1796	ug/L	97
5) Bromomethane	2.71	94	63591	4.5977	ug/L	100
6) Chloroethane	2.88	64	64693	4.8516	ug/L	100
7) Dichloroflmethane	3.19	67	168924	4.8889	ug/L	100
8) Trichlorofma	3.28	101	112837	4.6028	ug/L	93
9) Ethylether	3.71	59	71464	4.9872	ug/L	97
10) dichlorotfluoroethan	3.73	67	84126	5.1013	ug/L	98
11) propyleneoxide	3.77	58	165331	50.5660	ug/L	98
12) Acrolein	3.84	56	70095	24.1635	ug/L	96
13) 11dichlorothe	3.99	96	71865	4.6779	ug/L	95
14) Trichlorotfluoroeth	4.03	101	124667	9.8277	ug/L	98
15) Acetone	4.06	43	323153	38.6686	ug/L	99
16) Iodomethane	4.18	142	148483	9.5269	ug/L	99
17) Carbon Dislf	4.26	76	378129	9.4068	ug/L	97
18) allylchloride	4.48	41	250670	9.4045	ug/L	98
19) methylacetate	4.53	74	21153	4.9203	ug/L	92
20) Methylchlorid	4.64	84	93748	4.6400	ug/L	98
21) tbutylalcohol	4.83	59	470757	247.7557	ug/L	100
22) Acrylonitrile	4.94	53	184129	23.5121	ug/L	97
23) t12dichlorote	5.01	96	86100	4.9705	ug/L	96
24) MtBE	5.05	73	225637	5.1307	ug/L	100
25) Hexane	5.40	57	234533	9.5932	ug/L	97
26) 11dichlorota	5.54	63	154269	5.0754	ug/L	98
27) Vinylacetate	5.63	43	1659096	47.5415	ug/L	97
28) chloroprene	5.67	53	261962	10.0030	ug/L	97
29) Diisopether	5.68	45	270521	5.0518	ug/L	97
30) ETBE	6.14	59	211715	4.8374	ug/L	95
31) 22dichloropr	6.28	77	95058	4.7774	ug/L	98
32) c12dichlorote	6.27	96	96161	4.8524	ug/L	96
33) 2Butanone	6.29	72	128403	47.7707	ug/L	97
34) propionitrile	6.33	54	163815	49.1927	ug/L	98
35) Ethylacetate	6.40	88	21515	24.5423	ug/L	96
36) methacrylonitrile	6.54	67	92796	9.6772	ug/L	92
37) Bromochloroma	6.55	128	43138	4.8809	ug/L	95
38) Tetrahydrofur	6.65	42	310042	47.6328	ug/L	99

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

Data File : C:\INSTARCH\DATA\MAR1121\WCAL4.D
 Acq On : 11 Mar 2021 13:14
 Sample : INITIAL CALIB. PT4
 Misc : 5.00/50.0 ug/L, 5.0 mL Purged + IS/SS
 MS Integration Params: VOC.P

Vial: 7
 Operator: RLD-DGS
 Inst : VMS3
 Multiplr: 1.00

Quant Time: Mar 12 07:55:03 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method
 Last Update : Fri Mar 12 06:54:56 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Chloroform	6.66	83	149714	4.8790	ug/L	99
40) 111trichlota	6.91	97	110562	4.9658	ug/L	97
42) Cyclohexane	6.99	56	118792	4.8310	ug/L	93
43) Carbtetracl	7.13	119	87850	5.0661	ug/L	97
44) 11dicloroprope	7.12	110	40527	4.7903	ug/L	100
46) Benzene	7.36	78	355334	4.6805	ug/L	99
47) 12dichlorota	7.36	62	115861	4.8685	ug/L	98
48) TAME	7.53	73	213045	5.1035	ug/L	97
49) trichloroete	8.17	95	84122	4.5924	ug/L	92
50) methylcyclohexane	8.44	83	156079	4.9448	ug/L	97
51) 12dicloropra	8.43	63	94910	4.8148	ug/L	93
52) 23Dicl1propene	8.50	75	135334	5.2180	ug/L	95
53) Dibromometha	8.57	93	57527	5.1995	ug/L	98
54) methylmethacrylate	8.59	69	66586	4.8053	ug/L	96
55) 14dioxane	8.62	88	69100	238.8796	ug/L	98
56) Bromodiclma	8.77	83	107402	4.9228	ug/L	97
57) 2Nitropropane	9.04	43	227614	49.1705	ug/L	97
58) 2CLEVE	9.16	63	324301	25.4002	ug/L	97
59) c13dicloropoe	9.35	75	135680	4.9605	ug/L	100
60) 4Meth2Pentan	9.55	43	922275	48.7535	ug/L	98
62) Toluene	9.80	92	228812	4.7996	ug/L	99
63) t13Dicloroprop	10.06	75	104862	5.2223	ug/L	96
64) ethylmethacrylate	10.20	69	244132	10.4559	ug/L	97
65) 112Triclotha	10.29	83	69954	5.1198	ug/L	98
66) Tetrachlorte	10.53	166	97023	4.9989	ug/L	98
67) 13Diclorpropa	10.51	76	149495	5.1244	ug/L	95
69) 2Hexanone	10.64	43	687662	48.9649	ug/L	99
70) Clorodibrmta	10.82	129	76176	4.8739	ug/L	95
71) 12Dibrometha	10.98	107	83993	5.1785	ug/L	95
72) Chlorobenzen	11.66	112	261529	4.0699	ug/L	99
73) 1Clhexane	11.64	91	105093	4.4648	ug/L	96
74) 1112Tetclota	11.77	131	72262	4.8995	ug/L	97
75) Ethylbenzene	11.82	91	412790	4.7878	ug/L	98
76) m p-Xylene	11.99	106	321578	9.5054	ug/L	94
77) o-Xylene	12.53	106	153199	4.9716	ug/L	93
78) Styrene	12.54	104	256275	5.0784	ug/L	99
79) Bromoform	12.78	173	54960	4.9482	ug/L	95
80) Isopropylben	13.06	105	392263	4.9076	ug/L	98
81) cyclohexanone	13.15	55	90632	104.3732	ug/L	99
84) Bromobenzene	13.47	156	104055	4.6743	ug/L	97
85) 1122Tetrclta	13.44	83	118945	4.7820	ug/L	99
86) 123Triclproa	13.50	75	141401	4.9835	ug/L	99
87) 14dichloro2butene	13.53	53	30874	4.4454	ug/L	99
88) n-Propylbenz	13.64	91	458873	4.6146	ug/L	97
89) 2chlorotolue	13.76	91	273312	4.6260	ug/L	100
90) 4chlorotolue	13.91	91	322917	4.8303	ug/L	99
91) 135Trimetbenz	13.90	105	319910	4.6493	ug/L	97
92) tbutylbenzen	14.37	119	275099	4.5592	ug/L	100
93) 124Trimetben	14.44	105	317400	4.8990	ug/L	99
94) sbutylbenzen	14.69	105	401716	4.5707	ug/L	97
95) 13Diclorbenz	14.83	146	191647	4.7615	ug/L	99
96) pIsopropylto	14.90	119	339901	4.5964	ug/L	98
97) 14dichlorobe	14.95	146	193626	4.7300	ug/L	97
98) 12dichlorobe	15.49	146	180320	4.7739	ug/L	98
99) nButylbenzen	15.50	91	299119	4.4326	ug/L	98
100) 12dibromo3cl	16.59	157	19922	4.8442	ug/L	88
101) 135Trichlorobenzene	16.91	180	119059	4.8050	ug/L	98

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

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1121\WCAL4.D Vial: 7
Acq On : 11 Mar 2021 13:14 Operator: RLD-DGS
Sample : INITIAL CALIB. PT4 Inst : VMS3
Misc : 5.00/50.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 12 07:55:03 2021 Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 12 06:54:56 2021
Response via : Initial Calibration
DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.72	180	100878	4.8071	ug/L	98
103) Hexachlorobu	17.97	225	52183	4.6758	ug/L	96
104) Naphthalene	18.03	128	245334	4.8220	ug/L	99
105) 123Trichlben	18.34	180	95546	4.8558	ug/L	98

Abundance Quantitation Report

TIC: WCAL4.D

Data File : C:\INSTARCH\DATA\MAR1121\WCAL4.D

Vial: 7

Acq Date : 11 Mar 2021 13:14

Operator: RLD-DGS

Sample : INITIAL CALIB. PT4

Inst : VMS3

Misc : 5.00/50.0 ug/L, 5.0 mL Purged + IS/SS

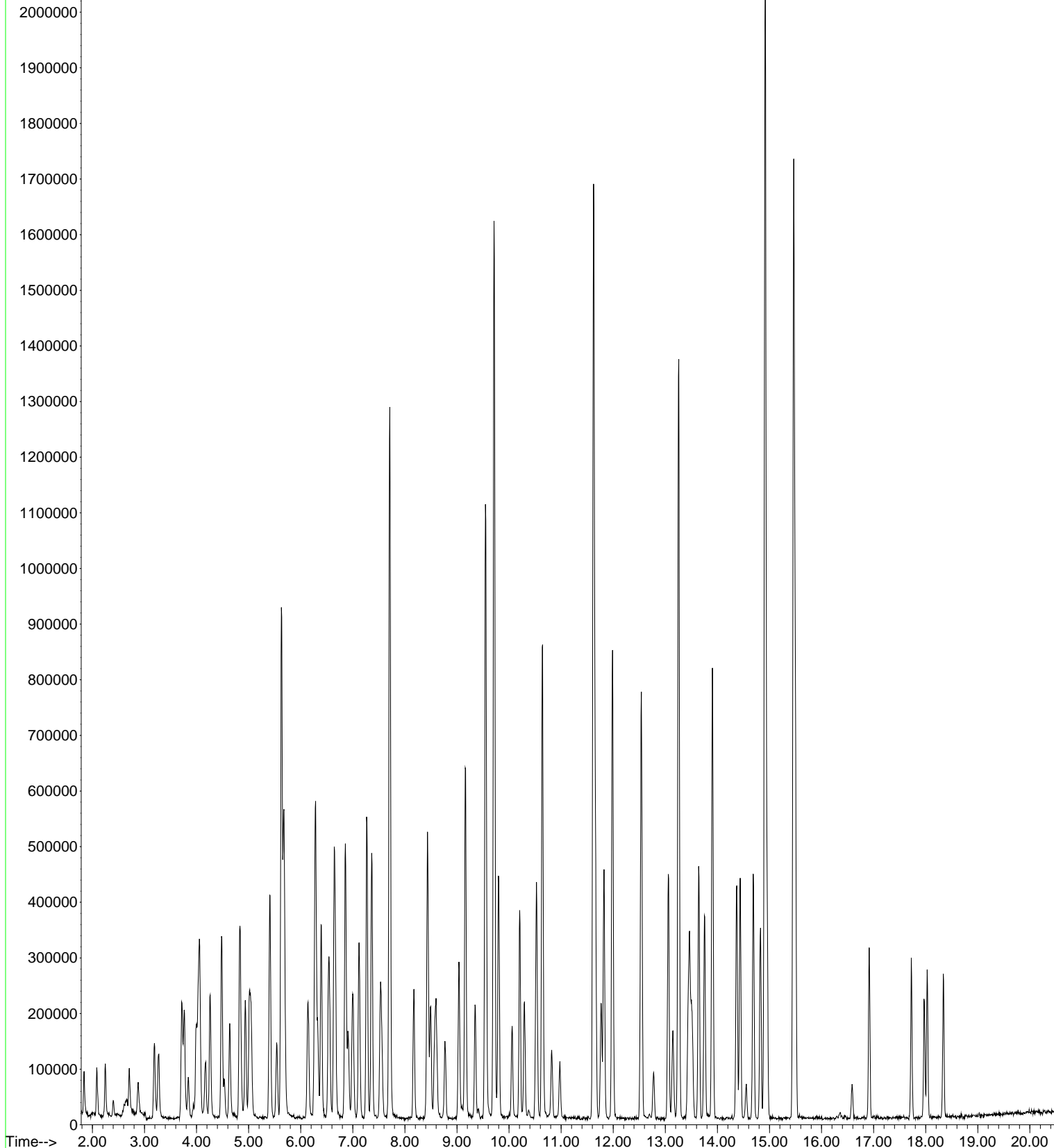
Multiplr: 1.00

MS Integration Params: VOC.P

Quant Time: Mar 12 07:55:03 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 12 06:54:56 2021
Response via : Initial Calibration
DataAcq Meth : W031121.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1121\WCAL5.D

Vial: 8

Acq On : 11 Mar 2021 13:44

Operator: RLD-DGS

Sample : INITIAL CALIB. PT5

Inst : VMS3

Misc : 10.0/100.0 ug/L, 5.0 mL Purged + IS/SS

Multiplr: 1.00

MS Integration Params: VOC.P

Quant Time: Mar 12 07:55:19 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method

Last Update : Fri Mar 12 06:55:11 2021

Response via : Initial Calibration

DataAcq Meth : W031121.M

IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
						Rcv (Ar)
1) FLUOROBENZENE**ISTD**	7.71	96	1315866	20.00	ug/L	0.00 NA%
68) d5-CHLOROENZENE**ISTD**	11.62	117	1129283	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROENZENE**IS	14.92	152	646127	20.00	ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.86	113	348174	20.136	ug/L	0.00
Spiked Amount	20.000	Range	90 - 110	Recovery	= 101	%
45) SURR12DCAd4	7.27	102	92631	19.641	ug/L	0.00
Spiked Amount	20.000	Range	89 - 111	Recovery	= 98	%
61) SURRD8Tolule	9.71	98	1306476	19.793	ug/L	0.00
Spiked Amount	20.000	Range	93 - 107	Recovery	= 99	%
83) SURR4BrFBenz	13.25	95	595622	19.922	ug/L	0.00
Spiked Amount	20.000	Range	83 - 111	Recovery	= 100	%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodi	1.84	85	177971	11.1233	ug/L	100
3) Chloromethan	2.08	50	207979	9.8948	ug/L	100
4) VinylChlorid	2.25	62	214214	10.7518	ug/L	100
5) Bromomethane	2.71	94	126745	8.9976	ug/L	100
6) Chloroethane	2.88	64	143806	10.4534	ug/L	100
7) Dichloroflmethane	3.19	67	357842	10.0086	ug/L	100
8) Trichlorofma	3.27	101	284069	11.3285	ug/L	100
9) Ethylether	3.71	59	151665	10.1882	ug/L	100
10) dichlorotfluoroethan	3.73	67	193979	11.2713	ug/L	99
11) propyleneoxide	3.76	58	352581	103.4570	ug/L	100
12) Acrolein	3.84	56	148101	49.5340	ug/L	100
13) 11dichlorothe	3.99	96	170491	10.8166	ug/L	100
14) Trichlorotfluoroeth	4.04	101	304276	23.1575	ug/L	100
15) Acetone	4.06	43	624520	75.3122	ug/L	100
16) Iodomethane	4.17	142	341967	21.3624	ug/L	100
17) Carbon Dislf	4.26	76	839711	20.3393	ug/L	100
18) allylchloride	4.48	41	555757	20.3023	ug/L	100
19) methylacetate	4.53	74	46226	10.3863	ug/L	100
20) Methylchlorid	4.64	84	199880	9.6572	ug/L	100
21) tbutylalcohol	4.83	59	960746	487.3485	ug/L	100
22) Acrylonitrile	4.94	53	397301	49.5476	ug/L	100
23) t12dichlorote	5.01	96	190310	10.5827	ug/L	100
24) MtBE	5.05	73	478453	10.4128	ug/L	100
25) Hexane	5.40	57	567066	22.4990	ug/L	100
26) 11dichlorota	5.54	63	318441	10.0493	ug/L	100
27) Vinylacetate	5.63	43	3254813	90.6241	ug/L	100
28) chloroprene	5.67	53	597849	21.9624	ug/L	100
29) Diisopether	5.69	45	569290	10.2071	ug/L	100
30) ETBE	6.14	59	444000	9.8243	ug/L	100
31) 22dichloropr	6.27	77	222281	10.8447	ug/L	100
32) c12dichlorote	6.27	96	201247	9.8284	ug/L	100
33) 2Butanone	6.29	72	259792	94.0381	ug/L	100
34) propionitrile	6.33	54	337254	97.8328	ug/L	100
35) Ethylacetate	6.40	88	44661	49.2401	ug/L	100
36) methacrylonitrile	6.54	67	202140	20.4464	ug/L	100
37) Bromochloroma	6.56	128	89345	9.7725	ug/L	100
38) Tetrahydrofur	6.64	42	643509	96.0275	ug/L	100

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

Quant Time: Mar 12 07:55:19 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method

Last Update : Fri Mar 12 06:55:11 2021

Response via : Initial Calibration

DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Chloroform	6.67	83	314560	9.9107	ug/L	100
40) 111trichlota	6.91	97	251434	10.8799	ug/L	100
42) Cyclohexane	7.00	56	299086	11.7820	ug/L	100
43) Carbtetracl	7.13	119	202101	11.1834	ug/L	100
44) 11dicloroprope	7.12	110	92117	10.5867	ug/L	100
46) Benzene	7.36	78	753652	9.6746	ug/L	100
47) 12dichlorota	7.36	62	248009	10.0794	ug/L	100
48) TAME	7.54	73	438000	10.0531	ug/L	100
49) trichloroete	8.17	95	195626	10.4452	ug/L	100
50) methylcyclohexane	8.44	83	379206	11.5841	ug/L	100
51) 12dicloropra	8.43	63	207497	10.2032	ug/L	100
52) 23Dicl1propene	8.50	75	272809	10.0109	ug/L	100
53) Dibromometha	8.57	93	117503	10.1170	ug/L	100
54) methylmethacrylate	8.60	69	147510	10.3426	ug/L	100
55) 14dioxane	8.61	88	141280	475.1842	ug/L	100
56) Bromodiclrma	8.77	83	234381	10.3678	ug/L	100
57) 2Nitropropane	9.04	43	486808	101.5151	ug/L	100
58) 2CLEVE	9.16	63	670445	50.3201	ug/L	100
59) c13dicloropoe	9.35	75	285018	10.0413	ug/L	100
60) 4Meth2Pentan	9.55	43	1811517	92.5939	ug/L	100
62) Toluene	9.80	92	484435	9.8555	ug/L	100
63) t13Dicloroprop	10.06	75	229095	10.8802	ug/L	100
64) ethylmethacrylate	10.20	69	510777	20.8099	ug/L	100
65) 112Triclotha	10.30	83	148457	10.3913	ug/L	100
66) Tetrachlorte	10.53	166	217996	10.8066	ug/L	100
67) 13Diclorpropa	10.52	76	299950	9.8432	ug/L	100
69) 2Hexanone	10.64	43	1388568	95.6067	ug/L	100
70) Clorodibrmta	10.82	129	171766	10.6255	ug/L	100
71) 12Dibrometha	10.98	107	174238	10.2605	ug/L	100
72) Chlorobenzen	11.66	112	524745	8.1589	ug/L	100
73) 1Clhexane	11.64	91	249172	10.4059	ug/L	100
74) 1112Tetclota	11.77	131	156891	10.2846	ug/L	100
75) Ethylbenzene	11.82	91	865343	9.7377	ug/L	100
76) m p-Xylene	11.99	106	704845	20.2420	ug/L	100
77) o-Xylene	12.53	106	335765	10.4937	ug/L	100
78) Styrene	12.55	104	548040	10.4143	ug/L	100
79) Bromoform	12.77	173	109689	9.5246	ug/L	100
80) Isopropylben	13.06	105	820752	9.9145	ug/L	100
81) cyclohexanone	13.15	55	179423	196.6170	ug/L	100
84) Bromobenzene	13.47	156	224113	9.8535	ug/L	100
85) 1122Tetrclta	13.44	83	248927	9.7524	ug/L	100
86) 123Tric1proa	13.50	75	293191	9.9901	ug/L	100
87) 14dichloro2butene	13.52	53	72544	10.3778	ug/L	100
88) n-Propylbenz	13.65	91	966885	9.5397	ug/L	100
89) 2chlorotolue	13.76	91	591416	9.8165	ug/L	100
90) 4chlorotolue	13.91	91	673062	9.7920	ug/L	100
91) 135Trimebenz	13.90	105	695829	9.9077	ug/L	100
92) tbutylbenzen	14.37	119	604575	9.8525	ug/L	100
93) 124Trimetben	14.44	105	673612	10.0842	ug/L	100
94) sbutylbenzen	14.69	105	858920	9.6054	ug/L	100
95) 13Diclorbenz	14.83	146	396225	9.6012	ug/L	100
96) pIsopropylto	14.90	119	746787	9.9153	ug/L	100
97) 14dichlorobe	14.96	146	405501	9.6734	ug/L	100
98) 12dichlorobe	15.49	146	370361	9.5582	ug/L	100
99) nButylbenzen	15.50	91	659633	9.6619	ug/L	100
100) 12dibromo3cl	16.59	157	39660	9.3889	ug/L	100
101) 135Trichlorobenzene	16.91	180	247692	9.7323	ug/L	100

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

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1121\WCAL5.D Vial: 8
Acq On : 11 Mar 2021 13:44 Operator: RLD-DGS
Sample : INITIAL CALIB. PT5 Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 12 07:55:19 2021 Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 12 06:55:11 2021
Response via : Initial Calibration
DataAcq Meth : W031121.M

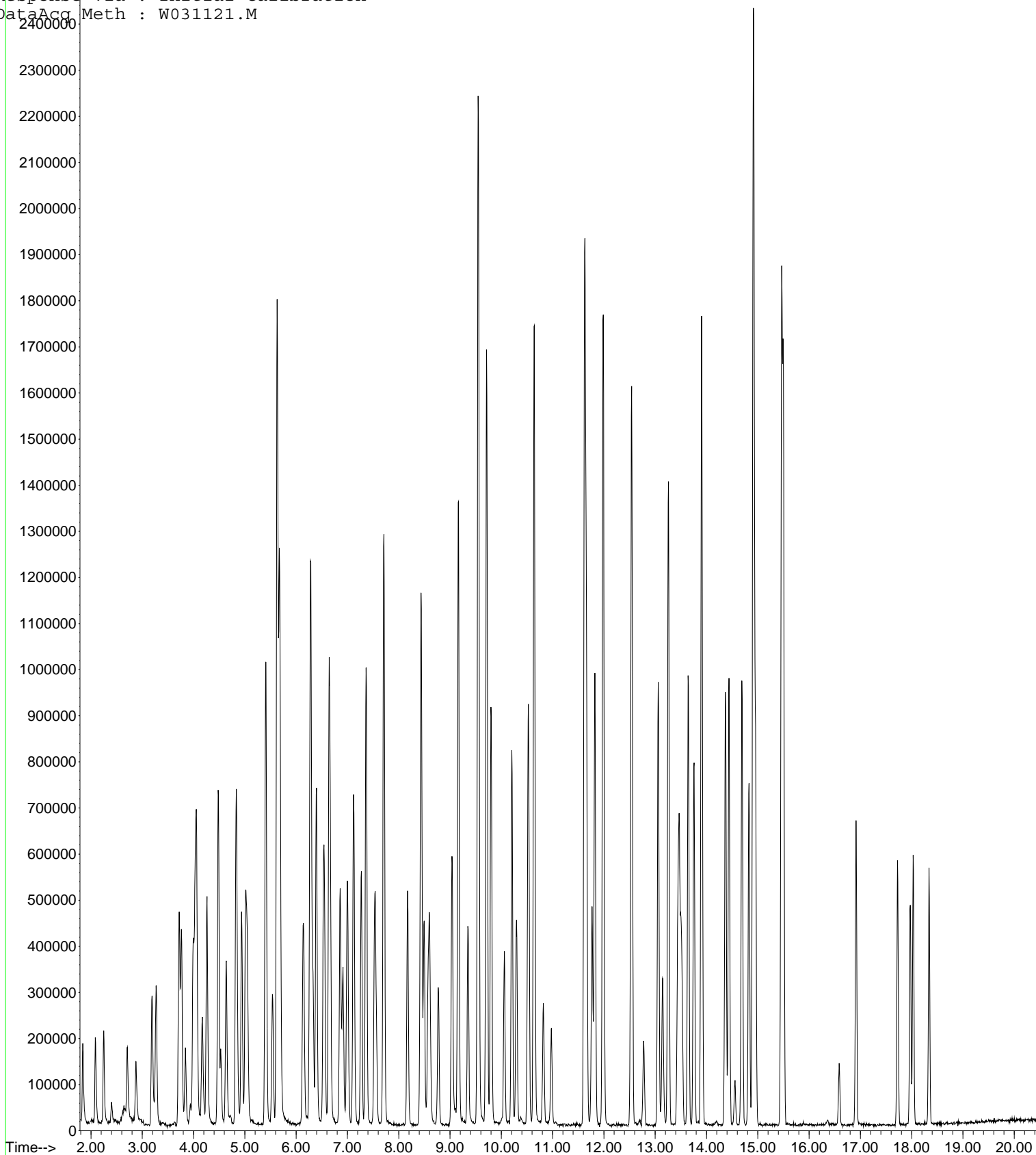
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.72	180	209606	9.7237	ug/L	100
103) Hexachlorobu	17.97	225	116766	10.2397	ug/L	100
104) Naphthalene	18.03	128	523117	10.0033	ug/L	100
105) 123Trichlben	18.34	180	196797	9.7176	ug/L	100

Abundance
Data File : C:\INSTARCH\DATA\MAR1121\WCAL5.D
Acq On : 11 Mar 2021 13:44
Sample : INITIAL CALIB. PT5
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + IS/SS
MS Integration Params: VOC.P

TIC: WCAL5.D
Vial: 8
Operator: RLD-DGS
Inst : VMS3
Multiplr: 1.00

Quant Time: Mar 12 07:55:19 2021 Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 12 06:55:11 2021
Response via : Initial Calibration
DataAcq Meth : W031121.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1121\WCAL6.D

Vial: 9

Acq On : 11 Mar 2021 14:13

Operator: RLD-DGS

Sample : INITIAL CALIB. PT6

Inst : VMS3

Misc : 20.0/200.0 ug/L, 5.0 mL Purged + IS/SS

Multiplr: 1.00

MS Integration Params: VOC.P

Quant Time: Mar 12 07:55:35 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method

Last Update : Fri Mar 12 06:55:27 2021

Response via : Initial Calibration

DataAcq Meth : W031121.M

IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
						Rcv (Ar)
1) FLUOROBENZENE**ISTD**	7.71	96	1325496	20.00	ug/L	0.00 NA%
68) d5-CHLOROENZENE**ISTD**	11.62	117	1138201	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROENZENE**IS	14.92	152	668073	20.00	ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.86	113	350488	20.123	ug/L	0.00
Spiked Amount	20.000	Range	90 - 110	Recovery	= 101	%
45) SURR12DCAd4	7.27	102	92039	19.373	ug/L	0.00
Spiked Amount	20.000	Range	89 - 111	Recovery	= 97	%
61) SURRD8Tolule	9.71	98	1337331	20.113	ug/L	0.00
Spiked Amount	20.000	Range	93 - 107	Recovery	= 101	%
83) SURR4BrFBenz	13.26	95	612504	19.814	ug/L	0.00
Spiked Amount	20.000	Range	83 - 111	Recovery	= 99	%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodi	1.84	85	341753	21.2046	ug/L	98
3) Chloromethan	2.09	50	400376	18.9100	ug/L	99
4) VinylChlorid	2.25	62	404461	20.1532	ug/L	99
5) Bromomethane	2.70	94	232229	16.2774	ug/L	96
6) Chloroethane	2.88	64	267344	19.2862	ug/L	98
7) Dichloroflmethane	3.19	67	681624	18.9260	ug/L	98
8) Trichlorofma	3.27	101	520056	20.5888	ug/L	98
9) Ethylether	3.71	59	297975	19.8713	ug/L	99
10) dichlorotfluoroethan	3.73	67	359104	20.6625	ug/L	97
11) propyleneoxide	3.76	58	708717	206.4463	ug/L	99
12) Acrolein	3.84	56	291737	96.8657	ug/L	98
13) 11dichlorothe	3.99	96	323070	20.3478	ug/L	99
14) Trichlorotfluoroeth	4.04	101	568054	42.9187	ug/L	98
15) Acetone	4.06	43	1218146	145.8316	ug/L	100
16) Iodomethane	4.17	142	703435	43.6237	ug/L	99
17) Carbon Dislf	4.26	76	1512325	36.3652	ug/L	99
18) allylchloride	4.48	41	1055033	38.2273	ug/L	100
19) methylacetate	4.53	74	94073	20.9833	ug/L	97
20) Methylchlorid	4.64	84	368842	17.6911	ug/L	97
21) tbutylalcohol	4.83	59	1933572	973.6988	ug/L	100
22) Acrylonitrile	4.94	53	769472	95.2641	ug/L	98
23) t12dichlorote	5.02	96	358824	19.8085	ug/L	99
24) MtBE	5.05	73	917424	19.8213	ug/L	97
25) Hexane	5.41	57	1043056	41.0839	ug/L	99
26) 11dichlorota	5.54	63	608496	19.0634	ug/L	99
27) Vinylacetate	5.63	43	5308726	146.6931	ug/L	93
28) chloroprene	5.67	53	1101716	40.1783	ug/L	98
29) Diisopether	5.68	45	1090190	19.4046	ug/L	99
30) ETBE	6.14	59	874502	19.2093	ug/L	100
31) 22dichloropr	6.28	77	416898	20.1919	ug/L	97
32) c12dichlorote	6.27	96	386181	18.7231	ug/L	99
33) 2Butanone	6.29	72	531110	190.8516	ug/L	98
34) propionitrile	6.33	54	675692	194.5851	ug/L	98
35) Ethylacetate	6.40	88	96087	105.1691	ug/L #	89
36) methacrylonitrile	6.54	67	399678	40.1336	ug/L	98
37) Bromochloroma	6.56	128	178379	19.3693	ug/L	96
38) Tetrahydrofur	6.64	42	1250662	185.2739	ug/L	97

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

Quant Time: Mar 12 07:55:35 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method

Last Update : Fri Mar 12 06:55:27 2021

Response via : Initial Calibration

DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Chloroform	6.66	83	610429	19.0928	ug/L	99
40) 111trichlota	6.91	97	489888	21.0441	ug/L	97
42) Cyclohexane	7.00	56	554326	21.6795	ug/L	99
43) Carbtetracl	7.13	119	391395	21.4992	ug/L	95
44) 11dicloroprope	7.12	110	176306	20.1150	ug/L	99
46) Benzene	7.36	78	1379048	17.5742	ug/L	99
47) 12dichlorota	7.36	62	485855	19.6024	ug/L	99
48) TAME	7.53	73	889290	20.2629	ug/L	96
49) trichloroete	8.17	95	373835	19.8155	ug/L	99
50) methylcyclohexane	8.44	83	710852	21.5575	ug/L	98
51) 12dicloropra	8.43	63	386726	18.8781	ug/L	99
52) 23Dicl1propene	8.50	75	539923	19.6689	ug/L	98
53) Dibromometha	8.57	93	233034	19.9184	ug/L	98
54) methylmethacrylate	8.59	69	298464	20.7746	ug/L	99
55) 14dioxane	8.61	88	289924	968.0521	ug/L	99
56) Bromodiclrma	8.77	83	466318	20.4776	ug/L	99
57) 2Nitropropane	9.04	43	1013435	209.7983	ug/L	99
58) 2CLEVE	9.16	63	1287752	95.9497	ug/L	99
59) c13dicloropoe	9.35	75	568811	19.8939	ug/L	99
60) 4Meth2Pentan	9.55	43	3214291	163.1017	ug/L	94
62) Toluene	9.80	92	912057	18.4204	ug/L	96
63) t13Dicloroprop	10.06	75	468927	22.1085	ug/L	99
64) ethylmethacrylate	10.20	69	1017356	41.1476	ug/L	99
65) 112Triclotha	10.30	83	287568	19.9822	ug/L	97
66) Tetrachlorte	10.53	166	406239	19.9920	ug/L	98
67) 13Diclorpropa	10.51	76	593985	19.3507	ug/L	99
69) 2Hexanone	10.64	43	2545833	173.9142	ug/L	96
70) Clorodibrmta	10.82	129	351241	21.5576	ug/L	100
71) 12Dibromometha	10.98	107	346733	20.2584	ug/L	100
72) Chlorobenzen	11.66	112	985558	15.2037	ug/L	99
73) 1Clhexane	11.64	91	475894	19.7186	ug/L	96
74) 1112Tetclota	11.77	131	317278	20.6354	ug/L	98
75) Ethylbenzene	11.82	91	1585365	17.7004	ug/L	97
76) m p-Xylene	11.99	106	1280324	36.4807	ug/L	98
77) o-Xylene	12.53	106	637885	19.7797	ug/L	100
78) Styrene	12.55	104	1071672	20.2052	ug/L	97
79) Bromoform	12.77	173	241869	20.8376	ug/L	99
80) Isopropylben	13.06	105	1545204	18.5194	ug/L	97
81) cyclohexanone	13.14	55	385267	418.8790	ug/L	96
84) Bromobenzene	13.47	156	447560	19.0313	ug/L	98
85) 1122Tetrclta	13.44	83	496107	18.7979	ug/L	98
86) 123Tric1proa	13.50	75	605399	19.9505	ug/L	98
87) 14dichloro2butene	13.53	53	148059	20.4848	ug/L	92
88) n-Propylbenz	13.64	91	1811273	17.2838	ug/L	98
89) 2chlorotolue	13.76	91	1120858	17.9933	ug/L	97
90) 4chlorotolue	13.91	91	1284640	18.0755	ug/L	97
91) 135Trimebenz	13.90	105	1339220	18.4423	ug/L	99
92) tbutylbenzen	14.37	119	1164886	18.3601	ug/L	99
93) 124Trimetben	14.44	105	1315552	19.0474	ug/L	98
94) sbutylbenzen	14.69	105	1614951	17.4668	ug/L	97
95) 13Diclorbenz	14.83	146	789221	18.4959	ug/L	99
96) pIsopropylto	14.90	119	1408236	18.0833	ug/L	97
97) 14dichlorobe	14.96	146	806404	18.6052	ug/L	99
98) 12dichlorobe	15.49	146	731239	18.2517	ug/L	99
99) nButylbenzen	15.50	91	1265769	17.9311	ug/L	98
100) 12dibromo3cl	16.59	157	97716	22.3729	ug/L	85
101) 135Trichlorobenzene	16.91	180	527573	20.0484	ug/L	97

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

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1121\WCAL6.D Vial: 9
 Acq On : 11 Mar 2021 14:13 Operator: RLD-DGS
 Sample : INITIAL CALIB. PT6 Inst : VMS3
 Misc : 20.0/200.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
 MS Integration Params: VOC.P

Quant Time: Mar 12 07:55:35 2021 Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
 Title : 8260C Waters Method
 Last Update : Fri Mar 12 06:55:27 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.72	180	453119	20.3299	ug/L	98
103) Hexachlorobu	17.97	225	242596	20.5754	ug/L	98
104) Naphthalene	18.03	128	1083645	20.0414	ug/L	97
105) 123Trichlben	18.34	180	412479	19.6986	ug/L	99

Abundance Quantitation Report

TIC: WCAL6.D

Data File : C:\INSTARCH\DATA\MAR1121\WCAL6.D

Vial: 9

Acq On : 11 Mar 2021 14:13

Operator: RLD-DGS

Sample : INITIAL CALIB. PT6

Inst : VMS3

Misc : 20.0/200.0 ug/L, 5.0 mL Purged + IS/SS

Multiplr: 1.00

MS Integration Params: VOC.P

4800000
Quant Time: Mar 12 07:55:35 2021

Results File: W031121.RES

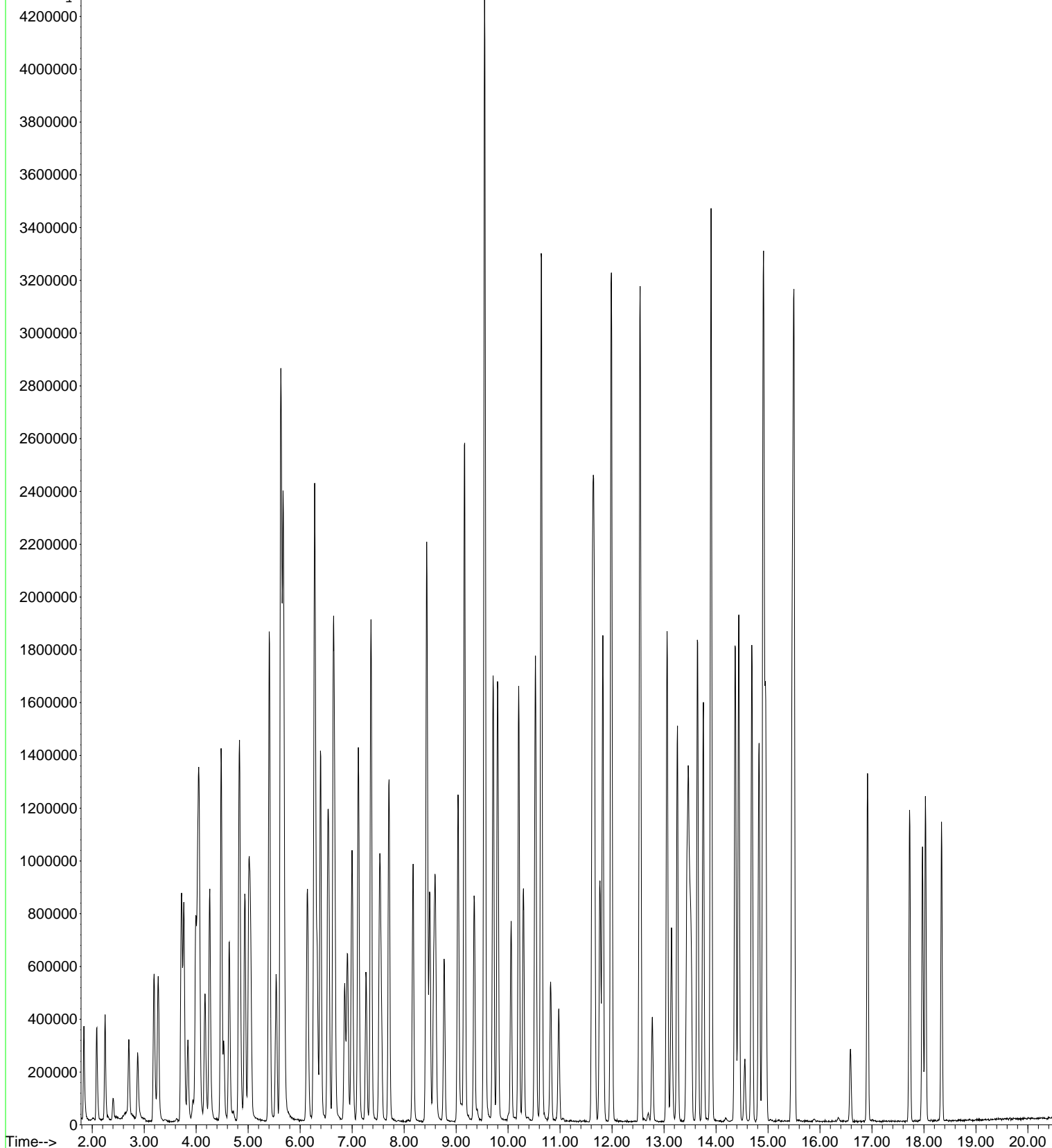
4600000
Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method

4400000
Last Update : Fri Mar 12 06:55:27 2021

Response via : Initial Calibration

DataAcq Meth : W031121.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1121\WCAL7.D

Vial: 10

Acq On : 11 Mar 2021 14:43

Operator: RLD-DGS

Sample : INITIAL CALIB. PT7

Inst : VMS3

Misc : 30.0/300.0 ug/L, 5.0 mL Purged + IS/SS

Multiplr: 1.00

MS Integration Params: VOC.P

Quant Time: Mar 12 07:56:21 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method

Last Update : Fri Mar 12 06:55:58 2021

Response via : Initial Calibration

DataAcq Meth : W031121.M

IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
						Rcv (Ar)
1) FLUOROBENZENE**ISTD**	7.71	96	1389435	20.00	ug/L	0.00 NA%
68) d5-CHLOROENZENE**ISTD**	11.62	117	1201644	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROENZENE**IS	14.92	152	699723	20.00	ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.86	113	363175	19.890	ug/L	0.00
Spiked Amount	20.000	Range	90 - 110	Recovery	= 99	%
45) SURR12DCAd4	7.27	102	99858	20.135	ug/L	0.00
Spiked Amount	20.000	Range	89 - 111	Recovery	= 101	%
61) SURRd8Tolule	9.71	98	1382783	19.846	ug/L	0.00
Spiked Amount	20.000	Range	93 - 107	Recovery	= 99	%
83) SURR4BrFBenz	13.25	95	644459	19.945	ug/L	0.00
Spiked Amount	20.000	Range	83 - 111	Recovery	= 100	%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodi	1.84	85	532838	31.0447	ug/L	100
3) Chloromethan	2.09	50	614321	28.2109	ug/L	100
4) VinylChlorid	2.25	62	624292	29.6887	ug/L	100
5) Bromomethane	2.70	94	356184	25.4827	ug/L	99
6) Chloroethane	2.87	64	418345	29.1600	ug/L	99
7) Dichloroflmethane	3.19	67	1052105	28.3742	ug/L	98
8) Trichlorofma	3.27	101	826660	30.9114	ug/L	97
9) Ethylether	3.71	59	471808	30.0413	ug/L	98
10) dichlorotfluoroethan	3.73	67	582188	31.5142	ug/L	98
11) propyleneoxide	3.76	58	1136820	311.4852	ug/L	96
12) Acrolein	3.84	56	453631	145.4683	ug/L	99
13) 11dichlorothe	3.99	96	518275	30.8957	ug/L	99
14) Trichlorotfluoroeth	4.04	101	925212	64.9748	ug/L	99
15) Acetone	4.06	43	1869165	232.0080	ug/L	96
16) Iodomethane	4.17	142	1117712	64.0680	ug/L	96
17) Carbon Dislf	4.26	76	2300525	54.4153	ug/L	97
18) allylchloride	4.48	41	1619729	56.8911	ug/L	97
19) methylacetate	4.53	74	151338	31.5582	ug/L	97
20) Methylchlorid	4.64	84	583813	27.6005	ug/L	96
21) tbutylalcohol	4.83	59	2953188	1435.2193	ug/L	98
22) Acrylonitrile	4.94	53	1205901	144.7870	ug/L	98
23) t12dichlorote	5.01	96	569409	30.0300	ug/L	98
24) MtBE	5.04	73	1440482	29.7719	ug/L	96
25) Hexane	5.40	57	1647463	61.3882	ug/L	99
26) 11dichlorota	5.54	63	968474	29.2879	ug/L	98
27) Vinylacetate	5.63	43	6979697	202.9277	ug/L	88
28) chloroprene	5.67	53	1726233	60.0104	ug/L	97
29) Diisopether	5.68	45	1710466	29.3020	ug/L	99
30) ETBE	6.14	59	1373524	29.1157	ug/L	99
31) 22dichloropr	6.28	77	683706	31.3105	ug/L	98
32) c12dichlorote	6.27	96	621704	29.1942	ug/L	98
33) 2Butanone	6.29	72	835101	290.7119	ug/L	98
34) propionitrile	6.33	54	1041238	289.6063	ug/L	99
35) Ethylacetate	6.40	88	153114	156.8031	ug/L	92
36) methacrylonitrile	6.54	67	630625	60.3078	ug/L	96
37) Bromochloroma	6.56	128	276408	28.9515	ug/L	97
38) Tetrahydrofur	6.64	42	1920787	278.1595	ug/L	96

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

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1121\WCAL7.D

Vial: 10

Acq On : 11 Mar 2021 14:43

Operator: RLD-DGS

Sample : INITIAL CALIB. PT7

Inst : VMS3

Misc : 30.0/300.0 ug/L, 5.0 mL Purged + IS/SS

Multiplr: 1.00

MS Integration Params: VOC.P

Quant Time: Mar 12 07:56:21 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method

Last Update : Fri Mar 12 06:55:58 2021

Response via : Initial Calibration

DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Chloroform	6.66	83	953148	28.8415	ug/L	99
40) 111trichlota	6.91	97	796564	32.0019	ug/L	98
42) Cyclohexane	7.00	56	893737	32.4394	ug/L	97
43) Carbtetracl	7.13	119	648600	33.0076	ug/L	97
44) 11dicloroprope	7.12	110	295201	31.7243	ug/L	96
46) Benzene	7.36	78	2091534	26.4620	ug/L	96
47) 12dichlorota	7.36	62	760456	29.4557	ug/L	99
48) TAME	7.53	73	1387193	30.0749	ug/L	98
49) trichloroete	8.17	95	586970	29.7656	ug/L	97
50) methylcyclohexane	8.44	83	1141501	32.2024	ug/L	98
51) 12dicloropra	8.43	63	635507	29.8921	ug/L	99
52) 23Dicl1propene	8.50	75	883388	30.6654	ug/L	98
53) Dibromometha	8.57	93	359413	29.4403	ug/L	99
54) methylmethacrylate	8.60	69	492122	31.9953	ug/L	99
55) 14dioxane	8.61	88	465351	1493.1853	ug/L	99
56) Bromodiclrma	8.77	83	719752	30.0281	ug/L	95
57) 2Nitropropane	9.04	43	1644474	318.7773	ug/L	100
58) 2CLEVE	9.16	63	1947527	141.1997	ug/L	97
59) c13diclorproe	9.35	75	892289	29.8264	ug/L	97
60) 4Meth2Pentan	9.55	43	4564560	236.0662	ug/L	89
62) Toluene	9.80	92	1397539	27.6430	ug/L	94
63) t13Dicloroprop	10.06	75	754706	32.8334	ug/L	99
64) ethylmethacrylate	10.20	69	1591534	60.8792	ug/L	98
65) 112Triclotha	10.30	83	460615	30.4480	ug/L	97
66) Tetrachlorte	10.53	166	660335	30.8558	ug/L	99
67) 13Diclorpropa	10.51	76	912814	28.7253	ug/L	100
69) 2Hexanone	10.64	43	3674880	251.9750	ug/L	92
70) Clorodibrmta	10.82	129	562396	31.9300	ug/L	99
71) 12Dibrometha	10.98	107	541877	29.9349	ug/L	97
72) Chlorobenzen	11.66	112	1501943	23.6647	ug/L	98
73) 1Clhexane	11.64	91	767396	30.1618	ug/L	96
74) 1112Tetclota	11.77	131	527546	31.8879	ug/L	99
75) Ethylbenzene	11.82	91	2389961	26.2985	ug/L	95
76) m p-Xylene	11.99	106	1951630	54.3024	ug/L	93
77) o-Xylene	12.53	106	1012146	29.8134	ug/L	95
78) Styrene	12.55	104	1643635	29.4003	ug/L	96
79) Bromoform	12.78	173	402679	32.1255	ug/L	96
80) Isopropylben	13.06	105	2338459	27.2841	ug/L	92
81) cyclohexanone	13.14	55	623394	629.6971	ug/L	96
84) Bromobenzene	13.47	156	698260	28.7740	ug/L	100
85) 1122Tetrclta	13.44	83	779643	28.6968	ug/L	97
86) 123Tric1proa	13.50	75	955081	30.0544	ug/L	98
87) 14dichloro2butene	13.53	53	245241	31.8432	ug/L	90
88) n-Propylbenz	13.64	91	2705894	25.8106	ug/L	95
89) 2chlorotolue	13.75	91	1715789	27.1662	ug/L	95
90) 4chlorotolue	13.91	91	1973818	27.3459	ug/L	95
91) 135Trimebenz	13.90	105	2023244	27.3486	ug/L	95
92) tbutylbenzen	14.37	119	1807404	27.8974	ug/L	98
93) 124Trimetben	14.44	105	1996529	28.1121	ug/L	95
94) sbutylbenzen	14.69	105	2455691	26.4207	ug/L	96
95) 13Diclorbenz	14.83	146	1215720	27.8732	ug/L	98
96) pIsopropylto	14.91	119	2140524	27.0991	ug/L	94
97) 14dichlorobe	14.96	146	1237452	27.9010	ug/L	98
98) 12dichlorobe	15.49	146	1141155	27.9163	ug/L	99
99) nButylbenzen	15.50	91	1963963	27.4173	ug/L	95
100) 12dibromo3cl	16.59	157	156779	32.8433	ug/L	88
101) 135Trichlorobenzene	16.91	180	821297	29.8168	ug/L	97

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

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1121\WCAL7.D Vial: 10
 Acq On : 11 Mar 2021 14:43 Operator: RLD-DGS
 Sample : INITIAL CALIB. PT7 Inst : VMS3
 Misc : 30.0/300.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
 MS Integration Params: VOC.P

Quant Time: Mar 12 07:56:21 2021 Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
 Title : 8260C Waters Method
 Last Update : Fri Mar 12 06:55:58 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.72	180	701262	29.9637	ug/L	98
103) Hexachlorobu	17.97	225	388578	31.1208	ug/L	99
104) Naphthalene	18.03	128	1674486	29.6201	ug/L	95
105) 123Trichlben	18.34	180	648750	29.7039	ug/L	99

Abundance Quantitation Report

TIC: WCAL7.D

Data File : C:\INSTARCH\DATA\MAR1121\WCAL7.D

Vial: 10

Acq On : 11 Mar 2021 14:43

Operator: RLD-DGS

Sample : INITIAL CALIB. PT7

Inst : VMS3

Misc : 30.0/300.0 ug/L, 5.0 mL Purged + IS/SS

Multiplr: 1.00

MS Integration Params: VOC.P

Quant Time: Mar 12 07:56:21 2021

Results File: W031121.RES

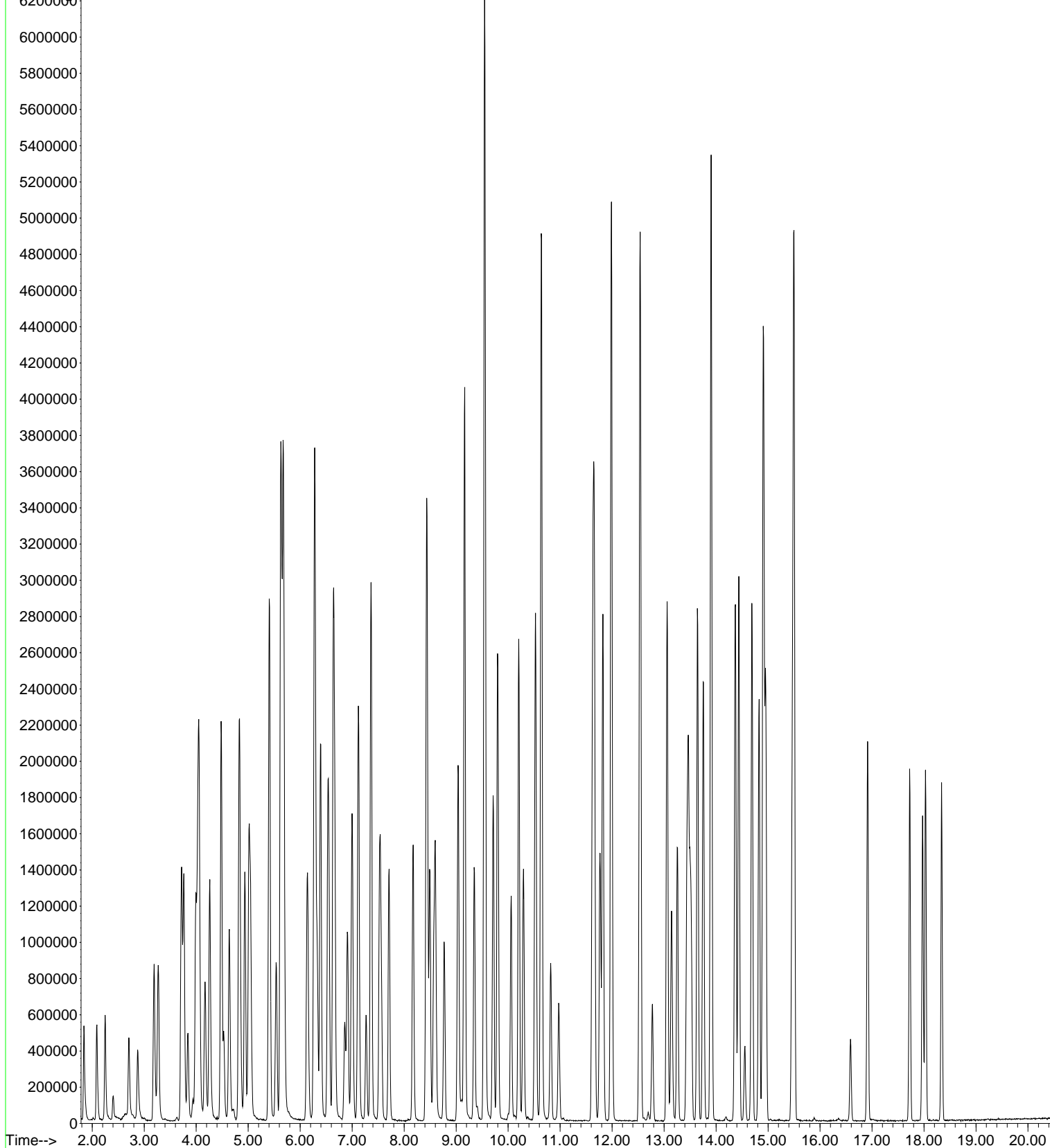
Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method

Last Update : Fri Mar 12 06:55:58 2021

Response via : Initial Calibration

DataAcq Meth : W031121.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1121\WCAL8.D

Vial: 11

Acq On : 11 Mar 2021 15:12

Operator: RLD-DGS

Sample : INITIAL CALIB. PT8

Inst : VMS3

Misc : 40.0/400.0 ug/L, 5.0 mL Purged + IS/SS

Multiplr: 1.00

MS Integration Params: VOC.P

Quant Time: Mar 12 07:56:39 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method

Last Update : Fri Mar 12 06:56:30 2021

Response via : Initial Calibration

DataAcq Meth : W031121.M

IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
						Rcv (Ar)
1) FLUOROBENZENE**ISTD**	7.71	96	1430825	20.00	ug/L	0.00 NA%
68) d5-CHLOROENZENE**ISTD**	11.62	117	1237546	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROENZENE**IS	14.92	152	736009	20.00	ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.86	113	373326	19.868	ug/L	0.00
Spiked Amount	20.000	Range	90 - 110	Recovery	=	99 %
45) SURR12DCAd4	7.27	102	99996	19.563	ug/L	0.00
Spiked Amount	20.000	Range	89 - 111	Recovery	=	98 %
61) SURRD8Tolule	9.71	98	1441428	20.109	ug/L	0.00
Spiked Amount	20.000	Range	93 - 107	Recovery	=	101 %
83) SURR4BrFBenz	13.25	95	670580	19.737	ug/L	0.00
Spiked Amount	20.000	Range	83 - 111	Recovery	=	99 %

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodi	1.84	85	700029	40.7462	ug/L	100
3) Chloromethan	2.08	50	811284	37.5619	ug/L	98
4) VinylChlorid	2.25	62	822057	39.2267	ug/L	100
5) Bromomethane	2.70	94	471722	34.5645	ug/L	99
6) Chloroethane	2.87	64	575518	40.5239	ug/L	99
7) Dichloroflmethane	3.19	67	1399425	38.0310	ug/L	97
8) Trichlorofma	3.27	101	1100187	41.1172	ug/L	97
9) Ethylether	3.71	59	656804	41.9152	ug/L	99
10) dichlorotfluoroethan	3.73	67	780778	42.1594	ug/L	98
11) propyleneoxide	3.76	58	1471884	404.4100	ug/L	94
12) Acrolein	3.84	56	629426	203.9467	ug/L	96
13) 11dichlorothe	3.99	96	689927	41.1082	ug/L	99
14) Trichlorotfluoroeth	4.04	101	1228137	85.7669	ug/L	98
15) Acetone	4.06	43	2399713	305.2713	ug/L	95
16) Iodomethane	4.17	142	1507286	86.3562	ug/L	95
17) Carbon Dislf	4.26	76	2967197	70.9921	ug/L	95
18) allylchloride	4.48	41	2167267	76.6898	ug/L	97
19) methylacetate	4.53	74	217452	45.4019	ug/L	99
20) Methylchlorid	4.64	84	790851	37.7705	ug/L	97
21) tbutylalcohol	4.83	59	3811519	1864.5935	ug/L	96
22) Acrylonitrile	4.94	53	1610457	195.4760	ug/L	97
23) t12dichlorote	5.01	96	752688	39.7873	ug/L	97
24) MtBE	5.04	73	1936880	40.1570	ug/L	95
25) Hexane	5.41	57	2118537	78.9539	ug/L	97
26) 11dichlorota	5.54	63	1290858	39.2209	ug/L	96
27) Vinylacetate	5.63	43	8382973	252.2085	ug/L	82
28) chloroprene	5.67	53	2249047	78.3715	ug/L	95
29) Diisopether	5.69	45	2271136	39.0881	ug/L	97
30) ETBE	6.14	59	1863850	39.7176	ug/L	97
31) 22dichloropr	6.28	77	925106	42.2882	ug/L	97
32) c12dichlorote	6.27	96	829926	39.1672	ug/L	98
33) 2Butanone	6.29	72	1115835	392.5241	ug/L	98
34) propionitrile	6.32	54	1386263	389.7846	ug/L	96
35) Ethylacetate	6.40	88	212876	218.4386	ug/L #	91
36) methacrylonitrile	6.53	67	839200	80.7730	ug/L	96
37) Bromochloroma	6.56	128	380867	40.1241	ug/L	97
38) Tetrahydrofur	6.64	42	2499666	365.4326	ug/L	94

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

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1121\WCAL8.D

Vial: 11

Acq On : 11 Mar 2021 15:12

Operator: RLD-DGS

Sample : INITIAL CALIB. PT8

Inst : VMS3

Misc : 40.0/400.0 ug/L, 5.0 mL Purged + IS/SS

Multiplr: 1.00

MS Integration Params: VOC.P

Quant Time: Mar 12 07:56:39 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method

Last Update : Fri Mar 12 06:56:30 2021

Response via : Initial Calibration

DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Chloroform	6.66	83	1293330	39.3761	ug/L	99
40) 111trichlota	6.91	97	1073971	42.9726	ug/L	99
42) Cyclohexane	7.00	56	1205283	43.5099	ug/L	97
43) Carbtetracl	7.13	119	877716	44.3443	ug/L	95
44) 11dicloroprope	7.12	110	398504	42.8536	ug/L	95
46) Benzene	7.36	78	2716924	34.8546	ug/L	94
47) 12dichlorota	7.36	62	1022968	39.7888	ug/L	100
48) TAME	7.53	73	1863995	40.4993	ug/L	97
49) trichloroete	8.17	95	795527	40.4689	ug/L	100
50) methylcyclohexane	8.44	83	1508312	42.3515	ug/L	97
51) 12dicloropra	8.43	63	864852	40.7914	ug/L	92
52) 23Dicl1propene	8.50	75	1168531	40.7488	ug/L	98
53) Dibromometha	8.57	93	499067	41.2528	ug/L	100
54) methylmethacrylate	8.60	69	662900	43.0834	ug/L	97
55) 14dioxane	8.61	88	625387	2021.8417	ug/L	99
56) Bromodiclrma	8.78	83	986312	41.2439	ug/L	97
57) 2Nitropropane	9.04	43	2193112	423.5829	ug/L	99
58) 2CLEVE	9.16	63	2560200	188.1527	ug/L	95
59) c13diclorproe	9.35	75	1216274	40.7765	ug/L	97
60) 4Meth2Pentan	9.55	43	5562637	294.4463	ug/L	84
62) Toluene	9.80	92	1861640	37.1939	ug/L	91
63) t13Dicloroprop	10.06	75	1054387	45.5645	ug/L	99
64) ethylmethacrylate	10.20	69	2112071	81.2271	ug/L	96
65) 112Triclotha	10.30	83	615509	40.9054	ug/L	96
66) Tetrachlorte	10.53	166	867942	40.5421	ug/L	98
67) 13Diclorpropa	10.52	76	1239407	39.2578	ug/L	98
69) 2Hexanone	10.64	43	4536255	318.8709	ug/L	88
70) Clorodibrmta	10.82	129	774410	43.7960	ug/L	97
71) 12Dibrometha	10.98	107	758376	42.0006	ug/L	100
72) Chlorobenzen	11.66	112	1956585	31.5440	ug/L	96
73) 1Clhexane	11.64	91	1040171	40.9561	ug/L	95
74) 1112Tetclota	11.77	131	709618	42.8916	ug/L	98
75) Ethylbenzene	11.82	91	3063686	34.1982	ug/L	92
76) m p-Xylene	11.99	106	2543030	71.5789	ug/L	88
77) o-Xylene	12.53	106	1357240	40.0949	ug/L	91
78) Styrene	12.55	104	2178525	39.1339	ug/L	93
79) Bromoform	12.78	173	557667	44.4497	ug/L	98
80) Isopropylben	13.06	105	2998554	35.3767	ug/L	91
81) cyclohexanone	13.14	55	827558	837.1329	ug/L	95
84) Bromobenzene	13.47	156	945577	38.3913	ug/L	100
85) 1122Tetrclta	13.44	83	1056650	38.3291	ug/L	96
86) 123Tric1proa	13.50	75	1334098	41.3814	ug/L	99
87) 14dichloro2butene	13.53	53	339026	43.1062	ug/L	87
88) n-Propylbenz	13.64	91	3419584	32.4490	ug/L	91
89) 2chlorotolue	13.75	91	2274334	35.6647	ug/L	93
90) 4chlorotolue	13.91	91	2564061	35.1624	ug/L	91
91) 135Trimetbenz	13.90	105	2615594	34.9960	ug/L	93
92) tbutylbenzen	14.37	119	2350989	35.8547	ug/L	96
93) 124Trimetben	14.43	105	2600696	36.1570	ug/L	93
94) sbutylbenzen	14.69	105	3147996	33.6263	ug/L	92
95) 13Diclorbenz	14.83	146	1615476	36.5995	ug/L	95
96) pIsopropylto	14.90	119	2779317	34.8568	ug/L	92
97) 14dichlorobe	14.96	146	1646950	36.6905	ug/L	95
98) 12dichlorobe	15.49	146	1532899	37.0499	ug/L	99
99) nButylbenzen	15.50	91	2530568	34.9602	ug/L	93
100) 12dibromo3cl	16.59	157	217919	44.5391	ug/L	88
101) 135Trichlorobenzene	16.91	180	1109202	39.5421	ug/L	97

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

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1121\WCAL8.D Vial: 11
 Acq On : 11 Mar 2021 15:12 Operator: RLD-DGS
 Sample : INITIAL CALIB. PT8 Inst : VMS3
 Misc : 40.0/400.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
 MS Integration Params: VOC.P

Quant Time: Mar 12 07:56:39 2021 Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
 Title : 8260C Waters Method
 Last Update : Fri Mar 12 06:56:30 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

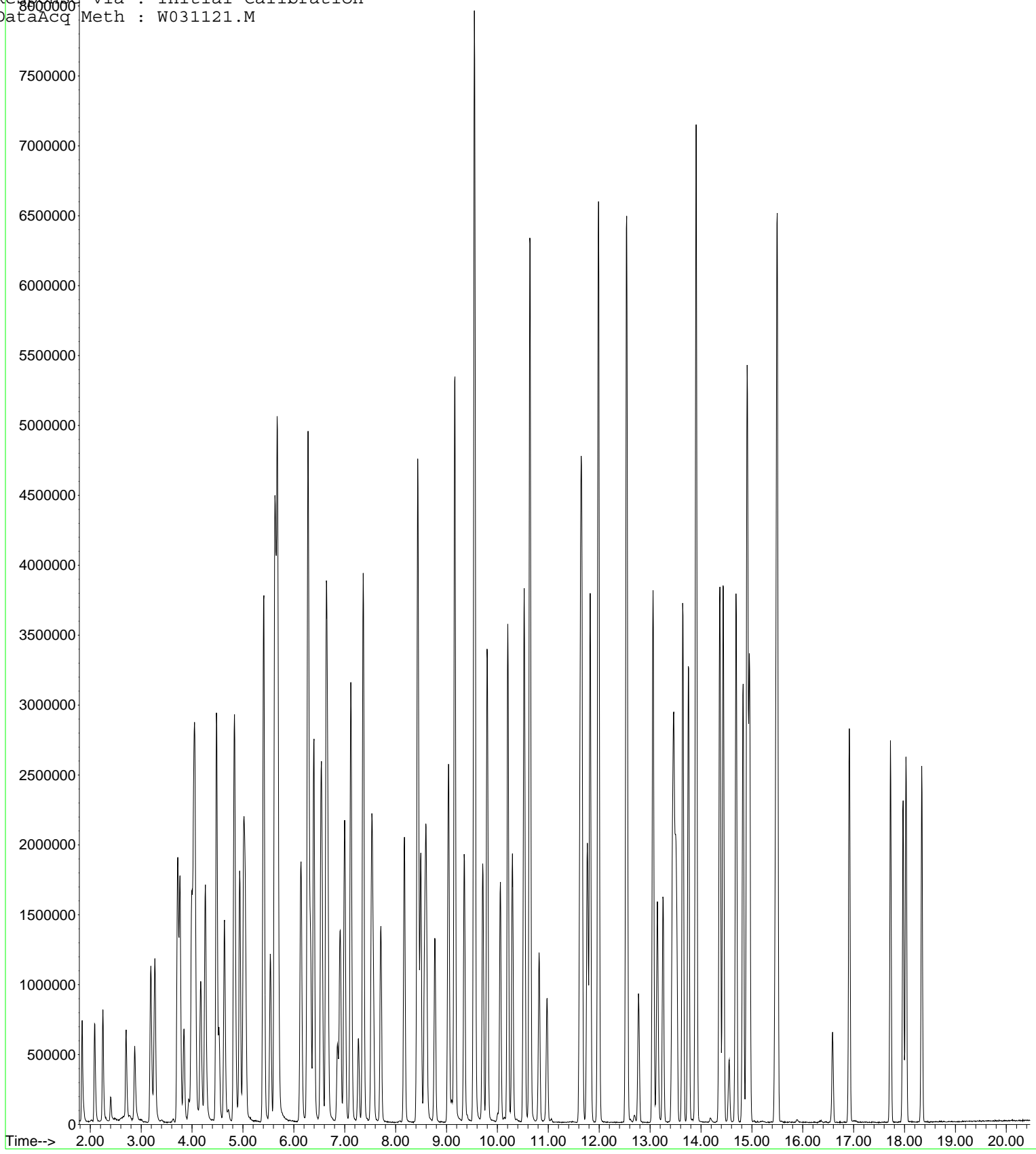
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.72	180	969447	40.6557	ug/L	99
103) Hexachlorobu	17.97	225	517138	40.4988	ug/L	97
104) Naphthalene	18.03	128	2241142	38.9527	ug/L	95
105) 123Trichlben	18.34	180	896202	40.3078	ug/L	97

Abundance
Date : C:\INSTARCH\DATA\MAR1121\WCAL8.D
Acq On : 11 Mar 2021 15:12
Sample : INITIAL CALIB. PT8
Misc : 40.0/400.0 ug/L, 5.0 mL Purged + IS/SS
MS Integration Params: VOC.P

TIC: WCAL8.D
Vial: 11
Operator: RLD-DGS
Inst : VMS3
Multiplr: 1.00

Quant Time: Mar 12 07:56:39 2021 Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 12 06:56:30 2021
Response via : Initial Calibration
DataAcq Meth : W031121.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1121\WCAL9.D

Vial: 12

Acq On : 11 Mar 2021 15:41

Operator: RLD-DGS

Sample : INITIAL CALIB. PT9

Inst : VMS3

Misc : 80.0/800.0 ug/L, 5.0 mL Purged + IS/SS

Multiplr: 1.00

MS Integration Params: VOC.P

Quant Time: Mar 12 07:57:13 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method

Last Update : Fri Mar 12 06:56:49 2021

Response via : Initial Calibration

DataAcq Meth : W031121.M

IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
						Rcv (Ar)
1) FLUOROBENZENE**ISTD**	7.71	96	1491235	20.00	ug/L	0.00 NA%
68) d5-CHLOROENZENE**ISTD**	11.62	117	1296937	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROENZENE**IS	14.92	152	770127	20.00	ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.86	113	393838	20.115	ug/L	0.00
Spiked Amount	20.000	Range	90 - 110	Recovery	= 101	%
45) SURR12DCAd4	7.27	102	106642	20.087	ug/L	0.00
Spiked Amount	20.000	Range	89 - 111	Recovery	= 100	%
61) SURRd8Tolule	9.72	98	1518709	20.298	ug/L	0.00
Spiked Amount	20.000	Range	93 - 107	Recovery	= 101	%
83) SURR4BrFBenz	13.25	95	700655	19.735	ug/L	0.00
Spiked Amount	20.000	Range	83 - 111	Recovery	= 99	%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodi	1.84	85	1344585	73.0816	ug/L	96
3) Chloromethan	2.08	50	1542167	66.7825	ug/L	95
4) VinylChlorid	2.25	62	1596279	71.1834	ug/L	97
5) Bromomethane	2.71	94	723447	49.5025	ug/L	100
6) Chloroethane	2.87	64	1138723	74.2313	ug/L	98
7) Dichloroflmethane	3.19	67	2636695	66.9557	ug/L	93
8) Trichlorofma	3.27	101	2143071	74.6774	ug/L	96
9) Ethylether	3.71	59	1293526	76.5937	ug/L	98
10) dichlorotfluoroethan	3.73	67	1521269	76.4768	ug/L	95
11) propyleneoxide	3.76	58	2810709	719.7052	ug/L	91
12) Acrolein	3.84	56	1278721	383.1558	ug/L	97
13) 11dichlorothe	3.99	96	1377286	76.5134	ug/L	96
14) Trichlorotfluoroeth	4.04	101	2370870	154.2283	ug/L	96
15) Acetone	4.06	43	4288159	513.7076	ug/L	88
16) Iodomethane	4.17	142	2883699	152.9466	ug/L	92
17) Carbon Dislf	4.26	76	5171562	116.1239	ug/L	89
18) allylchloride	4.48	41	3833771	126.6675	ug/L	92
19) methylacetate	4.53	74	457776	87.6796	ug/L	100
20) Methylchlorid	4.64	84	1553469	69.2276	ug/L	96
21) tbutylalcohol	4.83	59	6453829	2959.6021	ug/L	88
22) Acrylonitrile	4.94	53	2965632	334.6871	ug/L	94
23) t12dichlorote	5.01	96	1488521	73.4774	ug/L	97
24) MtBE	5.05	73	3623126	70.0175	ug/L	89
25) Hexane	5.41	57	3831719	133.7299	ug/L #	92
26) 11dichlorota	5.54	63	2467734	69.9905	ug/L	93
27) Vinylacetate	5.63	43	11646279	332.4572	ug/L	65
28) chloroprene	5.67	53	4068785	132.6352	ug/L	89
29) Diisopether	5.69	45	4206811	67.6160	ug/L	92
30) ETBE	6.14	59	3501788	69.5177	ug/L	92
31) 22dichloropr	6.28	77	1899606	80.7665	ug/L	94
32) c12dichlorote	6.27	96	1638751	72.1859	ug/L	97
33) 2Butanone	6.29	72	2157260	705.4541	ug/L	95
34) propionitrile	6.33	54	2674599	699.5119	ug/L	93
35) Ethylacetate	6.40	88	433015	409.7517	ug/L #	88
36) methacrylonitrile	6.54	67	1682198	150.4450	ug/L	98
37) Bromochloroma	6.56	128	760644	74.5263	ug/L	95
38) Tetrahydrofur	6.64	42	4419797	605.5351	ug/L	87

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

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1121\WCAL9.D

Vial: 12

Acq On : 11 Mar 2021 15:41

Operator: RLD-DGS

Sample : INITIAL CALIB. PT9

Inst : VMS3

Misc : 80.0/800.0 ug/L, 5.0 mL Purged + IS/SS

Multiplr: 1.00

MS Integration Params: VOC.P

Quant Time: Mar 12 07:57:13 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method

Last Update : Fri Mar 12 06:56:49 2021

Response via : Initial Calibration

DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Chloroform	6.67	83	2457568	69.7225	ug/L	97
40) 111trichlota	6.91	97	2114972	78.7014	ug/L	96
42) Cyclohexane	7.00	56	2325019	78.0236	ug/L	95
43) Carbtetracl	7.13	119	1804855	84.6866	ug/L	92
44) 11dicloroprope	7.12	110	829426	82.5826	ug/L #	87
46) Benzene	7.36	78	4703700	56.6198	ug/L	86
47) 12dichlorota	7.36	62	2011360	72.9370	ug/L	96
48) TAME	7.53	73	3550912	71.8998	ug/L	96
49) trichloroete	8.17	95	1558249	73.8157	ug/L	98
50) methylcyclohexane	8.44	83	2895208	75.7873	ug/L	94
51) 12dicloropra	8.43	63	1705758	74.8722	ug/L	88
52) 23Dicl1propene	8.50	75	2273969	73.7090	ug/L	94
53) Dibromometha	8.57	93	1021731	78.0632	ug/L	98
54) methylmethacrylate	8.59	69	1366365	82.2261	ug/L	96
55) 14dioxane	8.61	88	1262729	3789.0578	ug/L	97
56) Bromodiclrma	8.77	83	1958506	76.1408	ug/L	94
57) 2Nitropropane	9.04	43	4078284	733.6551	ug/L	96
58) 2CLEVE	9.16	63	4389920	300.7940	ug/L	86
59) c13diclorproe	9.35	75	2363570	73.7330	ug/L	91
60) 4Meth2Pentan	9.55	43	7986967	399.9431	ug/L	68
62) Toluene	9.80	92	3386235	63.2451	ug/L #	83
63) t13Dicloroprop	10.06	75	2089743	83.5218	ug/L	94
64) ethylmethacrylate	10.20	69	3801606	135.8667	ug/L	90
65) 112Triclotha	10.30	83	1260197	77.7521	ug/L	97
66) Tetrachlorte	10.53	166	1746504	76.1855	ug/L	96
67) 13Diclorpropa	10.52	76	2404602	70.9760	ug/L	94
69) 2Hexanone	10.64	43	6811351	448.4098	ug/L	76
70) Clorodibrmta	10.82	129	1578709	82.3527	ug/L	96
71) 12Dibrometha	10.98	107	1518159	77.5406	ug/L	100
72) Chlorobenzen	11.66	112	3577732	53.9254	ug/L	92
73) 1Clhexane	11.64	91	2045173	74.5480	ug/L	95
74) 1112Tetclota	11.77	131	1470952	81.8975	ug/L	96
75) Ethylbenzene	11.82	91	5174443	53.9803	ug/L	81
76) m p-Xylene	11.99	106	4456698	116.9565	ug/L #	75
77) o-Xylene	12.53	106	2552225	69.9119	ug/L #	80
78) Styrene	12.55	104	3848203	64.2105	ug/L	87
79) Bromoform	12.78	173	1151072	84.1231	ug/L	98
80) Isopropylben	13.06	105	4975599	54.8206	ug/L	80
81) cyclohexanone	13.14	55	1653394	1544.1800	ug/L	91
84) Bromobenzene	13.47	156	1851799	69.9795	ug/L	98
85) 1122Tetrclta	13.44	83	2031674	68.5929	ug/L	94
86) 123Triclproa	13.50	75	2660330	76.0859	ug/L	100
87) 14dichloro2butene	13.53	53	719612	84.3384	ug/L	83
88) n-Propylbenz	13.65	91	5503389	49.0747	ug/L	79
89) 2chlorotolue	13.76	91	3966040	58.1008	ug/L	84
90) 4chlorotolue	13.91	91	4415574	56.6855	ug/L	83
91) 135Trimetbenz	13.90	105	4471858	56.0396	ug/L	87
92) tbutylbenzen	14.37	119	4110492	58.6540	ug/L	90
93) 124Trimetben	14.44	105	4430581	57.6154	ug/L	86
94) sbutylbenzen	14.69	105	5189139	51.9933	ug/L	82
95) 13Diclorbenz	14.83	146	2980576	63.0324	ug/L	92
96) pIsopropylto	14.91	119	4640832	54.4972	ug/L	82
97) 14dichlorobe	14.96	146	3032408	63.0470	ug/L	92
98) 12dichlorobe	15.49	146	2819471	63.5313	ug/L	95
99) nButylbenzen	15.50	91	4305741	55.7310	ug/L	85
100) 12dibromo3cl	16.59	157	464985	87.4416	ug/L	91
101) 135Trichlorobenzene	16.91	180	2107896	69.9053	ug/L	97

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

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1121\WCAL9.D Vial: 12
 Acq On : 11 Mar 2021 15:41 Operator: RLD-DGS
 Sample : INITIAL CALIB. PT9 Inst : VMS3
 Misc : 80.0/800.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
 MS Integration Params: VOC.P

Quant Time: Mar 12 07:57:13 2021 Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
 Title : 8260C Waters Method
 Last Update : Fri Mar 12 06:56:49 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

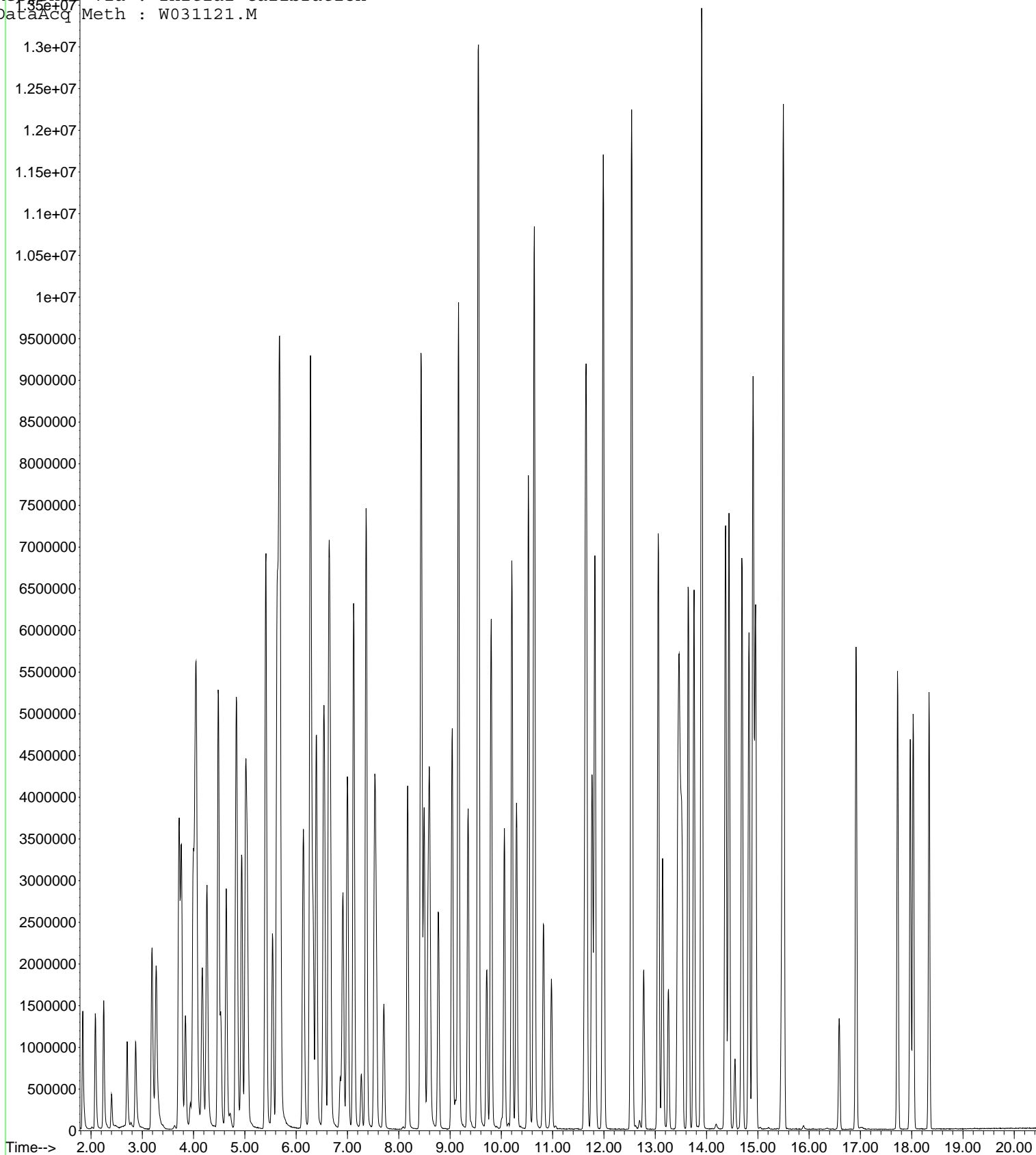
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.72	180	1887940	73.4359	ug/L	99
103) Hexachlorobu	17.97	225	1025176	74.7452	ug/L	97
104) Naphthalene	18.03	128	3897539	63.0966	ug/L	88
105) 123Trichlben	18.34	180	1724261	71.9528	ug/L	97

Abundance
Data File : C:\INSTARCH\DATA\MAR1121\WCAL9.D
Acq On : 11 Mar 2021 15:41
Sample : INITIAL CALIB. PT9
Misc : 80.0/800.0 ug/L, 5.0 mL Purged + IS/SS
MS Integration Params: VOC.P

TIC: WCAL9.D
Vial: 12
Operator: RLD-DGS
Inst : VMS3
Multiplr: 1.00

Quant Time: Mar 12 07:57:13 2021 Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 12 06:56:49 2021
Response via : Initial Calibration
DataAcq Meth : W031121.M



Data File : C:\Instarch\Data\MAR1121\ICV1.D Vial: 14
 Acq On : 11 Mar 2021 16:40 Operator: RLD-DGS
 Sample : INITIAL CALIB. VERIF. Inst : VMS3
 Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
 Integrator: RTE

Quant Time: Mar 12 08:07:02 2021

Quant Method : C:\INSTARCH\METHODS\W031121.M
 Quant Title : 8260C Waters Method
 Response via : Initial Calibration
 DataAcq Meth:W031121.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	112	0.00
2 PT	Dichlorodi	0.2444	0.3091	-26.47#	128	0.00
3 PT	Chloromethan	0.3040	0.3283	-7.99	116	0.00
4 PT	VinylChlorid	0.2971	0.3216	-8.25	110	0.00
5 PT	Bromomethane	0.1730	0.1901	-9.88	110	0.00
6 PT	Chloroethane	0.2039	0.1953	4.22	100	0.00
7 T	Dichloroflmethane	0.5186	0.4978	4.01	102	0.00
8 PT	Trichlorofma	0.3820	0.3979	-4.16	103	0.00
9 T	Ethylether	0.2254	0.2142	4.97	104	0.00
10 T	dichlorotfluoroethan	0.2655	0.2663	-0.30	101	0.00
11 T	propyleneoxide	0.0517	0.0507	1.93	106	0.00
12 T	Acrolein	0.0445	0.0377	15.28	93	0.00
13 PT	1ldichlorothe	0.2402	0.2456	-2.25	106	0.00
14 PT	Trichlorotfluoroeth	0.2053	0.2097	-2.14	101	0.00
15 PT	Acetone	0.1035	0.0954#	7.83	112	0.00
16 T	Iodomethane	0.2515	0.2328	7.44	100	0.00
17 PT	Carbon Dislf	0.5791	0.5910	-2.05	103	0.00
18 T	allylchloride	0.3965	0.3987	-0.55	105	0.00
19 PT	methylacetate	0.0709	0.0692#	2.40	110	0.00
20 PT	Methylchlorid	0.2965	0.2737	7.69	101	0.00
21 T	tbutylalcohol	0.0284	0.0281#	1.06	108	0.00
22 T	Acrylonitrile	0.1164	0.1102	5.33	102	0.00
23 PT	t12dichlorote	0.2692	0.2590	3.79	100	0.00
24 PT	MtBE	0.6844	0.6819	0.37	105	0.00
25 T	Hexane	0.3773	0.3792	-0.50	98	0.00
26 PT	1ldichlorota	0.4663	0.4684	-0.45	108	0.00
27 T	Vinylacetate	0.4698	0.4373	6.92	99	0.00
28 T	chloroprene	0.4036	0.4244	-5.15	104	0.00
29 T	Diisopether	0.8201	0.8056	1.77	104	0.00
30 T	ETBE	0.6657	0.6549	1.62	108	0.00
31 T	22dichloropr	0.3158	0.2919	7.57	96	0.00
32 PT	cl2dichlorote	0.3012	0.2851	5.35	104	0.00
33 PT	2Butanone	0.0404	0.0362#	10.40	102	0.00
34 T	propionitrile	0.0505	0.0489	3.17	106	0.00
35 T	Ethylacetate	0.0142	0.0145#	-2.11	119	0.00
36 T	methacrylonitrile	0.1488	0.1399	5.98	102	0.00
37 T	Bromochloroma	0.1358	0.1351	0.52	111	0.00
38 T	Tetrahydrofur	0.0952	0.0940	1.26	107	0.00
39 PT	Chloroform	0.4660	0.4418	5.19	103	0.00
40 PT	111trichlota	0.3598	0.3691	-2.58	108	0.00
41 S	SURRDibrflma	0.2628	0.2658	-1.14	112	0.00
42 PT	Cyclohexane	0.3986	0.4168	-4.57	102	0.00
43 PT	Carbtetracl	0.2877	0.2772	3.65	101	0.00
44 T	1ldicloprope	0.1352	0.1382	-2.22	110	0.00
45 S	SURR12DCAd4	0.0712	0.0711	0.14	113	0.00
46 PT	Benzene	1.0780	1.0501	2.59	102	0.00
47 PT	12dichlorota	0.3662	0.3614	1.31	107	0.00
48 T	TAME	0.6549	0.6373	2.69	107	0.00

49	PT	trichloroete	0.2807	0.2781	0.93	104	0.00
50	PT	methylcyclohexane	0.5094	0.5393	-5.87	104	0.00
51	PT	12dicloropra	0.3034	0.2850	6.06	101	0.00
52	T	23Dicllpropene	0.4097	0.3818	6.81	103	0.00
53	T	Dibromometha	0.1750	0.1635	6.57	102	0.00
54	T	methylmethacrylate	0.2236	0.2146	4.03	107	0.00
55	T	14dioxane	0.0044	0.0041#	6.82	106	0.00
56	PT	Bromodiclrma	0.3431	0.3248	5.33	102	0.00
57	T	2Nitropropane	0.0739	0.0699	5.41	105	0.00
58	T	2CLEVE	0.1897	0.1912	-0.79	105	0.00
59	PT	cl3dicloproe	0.4262	0.3923	7.95	101	0.00
60	PT	4Meth2Pentan	0.2678	0.2633	1.68	107	0.00
61	S	SURRd8Tolule	1.0051	0.9905	1.45	111	0.00
62	PT	Toluene	0.7014	0.6864	2.14	104	0.00
63	PT	t13Dicloprop	0.3372	0.3241	3.88	104	0.00
64	T	ethylmethacrylate	0.3682	0.3712	-0.81	107	0.00
65	PT	112Triclotha	0.2166	0.2072	4.34	102	-0.01
66	PT	Tetrachlorte	0.3058	0.3115	-1.86	105	0.00
67	T	13Dicloropropa	0.4487	0.4272	4.79	105	0.00
68	I	d5-CHLOROENZENE**ISTD**	1.0000	1.0000	0.00	110	0.00
69	PT	2Hexanone	0.2342	0.2392	-2.13	107	0.00
70	PT	Clorodibrmta	0.2966	0.2842	4.18	103	0.00
71	PT	12Dibromometha	0.3009	0.2952	1.89	106	0.00
72	PT	Chlorobenzen	0.9861	0.8658	12.20	103	0.00
73	T	1Clhexane	0.4199	0.4115	2.00	103	0.00
74	T	1112Tetclota	0.2778	0.2642	4.90	105	0.00
75	PT	Ethylbenzene	1.4248	1.4527	-1.96	105	0.00
76	PT	m p-Xylene	0.5701	0.5693	0.14	101	0.00
77	PT	o-Xylene	0.5551	0.5603	-0.94	104	0.00
78	PT	Styrene	0.9039	0.9201	-1.79	105	0.00
79	PT	Bromoform	0.2124	0.1999	5.89	114	0.00
80	PT	Isopropylben	1.3507	1.4132	-4.63	107	0.00
81	T	cyclohexanone	0.0164	0.0161#	1.83	112	0.00
82	I	d4-1,4-DICHLOROENZENE**IS	1.0000	1.0000	0.00	112	0.00
83	S	SURR4BrFBenz	0.9207	0.9278	-0.77	112	0.00
84	T	Bromobenzene	0.6776	0.6360	6.14	102	0.00
85	PT	1122Tetrclta	0.7570	0.6999	7.54	101	0.00
86	T	123Triclproa	0.9025	0.8428	6.61	104	0.00
87	T	14dichloro2butene	0.2231	0.1922	13.85	95	0.00
88	T	n-Propylbenz	2.9123	2.8731	1.35	107	0.00
89	T	2chlorotolue	1.7188	1.7068	0.70	104	0.00
90	T	4chlorotolue	1.9574	1.9383	0.98	104	0.00
91	T	135Trimebenz	2.0034	2.0159	-0.62	104	0.00
92	T	tbutylbenzen	1.7660	1.8369	-4.01	109	0.00
93	T	124Trimetben	1.9350	2.0018	-3.45	107	0.00
94	T	sbutylbenzen	2.5919	2.6119	-0.77	110	0.00
95	PT	13Diclorbenz	1.1991	1.1268	6.03	102	0.00
96	T	pIsopropylto	2.1214	2.1901	-3.24	106	0.00
97	PT	14dichlorobe	1.2197	1.1702	4.06	104	0.00
98	PT	12dichlorobe	1.1262	1.0834	3.80	105	0.00
99	T	nButylbenzen	1.9157	1.8958	1.04	104	0.00
100	PT	12dibromo3cl	0.1397	0.1218	12.81	111	0.00
101	T	135Trichlorobenzene	0.7721	0.7031	8.94	102	0.00
102	PT	124Trichlobe	0.6616	0.6270	5.23	108	0.00
103	T	Hexachlorobu	0.3536	0.3306	6.50	102	0.00
104	T	Naphthalene	1.5665	1.5410	1.63	106	0.00
105	T	123Trichlben	0.6154	0.5635	8.43	103	0.00

(#) = Out of Range

SPCC's out = 3 CCC's out = 0

Data File : C:\Instarch\Data\MAR1121\ICV1.D Vial: 14
 Acq On : 11 Mar 2021 16:40 Operator: RLD-DGS
 Sample : INITIAL CALIB. VERIF. Inst : VMS3
 Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
 Integrator: RTE

Quant Time: Mar 12 08:07:02 2021

Quant Method : C:\INSTARCH\METHODS\W031121.M
 Quant Title : 8260C Waters Method
 Response via : Initial Calibration
 DataAcq Meth:W031121.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	FLUOROBENZENE**ISTD**	20.0000	20.0000	0.00	112	0.00
2 PT	Dichlorodi	10.0000	11.8534	-18.53	128	0.00
3 PT	Chloromethan	10.0000	10.7983	-7.98	116	0.00
4 PT	VinylChlorid	10.0000	10.8260	-8.26	110	0.00
5 PT	Bromomethane	10.0000	10.9879	-9.88	110	0.00
6 PT	Chloroethane	10.0000	9.5808	4.19	100	0.00
7 T	Dichloroflmethane	10.0000	9.5991	4.01	102	0.00
8 PT	Trichlorofma	10.0000	10.4160	-4.16	103	0.00
9 T	Ethylether	10.0000	9.5009	4.99	104	0.00
10 T	dichlorotfluoroethan	10.0000	10.0324	-0.32	101	0.00
11 T	propyleneoxide	100.0000	97.9991	2.00	106	0.00
12 T	Acrolein	50.0000	42.3517	15.30	93	0.00
13 PT	1ldichlorothe	10.0000	10.2246	-2.25	106	0.00
14 PT	Trichlorotfluoroeth	20.0000	20.4226	-2.11	101	0.00
15 PT	Acetone	100.0000	98.6453	1.35	112	0.00
16 T	Iodomethane	20.0000	18.5161	7.42	100	0.00
17 PT	Carbon Dislf	20.0000	20.4102	-2.05	103	0.00
18 T	allylchloride	20.0000	20.1089	-0.54	105	0.00
19 PT	methylacetate	10.0000	9.7712	2.29	110	0.00
20 PT	Methylchlorid	10.0000	9.2320	7.68	101	0.00
21 T	tbutylalcohol	500.0000	495.3616	0.93	108	0.00
22 T	Acrylonitrile	50.0000	47.3186	5.36	102	0.00
23 PT	t12dichlorthe	10.0000	9.6215	3.79	100	0.00
24 PT	MtBE	10.0000	9.9639	0.36	105	0.00
25 T	Hexane	20.0000	20.1025	-0.51	98	0.00
26 PT	1ldichlorota	10.0000	10.0460	-0.46	108	0.00
27 T	Vinylacetate	100.0000	93.2214	6.78	99	0.00
28 T	chloroprene	20.0000	21.0292	-5.15	104	0.00
29 T	Diisopether	10.0000	9.8231	1.77	104	0.00
30 T	ETBE	10.0000	9.8365	1.64	108	0.00
31 T	22dichloropr	10.0000	9.2438	7.56	96	0.00
32 PT	cl2dichlorthe	10.0000	9.4655	5.34	104	0.00
33 PT	2Butanone	100.0000	89.6854	10.31	102	0.00
34 T	propionitrile	100.0000	96.8885	3.11	106	0.00
35 T	Ethylacetate	50.0000	50.9138	-1.83	119	0.00
36 T	methacrylonitrile	20.0000	18.7947	6.03	102	0.00
37 T	Bromochloroma	10.0000	9.9468	0.53	111	0.00
38 T	Tetrahydrofur	100.0000	98.7224	1.28	107	0.00
39 PT	Chloroform	10.0000	9.4808	5.19	103	0.00
40 PT	111trichlota	10.0000	10.2603	-2.60	108	0.00
41 S	SURRDibrflma	20.0000	20.2285	-1.14	112	0.00
42 PT	Cyclohexane	10.0000	10.4588	-4.59	102	0.00
43 PT	Carbtetracl	10.0000	9.6361	3.64	101	0.00
44 T	1ldicloprope	10.0000	10.2216	-2.22	110	0.00
45 S	SURR12DCAd4	20.0000	19.9647	0.18	113	0.00
46 PT	Benzene	10.0000	9.7415	2.58	102	0.00
47 PT	12dichlorota	10.0000	9.8688	1.31	107	0.00
48 T	TAME	10.0000	9.7317	2.68	107	0.00

49	PT	trichloroete	10.0000	9.9072	0.93	104	0.00
50	PT	methylcyclohexane	10.0000	10.5877	-5.88	104	0.00
51	PT	12dicloropra	10.0000	9.3952	6.05	101	0.00
52	T	23Dicl1propene	10.0000	9.3196	6.80	103	0.00
53	T	Dibromometha	10.0000	9.3442	6.56	102	0.00
54	T	methylmethacrylate	10.0000	9.5964	4.04	107	0.00
55	T	14dioxane	500.0000	460.9700	7.81	106	0.00
56	PT	Bromodiclrma	10.0000	9.4665	5.34	102	0.00
57	T	2Nitropropane	100.0000	94.6270	5.37	105	0.00
58	T	2CLEVE	50.0000	50.4087	-0.82	105	0.00
59	PT	cl3dicloproe	10.0000	9.2044	7.96	101	0.00
60	PT	4Meth2Pentan	100.0000	96.8764	3.12	107	0.00
61	S	SURRd8Tolule	20.0000	19.7090	1.46	111	0.00
62	PT	Toluene	10.0000	9.7869	2.13	104	0.00
63	PT	t13Dicloprop	10.0000	9.6109	3.89	104	0.00
64	T	ethylmethacrylate	20.0000	20.1618	-0.81	107	0.00
65	PT	112Triclotha	10.0000	9.5634	4.37	102	-0.01
66	PT	Tetrachlorte	10.0000	10.1866	-1.87	105	0.00
67	T	13Dicloropropa	10.0000	9.5211	4.79	105	0.00
68	I	d5-CHLOROENZENE**ISTD**	20.0000	20.0000	0.00	110	0.00
69	PT	2Hexanone	100.0000	102.1042	-2.10	107	0.00
70	PT	Clorodibrmta	10.0000	9.5815	4.18	103	0.00
71	PT	12Dibromometha	10.0000	9.8111	1.89	106	0.00
72	PT	Chlorobenzen	10.0000	9.5178	4.82	103	0.00
73	T	1Clhexane	10.0000	9.8019	1.98	103	0.00
74	T	1112Tetclota	10.0000	9.5097	4.90	105	0.00
75	PT	Ethylbenzene	10.0000	10.1957	-1.96	105	0.00
76	PT	m p-Xylene	20.0000	19.9716	0.14	101	0.00
77	PT	o-Xylene	10.0000	10.0936	-0.94	104	0.00
78	PT	Styrene	10.0000	10.1785	-1.78	105	0.00
79	PT	Bromoform	10.0000	9.4134	5.87	114	0.00
80	PT	Isopropylben	10.0000	10.4632	-4.63	107	0.00
81	T	cyclohexanone	200.0000	195.3502	2.32	112	0.00
82	I	d4-1,4-DICHLOROENZENE**IS	20.0000	20.0000	0.00	112	0.00
83	S	SURR4BrFBenz	20.0000	20.1556	-0.78	112	0.00
84	T	Bromobenzene	10.0000	9.3857	6.14	102	0.00
85	PT	1122Tetrclta	10.0000	9.2449	7.55	101	0.00
86	T	123Triclproa	10.0000	9.3382	6.62	104	0.00
87	T	14dichloro2butene	10.0000	8.6170	13.83	95	0.00
88	T	n-Propylbenz	10.0000	9.8654	1.35	107	0.00
89	T	2chlorotolue	10.0000	9.9300	0.70	104	0.00
90	T	4chlorotolue	10.0000	9.9020	0.98	104	0.00
91	T	135Trimebenz	10.0000	10.0628	-0.63	104	0.00
92	T	tbutylbenzen	10.0000	10.4014	-4.01	109	0.00
93	T	124Trimetben	10.0000	10.3453	-3.45	107	0.00
94	T	sbutylbenzen	10.0000	10.0771	-0.77	110	0.00
95	PT	13Diclorbenz	10.0000	9.3971	6.03	102	0.00
96	T	pIsopropylto	10.0000	10.3241	-3.24	106	0.00
97	PT	14dichlorobe	10.0000	9.5946	4.05	104	0.00
98	PT	12dichlorobe	10.0000	9.6202	3.80	105	0.00
99	T	nButylbenzen	10.0000	9.8961	1.04	104	0.00
100	PT	12dibromo3cl	10.0000	8.7220	12.78	111	0.00
101	T	135Trichlorobenzene	10.0000	9.1069	8.93	102	0.00
102	PT	124Trichlobe	10.0000	9.4775	5.23	108	0.00
103	T	Hexachlorobu	10.0000	9.3501	6.50	102	0.00
104	T	Naphthalene	10.0000	9.8370	1.63	106	0.00
105	T	123Trichlben	10.0000	9.1564	8.44	103	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report

Data File : C:\Instarch\Data\MAR1121\ICV1.D

Vial: 14

Acq On : 11 Mar 2021 16:40

Operator: RLD-DGS

Sample : INITIAL CALIB. VERIF.

Inst : VMS3

Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS

Multiplr: 1.00

MS Integration Params: VOC.P

Quant Time: Mar 12 08:07:02 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method

Last Update : Fri Mar 12 07:06:57 2021

Response via : Initial Calibration

DataAcq Meth : W031121.M

IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
						Rcv (Ar)
1) FLUOROBENZENE**ISTD**	7.71	96	1468568	20.00	ug/L	0.00 NA%
68) d5-CHLORO BENZENE**ISTD**	11.62	117	1247599	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLORO BENZENE**IS	14.92	152	720493	20.00	ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.86	113	390290	20.228	ug/L	0.00
Spiked Amount	20.000	Range	90 - 110	Recovery	= 101	%
45) SURR12DCAd4	7.27	102	104430	19.965	ug/L	0.00
Spiked Amount	20.000	Range	89 - 111	Recovery	= 100	%
61) SURRd8Tolule	9.71	98	1454629	19.709	ug/L	0.00
Spiked Amount	20.000	Range	93 - 107	Recovery	= 99	%
83) SURR4BrFBenz	13.26	95	668491	20.156	ug/L	0.00
Spiked Amount	20.000	Range	83 - 111	Recovery	= 101	%

Target Compounds

						Qvalue
2) Dichlorodi	1.84	85	226955	11.8534	ug/L	97
3) Chloromethan	2.08	50	241059	10.7983	ug/L	98
4) VinylChlorid	2.25	62	236154	10.8260	ug/L	97
5) Bromomethane	2.70	94	139592	10.9879	ug/L	99
6) Chloroethane	2.87	64	143433	9.5808	ug/L	97
7) Dichloroflmethane	3.19	67	365521	9.5991	ug/L	100
8) Trichlorofma	3.27	101	292197	10.4160	ug/L	98
9) Ethylether	3.71	59	157266	9.5009	ug/L	96
10) dichlorotfluoroethan	3.73	67	195568	10.0324	ug/L	99
11) propyleneoxide	3.76	58	372176	97.9991	ug/L	99
12) Acrolein	3.84	56	138461	42.3517	ug/L	99
13) 11dichlorothe	3.99	96	180373	10.2246	ug/L	97
14) Trichlorotfluoroeth	4.03	101	307935	20.4226	ug/L	99
15) Acetone	4.06	43	700765	98.6453	ug/L	99
16) Iodomethane	4.17	142	341907	18.5161	ug/L	99
17) Carbon Dislf	4.26	76	867876	20.4102	ug/L	100
18) allylchloride	4.48	41	585498	20.1089	ug/L	98
19) methylacetate	4.53	74	50843	9.7712	ug/L	100
20) Methylchlorid	4.64	84	200965	9.2320	ug/L	94
21) tbutylalcohol	4.83	59	1033043	495.3616	ug/L	98
22) Acrylonitrile	4.94	53	404485	47.3186	ug/L	97
23) t12dichlorote	5.01	96	190213	9.6215	ug/L	97
24) MtBE	5.05	73	500717	9.9639	ug/L	99
25) Hexane	5.40	57	556887	20.1025	ug/L	99
26) 11dichlorota	5.54	63	343969	10.0460	ug/L	99
27) Vinylacetate	5.63	43	3211265	93.2214	ug/L	99
28) chloroprene	5.67	53	623224	21.0292	ug/L	99
29) Diisopether	5.69	45	591513	9.8231	ug/L	98
30) ETBE	6.14	59	480852	9.8365	ug/L	99
31) 22dichloropr	6.27	77	214335	9.2438	ug/L	98
32) c12dichlorote	6.27	96	209322	9.4655	ug/L	98
33) 2Butanone	6.29	72	266097	89.6854	ug/L	100
34) propionitrile	6.33	54	359096	96.8885	ug/L	99
35) Ethylacetate	6.39	88	53148	50.9138	ug/L #	85
36) methacrylonitrile	6.53	67	205413	18.7947	ug/L	92
37) Bromochloroma	6.55	128	99218	9.9468	ug/L	95
38) Tetrahydrofur	6.64	42	690455	98.7224	ug/L	97

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

Quantitation Report

Data File : C:\Instarch\Data\MAR1121\ICV1.D
 Acq On : 11 Mar 2021 16:40
 Sample : INITIAL CALIB. VERIF.
 Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS
 MS Integration Params: VOC.P

Vial: 14
 Operator: RLD-DGS
 Inst : VMS3
 Multiplr: 1.00

Quant Time: Mar 12 08:07:02 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Chloroform	6.66	83	324399	9.4808	ug/L	99
40) 111trichlota	6.91	97	271048	10.2603	ug/L	99
42) Cyclohexane	7.00	56	306082	10.4588	ug/L	99
43) Carbtetracl	7.13	119	203562	9.6361	ug/L	99
44) 11dicloprope	7.11	110	101509	10.2216	ug/L	96
46) Benzene	7.36	78	771096	9.7415	ug/L	99
47) 12dichlorota	7.36	62	265383	9.8688	ug/L	98
48) TAME	7.53	73	467990	9.7317	ug/L	98
49) trichloroete	8.17	95	204193	9.9072	ug/L	99
50) methylcyclohexane	8.43	83	395989	10.5877	ug/L	100
51) 12dicloropra	8.43	63	209290	9.3952	ug/L	92
52) 23Dicl1propene	8.50	75	280363	9.3196	ug/L	98
53) Dibromometha	8.57	93	120078	9.3442	ug/L	97
54) methylmethacrylate	8.60	69	157588	9.5964	ug/L	97
55) 14dioxane	8.60	88	150289	460.9700	ug/L	98
56) Bromodiclma	8.78	83	238511	9.4665	ug/L	97
57) 2Nitropropane	9.04	43	513249	94.6270	ug/L	98
58) 2CLEVE	9.16	63	702043	50.4087	ug/L	98
59) c13dicloproe	9.35	75	288042	9.2044	ug/L	99
60) 4Meth2Pentan	9.55	43	1933373	96.8764	ug/L	100
62) Toluene	9.80	92	504033	9.7869	ug/L	99
63) t13Dicloprop	10.06	75	237970	9.6109	ug/L	99
64) ethylmethacrylate	10.20	69	545086	20.1618	ug/L	98
65) 112Triclotha	10.29	83	152111	9.5634	ug/L	99
66) Tetrachlorte	10.53	166	228754	10.1866	ug/L	99
67) 13Diclorpropa	10.51	76	313682	9.5211	ug/L	100
69) 2Hexanone	10.64	43	1491962	102.1042	ug/L	99
70) Clorodibrmta	10.82	129	177268	9.5815	ug/L	98
71) 12Dibrometha	10.97	107	184152	9.8111	ug/L	100
72) Chlorobenzen	11.66	112	540080	9.5178	ug/L	99
73) 1Clhexane	11.65	91	256719	9.8019	ug/L	98
74) 1112Tetclota	11.77	131	164792	9.5097	ug/L	98
75) Ethylbenzene	11.82	91	906185	10.1957	ug/L	99
76) m p-Xylene	11.99	106	710197	19.9716	ug/L	96
77) o-Xylene	12.53	106	349496	10.0936	ug/L	99
78) Styrene	12.55	104	573931	10.1785	ug/L	99
79) Bromoform	12.78	173	124703	9.4134	ug/L	92
80) Isopropylben	13.06	105	881581	10.4632	ug/L	98
81) cyclohexanone	13.15	55	200332	195.3502	ug/L	95
84) Bromobenzene	13.47	156	229125	9.3857	ug/L	100
85) 1122Tetrclta	13.44	83	252120	9.2449	ug/L	97
86) 123Triclproa	13.50	75	303598	9.3382	ug/L	99
87) 14dichloro2butene	13.53	53	69252	8.6170	ug/L	97
88) n-Propylbenz	13.64	91	1035034	9.8654	ug/L	98
89) 2chlorotolue	13.76	91	614863	9.9300	ug/L	100
90) 4chlorotolue	13.91	91	698251	9.9020	ug/L	99
91) 135Trimebenz	13.90	105	726238	10.0628	ug/L	99
92) tbutylbenzen	14.37	119	661739	10.4014	ug/L	98
93) 124Trimetben	14.44	105	721135	10.3453	ug/L	100
94) sbutylbenzen	14.69	105	940919	10.0771	ug/L	98
95) 13Diclorbenz	14.83	146	405921	9.3971	ug/L	99
96) pIsopropylto	14.91	119	788987	10.3241	ug/L	99
97) 14dichlorobe	14.96	146	421571	9.5946	ug/L	98
98) 12dichlorobe	15.49	146	390287	9.6202	ug/L	98
99) nButylbenzen	15.50	91	682939	9.8961	ug/L	99
100) 12dibromo3cl	16.59	157	43896	8.7220	ug/L	89
101) 135Trichlorobenzene	16.91	180	253305	9.1069	ug/L	98

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

Quantitation Report

Data File : C:\Instarch\Data\MAR1121\ICV1.D Vial: 14
 Acq On : 11 Mar 2021 16:40 Operator: RLD-DGS
 Sample : INITIAL CALIB. VERIF. Inst : VMS3
 Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
 MS Integration Params: VOC.P

Quant Time: Mar 12 08:07:02 2021 Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
 Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

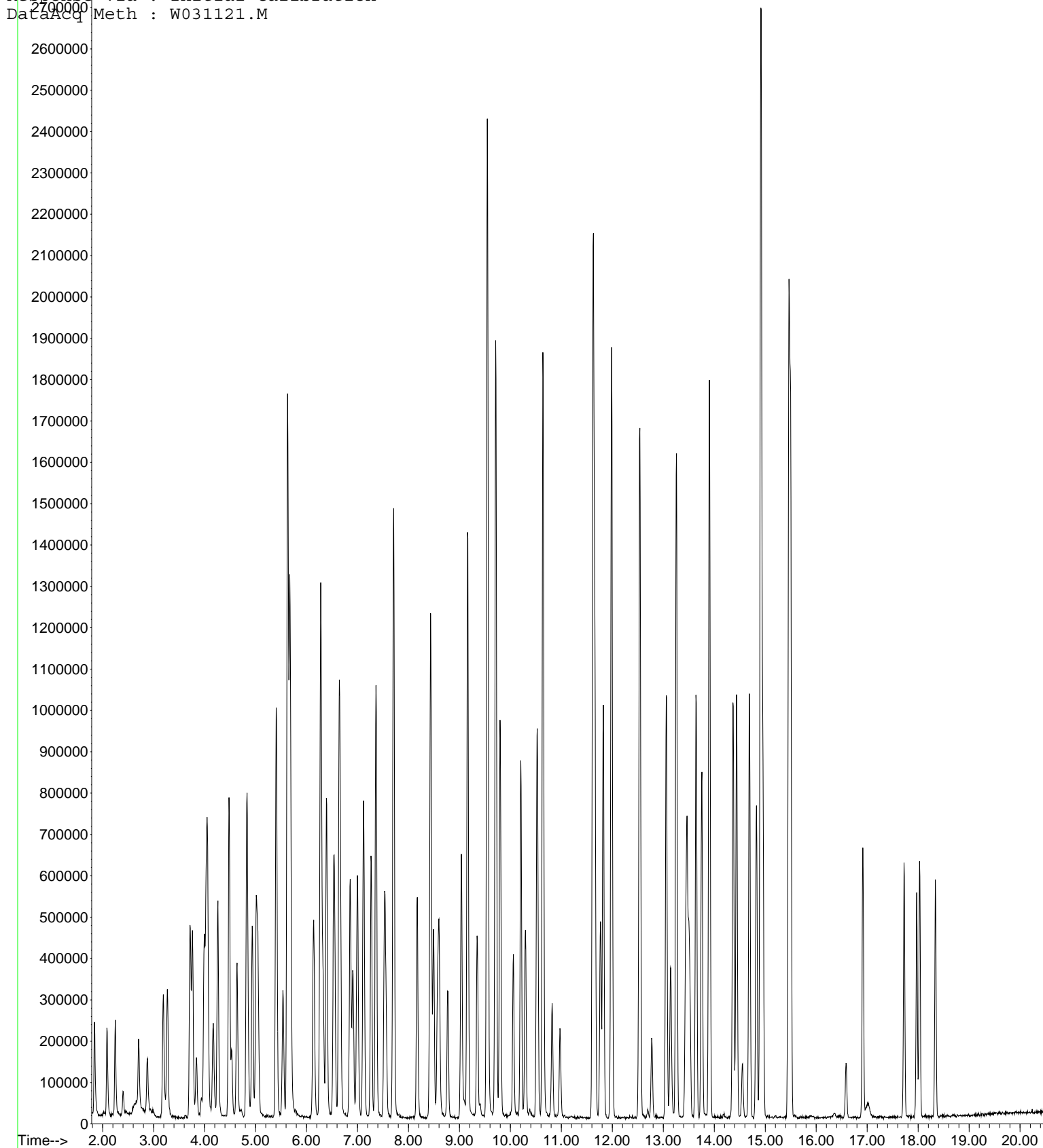
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.73	180	225873	9.4775	ug/L	98
103) Hexachlorobu	17.97	225	119102	9.3501	ug/L	99
104) Naphthalene	18.03	128	555134	9.8370	ug/L	99
105) 123Trichlben	18.34	180	202985	9.1564	ug/L	98

Quantitation Report
Date File : C:\Instarch\Data\MAR1121\ICV1.D
Acq On : 11 Mar 2021 16:40
Sample : INITIAL CALIB. VERIF.
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS
MS Integration Params: VOC.P

TIC: ICV1.D
Vial: 14
Operator: RLD-DGS
Inst : VMS3
Multiplr: 1.00

Quant Time: Mar 12 08:07:02 2021 Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 12 07:06:57 2021
Response via : Initial Calibration
Data Acq Meth : W031121.M



Data File : C:\Instarch\Data\MAR1121\ICV2.D Vial: 15
 Acq On : 11 Mar 2021 17:10 Operator: RLD-DGS
 Sample : INITIAL CALIB. VERIF. Inst : VMS3
 Misc : 30.0/300 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
 Integrator: RTE

Quant Time: Mar 12 08:09:07 2021

Quant Method : C:\INSTARCH\METHODS\W031121.M
 Quant Title : 8260C Waters Method
 Response via : Initial Calibration
 DataAcq Meth:W031121.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	FLUOROBENZENE**ISTD**	20.0000	20.0000	0.00	110	0.00
2 PT	Dichlorodi	30.0000	37.1459	-23.82#	132	0.00
3 PT	Chloromethan	30.0000	31.1607	-3.87	118	0.00
4 PT	VinylChlorid	30.0000	31.2707	-4.24	113	0.00
5 PT	Bromomethane	30.0000	29.9128	0.29	111	0.00
6 PT	Chloroethane	30.0000	29.7158	0.95	110	0.00
7 T	Dichloroflmethane	30.0000	28.3934	5.36	107	0.00
8 PT	Trichlorofma	30.0000	31.2434	-4.14	110	0.00
9 T	Ethylether	30.0000	30.3312	-1.10	110	0.00
10 T	dichlorotfluoroethan	30.0000	30.6951	-2.32	107	0.00
11 T	propyleneoxide	300.0000	299.5039	0.17	104	0.00
12 T	Acrolein	150.0000	132.0709	11.95	99	0.00
13 PT	1ldichlorothe	30.0000	30.8836	-2.95	109	0.00
14 PT	Trichlorotfluoroeth	60.0000	62.0891	-3.48	105	0.00
15 PT	Acetone	300.0000	314.9877	-5.00	113	0.00
16 T	Iodomethane	60.0000	62.3136	-3.86	107	0.00
17 PT	Carbon Dislf	60.0000	56.4956	5.84	108	0.00
18 T	allylchloride	60.0000	58.5800	2.37	109	0.00
19 PT	methylacetate	30.0000	32.8688	-9.56	117	0.00
20 PT	Methylchlorid	30.0000	28.3549	5.48	110	0.00
21 T	tbutylalcohol	1500.0000	1489.7114	0.69	109	0.00
22 T	Acrylonitrile	150.0000	148.9850	0.68	110	0.00
23 PT	t12dichlorthe	30.0000	30.2111	-0.70	109	0.00
24 PT	MtBE	30.0000	30.3079	-1.03	110	0.00
25 T	Hexane	60.0000	59.9589	0.07	105	0.00
26 PT	1ldichlorota	30.0000	29.8724	0.43	110	0.00
27 T	Vinylacetate	300.0000	210.8414	29.72#	91	0.00
28 T	chloroprene	60.0000	60.1674	-0.28	107	0.00
29 T	Diisopether	30.0000	29.5126	1.62	108	0.00
30 T	ETBE	30.0000	29.8108	0.63	110	0.00
31 T	22dichloropr	30.0000	29.8766	0.41	105	0.00
32 PT	cl2dichlorthe	30.0000	29.3434	2.19	108	0.00
33 PT	2Butanone	300.0000	294.9521	1.68	109	0.00
34 T	propionitrile	300.0000	298.2079	0.60	110	0.00
35 T	Ethylacetate	150.0000	152.0061	-1.34	108	0.00
36 T	methacrylonitrile	60.0000	59.6769	0.54	107	0.00
37 T	Bromochloroma	30.0000	29.6575	1.14	111	0.00
38 T	Tetrahydrofur	300.0000	294.0008	2.00	111	0.00
39 PT	Chloroform	30.0000	29.5180	1.61	110	0.00
40 PT	111trichlota	30.0000	31.9544	-6.51	110	0.00
41 S	SURRDibrflma	20.0000	20.2807	-1.40	112	0.00
42 PT	Cyclohexane	30.0000	32.1507	-7.17	109	0.00
43 PT	Carbtetracl	30.0000	31.5505	-5.17	107	0.00
44 T	1ldicloprope	30.0000	31.7015	-5.67	111	0.00
45 S	SURR12DCAd4	20.0000	19.9022	0.49	108	0.00
46 PT	Benzene	30.0000	27.4154	8.62	108	0.00
47 PT	12dichlorota	30.0000	30.1015	-0.34	111	0.00
48 T	TAME	30.0000	30.4986	-1.66	110	0.00

49	PT	trichloroete	30.0000	30.9498	-3.17	113	0.00
50	PT	methylcyclohexane	30.0000	31.4754	-4.92	107	0.00
51	PT	12dicloropra	30.0000	29.6631	1.12	108	0.00
52	T	23Dicl1propene	30.0000	29.3756	2.08	104	0.00
53	T	Dibromometha	30.0000	29.6682	1.11	110	0.00
54	T	methylmethacrylate	30.0000	31.6322	-5.44	110	0.00
55	T	14dioxane	1500.0000	1475.2789	1.65	107	0.00
56	PT	Bromodiclrma	30.0000	30.2725	-0.91	110	0.00
57	T	2Nitropropane	300.0000	309.7970	-3.27	106	0.00
58	T	2CLEVE	150.0000	147.7859	1.48	110	0.00
59	PT	cl3dicloproe	30.0000	29.7395	0.87	108	0.00
60	PT	4Meth2Pentan	300.0000	289.9327	3.36	107	0.00
61	S	SURRd8Tolule	20.0000	20.4833	-2.42	114	0.00
62	PT	Toluene	30.0000	28.1997	6.00	108	0.00
63	PT	t13Dicloprop	30.0000	31.8826	-6.28	109	0.00
64	T	ethylmethacrylate	60.0000	61.0837	-1.81	108	0.00
65	PT	112Triclotha	30.0000	30.5793	-1.93	110	0.00
66	PT	Tetrachlorte	30.0000	30.8125	-2.71	109	0.00
67	T	13Dicloropropa	30.0000	29.4316	1.89	110	0.00
68	I	d5-CHLOROENZENE**ISTD**	20.0000	20.0000	0.00	110	0.00
69	PT	2Hexanone	300.0000	257.5987	14.13	109	0.00
70	PT	Clorodibrmta	30.0000	31.3164	-4.39	109	0.00
71	PT	12Dibromometha	30.0000	30.2829	-0.94	111	0.00
72	PT	Chlorobenzen	30.0000	29.4077	1.97	108	0.00
73	T	1Clhexane	30.0000	29.5777	1.41	107	0.00
74	T	1112Tetclota	30.0000	30.1228	-0.41	105	0.00
75	PT	Ethylbenzene	30.0000	27.3657	8.78	108	0.00
76	PT	m p-Xylene	60.0000	55.7494	7.08	108	0.00
77	PT	o-Xylene	30.0000	30.0747	-0.25	109	0.00
78	PT	Styrene	30.0000	29.7166	0.94	108	0.00
79	PT	Bromoform	30.0000	30.3669	-1.22	106	0.00
80	PT	Isopropylben	30.0000	27.9655	6.78	107	0.00
81	T	cyclohexanone	600.0000	647.0340	-7.84	113	0.00
82	I	d4-1,4-DICHLOROENZENE**IS	20.0000	20.0000	0.00	111	0.00
83	S	SURR4BrFBenz	20.0000	19.5177	2.41	108	0.00
84	T	Bromobenzene	30.0000	28.6825	4.39	108	0.00
85	PT	1122Tetrclta	30.0000	27.2106	9.30	102	0.00
86	T	123Triclproa	30.0000	29.8483	0.51	109	0.00
87	T	14dichloro2butene	30.0000	29.9360	0.21	105	0.00
88	T	n-Propylbenz	30.0000	25.1195	16.27	105	0.00
89	T	2chlorotolue	30.0000	27.6309	7.90	107	0.00
90	T	4chlorotolue	30.0000	27.4992	8.34	106	0.00
91	T	135Trimebenz	30.0000	27.5443	8.19	106	0.00
92	T	tbutylbenzen	30.0000	27.7050	7.65	105	0.00
93	T	124Trimetben	30.0000	28.0874	6.38	105	0.00
94	T	sbutylbenzen	30.0000	25.7884	14.04	105	0.00
95	PT	13Diclorbenz	30.0000	27.5991	8.00	105	0.00
96	T	pIsopropylto	30.0000	27.4989	8.34	105	0.00
97	PT	14dichlorobe	30.0000	27.7999	7.33	106	0.00
98	PT	12dichlorobe	30.0000	27.5593	8.14	105	0.00
99	T	nButylbenzen	30.0000	27.4299	8.57	104	0.00
100	PT	12dibromo3cl	30.0000	30.6978	-2.33	106	0.00
101	T	135Trichlorobenzene	30.0000	28.5477	4.84	104	0.00
102	PT	124Trichlobe	30.0000	29.1867	2.71	107	0.00
103	T	Hexachlorobu	30.0000	28.1317	6.23	99	0.00
104	T	Naphthalene	30.0000	29.3096	2.30	106	0.00
105	T	123Trichlben	30.0000	28.6171	4.61	105	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report

Data File : C:\Instarch\Data\MAR1121\ICV2.D

Vial: 15

Acq On : 11 Mar 2021 17:10

Operator: RLD-DGS

Sample : INITIAL CALIB. VERIF.

Inst : VMS3

Misc : 30.0/300 ug/L, 5.0 mL Purged + IS/SS

Multiplr: 1.00

MS Integration Params: VOC.P

Quant Time: Mar 12 08:09:07 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method

Last Update : Fri Mar 12 07:06:57 2021

Response via : Initial Calibration

DataAcq Meth : W031121.M

IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
						Rcv (Ar)
1) FLUOROBENZENE**ISTD**	7.71	96	1524770	20.00	ug/L	0.00
68) d5-CHLOROENZENE**ISTD**	11.62	117	1323655	20.00	ug/L	0.00
82) d4-1,4-DICHLOROENZENE**IS	14.92	152	773807	20.00	ug/L	0.00

System Monitoring Compounds

41) SURRDibrflma	6.86	113	406272	20.281	ug/L	0.00
Spiked Amount	20.000	Range	90 - 110	Recovery	= 101	%
45) SURR12DCAd4	7.27	102	108087	19.902	ug/L	0.00
Spiked Amount	20.000	Range	89 - 111	Recovery	= 100	%
61) SURRd8Tolule	9.71	98	1569632	20.483	ug/L	0.00
Spiked Amount	20.000	Range	93 - 107	Recovery	= 102	%
83) SURR4BrFBenz	13.26	95	695233	19.518	ug/L	0.00
Spiked Amount	20.000	Range	83 - 111	Recovery	= 98	%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodi	1.84	85	704551	37.1459	ug/L	99
3) Chloromethan	2.08	50	722249	31.1607	ug/L	99
4) VinylChlorid	2.25	62	708231	31.2707	ug/L	100
5) Bromomethane	2.70	94	394560	29.9128	ug/L	99
6) Chloroethane	2.87	64	461896	29.7158	ug/L	99
7) Dichloroflmethane	3.19	67	1122555	28.3934	ug/L	97
8) Trichlorofma	3.27	101	910001	31.2434	ug/L	98
9) Ethylether	3.71	59	521280	30.3312	ug/L	97
10) dichlorotfluoroethan	3.73	67	621260	30.6951	ug/L	98
11) propyleneoxide	3.76	58	1180970	299.5039	ug/L	92
12) Acrolein	3.84	56	448305	132.0709	ug/L	99
13) 11dichlorothe	3.99	96	565672	30.8836	ug/L	99
14) Trichlorotfluoroeth	4.03	101	972015	62.0891	ug/L	98
15) Acetone	4.06	43	2104985	314.9877	ug/L	96
16) Iodomethane	4.17	142	1194679	62.3136	ug/L	97
17) Carbon Dislf	4.26	76	2494217	56.4956	ug/L	96
18) allylchloride	4.48	41	1770915	58.5800	ug/L	97
19) methylacetate	4.53	74	177573	32.8688	ug/L	99
20) Methylchlorid	4.64	84	640859	28.3549	ug/L	96
21) tbutylalcohol	4.83	59	3225585	1489.7114	ug/L	96
22) Acrylonitrile	4.94	53	1322280	148.9850	ug/L	98
23) t12dichlorote	5.01	96	620117	30.2111	ug/L	97
24) MtBE	5.05	73	1581351	30.3079	ug/L	96
25) Hexane	5.41	57	1724571	59.9589	ug/L	97
26) 11dichlorota	5.54	63	1061958	29.8724	ug/L	97
27) Vinylacetate	5.63	43	6357769	210.8414	ug/L	94
28) chloroprene	5.67	53	1851369	60.1674	ug/L	97
29) Diisopether	5.68	45	1845162	29.5126	ug/L	92
30) ETBE	6.13	59	1513062	29.8108	ug/L	98
31) 22dichloropr	6.27	77	719257	29.8766	ug/L	97
32) c12dichlorote	6.27	96	673736	29.3434	ug/L	98
33) 2Butanone	6.29	72	908615	294.9521	ug/L	100
34) propionitrile	6.33	54	1147540	298.2079	ug/L	98
35) Ethylacetate	6.39	88	164749	152.0061	ug/L	97
36) methacrylonitrile	6.54	67	677189	59.6769	ug/L	93
37) Bromochloroma	6.56	128	307150	29.6575	ug/L	98
38) Tetrahydrofur	6.64	42	2134905	294.0008	ug/L	97

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

QuantitationReport

Data File : C:\Instarch\Data\MAR1121\ICV2.D

Vial: 15

Acq On : 11 Mar 2021 17:10

Operator: RLD-DGS

Sample : INITIAL CALIB. VERIF.

Inst : VMS3

Misc : 30.0/300 ug/L, 5.0 mL Purged + IS/SS

Multiplr: 1.00

MS Integration Params: VOC.P

Quant Time: Mar 12 08:09:07 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method

Last Update : Fri Mar 12 07:06:57 2021

Response via : Initial Calibration

DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Chloroform	6.66	83	1048657	29.5180	ug/L	99
40) 111trichlota	6.91	97	876449	31.9544	ug/L	99
42) Cyclohexane	7.00	56	976913	32.1507	ug/L	98
43) Carbtetracl	7.13	119	692007	31.5505	ug/L	96
44) 11dicloroprope	7.12	110	326871	31.7015	ug/L	92
46) Benzene	7.36	78	2253138	27.4154	ug/L	95
47) 12dichlorota	7.36	62	840439	30.1015	ug/L	99
48) TAME	7.53	73	1522780	30.4986	ug/L	98
49) trichloroete	8.17	95	662305	30.9498	ug/L	98
50) methylcyclohexane	8.43	83	1222260	31.4754	ug/L	97
51) 12dicloropra	8.43	63	686069	29.6631	ug/L	92
52) 23Dicl1propene	8.50	75	917528	29.3756	ug/L	99
53) Dibromometha	8.57	93	395843	29.6682	ug/L	99
54) methylmethacrylate	8.59	69	539328	31.6322	ug/L	98
55) 14dioxane	8.61	88	499389	1475.2789	ug/L	97
56) Bromodiclrma	8.78	83	791918	30.2725	ug/L	96
57) 2Nitropropane	9.04	43	1744619	309.7970	ug/L	99
58) 2CLEVE	9.16	63	2136985	147.7859	ug/L	97
59) c13diclorproe	9.35	75	966277	29.7395	ug/L	97
60) 4Meth2Pentan	9.55	43	4900309	289.9327	ug/L	88
62) Toluene	9.80	92	1507881	28.1997	ug/L	93
63) t13Dicloroprop	10.06	75	819641	31.8826	ug/L	98
64) ethylmethacrylate	10.20	69	1714635	61.0837	ug/L	96
65) 112Triclotha	10.30	83	504992	30.5793	ug/L	98
66) Tetrachlorte	10.53	166	718416	30.8125	ug/L	99
67) 13Diclorpropa	10.52	76	1006760	29.4316	ug/L	99
69) 2Hexanone	10.64	43	3993538	257.5987	ug/L	92
70) Clorodibrmta	10.82	129	614707	31.3164	ug/L	98
71) 12Dibrometha	10.98	107	603053	30.2829	ug/L	98
72) Chlorobenzen	11.66	112	1614875	29.4077	ug/L	98
73) 1Clhexane	11.64	91	821889	29.5777	ug/L	97
74) 1112Tetclota	11.77	131	553816	30.1228	ug/L	98
75) Ethylbenzene	11.82	91	2580507	27.3657	ug/L	95
76) m p-Xylene	11.99	106	2103318	55.7494	ug/L	91
77) o-Xylene	12.53	106	1104835	30.0747	ug/L	94
78) Styrene	12.55	104	1777777	29.7166	ug/L	94
79) Bromoform	12.77	173	426808	30.3669	ug/L	98
80) Isopropylben	13.06	105	2499888	27.9655	ug/L	93
81) cyclohexanone	13.14	55	703985	647.0340	ug/L	96
84) Bromobenzene	13.47	156	752010	28.6825	ug/L	99
85) 1122Tetrclta	13.44	83	796979	27.2106	ug/L	97
86) 123Tric1proa	13.50	75	1042214	29.8483	ug/L	99
87) 14dichloro2butene	13.52	53	258387	29.9360	ug/L	92
88) n-Propylbenz	13.64	91	2830445	25.1195	ug/L	93
89) 2chlorotolue	13.76	91	1837495	27.6309	ug/L	96
90) 4chlorotolue	13.91	91	2082620	27.4992	ug/L	95
91) 135Trimebenz	13.90	105	2134994	27.5443	ug/L	96
92) tbutylbenzen	14.37	119	1893013	27.7050	ug/L	97
93) 124Trimetben	14.44	105	2102747	28.0874	ug/L	95
94) sbutylbenzen	14.69	105	2586087	25.7884	ug/L	95
95) 13Diclorbenz	14.83	146	1280395	27.5991	ug/L	97
96) pIsopropylto	14.90	119	2257021	27.4989	ug/L	94
97) 14dichlorobe	14.96	146	1311862	27.7999	ug/L	97
98) 12dichlorobe	15.49	146	1200795	27.5593	ug/L	100
99) nButylbenzen	15.50	91	2033037	27.4299	ug/L	95
100) 12dibromo3cl	16.59	157	165928	30.6978	ug/L	87
101) 135Trichlorobenzene	16.92	180	852804	28.5477	ug/L	97

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

Quantitation Report

Data File : C:\Instarch\Data\MAR1121\ICV2.D Vial: 15
 Acq On : 11 Mar 2021 17:10 Operator: RLD-DGS
 Sample : INITIAL CALIB. VERIF. Inst : VMS3
 Misc : 30.0/300 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
 MS Integration Params: VOC.P

Quant Time: Mar 12 08:09:07 2021 Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
 Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

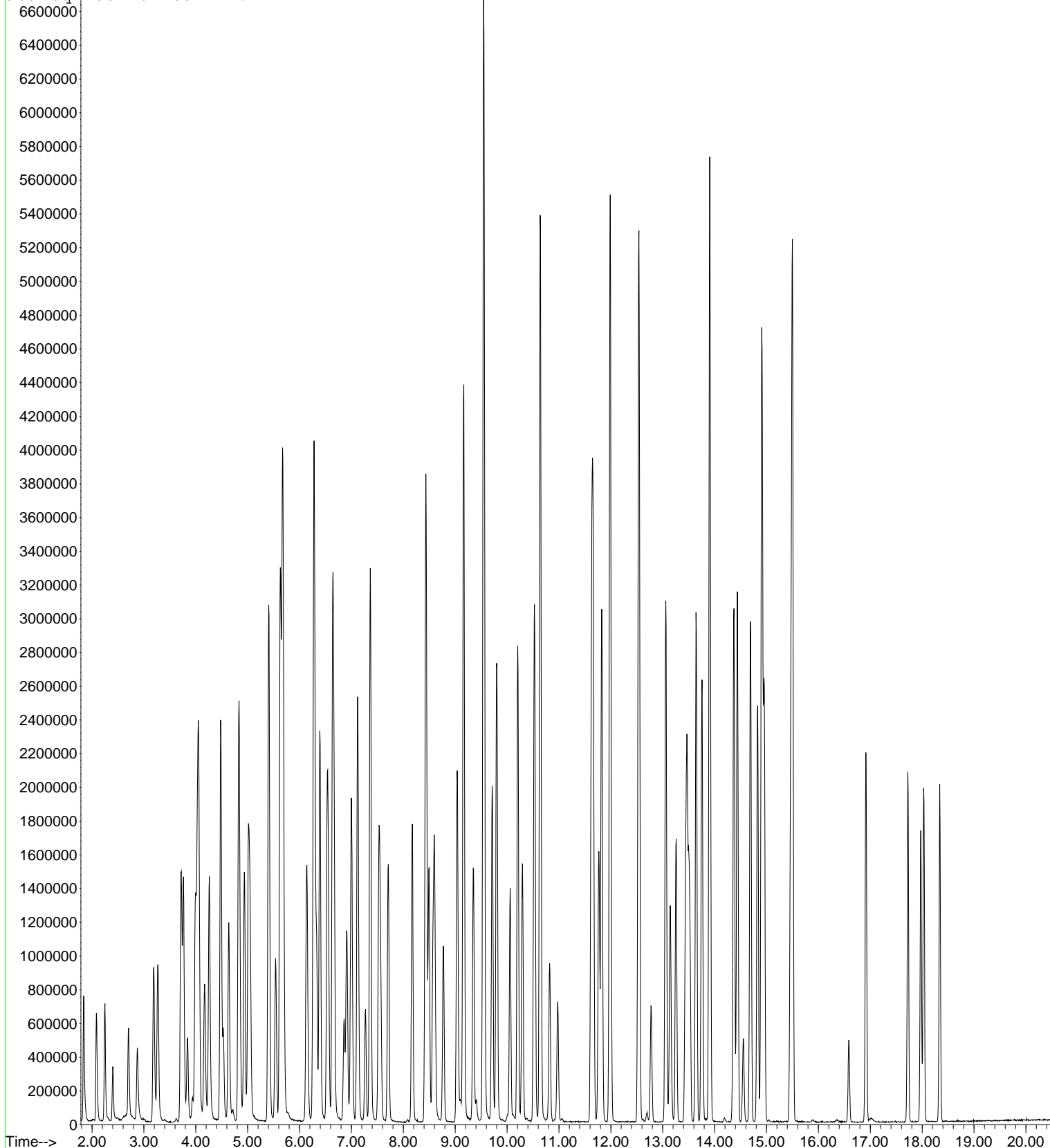
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.72	180	747064	29.1867	ug/L	99
103) Hexachlorobu	17.97	225	384858	28.1317	ug/L	98
104) Naphthalene	18.03	128	1776423	29.3096	ug/L	95
105) 123Trichlben	18.34	180	681349	28.6171	ug/L	98

Abundance
Date: 20210311
Acq On : 11 Mar 2021 17:10
Sample : INITIAL CALIB. VERIF.
Misc : 30.0/300 ug/L, 5.0 mL Purged + IS/SS
MS Integration Params: VOC.P

TIC: ICV2.D
Vial: 15
Operator: RLD-DGS
Inst : VMS3
Multiplr: 1.00

Quant Time: Mar 12 08:09:07 2021 Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 12 07:06:57 2021
Results via : Initial Calibration
DataAcq Meth : W031121.M



Quantitation Report

Data File : C:\Instarch\Data\MAR1121\ICB1.D
 Acq On : 11 Mar 2021 18:08
 Sample : INITIAL CALIB. BLANK
 Misc : 5.0 mL DI H2O Purged + IS/SS
 MS Integration Params: VOC.P

Vial: 17
 Operator: RLD-DGS
 Inst : VMS3
 Multiplr: 1.00

Quant Time: Mar 12 08:09:39 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
						Rcv (Ar)
1) FLUOROBENZENE**ISTD**	7.71	96	1429231	20.00	ug/L	0.00 NA%
68) d5-CHLORO BENZENE**ISTD**	11.62	117	1231459	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLORO BENZENE**IS	14.92	152	710211	20.00	ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.85	113	379439	20.207	ug/L	0.00
Spiked Amount	20.000	Range	90 - 110	Recovery	= 101	%
45) SURR12DCAd4	7.27	102	103894	20.409	ug/L	0.00
Spiked Amount	20.000	Range	89 - 111	Recovery	= 102	%
61) SURRD8Tolule	9.71	98	1407851	19.600	ug/L	0.00
Spiked Amount	20.000	Range	93 - 107	Recovery	= 98	%
83) SURR4BrFBenz	13.26	95	646685	19.780	ug/L	0.00
Spiked Amount	20.000	Range	83 - 111	Recovery	= 99	%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	0.00	50	0	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorothe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.06	43	33793	N.D.		
16) Iodomethane	4.17	142	8367	N.D.		
17) Carbon Dislf	4.26	76	5032	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	0.00	84	0	N.D.		
21) tbutylalcohol	4.83	59	11948	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorthe	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.41	57	6762	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	5.69	45	3956	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorthe	0.00	96	0	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydrofur	6.65	42	3293	N.D.		

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

Quantitation Report

Data File : C:\Instarch\Data\MAR1121\ICB1.D
 Acq On : 11 Mar 2021 18:08
 Sample : INITIAL CALIB. BLANK
 Misc : 5.0 mL DI H2O Purged + IS/SS
 MS Integration Params: VOC.P

Vial: 17
 Operator: RLD-DGS
 Inst : VMS3
 Multiplr: 1.00

Quant Time: Mar 12 08:09:39 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Chloroform	0.00	83	0	N.D.		
40) 111trichlota	0.00	97	0	N.D.		
42) Cyclohexane	0.00	56	0	N.D.		
43) Carbtetracl	0.00	119	0	N.D.		
44) 11dicloprope	0.00	110	0	N.D.		
46) Benzene	7.36	78	3589	N.D.		
47) 12dichlorota	0.00	62	0	N.D.		
48) TAME	0.00	73	0	N.D.		
49) trichloroete	0.00	95	0	N.D.		
50) methylcyclohexane	8.44	83	7436	N.D.		
51) 12dicloropra	0.00	63	0	N.D.		
52) 23Dicl1propene	0.00	75	0	N.D.		
53) Dibromometha	0.00	93	0	N.D.		
54) methylmethacrylate	0.00	69	0	N.D.		
55) 14dioxane	8.62	88	3518	N.D.		
56) Bromodiclma	0.00	83	0	N.D.		
57) 2Nitropropane	9.04	43	9294	1.7607	ug/L	92
58) 2CLEVE	0.00	63	0	N.D.		
59) c13dicloproe	0.00	75	0	N.D.		
60) 4Meth2Pentan	9.55	43	12828	Below	Cal	88
62) Toluene	9.80	92	5337	N.D.		
63) t13Dicloprop	0.00	75	0	N.D.		
64) ethylmethacrylate	0.00	69	0	N.D.		
65) 112Triclotha	0.00	83	0	N.D.		
66) Tetrachlorte	0.00	166	0	N.D.		
67) 13Diclorpropa	0.00	76	0	N.D.		
69) 2Hexanone	10.64	43	16785	N.D.		
70) Clorodibrmta	0.00	129	0	N.D.		
71) 12Dibrometha	0.00	107	0	N.D.		
72) Chlorobenzen	11.66	112	19308	Below	Cal #	50
73) 1Clhexane	11.63	91	8298	0.3210	ug/L #	1
74) 1112Tetclota	0.00	131	0	N.D.		
75) Ethylbenzene	11.82	91	13488	N.D.		
76) m p-Xylene	11.99	106	10657	N.D.		
77) o-Xylene	12.54	106	3527	N.D.		
78) Styrene	12.55	104	2934	N.D.		
79) Bromoform	0.00	173	0	N.D.		
80) Isopropylben	13.05	105	19494	N.D.		
81) cyclohexanone	13.15	55	5597	N.D.		
84) Bromobenzene	0.00	156	0	N.D.		
85) 1122Tetrclta	0.00	83	0	N.D.		
86) 123Triclproa	0.00	75	0	N.D.		
87) 14dichloro2butene	0.00	53	0	N.D.		
88) n-Propylbenz	13.65	91	25861	N.D.		
89) 2chlorotolue	13.75	91	6276	N.D.		
90) 4chlorotolue	13.91	91	7991	N.D.		
91) 135Trimebenz	13.89	105	12830	N.D.		
92) tbutylbenzen	14.37	119	17205	N.D.		
93) 124Trimetben	14.44	105	11276	N.D.		
94) sbutylbenzen	14.68	105	31737	N.D.		
95) 13Diclorbenz	14.83	146	2994	N.D.		
96) pIsopropylto	14.91	119	24592	0.3265	ug/L #	99
97) 14dichlorobe	14.96	146	4311	N.D.		
98) 12dichlorobe	15.49	146	3627	N.D.		
99) nButylbenzen	15.50	91	28181	0.4143	ug/L	90
100) 12dibromo3cl	0.00	157	0	N.D.		
101) 135Trichlorobenzene	16.92	180	3822	N.D.		

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

Quantitation Report

Data File : C:\Instarch\Data\MAR1121\ICB1.D
 Acq On : 11 Mar 2021 18:08
 Sample : INITIAL CALIB. BLANK
 Misc : 5.0 mL DI H2O Purged + IS/SS
 MS Integration Params: VOC.P

Vial: 17
 Operator: RLD-DGS
 Inst : VMS3
 Multiplr: 1.00

Quant Time: Mar 12 08:09:39 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
 Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

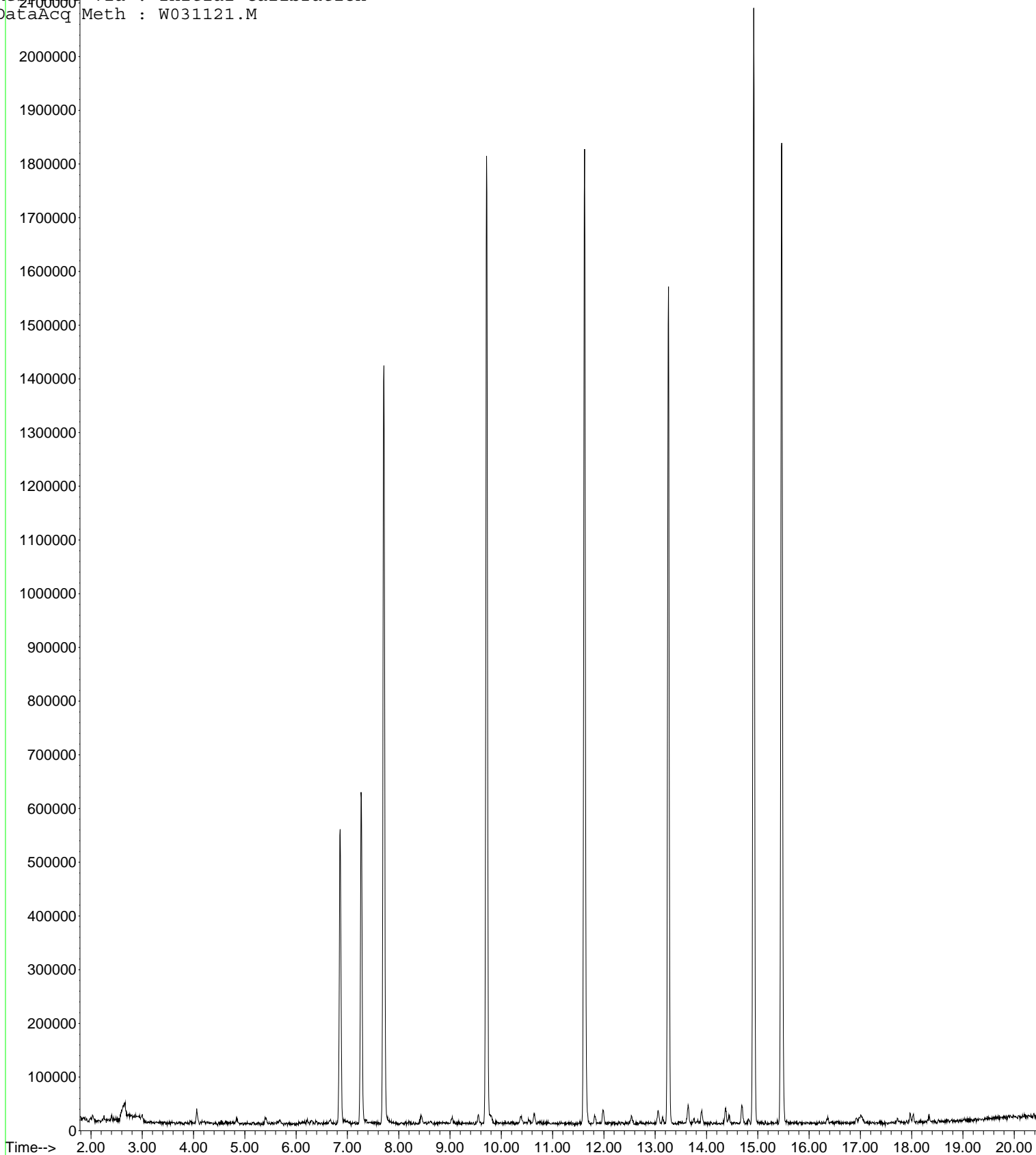
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.74	180	2977	N.D.		
103) Hexachlorobu	17.97	225	3923	N.D.		
104) Naphthalene	18.03	128	12866	N.D.		
105) 123Trichlben	18.34	180	5421	0.2481	ug/L #	71

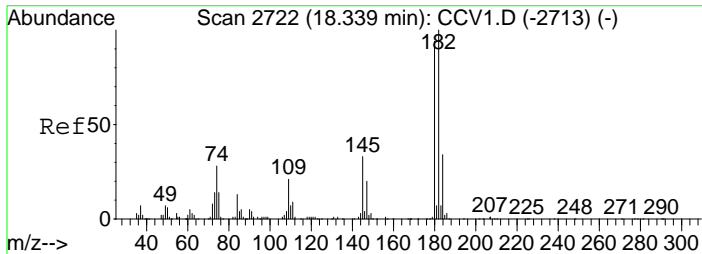
Abundance
Data File : C:\Instarch\Data\MAR1121\ICB1.D
Acq On : 11 Mar 2021 18:08
Sample : INITIAL CALIB. BLANK
Misc : 5.0 mL DI H2O Purged + IS/SS
MS Integration Params: VOC.P

TIC: ICB1.D
Vial: 17
Operator: RLD-DGS
Inst : VMS3
Multiplr: 1.00

Quant Time: Mar 12 08:09:39 2021 Results File: W031121.RES

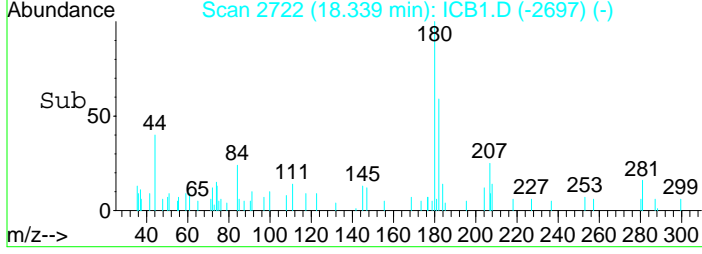
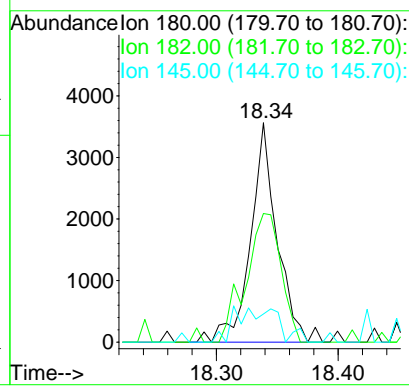
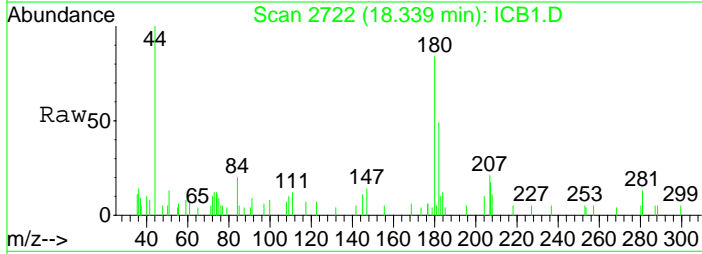
Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 12 07:06:57 2021
Response via : Initial Calibration
DataAcq Meth : W031121.M





#105
 123Trichlben
 Concen: 0.25 ug/L
 RT: 18.34 min Scan# 2722
 Delta R.T. 0.00 min
 Lab File: ICB1.D
 Acq: 11 Mar 2021 18:08

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	5421		
182	77.2		77.6	117.6#
145	0.0		10.4	50.4#



Negative Library
 Identification



**VOLATILE ORGANIC ANALYSIS
CONTINUING CALIBRATION
DOCUMENTS**

Data File : C:\Instarch\Data\MAR1521\BFB1.D
 Acq On : 15 Mar 2021 7:57
 Sample : 180026,BFB,
 Misc : 50 ng Inj.
 Integration File: VOC.P

Vial: 1
 Operator: DGS-RLD
 Inst : VMS3
 Multiplr: 1.00

Method : C:\INSTARCH\METHODS\W031121.M
 Title : 8260C Waters Method

Spectrum Information: Average of 4.663 to 4.669 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.0	19991	PASS
75	95	30	60	52.3	52293	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	6.6	6567	PASS
173	174	0.00	2	0.7	588	PASS
174	95	50	100	85.2	85221	PASS
175	174	5	9	8.8	7467	PASS
176	174	95	101	99.5	84764	PASS
177	176	5	9	6.3	5353	PASS

W031121.M Tue Mar 16 14:00:52 2021

Data File : C:\Instarch\Data\MAR1521\CCV-LCS1.D Vial: 3
 Acq On : 15 Mar 2021 8:42 Operator: DGS-RLD
 Sample : 180026,LCSW, Inst : VMS3
 Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
 Integrator: RTE

Quant Time: Mar 15 09:03:14 2021

Quant Method : C:\INSTARCH\METHODS\W031121.M
 Quant Title : 8260C Waters Method
 Response via : Initial Calibration
 DataAcq Meth:W031121.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	98	0.00
2 PT	Dichlorodi	0.2444	0.2401	1.76	87	0.00
3 PT	Chloromethan	0.3040	0.2922	3.88	90	0.00
4 PT	VinylChlorid	0.2971	0.3101	-4.38	93	0.00
5 PT	Bromomethane	0.1730	0.1801	-4.10	91	0.00
6 PT	Chloroethane	0.2039	0.2028	0.54	91	0.00
7 T	Dichloroflmethane	0.5186	0.5344	-3.05	96	0.00
8 PT	Trichlorofma	0.3820	0.4169	-9.14	94	0.00
9 T	Ethylether	0.2254	0.2127	5.63	90	0.00
10 T	dichlorotfluoroethan	0.2655	0.2815	-6.03	93	0.00
11 T	propyleneoxide	0.0517	0.0478	7.54	87	0.00
12 T	Acrolein	0.0445	0.0434	2.47	94	0.00
13 PT	1ldichlorothe	0.2402	0.2571	-7.04	97	0.00
14 PT	Trichlorotfluoroeth	0.2053	0.2349	-14.42	99	0.00
15 PT	Acetone	0.1035	0.0981#	5.22	101	0.00
16 T	Iodomethane	0.2515	0.2119	15.75	80	0.00
17 PT	Carbon Dislf	0.5791	0.6478	-11.86	99	0.00
18 T	allylchloride	0.3965	0.4059	-2.37	94	0.00
19 PT	methylacetate	0.0709	0.0684#	3.53	95	0.00
20 PT	Methylchlorid	0.2965	0.2851	3.84	92	0.00
21 T	tbutylalcohol	0.0284	0.0258#	9.15	86	0.00
22 T	Acrylonitrile	0.1164	0.1123	3.52	91	0.00
23 PT	t12dichlorote	0.2692	0.2788	-3.57	94	0.00
24 PT	MtBE	0.6844	0.6571	3.99	88	0.00
25 T	Hexane	0.3773	0.4339	-15.00	98	0.00
26 PT	1ldichlorota	0.4663	0.4673	-0.21	94	0.00
27 T	Vinylacetate	0.4698	0.4539	3.38	90	0.00
28 T	chloroprene	0.4036	0.4365	-8.15	94	0.00
29 T	Diisopether	0.8201	0.8048	1.87	91	0.00
30 T	ETBE	0.6657	0.6480	2.66	94	0.00
31 T	22dichloropr	0.3158	0.3404	-7.79	98	0.00
32 PT	cl2dichlorote	0.3012	0.3020	-0.27	96	0.00
33 PT	2Butanone	0.0404	0.0392#	2.97	97	0.00
34 T	propionitrile	0.0505	0.0490	2.97	93	0.00
35 T	Ethylacetate	0.0142	0.0132#	7.04	95	0.00
36 T	methacrylonitrile	0.1488	0.1417	4.77	90	0.00
37 T	Bromochloroma	0.1358	0.1339	1.40	96	0.00
38 T	Tetrahydrofur	0.0952	0.0919	3.47	92	0.00
39 PT	Chloroform	0.4660	0.4636	0.52	95	0.00
40 PT	111trichlota	0.3598	0.3887	-8.03	99	0.00
41 S	SURRDibrflma	0.2628	0.2662	-1.29	98	0.00
42 PT	Cyclohexane	0.3986	0.4427	-11.06	95	0.00
43 PT	Carbtetracl	0.2877	0.3099	-7.72	99	0.00
44 T	1ldicloprope	0.1352	0.1439	-6.43	100	0.00
45 S	SURR12DCAd4	0.0712	0.0721	-1.26	100	0.00
46 PT	Benzene	1.0780	1.0931	-1.40	93	0.00
47 PT	12dichlorota	0.3662	0.3628	0.93	94	0.00
48 T	TAME	0.6549	0.6334	3.28	93	0.00

49	PT	trichloroete	0.2807	0.2883	-2.71	95	0.00
50	PT	methylcyclohexane	0.5094	0.5740	-12.68	97	0.00
51	PT	12dicloropra	0.3034	0.2950	2.77	91	0.00
52	T	23Dicllpropene	0.4097	0.4202	-2.56	99	0.00
53	T	Dibromometha	0.1750	0.1697	3.03	93	0.00
54	T	methylmethacrylate	0.2236	0.1997	10.69	87	0.00
55	T	14dioxane	0.0044	0.0043#	2.27	97	0.00
56	PT	Bromodiclrma	0.3431	0.3491	-1.75	96	0.00
57	T	2Nitropropane	0.0739	0.0752	-1.76	99	0.00
58	T	2CLEVE	0.1897	0.1915	-0.95	92	0.00
59	PT	c13dicloproe	0.4262	0.4119	3.36	93	0.00
60	PT	4Meth2Pentan	0.2678	0.2574	3.88	91	0.00
61	S	SURRd8Tolule	1.0051	1.0101	-0.50	99	0.00
62	PT	Toluene	0.7014	0.7172	-2.25	95	0.00
63	PT	t13Dicloprop	0.3372	0.3409	-1.10	96	0.00
64	T	ethylmethacrylate	0.3682	0.3502	4.89	88	0.00
65	PT	112Triclotha	0.2166	0.2147	0.88	93	-0.01
66	PT	Tetrachlorte	0.3058	0.3087	-0.95	91	0.00
67	T	13Dicloropropa	0.4487	0.4364	2.74	93	0.00
68	I	d5-CHLOROENZENE**ISTD**	1.0000	1.0000	0.00	98	0.00
69	PT	2Hexanone	0.2342	0.2201	6.02	88	0.00
70	PT	Clorodibrmta	0.2966	0.2913	1.79	94	0.00
71	PT	12Dibromometha	0.3009	0.2846	5.42	91	0.00
72	PT	Chlorobenzen	0.9861	0.8775	11.01	93	0.00
73	T	1Clhexane	0.4199	0.4184	0.36	93	0.00
74	T	1112Tetclota	0.2778	0.2771	0.25	98	0.00
75	PT	Ethylbenzene	1.4248	1.4501	-1.78	93	0.00
76	PT	m p-Xylene	0.5701	0.5728	-0.47	90	0.00
77	PT	o-Xylene	0.5551	0.5382	3.04	89	0.00
78	PT	Styrene	0.9039	0.9163	-1.37	93	0.00
79	PT	Bromoform	0.2124	0.2028	4.52	103	0.00
80	PT	Isopropylben	1.3507	1.3977	-3.48	94	0.00
81	T	cyclohexanone	0.0164	0.0157#	4.27	97	0.00
82	I	d4-1,4-DICHLOROENZENE**IS	1.0000	1.0000	0.00	98	0.00
83	S	SURR4BrFBenz	0.9207	0.9321	-1.24	99	0.00
84	T	Bromobenzene	0.6776	0.6573	3.00	93	0.00
85	PT	1122Tetrclta	0.7570	0.7239	4.37	92	0.00
86	T	123Triclproa	0.9025	0.8723	3.35	94	0.00
87	T	14dichloro2butene	0.2231	0.2021	9.41	88	0.00
88	T	n-Propylbenz	2.9123	2.9010	0.39	95	0.00
89	T	2chlorotolue	1.7188	1.7409	-1.29	93	0.00
90	T	4chlorotolue	1.9574	1.9972	-2.03	94	0.00
91	T	135Trimebenz	2.0034	2.0693	-3.29	94	0.00
92	T	tbutylbenzen	1.7660	1.7925	-1.50	94	0.00
93	T	124Trimetben	1.9350	2.0916	-8.09	98	0.00
94	T	sbutylbenzen	2.5919	2.5940	-0.08	96	0.00
95	PT	13Diclorbenz	1.1991	1.1718	2.28	94	0.00
96	T	pIsopropylto	2.1214	2.2054	-3.96	94	0.00
97	PT	14dichlorobe	1.2197	1.2236	-0.32	96	0.00
98	PT	12dichlorobe	1.1262	1.1083	1.59	95	0.00
99	T	nButylbenzen	1.9157	1.9632	-2.48	94	0.00
100	PT	12dibromo3cl	0.1397	0.1330	4.80	106	0.00
101	T	135Trichlorobenzene	0.7721	0.7714	0.09	99	0.00
102	PT	124Trichlobe	0.6616	0.6531	1.28	99	0.00
103	T	Hexachlorobu	0.3536	0.3555	-0.54	96	0.00
104	T	Naphthalene	1.5665	1.5179	3.10	92	0.00
105	T	123Trichlben	0.6154	0.5923	3.75	95	0.00

(#) = Out of Range

SPCC's out = 3 CCC's out = 0

Data File : C:\Instarch\Data\MAR1521\CCV-LCS1.D Vial: 3
 Acq On : 15 Mar 2021 8:42 Operator: DGS-RLD
 Sample : 180026,LCSW, Inst : VMS3
 Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
 Integrator: RTE

Quant Time: Mar 15 09:03:14 2021

Quant Method : C:\INSTARCH\METHODS\W031121.M
 Quant Title : 8260C Waters Method
 Response via : Initial Calibration
 DataAcq Meth:W031121.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	FLUOROBENZENE**ISTD**	20.0000	20.0000	0.00	98	0.00
2 PT	Dichlorodi	10.0000	9.1891	8.11	87	0.00
3 PT	Chloromethan	10.0000	9.6121	3.88	90	0.00
4 PT	VinylChlorid	10.0000	10.4395	-4.40	93	0.00
5 PT	Bromomethane	10.0000	10.4081	-4.08	91	0.00
6 PT	Chloroethane	10.0000	9.9473	0.53	91	0.00
7 T	Dichloroflmethane	10.0000	10.3050	-3.05	96	0.00
8 PT	Trichlorofma	10.0000	10.9113	-9.11	94	0.00
9 T	Ethylether	10.0000	9.4360	5.64	90	0.00
10 T	dichlorotfluoroethan	10.0000	10.6023	-6.02	93	0.00
11 T	propyleneoxide	100.0000	92.4254	7.57	87	0.00
12 T	Acrolein	50.0000	48.7679	2.46	94	0.00
13 PT	1ldichlorothe	10.0000	10.7015	-7.01	97	0.00
14 PT	Trichlorotfluoroeth	20.0000	22.8747	-14.37	99	0.00
15 PT	Acetone	100.0000	101.6182	-1.62	101	0.00
16 T	Iodomethane	20.0000	16.8545	15.73	80	0.00
17 PT	Carbon Dislf	20.0000	22.3735	-11.87	99	0.00
18 T	allylchloride	20.0000	20.4729	-2.36	94	0.00
19 PT	methylacetate	10.0000	9.6553	3.45	95	0.00
20 PT	Methylchlorid	10.0000	9.6185	3.82	92	0.00
21 T	tbutylalcohol	500.0000	454.7188	9.06	86	0.00
22 T	Acrylonitrile	50.0000	48.2234	3.55	91	0.00
23 PT	t12dichlorote	10.0000	10.3539	-3.54	94	0.00
24 PT	MtBE	10.0000	9.6007	3.99	88	0.00
25 T	Hexane	20.0000	23.0043	-15.02	98	0.00
26 PT	1ldichlorota	10.0000	10.0222	-0.22	94	0.00
27 T	Vinylacetate	100.0000	97.3870	2.61	90	0.00
28 T	chloroprene	20.0000	21.6288	-8.14	94	0.00
29 T	Diisopether	10.0000	9.8134	1.87	91	0.00
30 T	ETBE	10.0000	9.7329	2.67	94	0.00
31 T	22dichloropr	10.0000	10.7812	-7.81	98	0.00
32 PT	cl2dichlorote	10.0000	10.0291	-0.29	96	0.00
33 PT	2Butanone	100.0000	96.9375	3.06	97	0.00
34 T	propionitrile	100.0000	96.9821	3.02	93	0.00
35 T	Ethylacetate	50.0000	46.2589	7.48	95	0.00
36 T	methacrylonitrile	20.0000	19.0457	4.77	90	0.00
37 T	Bromochloroma	10.0000	9.8567	1.43	96	0.00
38 T	Tetrahydrofur	100.0000	96.5369	3.46	92	0.00
39 PT	Chloroform	10.0000	9.9489	0.51	95	0.00
40 PT	111trichlota	10.0000	10.8042	-8.04	99	0.00
41 S	SURRDibrflma	20.0000	20.2638	-1.32	98	0.00
42 PT	Cyclohexane	10.0000	11.1072	-11.07	95	0.00
43 PT	Carbtetracl	10.0000	10.7706	-7.71	99	0.00
44 T	1ldicloprope	10.0000	10.6374	-6.37	100	0.00
45 S	SURR12DCAd4	20.0000	20.2362	-1.18	100	0.00
46 PT	Benzene	10.0000	10.1402	-1.40	93	0.00
47 PT	12dichlorota	10.0000	9.9079	0.92	94	0.00
48 T	TAME	10.0000	9.6711	3.29	93	0.00

49	PT	trichloroete	10.0000	10.2712	-2.71	95	0.00
50	PT	methylcyclohexane	10.0000	11.2696	-12.70	97	0.00
51	PT	12dicloropra	10.0000	9.7249	2.75	91	0.00
52	T	23Dicllpropene	10.0000	10.2556	-2.56	99	0.00
53	T	Dibromometha	10.0000	9.6993	3.01	93	0.00
54	T	methylmethacrylate	10.0000	8.9302	10.70	87	0.00
55	T	14dioxane	500.0000	479.8313	4.03	97	0.00
56	PT	Bromodiclrma	10.0000	10.1736	-1.74	96	0.00
57	T	2Nitropropane	100.0000	101.7922	-1.79	99	0.00
58	T	2CLEVE	50.0000	50.4882	-0.98	92	0.00
59	PT	cl3dicloproe	10.0000	9.6642	3.36	93	0.00
60	PT	4Meth2Pentan	100.0000	94.4782	5.52	91	0.00
61	S	SURRd8Tolule	20.0000	20.0988	-0.49	99	0.00
62	PT	Toluene	10.0000	10.2253	-2.25	95	0.00
63	PT	t13Dicloprop	10.0000	10.1091	-1.09	96	0.00
64	T	ethylmethacrylate	20.0000	19.0254	4.87	88	0.00
65	PT	112Triclotha	10.0000	9.9131	0.87	93	-0.01
66	PT	Tetrachlorte	10.0000	10.0949	-0.95	91	0.00
67	T	13Dicloropropa	10.0000	9.7268	2.73	93	0.00
68	I	d5-CHLOROENZENE**ISTD**	20.0000	20.0000	0.00	98	0.00
69	PT	2Hexanone	100.0000	93.9460	6.05	88	0.00
70	PT	Clorodibrmta	10.0000	9.8227	1.77	94	0.00
71	PT	12Dibromometha	10.0000	9.4593	5.41	91	0.00
72	PT	Chlorobenzen	10.0000	9.6572	3.43	93	0.00
73	T	1Clhexane	10.0000	9.9656	0.34	93	0.00
74	T	1112Tetclota	10.0000	9.9751	0.25	98	0.00
75	PT	Ethylbenzene	10.0000	10.1776	-1.78	93	0.00
76	PT	m p-Xylene	20.0000	20.0959	-0.48	90	0.00
77	PT	o-Xylene	10.0000	9.6955	3.05	89	0.00
78	PT	Styrene	10.0000	10.1373	-1.37	93	0.00
79	PT	Bromoform	10.0000	9.5509	4.49	103	0.00
80	PT	Isopropylben	10.0000	10.3478	-3.48	94	0.00
81	T	cyclohexanone	200.0000	191.5258	4.24	97	0.00
82	I	d4-1,4-DICHLOROENZENE**IS	20.0000	20.0000	0.00	98	0.00
83	S	SURR4BrFBenz	20.0000	20.2475	-1.24	99	0.00
84	T	Bromobenzene	10.0000	9.6990	3.01	93	0.00
85	PT	1122Tetrclta	10.0000	9.5625	4.38	92	0.00
86	T	123Triclproa	10.0000	9.6651	3.35	94	0.00
87	T	14dichloro2butene	10.0000	9.0601	9.40	88	0.00
88	T	n-Propylbenz	10.0000	9.9611	0.39	95	0.00
89	T	2chlorotolue	10.0000	10.1287	-1.29	93	0.00
90	T	4chlorotolue	10.0000	10.2032	-2.03	94	0.00
91	T	135Trimebenz	10.0000	10.3292	-3.29	94	0.00
92	T	tbutylbenzen	10.0000	10.1497	-1.50	94	0.00
93	T	124Trimetben	10.0000	10.8096	-8.10	98	0.00
94	T	sbutylbenzen	10.0000	10.0083	-0.08	96	0.00
95	PT	13Diclorbenz	10.0000	9.7729	2.27	94	0.00
96	T	pIsopropylto	10.0000	10.3960	-3.96	94	0.00
97	PT	14dichlorobe	10.0000	10.0325	-0.33	96	0.00
98	PT	12dichlorobe	10.0000	9.8415	1.59	95	0.00
99	T	nButylbenzen	10.0000	10.2481	-2.48	94	0.00
100	PT	12dibromo3cl	10.0000	9.5218	4.78	106	0.00
101	T	135Trichlorobenzene	10.0000	9.9904	0.10	99	0.00
102	PT	124Trichlobe	10.0000	9.8725	1.27	99	0.00
103	T	Hexachlorobu	10.0000	10.0532	-0.53	96	0.00
104	T	Naphthalene	10.0000	9.6898	3.10	92	0.00
105	T	123Trichlben	10.0000	9.6252	3.75	95	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report

Data File : C:\Instarch\Data\MAR1521\CCV-LCS1.D
 Acq On : 15 Mar 2021 8:42
 Sample : 180026,LCSW,
 Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS
 MS Integration Params: VOC.P

Vial: 3
 Operator: DGS-RLD
 Inst : VMS3
 Multiplr: 1.00

Quant Time: Mar 15 09:03:14 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
						Rcv (Ar)
1) FLUOROBENZENE**ISTD**	7.71	96	1284945	20.00	ug/L	0.00
68) d5-CHLORO BENZENE**ISTD**	11.62	117	1109099	20.00	ug/L	0.00
82) d4-1,4-DICHLORO BENZENE**IS	14.92	152	633846	20.00	ug/L	0.00

System Monitoring Compounds

41) SURRDibrflma	6.86	113	342086	20.264	ug/L	0.00
Spiked Amount	20.000	Range	90 - 110	Recovery	= 101	%
45) SURR12DCAd4	7.27	102	92615	20.236	ug/L	0.00
Spiked Amount	20.000	Range	89 - 111	Recovery	= 101	%
61) SURRD8Tolule	9.71	98	1297923	20.099	ug/L	0.00
Spiked Amount	20.000	Range	93 - 107	Recovery	= 100	%
83) SURR4BrFBenz	13.25	95	590777	20.247	ug/L	0.00
Spiked Amount	20.000	Range	83 - 111	Recovery	= 101	%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodi	1.84	85	154263	9.1891	ug/L	99
3) Chloromethan	2.08	50	187749	9.6121	ug/L	98
4) VinylChlorid	2.24	62	199249	10.4395	ug/L	97
5) Bromomethane	2.70	94	115693	10.4081	ug/L	99
6) Chloroethane	2.87	64	130300	9.9473	ug/L	99
7) Dichloroflmethane	3.19	67	343336	10.3050	ug/L	100
8) Trichlorofma	3.27	101	267818	10.9113	ug/L	96
9) Ethylether	3.71	59	136663	9.4360	ug/L	97
10) dichlorotfluoroethan	3.73	67	180835	10.6023	ug/L	96
11) propyleneoxide	3.76	58	307120	92.4254	ug/L	99
12) Acrolein	3.84	56	139502	48.7679	ug/L	97
13) 11dichlorothe	3.99	96	165182	10.7015	ug/L	99
14) Trichlorotfluoroeth	4.03	101	301782	22.8747	ug/L	98
15) Acetone	4.06	43	630369	101.6182	ug/L	99
16) Iodomethane	4.17	142	272310	16.8545	ug/L	98
17) Carbon Dislf	4.26	76	832405	22.3735	ug/L	98
18) allylchloride	4.48	41	521564	20.4729	ug/L	99
19) methylacetate	4.53	74	43958	9.6553	ug/L	98
20) Methylchlorid	4.64	84	183199	9.6185	ug/L	98
21) tbutylalcohol	4.83	59	829716	454.7188	ug/L	97
22) Acrylonitrile	4.94	53	360677	48.2234	ug/L	98
23) t12dichlorote	5.02	96	179099	10.3539	ug/L	98
24) MtBE	5.05	73	422138	9.6007	ug/L	98
25) Hexane	5.41	57	557591	23.0043	ug/L	99
26) 11dichlorota	5.54	63	300249	10.0222	ug/L	98
27) Vinylacetate	5.63	43	2916485	97.3870	ug/L	100
28) chloroprene	5.67	53	560847	21.6288	ug/L	98
29) Diisopether	5.68	45	517044	9.8134	ug/L	99
30) ETBE	6.14	59	416301	9.7329	ug/L	98
31) 22dichloropr	6.27	77	218725	10.7812	ug/L	99
32) c12dichlorote	6.27	96	194053	10.0291	ug/L	98
33) 2Butanone	6.29	72	251652	96.9375	ug/L	96
34) propionitrile	6.32	54	314500	96.9821	ug/L	99
35) Ethylacetate	6.40	88	42251	46.2589	ug/L	95
36) methacrylonitrile	6.53	67	182130	19.0457	ug/L	95
37) Bromochloroma	6.55	128	86026	9.8567	ug/L	94
38) Tetrahydrofur	6.64	42	590750	96.5369	ug/L	100

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

Quantitation Report

Data File : C:\Instarch\Data\MAR1521\CCV-LCS1.D
 Acq On : 15 Mar 2021 8:42
 Sample : 180026,LCSW,
 Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS
 MS Integration Params: VOC.P

Vial: 3
 Operator: DGS-RLD
 Inst : VMS3
 Multiplr: 1.00

Quant Time: Mar 15 09:03:14 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Chloroform	6.67	83	297854	9.9489	ug/L	99
40) 111trichlota	6.91	97	249730	10.8042	ug/L	98
42) Cyclohexane	7.00	56	284414	11.1072	ug/L	98
43) Carbtetracl	7.13	119	199079	10.7706	ug/L	97
44) 11dicloroprope	7.12	110	92430	10.6374	ug/L	95
46) Benzene	7.36	78	702295	10.1402	ug/L	99
47) 12dichlorota	7.36	62	233121	9.9079	ug/L	99
48) TAME	7.53	73	406924	9.6711	ug/L	98
49) trichloroete	8.17	95	185225	10.2712	ug/L	98
50) methylcyclohexane	8.43	83	368791	11.2696	ug/L	99
51) 12dicloropra	8.43	63	189547	9.7249	ug/L	93
52) 23Dicl1propene	8.50	75	269943	10.2556	ug/L	95
53) Dibromometha	8.57	93	109057	9.6993	ug/L	99
54) methylmethacrylate	8.59	69	128311	8.9302	ug/L	98
55) 14dioxane	8.60	88	136878	479.8313	ug/L	99
56) Bromodiclrma	8.77	83	224277	10.1736	ug/L	99
57) 2Nitropropane	9.04	43	483079	101.7922	ug/L	99
58) 2CLEVE	9.16	63	615232	50.4882	ug/L	99
59) c13diclorproe	9.35	75	264616	9.6642	ug/L	98
60) 4Meth2Pentan	9.55	43	1653903	94.4782	ug/L	100
62) Toluene	9.80	92	460763	10.2253	ug/L	99
63) t13Dicloroprop	10.06	75	219009	10.1091	ug/L	99
64) ethylmethacrylate	10.20	69	450049	19.0254	ug/L	98
65) 112Triclotha	10.29	83	137958	9.9131	ug/L	98
66) Tetrachlorte	10.53	166	198350	10.0949	ug/L	98
67) 13Diclorpropa	10.52	76	280391	9.7268	ug/L	97
69) 2Hexanone	10.64	43	1220360	93.9460	ug/L	99
70) Clorodibrmta	10.82	129	161556	9.8227	ug/L	97
71) 12Dibrometha	10.97	107	157839	9.4593	ug/L	99
72) Chlorobenzen	11.66	112	486640	9.6572	ug/L	100
73) 1Clhexane	11.64	91	232033	9.9656	ug/L	100
74) 1112Tetclota	11.77	131	153668	9.9751	ug/L	99
75) Ethylbenzene	11.82	91	804152	10.1776	ug/L	99
76) m p-Xylene	11.99	106	635284	20.0959	ug/L	95
77) o-Xylene	12.53	106	298443	9.6955	ug/L	93
78) Styrene	12.55	104	508152	10.1373	ug/L	100
79) Bromoform	12.78	173	112479	9.5509	ug/L	99
80) Isopropylben	13.06	105	775069	10.3478	ug/L	99
81) cyclohexanone	13.14	55	174606	191.5258	ug/L	100
84) Bromobenzene	13.47	156	208298	9.6990	ug/L	99
85) 1122Tetrclta	13.44	83	229420	9.5625	ug/L	99
86) 123Tric1proa	13.50	75	276437	9.6651	ug/L	97
87) 14dichloro2butene	13.53	53	64056	9.0601	ug/L	92
88) n-Propylbenz	13.64	91	919393	9.9611	ug/L	98
89) 2chlorotolue	13.76	91	551739	10.1287	ug/L	99
90) 4chlorotolue	13.91	91	632959	10.2032	ug/L	99
91) 135Trimebenz	13.90	105	655819	10.3292	ug/L	100
92) tbutylbenzen	14.37	119	568070	10.1497	ug/L	99
93) 124Trimetben	14.44	105	662880	10.8096	ug/L	98
94) sbutylbenzen	14.69	105	822107	10.0083	ug/L	97
95) 13Diclorbenz	14.83	146	371386	9.7729	ug/L	99
96) pIsopropylto	14.90	119	698939	10.3960	ug/L	99
97) 14dichlorobe	14.96	146	387797	10.0325	ug/L	100
98) 12dichlorobe	15.49	146	351246	9.8415	ug/L	99
99) nButylbenzen	15.50	91	622179	10.2481	ug/L	98
100) 12dibromo3cl	16.59	157	42158	9.5218	ug/L	86
101) 135Trichlorobenzene	16.91	180	244461	9.9904	ug/L	97

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

Quantitation Report

Data File : C:\Instarch\Data\MAR1521\CCV-LCS1.D Vial: 3
 Acq On : 15 Mar 2021 8:42 Operator: DGS-RLD
 Sample : 180026,LCSW, Inst : VMS3
 Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
 MS Integration Params: VOC.P

Quant Time: Mar 15 09:03:14 2021 Results File: W031121.RES

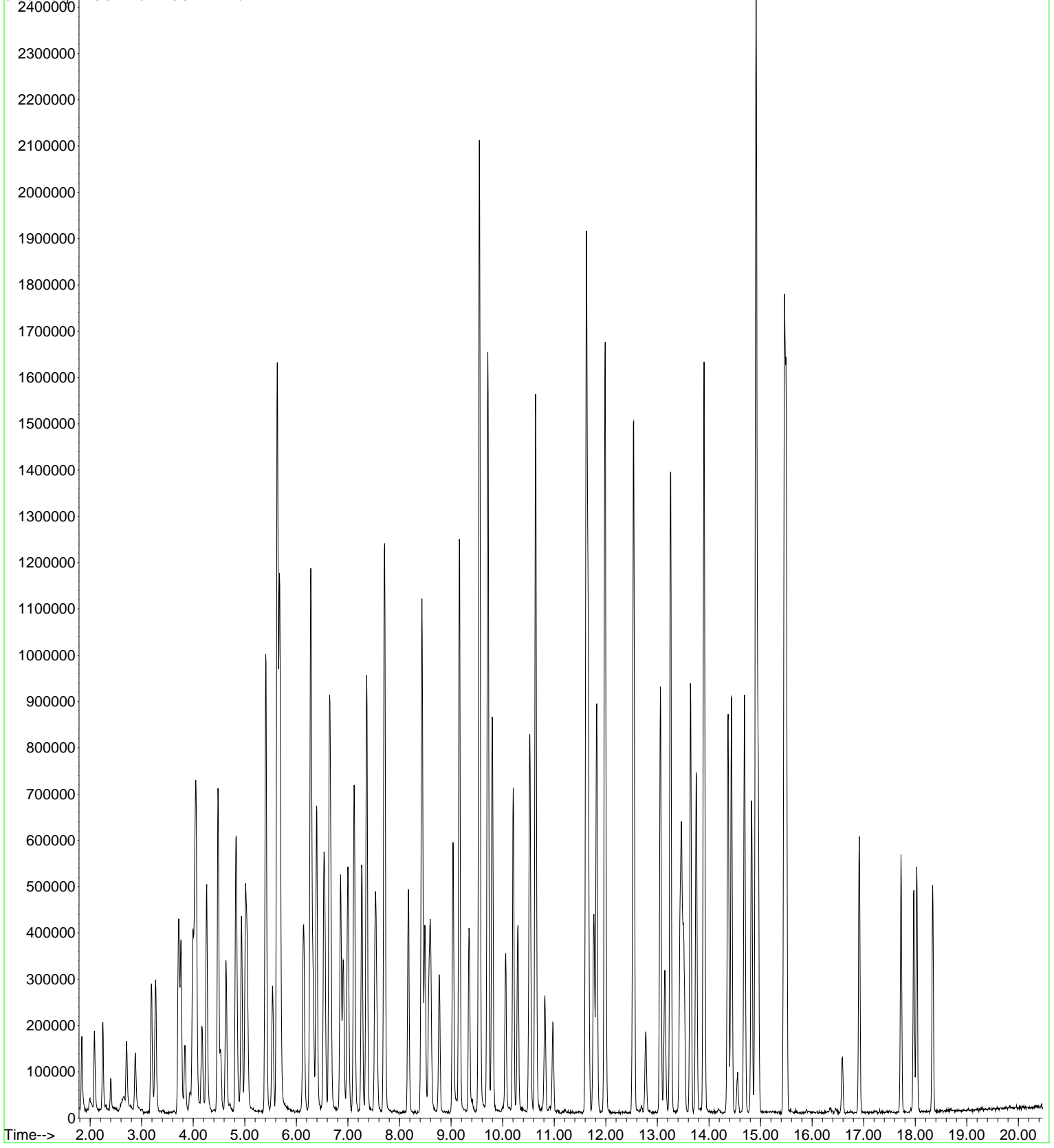
Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
 Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.72	180	206990	9.8725	ug/L	96
103) Hexachlorobu	17.97	225	112657	10.0532	ug/L	97
104) Naphthalene	18.03	128	481065	9.6898	ug/L	99
105) 123Trichlben	18.34	180	187717	9.6252	ug/L	97

Abundance Quantitation Report TIC: CCV-LCS1.D
Date: 20210315 : C:\Instarch\Data\MAR1521\CCV-LCS1.D Vial: 3
Acq On : 15 Mar 2021 8:42 Operator: DGS-RLD
Sample : 180026,LCSW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

2700000
Quant Time: Mar 15 09:03:14 2021 Results File: W031121.RES

2600000
Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 12 07:06:57 2021
Response via : Initial Calibration
DataAcq Meth : W031121.M



Data File : C:\Instarch\Data\MAR1521\BFB2.D
 Acq On : 16 Mar 2021 7:33
 Sample : 179961,BFB,
 Misc : 50 ng Inj.
 Integration File: VOC.P

Vial: 26
 Operator: DGS-RLD
 Inst : VMS3
 Multiplr: 1.00

Method : C:\INSTARCH\METHODS\W031121.M
 Title : 8260C Waters Method

Spectrum Information: Average of 4.687 to 4.705 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	19236	PASS
75	95	30	60	52.4	52422	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	6.4	6376	PASS
173	174	0.00	2	0.6	570	PASS
174	95	50	100	92.4	92407	PASS
175	174	5	9	7.1	6532	PASS
176	174	95	101	97.6	90144	PASS
177	176	5	9	6.8	6105	PASS

W031121.M Tue Mar 16 14:01:57 2021

Data File : C:\Instarch\Data\MAR1521\CCV2.D Vial: 28
 Acq On : 16 Mar 2021 8:20 Operator: DGS-RLD
 Sample : 179961,LCSW, Inst : VMS3
 Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
 Integrator: RTE

Quant Time: Mar 16 08:40:46 2021

Quant Method : C:\INSTARCH\METHODS\W031121.M
 Quant Title : 8260C Waters Method
 Response via : Initial Calibration
 DataAcq Meth:W031121.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	100	0.00
2 PT	Dichlorodi	0.2444	0.2575	-5.36	95	0.00
3 PT	Chloromethan	0.3040	0.2925	3.78	92	0.00
4 PT	VinylChlorid	0.2971	0.3151	-6.06	96	0.00
5 PT	Bromomethane	0.1730	0.1641	5.14	85	0.00
6 PT	Chloroethane	0.2039	0.2122	-4.07	97	0.00
7 T	Dichloroflmethane	0.5186	0.5202	-0.31	95	0.00
8 PT	Trichlorofma	0.3820	0.4173	-9.24	96	0.00
9 T	Ethylether	0.2254	0.2201	2.35	95	0.00
10 T	dichlorotfluoroethan	0.2655	0.2898	-9.15	98	0.00
11 T	propyleneoxide	0.0517	0.0479	7.35	89	0.00
12 T	Acrolein	0.0445	0.0406	8.76	90	0.00
13 PT	1ldichlorothe	0.2402	0.2556	-6.41	98	0.00
14 PT	Trichlorotfluoroeth	0.2053	0.2242	-9.21	97	0.00
15 PT	Acetone	0.1035	0.0971#	6.18	102	0.00
16 T	Iodomethane	0.2515	0.2318	7.83	89	0.00
17 PT	Carbon Dislf	0.5791	0.6259	-8.08	98	0.00
18 T	allylchloride	0.3965	0.4007	-1.06	95	0.00
19 PT	methylacetate	0.0709	0.0680#	4.09	97	0.00
20 PT	Methylchlorid	0.2965	0.2854	3.74	94	0.00
21 T	tbutylalcohol	0.0284	0.0275#	3.17	94	0.00
22 T	Acrylonitrile	0.1164	0.1180	-1.37	97	0.00
23 PT	t12dichlorote	0.2692	0.2690	0.07	93	0.00
24 PT	MtBE	0.6844	0.6610	3.42	91	0.00
25 T	Hexane	0.3773	0.4133	-9.54	96	0.00
26 PT	1ldichlorota	0.4663	0.4659	0.09	96	0.00
27 T	Vinylacetate	0.4698	0.3582	23.75#	72	0.00
28 T	chloroprene	0.4036	0.4411	-9.29	97	0.00
29 T	Diisopether	0.8201	0.8018	2.23	92	0.00
30 T	ETBE	0.6657	0.6294	5.45	93	0.00
31 T	22dichloropr	0.3158	0.3343	-5.86	99	0.00
32 PT	cl2dichlorote	0.3012	0.2876	4.52	94	0.00
33 PT	2Butanone	0.0404	0.0387#	4.21	98	0.00
34 T	propionitrile	0.0505	0.0487	3.56	95	0.00
35 T	Ethylacetate	0.0142	0.0133#	6.34	98	0.00
36 T	methacrylonitrile	0.1488	0.1375	7.59	89	0.00
37 T	Bromochloroma	0.1358	0.1318	2.95	97	0.00
38 T	Tetrahydrofur	0.0952	0.0949	0.32	97	0.00
39 PT	Chloroform	0.4660	0.4666	-0.13	97	0.00
40 PT	111trichlota	0.3598	0.3801	-5.64	99	0.00
41 S	SURRDibrflma	0.2628	0.2583	1.71	97	0.00
42 PT	Cyclohexane	0.3986	0.4362	-9.43	96	0.00
43 PT	Carbtetracl	0.2877	0.3066	-6.57	99	0.00
44 T	1ldicloprope	0.1352	0.1411	-4.36	100	0.00
45 S	SURR12DCAd4	0.0712	0.0695	2.39	98	0.00
46 PT	Benzene	1.0780	1.0950	-1.58	95	0.00
47 PT	12dichlorota	0.3662	0.3581	2.21	95	0.00
48 T	TAME	0.6549	0.6352	3.01	95	-0.01

49	PT	trichloroete	0.2807	0.2913	-3.78	98	0.00
50	PT	methylcyclohexane	0.5094	0.5593	-9.80	97	0.00
51	PT	12dicloropra	0.3034	0.2865	5.57	91	0.00
52	T	23Dicl1propene	0.4097	0.3933	4.00	95	0.00
53	T	Dibromometha	0.1750	0.1703	2.69	95	0.00
54	T	methylmethacrylate	0.2236	0.2010	10.11	89	0.00
55	T	14dioxane	0.0044	0.0042#	4.55	98	0.00
56	PT	Bromodiclrma	0.3431	0.3340	2.65	93	0.00
57	T	2Nitropropane	0.0739	0.0705	4.60	95	0.00
58	T	2CLEVE	0.1897	0.1914	-0.90	94	0.00
59	PT	c13dicloproe	0.4262	0.4036	5.30	93	0.00
60	PT	4Meth2Pentan	0.2678	0.2586	3.44	94	0.00
61	S	SURRd8Tolule	1.0051	1.0055	-0.04	101	0.00
62	PT	Toluene	0.7014	0.6861	2.18	93	0.00
63	PT	t13Dicloprop	0.3372	0.3431	-1.75	98	0.00
64	T	ethylmethacrylate	0.3682	0.3475	5.62	89	0.00
65	PT	112Triclotha	0.2166	0.2105	2.82	93	-0.01
66	PT	Tetrachlorte	0.3058	0.3140	-2.68	94	0.00
67	T	13Dicloropropa	0.4487	0.4292	4.35	94	0.00
68	I	d5-CHLOROENZENE**ISTD**	1.0000	1.0000	0.00	100	0.00
69	PT	2Hexanone	0.2342	0.2306	1.54	94	0.00
70	PT	Clorodibrmta	0.2966	0.2895	2.39	95	0.00
71	PT	12Dibromometha	0.3009	0.2866	4.75	93	0.00
72	PT	Chlorobenzen	0.9861	0.8748	11.29	94	0.00
73	T	1Clhexane	0.4199	0.4299	-2.38	97	0.00
74	T	1112Tetclota	0.2778	0.2638	5.04	95	0.00
75	PT	Ethylbenzene	1.4248	1.4461	-1.49	94	0.00
76	PT	m p-Xylene	0.5701	0.5732	-0.54	92	0.00
77	PT	o-Xylene	0.5551	0.5548	0.05	93	0.00
78	PT	Styrene	0.9039	0.9293	-2.81	96	0.00
79	PT	Bromoform	0.2124	0.1961	7.67	101	0.00
80	PT	Isopropylben	1.3507	1.3861	-2.62	95	0.00
81	T	cyclohexanone	0.0164	0.0163#	0.61	102	0.00
82	I	d4-1,4-DICHLOROENZENE**IS	1.0000	1.0000	0.00	101	0.00
83	S	SURR4BrFBenz	0.9207	0.9222	-0.16	101	0.00
84	T	Bromobenzene	0.6776	0.6492	4.19	95	0.00
85	PT	1122Tetrclta	0.7570	0.7130	5.81	94	0.00
86	T	123Triclproa	0.9025	0.8591	4.81	96	0.00
87	T	14dichloro2butene	0.2231	0.2147	3.77	97	0.00
88	T	n-Propylbenz	2.9123	2.7964	3.98	94	0.00
89	T	2chlorotolue	1.7188	1.7010	1.04	94	0.00
90	T	4chlorotolue	1.9574	1.9614	-0.20	95	0.00
91	T	135Trimebenz	2.0034	2.0076	-0.21	94	0.00
92	T	tbutylbenzen	1.7660	1.7600	0.34	95	0.00
93	T	124Trimetben	1.9350	1.9375	-0.13	94	0.00
94	T	sbutylbenzen	2.5919	2.4813	4.27	94	0.00
95	PT	13Diclorbenz	1.1991	1.1618	3.11	96	0.00
96	T	pIsopropylto	2.1214	2.1181	0.16	93	0.00
97	PT	14dichlorobe	1.2197	1.1710	3.99	94	0.00
98	PT	12dichlorobe	1.1262	1.0756	4.49	95	0.00
99	T	nButylbenzen	1.9157	1.9178	-0.11	95	0.00
100	PT	12dibromo3cl	0.1397	0.1314	5.94	108	0.00
101	T	135Trichlorobenzene	0.7721	0.7186	6.93	95	0.00
102	PT	124Trichlobe	0.6616	0.6208	6.17	97	0.00
103	T	Hexachlorobu	0.3536	0.3289	6.99	92	0.00
104	T	Naphthalene	1.5665	1.5144	3.33	95	0.00
105	T	123Trichlben	0.6154	0.5792	5.88	96	0.00

(#) = Out of Range

SPCC's out = 3 CCC's out = 0

Data File : C:\Instarch\Data\MAR1521\CCV2.D Vial: 28
 Acq On : 16 Mar 2021 8:20 Operator: DGS-RLD
 Sample : 179961,LCSW, Inst : VMS3
 Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
 Integrator: RTE

Quant Time: Mar 16 08:40:46 2021

Quant Method : C:\INSTARCH\METHODS\W031121.M
 Quant Title : 8260C Waters Method
 Response via : Initial Calibration
 DataAcq Meth:W031121.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	FLUOROBENZENE**ISTD**	20.0000	20.0000	0.00	100	0.00
2 PT	Dichlorodi	10.0000	9.8594	1.41	95	0.00
3 PT	Chloromethan	10.0000	9.6203	3.80	92	0.00
4 PT	VinylChlorid	10.0000	10.6066	-6.07	96	0.00
5 PT	Bromomethane	10.0000	9.4839	5.16	85	0.00
6 PT	Chloroethane	10.0000	10.4081	-4.08	97	0.00
7 T	Dichloroflmethane	10.0000	10.0304	-0.30	95	0.00
8 PT	Trichlorofma	10.0000	10.9239	-9.24	96	0.00
9 T	Ethylether	10.0000	9.7633	2.37	95	0.00
10 T	dichlorotfluoroethan	10.0000	10.9158	-9.16	98	0.00
11 T	propyleneoxide	100.0000	92.5331	7.47	89	0.00
12 T	Acrolein	50.0000	45.5437	8.91	90	0.00
13 PT	1ldichlorothe	10.0000	10.6376	-6.38	98	0.00
14 PT	Trichlorotfluoroeth	20.0000	21.8412	-9.21	97	0.00
15 PT	Acetone	100.0000	100.4570	-0.46	102	0.00
16 T	Iodomethane	20.0000	18.4324	7.84	89	0.00
17 PT	Carbon Dislf	20.0000	21.6180	-8.09	98	0.00
18 T	allylchloride	20.0000	20.2120	-1.06	95	0.00
19 PT	methylacetate	10.0000	9.6024	3.98	97	0.00
20 PT	Methylchlorid	10.0000	9.6280	3.72	94	0.00
21 T	tbutylalcohol	500.0000	484.4727	3.11	94	0.00
22 T	Acrylonitrile	50.0000	50.6784	-1.36	97	0.00
23 PT	t12dichlorthe	10.0000	9.9905	0.09	93	0.00
24 PT	MtBE	10.0000	9.6581	3.42	91	0.00
25 T	Hexane	20.0000	21.9090	-9.54	96	0.00
26 PT	1ldichlorota	10.0000	9.9905	0.09	96	0.00
27 T	Vinylacetate	100.0000	73.9943	26.01#	72	0.00
28 T	chloroprene	20.0000	21.8585	-9.29	97	0.00
29 T	Diisopether	10.0000	9.7776	2.22	92	0.00
30 T	ETBE	10.0000	9.4540	5.46	93	0.00
31 T	22dichloropr	10.0000	10.5867	-5.87	99	0.00
32 PT	cl2dichlorthe	10.0000	9.5501	4.50	94	0.00
33 PT	2Butanone	100.0000	95.8526	4.15	98	0.00
34 T	propionitrile	100.0000	96.5625	3.44	95	0.00
35 T	Ethylacetate	50.0000	46.7721	6.46	98	0.00
36 T	methacrylonitrile	20.0000	18.4788	7.61	89	0.00
37 T	Bromochloroma	10.0000	9.6998	3.00	97	0.00
38 T	Tetrahydrofur	100.0000	99.6026	0.40	97	0.00
39 PT	Chloroform	10.0000	10.0134	-0.13	97	0.00
40 PT	111trichlota	10.0000	10.5660	-5.66	99	0.00
41 S	SURRDibrflma	20.0000	19.6637	1.68	97	0.00
42 PT	Cyclohexane	10.0000	10.9434	-9.43	96	0.00
43 PT	Carbtetracl	10.0000	10.6558	-6.56	99	0.00
44 T	1ldicloprope	10.0000	10.4309	-4.31	100	0.00
45 S	SURR12DCAd4	20.0000	19.5198	2.40	98	0.00
46 PT	Benzene	10.0000	10.1573	-1.57	95	0.00
47 PT	12dichlorota	10.0000	9.7788	2.21	95	0.00
48 T	TAME	10.0000	9.6988	3.01	95	-0.01

49	PT	trichloroete	10.0000	10.3774	-3.77	98	0.00
50	PT	methylcyclohexane	10.0000	10.9808	-9.81	97	0.00
51	PT	12dicloropra	10.0000	9.4440	5.56	91	0.00
52	T	23Dicllpropene	10.0000	9.6003	4.00	95	0.00
53	T	Dibromometha	10.0000	9.7313	2.69	95	0.00
54	T	methylmethacrylate	10.0000	8.9874	10.13	89	0.00
55	T	14dioxane	500.0000	477.1298	4.57	98	0.00
56	PT	Bromodiclrma	10.0000	9.7338	2.66	93	0.00
57	T	2Nitropropane	100.0000	95.4025	4.60	95	0.00
58	T	2CLEVE	50.0000	50.4459	-0.89	94	0.00
59	PT	cl3dicloproe	10.0000	9.4708	5.29	93	0.00
60	PT	4Meth2Pentan	100.0000	94.9640	5.04	94	0.00
61	S	SURRd8Tolule	20.0000	20.0064	-0.03	101	0.00
62	PT	Toluene	10.0000	9.7818	2.18	93	0.00
63	PT	t13Dicloprop	10.0000	10.1742	-1.74	98	0.00
64	T	ethylmethacrylate	20.0000	18.8749	5.63	89	0.00
65	PT	112Triclotha	10.0000	9.7168	2.83	93	-0.01
66	PT	Tetrachlorte	10.0000	10.2674	-2.67	94	0.00
67	T	13Dicloropropa	10.0000	9.5659	4.34	94	0.00
68	I	d5-CHLOROENZENE**ISTD**	20.0000	20.0000	0.00	100	0.00
69	PT	2Hexanone	100.0000	98.4323	1.57	94	0.00
70	PT	Clorodibrmta	10.0000	9.7594	2.41	95	0.00
71	PT	12Dibromometha	10.0000	9.5259	4.74	93	0.00
72	PT	Chlorobenzen	10.0000	9.6245	3.76	94	0.00
73	T	1Clhexane	10.0000	10.2401	-2.40	97	0.00
74	T	1112Tetclota	10.0000	9.4955	5.05	95	0.00
75	PT	Ethylbenzene	10.0000	10.1493	-1.49	94	0.00
76	PT	m p-Xylene	20.0000	20.1089	-0.54	92	0.00
77	PT	o-Xylene	10.0000	9.9955	0.05	93	0.00
78	PT	Styrene	10.0000	10.2802	-2.80	96	0.00
79	PT	Bromoform	10.0000	9.2317	7.68	101	0.00
80	PT	Isopropylben	10.0000	10.2620	-2.62	95	0.00
81	T	cyclohexanone	200.0000	197.6957	1.15	102	0.00
82	I	d4-1,4-DICHLOROENZENE**IS	20.0000	20.0000	0.00	101	0.00
83	S	SURR4BrFBenz	20.0000	20.0344	-0.17	101	0.00
84	T	Bromobenzene	10.0000	9.5802	4.20	95	0.00
85	PT	1122Tetrclta	10.0000	9.4185	5.82	94	0.00
86	T	123Triclproa	10.0000	9.5197	4.80	96	0.00
87	T	14dichloro2butene	10.0000	9.6224	3.78	97	0.00
88	T	n-Propylbenz	10.0000	9.6018	3.98	94	0.00
89	T	2chlorotolue	10.0000	9.8966	1.03	94	0.00
90	T	4chlorotolue	10.0000	10.0201	-0.20	95	0.00
91	T	135Trimebenz	10.0000	10.0213	-0.21	94	0.00
92	T	tbutylbenzen	10.0000	9.9662	0.34	95	0.00
93	T	124Trimetben	10.0000	10.0132	-0.13	94	0.00
94	T	sbutylbenzen	10.0000	9.5734	4.27	94	0.00
95	PT	13Diclorbenz	10.0000	9.6894	3.11	96	0.00
96	T	pIsopropylto	10.0000	9.9845	0.15	93	0.00
97	PT	14dichlorobe	10.0000	9.6009	3.99	94	0.00
98	PT	12dichlorobe	10.0000	9.5513	4.49	95	0.00
99	T	nButylbenzen	10.0000	10.0111	-0.11	95	0.00
100	PT	12dibromo3cl	10.0000	9.4052	5.95	108	0.00
101	T	135Trichlorobenzene	10.0000	9.3074	6.93	95	0.00
102	PT	124Trichlobe	10.0000	9.3840	6.16	97	0.00
103	T	Hexachlorobu	10.0000	9.3025	6.97	92	0.00
104	T	Naphthalene	10.0000	9.6674	3.33	95	0.00
105	T	123Trichlben	10.0000	9.4113	5.89	96	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report

Data File : C:\Instarch\Data\MAR1521\CCV2.D

Vial: 28

Acq On : 16 Mar 2021 8:20

Operator: DGS-RLD

Sample : 179961,LCSW,

Inst : VMS3

Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS

Multiplr: 1.00

MS Integration Params: VOC.P

Quant Time: Mar 16 08:40:46 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method

Last Update : Fri Mar 12 07:06:57 2021

Response via : Initial Calibration

DataAcq Meth : W031121.M

IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
						Rcv (Ar)
1) FLUOROBENZENE**ISTD**	7.70	96	1311149	20.00	ug/L	0.00 NA%
68) d5-CHLORO BENZENE**ISTD**	11.62	117	1128774	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLORO BENZENE**IS	14.92	152	652982	20.00	ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.86	113	338724	19.664	ug/L	0.00
Spiked Amount	20.000	Range	90 - 110	Recovery	= 98	%
45) SURR12DCAd4	7.27	102	91158	19.520	ug/L	0.00
Spiked Amount	20.000	Range	89 - 111	Recovery	= 98	%
61) SURRD8Tolule	9.71	98	1318300	20.006	ug/L	0.00
Spiked Amount	20.000	Range	93 - 107	Recovery	= 100	%
83) SURR4BrFBenz	13.26	95	602208	20.034	ug/L	0.00
Spiked Amount	20.000	Range	83 - 111	Recovery	= 100	%

Target Compounds

						Qvalue
2) Dichlorodi	1.84	85	168835	9.8594	ug/L	98
3) Chloromethan	2.08	50	191741	9.6203	ug/L	99
4) Vinylchlorid	2.25	62	206568	10.6066	ug/L	98
5) Bromomethane	2.70	94	107570	9.4839	ug/L	98
6) Chloroethane	2.87	64	139116	10.4081	ug/L	97
7) Dichloroflmethane	3.18	67	341000	10.0304	ug/L	98
8) Trichlorofma	3.27	101	273595	10.9239	ug/L	99
9) Ethylether	3.71	59	144286	9.7633	ug/L	96
10) dichlorotfluoroethan	3.73	67	189980	10.9158	ug/L	98
11) propyleneoxide	3.76	58	313748	92.5331	ug/L	97
12) Acrolein	3.84	56	132936	45.5437	ug/L	98
13) 11dichlorothe	3.99	96	167544	10.6376	ug/L	97
14) Trichlorotfluoroeth	4.03	101	294024	21.8412	ug/L	97
15) Acetone	4.06	43	636364	100.4570	ug/L	99
16) Iodomethane	4.17	142	303877	18.4324	ug/L	99
17) Carbon Dislf	4.26	76	820698	21.6180	ug/L	99
18) allylchloride	4.48	41	525419	20.2120	ug/L	100
19) methylacetate	4.53	74	44609	9.6024	ug/L	100
20) Methylchlorid	4.63	84	187119	9.6280	ug/L	100
21) tbutylalcohol	4.83	59	902035	484.4727	ug/L	99
22) Acrylonitrile	4.93	53	386769	50.6784	ug/L	99
23) t12dichlorote	5.02	96	176336	9.9905	ug/L	97
24) MtBE	5.04	73	433323	9.6581	ug/L	97
25) Hexane	5.40	57	541872	21.9090	ug/L	100
26) 11dichlorota	5.54	63	305404	9.9905	ug/L	99
27) Vinylacetate	5.63	43	2348295	73.9943	ug/L	98
28) chloroprene	5.67	53	578362	21.8585	ug/L	99
29) Diisopether	5.68	45	525660	9.7776	ug/L	95
30) ETBE	6.14	59	412616	9.4540	ug/L	99
31) 22dichloropr	6.27	77	219160	10.5867	ug/L	98
32) c12dichlorote	6.27	96	188554	9.5501	ug/L	98
33) 2Butanone	6.29	72	253910	95.8526	ug/L	97
34) propionitrile	6.32	54	319525	96.5625	ug/L	99
35) Ethylacetate	6.39	88	43591	46.7721	ug/L #	91
36) methacrylonitrile	6.53	67	180312	18.4788	ug/L	91
37) Bromochloroma	6.55	128	86383	9.6998	ug/L	94
38) Tetrahydrofur	6.64	42	621940	99.6026	ug/L	99

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

Data File : C:\Instarch\Data\MAR1521\CCV2.D
 Acq On : 16 Mar 2021 8:20
 Sample : 179961,LCSW,
 Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS
 MS Integration Params: VOC.P

Vial: 28
 Operator: DGS-RLD
 Inst : VMS3
 Multiplr: 1.00

Quant Time: Mar 16 08:40:46 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Chloroform	6.66	83	305896	10.0134	ug/L	97
40) 111trichlota	6.91	97	249205	10.5660	ug/L	98
42) Cyclohexane	7.00	56	285934	10.9434	ug/L	98
43) Carbtetracl	7.13	119	200972	10.6558	ug/L	98
44) 11dicloroprope	7.12	110	92484	10.4309	ug/L	96
46) Benzene	7.36	78	717827	10.1573	ug/L	99
47) 12dichlorota	7.36	62	234775	9.7788	ug/L	97
48) TAME	7.53	73	416411	9.6988	ug/L	98
49) trichloroete	8.17	95	190958	10.3774	ug/L	99
50) methylcyclohexane	8.44	83	366671	10.9808	ug/L	98
51) 12dicloropra	8.43	63	187825	9.4440	ug/L	98
52) 23Dicl1propene	8.49	75	257848	9.6003	ug/L	98
53) Dibromometha	8.57	93	111648	9.7313	ug/L	97
54) methylmethacrylate	8.59	69	131767	8.9874	ug/L	97
55) 14dioxane	8.61	88	138883	477.1298	ug/L	99
56) Bromodiclma	8.77	83	218959	9.7338	ug/L	97
57) 2Nitropropane	9.04	43	461988	95.4025	ug/L	100
58) 2CLEVE	9.16	63	627252	50.4459	ug/L	98
59) c13dicloropoe	9.35	75	264608	9.4708	ug/L	99
60) 4Meth2Pentan	9.55	43	1695445	94.9640	ug/L	100
62) Toluene	9.80	92	449770	9.7818	ug/L	98
63) t13Dicloroprop	10.06	75	224915	10.1742	ug/L	96
64) ethylmethacrylate	10.20	69	455594	18.8749	ug/L	98
65) 112Triclotha	10.29	83	137984	9.7168	ug/L	97
66) Tetrachlorte	10.53	166	205852	10.2674	ug/L	99
67) 13Diclorpropa	10.52	76	281376	9.5659	ug/L	100
69) 2Hexanone	10.64	43	1301320	98.4323	ug/L	99
70) Clorodibrmta	10.82	129	163362	9.7594	ug/L	97
71) 12Dibrometha	10.98	107	161769	9.5259	ug/L	97
72) Chlorobenzen	11.66	112	493721	9.6245	ug/L	99
73) 1Clhexane	11.64	91	242652	10.2401	ug/L	98
74) 1112Tetclota	11.77	131	148875	9.4955	ug/L	97
75) Ethylbenzene	11.82	91	816143	10.1493	ug/L	99
76) m p-Xylene	11.99	106	646972	20.1089	ug/L	97
77) o-Xylene	12.53	106	313135	9.9955	ug/L	98
78) Styrene	12.55	104	524461	10.2802	ug/L	100
79) Bromoform	12.78	173	110649	9.2317	ug/L	96
80) Isopropylben	13.06	105	782281	10.2620	ug/L	98
81) cyclohexanone	13.14	55	183428	197.6957	ug/L	94
84) Bromobenzene	13.47	156	211957	9.5802	ug/L	98
85) 1122Tetrclta	13.44	83	232788	9.4185	ug/L	100
86) 123Tric1proa	13.50	75	280497	9.5197	ug/L	96
87) 14dichloro2butene	13.53	53	70086	9.6224	ug/L	97
88) n-Propylbenz	13.64	91	912990	9.6018	ug/L	99
89) 2chlorotolue	13.75	91	555371	9.8966	ug/L	98
90) 4chlorotolue	13.91	91	640367	10.0201	ug/L	97
91) 135Trimetbenz	13.90	105	655477	10.0213	ug/L	99
92) tbutylbenzen	14.37	119	574639	9.9662	ug/L	99
93) 124Trimetben	14.44	105	632582	10.0132	ug/L	100
94) sbutylbenzen	14.69	105	810130	9.5734	ug/L	98
95) 13Diclorbenz	14.83	146	379330	9.6894	ug/L	99
96) pIsopropylto	14.91	119	691537	9.9845	ug/L	100
97) 14dichlorobe	14.96	146	382320	9.6009	ug/L	98
98) 12dichlorobe	15.49	146	351181	9.5513	ug/L	98
99) nButylbenzen	15.50	91	626138	10.0111	ug/L	99
100) 12dibromo3cl	16.59	157	42899	9.4052	ug/L	85
101) 135Trichlorobenzene	16.91	180	234624	9.3074	ug/L	99

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

CCV2.D W031121.M Tue Mar 16 14:34:47 2021

Quantitation Report

Data File : C:\Instarch\Data\MAR1521\CCV2.D

Vial: 28

Acq On : 16 Mar 2021 8:20

Operator: DGS-RLD

Sample : 179961,LCSW,

Inst : VMS3

Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS

Multiplr: 1.00

MS Integration Params: VOC.P

Quant Time: Mar 16 08:40:46 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method

Last Update : Fri Mar 12 07:06:57 2021

Response via : Initial Calibration

DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.72	180	202688	9.3840	ug/L	98
103) Hexachlorobu	17.97	225	107392	9.3025	ug/L	98
104) Naphthalene	18.03	128	494443	9.6674	ug/L	99
105) 123Trichlben	18.34	180	189088	9.4113	ug/L	98

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

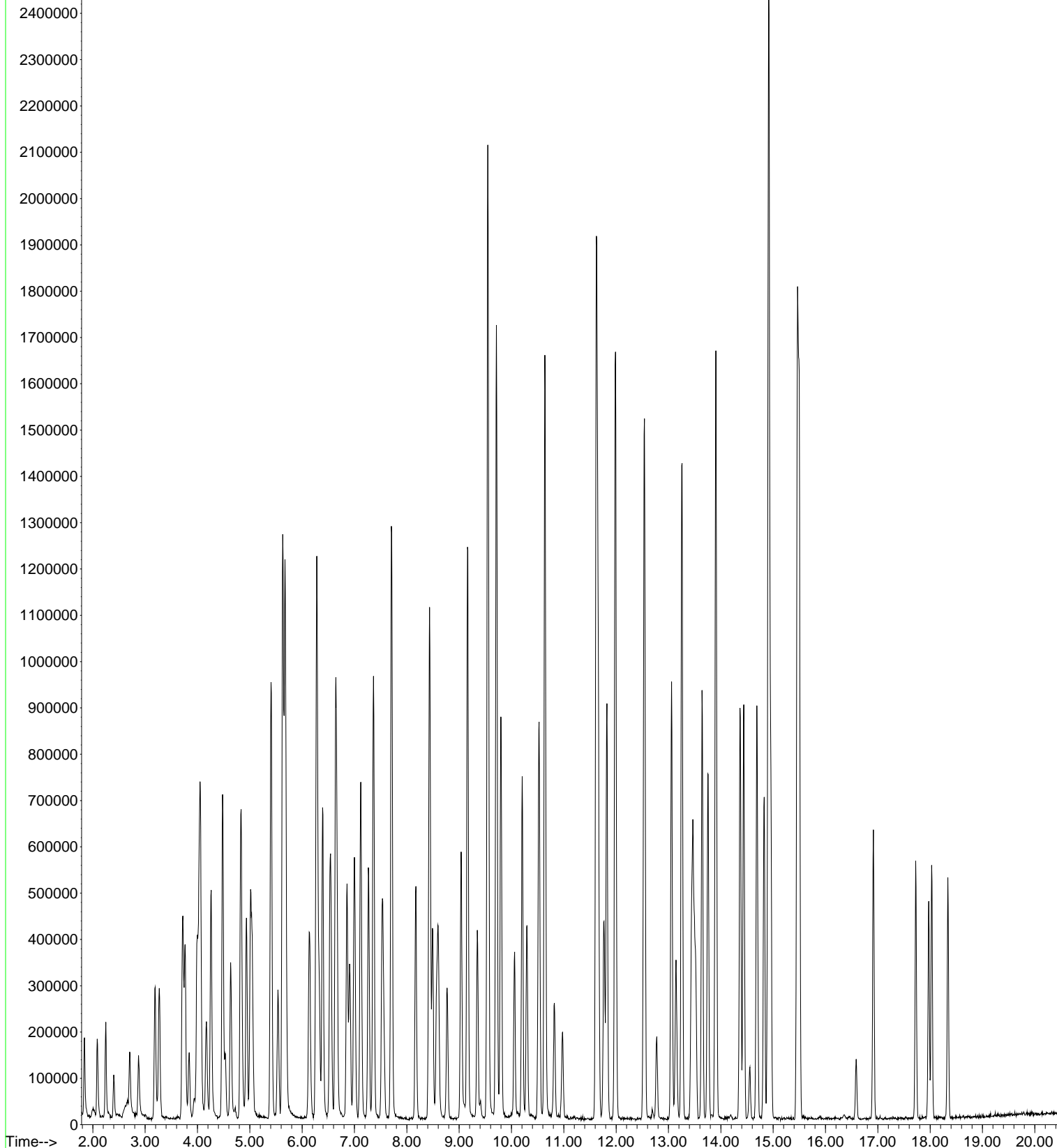
CCV2.D W031121.M Tue Mar 16 14:34:47 2021

Abundance
Data File : C:\Instarch\Data\MAR1521\CCV2.D
Acq 290000 : 16 Mar 2021 8:20
Sample : 179961,LCSW,
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS
MS Integration Params: VOC.P

TIC:CCV2.D
Vial: 28
Operator: DGS-RLD
Inst : VMS3
Multiplr: 1.00

270000
260000
250000
Time: Mar 16 08:40:46 2021 Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 12 07:06:57 2021
Res 250000 via : Initial Calibration
DataAcq Meth : W031121.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1521\CCB1.D
 Acq On : 16 Mar 2021 9:18
 Sample : 179961,CCB,
 Misc : pH<2,5.0 mL DI H2O Purged + IS/SS
 MS Integration Params: VOC.P

Vial: 30
 Operator: DGS-RLD
 Inst : VMS3
 Multiplr: 1.00

Quant Time: Mar 16 09:39:26 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
						Rcv (Ar)
1) FLUOROBENZENE**ISTD**	7.70	96	1228291	20.00	ug/L	0.00
68) d5-CHLOROENZENE**ISTD**	11.62	117	1080228	20.00	ug/L	0.00
82) d4-1,4-DICHLOROENZENE**IS	14.92	152	606915	20.00	ug/L	0.00

System Monitoring Compounds

41) SURRDibrflma	6.86	113	326373	20.225	ug/L	0.00
Spiked Amount	20.000	Range	90 - 110	Recovery	= 101	%
45) SURR12DCAd4	7.27	102	85609	19.568	ug/L	0.00
Spiked Amount	20.000	Range	89 - 111	Recovery	= 98	%
61) SURRD8Tolule	9.71	98	1235449	20.014	ug/L	0.00
Spiked Amount	20.000	Range	93 - 107	Recovery	= 100	%
83) SURR4BrFBenz	13.25	95	553797	19.822	ug/L	0.00
Spiked Amount	20.000	Range	83 - 111	Recovery	= 99	%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	0.00	50	0	N.D.		
4) Vinylchlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorothe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.07	43	15333	Below	Cal	95
16) Iodomethane	4.18	142	2835	N.D.		
17) Carbon Dislf	4.26	76	4913	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	0.00	84	0	N.D.		
21) tbutylalcohol	4.84	59	5211	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorthe	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorthe	0.00	96	0	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydrofur	6.66	42	2547	N.D.		

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

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1521\CCB1.D
 Acq On : 16 Mar 2021 9:18
 Sample : 179961,CCB,
 Misc : pH<2,5.0 mL DI H2O Purged + IS/SS
 MS Integration Params: VOC.P

Vial: 30
 Operator: DGS-RLD
 Inst : VMS3
 Multiplr: 1.00

Quant Time: Mar 16 09:39:26 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Chloroform	0.00	83	0	N.D.		
40) 111trichlota	0.00	97	0	N.D.		
42) Cyclohexane	0.00	56	0	N.D.		
43) Carbtetracl	0.00	119	0	N.D.		
44) 11dicloprope	0.00	110	0	N.D.		
46) Benzene	0.00	78	0	N.D.		
47) 12dichlorota	0.00	62	0	N.D.		
48) TAME	0.00	73	0	N.D.		
49) trichloroete	0.00	95	0	N.D.		
50) methylcyclohexane	0.00	83	0	N.D.		
51) 12dicloropra	0.00	63	0	N.D.		
52) 23Dicl1propene	0.00	75	0	N.D.		
53) Dibromometha	0.00	93	0	N.D.		
54) methylmethacrylate	0.00	69	0	N.D.		
55) 14dioxane	8.62	88	2989	N.D.		
56) Bromodiclrma	0.00	83	0	N.D.		
57) 2Nitropropane	0.00	43	0	N.D.		
58) 2CLEVE	0.00	63	0	N.D.		
59) c13dicloproe	0.00	75	0	N.D.		
60) 4Meth2Pentan	9.55	43	5060	Below	Cal #	39
62) Toluene	0.00	92	0	N.D.		
63) t13Dicloprop	0.00	75	0	N.D.		
64) ethylmethacrylate	0.00	69	0	N.D.		
65) 112Triclotha	0.00	83	0	N.D.		
66) Tetrachlorte	0.00	166	0	N.D.		
67) 13Diclorpropa	0.00	76	0	N.D.		
69) 2Hexanone	10.64	43	5541	N.D.		
70) Clorodibrmta	0.00	129	0	N.D.		
71) 12Dibrometha	0.00	107	0	N.D.		
72) Chlorobenzen	11.66	112	15245	Below	Cal #	30
73) 1Clhexane	11.63	91	3287	N.D.		
74) 1112Tetclota	0.00	131	0	N.D.		
75) Ethylbenzene	11.83	91	3815	N.D.		
76) m p-Xylene	11.97	106	2735	N.D.		
77) o-Xylene	0.00	106	0	N.D.		
78) Styrene	0.00	104	0	N.D.		
79) Bromoform	0.00	173	0	N.D.		
80) Isopropylben	13.05	105	4808	N.D.		
81) cyclohexanone	0.00	55	0	N.D.		
84) Bromobenzene	0.00	156	0	N.D.		
85) 1122Tetrclta	0.00	83	0	N.D.		
86) 123Triclproa	0.00	75	0	N.D.		
87) 14dichloro2butene	0.00	53	0	N.D.		
88) n-Propylbenz	13.64	91	5552	N.D.		
89) 2chlorotolue	13.64	91	5201	N.D.		
90) 4chlorotolue	0.00	91	0	N.D.		
91) 135Trimebenz	0.00	105	0	N.D.		
92) tbutylbenzen	14.37	119	3887	N.D.		
93) 124Trimetben	14.45	105	3016	N.D.		
94) sbutylbenzen	14.69	105	6103	N.D.		
95) 13Diclorbenz	0.00	146	0	N.D.		
96) pIsopropylto	14.90	119	6008	N.D.		
97) 14dichlorobe	0.00	146	0	N.D.		
98) 12dichlorobe	0.00	146	0	N.D.		
99) nButylbenzen	15.50	91	8007	N.D.		
100) 12dibromo3cl	0.00	157	0	N.D.		
101) 135Trichlorobenzene	0.00	180	0	N.D.		

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

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1521\CCB1.D
Acq On : 16 Mar 2021 9:18
Sample : 179961,CCB,
Misc : pH<2,5.0 mL DI H2O Purged + IS/SS
MS Integration Params: VOC.P

Vial: 30
Operator: DGS-RLD
Inst : VMS3
Multiplr: 1.00

Quant Time: Mar 16 09:39:26 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 12 07:06:57 2021
Response via : Initial Calibration
DataAcq Meth : W031121.M

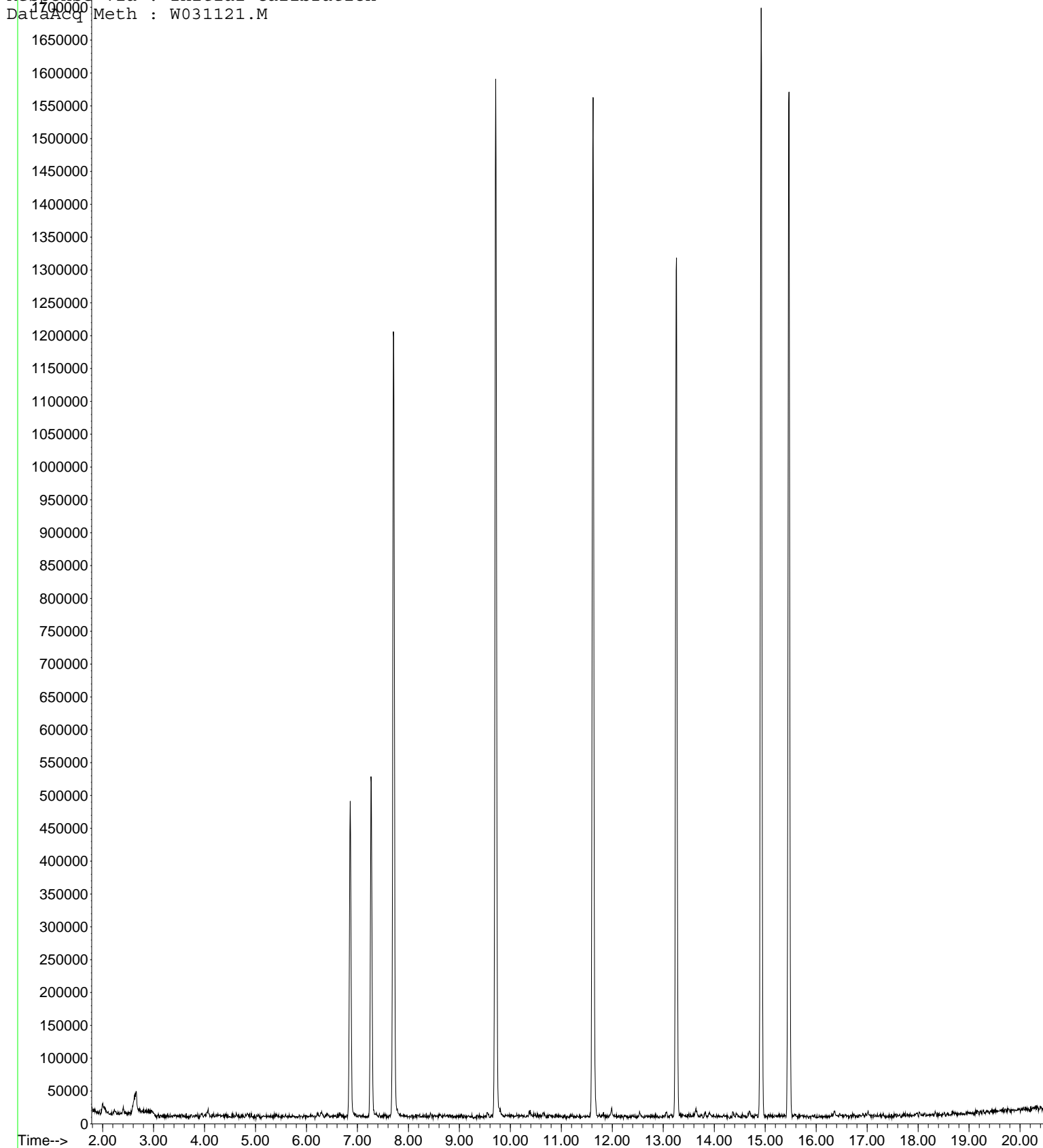
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.		
103) Hexachlorobu	0.00	225	0	N.D.		
104) Naphthalene	18.03	128	3693	N.D.		
105) 123Trichlben	0.00	180	0	N.D.		

Abundance
Data File : C:\INSTARCH\DATA\MAR1521\CCB1.D
Acq On : 16 Mar 2021 9:18
Sample : 179961,CCB,
Misc : pH<2,5.0 mL DI H2O Purged + IS/SS
MS Integration Params: VOC.P

TIC: CCB1.D
Vial: 30
Operator: DGS-RLD
Inst : VMS3
Multiplr: 1.00

Quant Time: Mar 16 09:39:26 2021 Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
Title : 8260C Waters Method
Last Op Date : Fri Mar 12 07:06:57 2021
Response via : Initial Calibration
Data File Meth : W031121.M



**VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL
DOCUMENTS**

Quantitation Report

Data File : C:\Instarch\Data\MAR1521\CCV-LCS1.D
 Acq On : 15 Mar 2021 8:42
 Sample : 180026,LCSW,
 Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS
 MS Integration Params: VOC.P

Vial: 3
 Operator: DGS-RLD
 Inst : VMS3
 Multiplr: 1.00

Quant Time: Mar 15 09:03:14 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
						Rcv (Ar)
1) FLUOROBENZENE**ISTD**	7.71	96	1284945	20.00	ug/L	0.00 NA%
68) d5-CHLORO BENZENE**ISTD**	11.62	117	1109099	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLORO BENZENE**IS	14.92	152	633846	20.00	ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.86	113	342086	20.264	ug/L	0.00
Spiked Amount	20.000	Range	90 - 110	Recovery	= 101	%
45) SURR12DCAd4	7.27	102	92615	20.236	ug/L	0.00
Spiked Amount	20.000	Range	89 - 111	Recovery	= 101	%
61) SURRD8Tolule	9.71	98	1297923	20.099	ug/L	0.00
Spiked Amount	20.000	Range	93 - 107	Recovery	= 100	%
83) SURR4BrFBenz	13.25	95	590777	20.247	ug/L	0.00
Spiked Amount	20.000	Range	83 - 111	Recovery	= 101	%

Target Compounds

						Qvalue
2) Dichlorodi	1.84	85	154263	9.1891	ug/L	99
3) Chloromethan	2.08	50	187749	9.6121	ug/L	98
4) VinylChlorid	2.24	62	199249	10.4395	ug/L	97
5) Bromomethane	2.70	94	115693	10.4081	ug/L	99
6) Chloroethane	2.87	64	130300	9.9473	ug/L	99
7) Dichloroflmethane	3.19	67	343336	10.3050	ug/L	100
8) Trichlorofma	3.27	101	267818	10.9113	ug/L	96
9) Ethylether	3.71	59	136663	9.4360	ug/L	97
10) dichlorotfluoroethan	3.73	67	180835	10.6023	ug/L	96
11) propyleneoxide	3.76	58	307120	92.4254	ug/L	99
12) Acrolein	3.84	56	139502	48.7679	ug/L	97
13) 11dichlorthe	3.99	96	165182	10.7015	ug/L	99
14) Trichlorotfluoroeth	4.03	101	301782	22.8747	ug/L	98
15) Acetone	4.06	43	630369	101.6182	ug/L	99
16) Iodomethane	4.17	142	272310	16.8545	ug/L	98
17) Carbon Dislf	4.26	76	832405	22.3735	ug/L	98
18) allylchloride	4.48	41	521564	20.4729	ug/L	99
19) methylacetate	4.53	74	43958	9.6553	ug/L	98
20) Methylchlorid	4.64	84	183199	9.6185	ug/L	98
21) tbutylalcohol	4.83	59	829716	454.7188	ug/L	97
22) Acrylonitrile	4.94	53	360677	48.2234	ug/L	98
23) t12dichlorthe	5.02	96	179099	10.3539	ug/L	98
24) MtBE	5.05	73	422138	9.6007	ug/L	98
25) Hexane	5.41	57	557591	23.0043	ug/L	99
26) 11dichlorota	5.54	63	300249	10.0222	ug/L	98
27) Vinylacetate	5.63	43	2916485	97.3870	ug/L	100
28) chloroprene	5.67	53	560847	21.6288	ug/L	98
29) Diisopether	5.68	45	517044	9.8134	ug/L	99
30) ETBE	6.14	59	416301	9.7329	ug/L	98
31) 22dichloropr	6.27	77	218725	10.7812	ug/L	99
32) c12dichlorthe	6.27	96	194053	10.0291	ug/L	98
33) 2Butanone	6.29	72	251652	96.9375	ug/L	96
34) propionitrile	6.32	54	314500	96.9821	ug/L	99
35) Ethylacetate	6.40	88	42251	46.2589	ug/L	95
36) methacrylonitrile	6.53	67	182130	19.0457	ug/L	95
37) Bromochloroma	6.55	128	86026	9.8567	ug/L	94
38) Tetrahydrofur	6.64	42	590750	96.5369	ug/L	100

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

Quantitation Report

Data File : C:\Instarch\Data\MAR1521\CCV-LCS1.D
 Acq On : 15 Mar 2021 8:42
 Sample : 180026,LCSW,
 Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS
 MS Integration Params: VOC.P

Vial: 3
 Operator: DGS-RLD
 Inst : VMS3
 Multiplr: 1.00

Quant Time: Mar 15 09:03:14 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Chloroform	6.67	83	297854	9.9489	ug/L	99
40) 111trichlota	6.91	97	249730	10.8042	ug/L	98
42) Cyclohexane	7.00	56	284414	11.1072	ug/L	98
43) Carbtetracl	7.13	119	199079	10.7706	ug/L	97
44) 11dicloroprope	7.12	110	92430	10.6374	ug/L	95
46) Benzene	7.36	78	702295	10.1402	ug/L	99
47) 12dichlorota	7.36	62	233121	9.9079	ug/L	99
48) TAME	7.53	73	406924	9.6711	ug/L	98
49) trichloroete	8.17	95	185225	10.2712	ug/L	98
50) methylcyclohexane	8.43	83	368791	11.2696	ug/L	99
51) 12dicloropra	8.43	63	189547	9.7249	ug/L	93
52) 23Dicl1propene	8.50	75	269943	10.2556	ug/L	95
53) Dibromometha	8.57	93	109057	9.6993	ug/L	99
54) methylmethacrylate	8.59	69	128311	8.9302	ug/L	98
55) 14dioxane	8.60	88	136878	479.8313	ug/L	99
56) Bromodiclrma	8.77	83	224277	10.1736	ug/L	99
57) 2Nitropropane	9.04	43	483079	101.7922	ug/L	99
58) 2CLEVE	9.16	63	615232	50.4882	ug/L	99
59) c13diclorproe	9.35	75	264616	9.6642	ug/L	98
60) 4Meth2Pentan	9.55	43	1653903	94.4782	ug/L	100
62) Toluene	9.80	92	460763	10.2253	ug/L	99
63) t13Dicloroprop	10.06	75	219009	10.1091	ug/L	99
64) ethylmethacrylate	10.20	69	450049	19.0254	ug/L	98
65) 112Triclotha	10.29	83	137958	9.9131	ug/L	98
66) Tetrachlorte	10.53	166	198350	10.0949	ug/L	98
67) 13Diclorpropa	10.52	76	280391	9.7268	ug/L	97
69) 2Hexanone	10.64	43	1220360	93.9460	ug/L	99
70) Clorodibrmta	10.82	129	161556	9.8227	ug/L	97
71) 12Dibrometha	10.97	107	157839	9.4593	ug/L	99
72) Chlorobenzen	11.66	112	486640	9.6572	ug/L	100
73) 1Clhexane	11.64	91	232033	9.9656	ug/L	100
74) 1112Tetclota	11.77	131	153668	9.9751	ug/L	99
75) Ethylbenzene	11.82	91	804152	10.1776	ug/L	99
76) m p-Xylene	11.99	106	635284	20.0959	ug/L	95
77) o-Xylene	12.53	106	298443	9.6955	ug/L	93
78) Styrene	12.55	104	508152	10.1373	ug/L	100
79) Bromoform	12.78	173	112479	9.5509	ug/L	99
80) Isopropylben	13.06	105	775069	10.3478	ug/L	99
81) cyclohexanone	13.14	55	174606	191.5258	ug/L	100
84) Bromobenzene	13.47	156	208298	9.6990	ug/L	99
85) 1122Tetrclta	13.44	83	229420	9.5625	ug/L	99
86) 123Triclproa	13.50	75	276437	9.6651	ug/L	97
87) 14dichloro2butene	13.53	53	64056	9.0601	ug/L	92
88) n-Propylbenz	13.64	91	919393	9.9611	ug/L	98
89) 2chlorotolue	13.76	91	551739	10.1287	ug/L	99
90) 4chlorotolue	13.91	91	632959	10.2032	ug/L	99
91) 135Trimebenz	13.90	105	655819	10.3292	ug/L	100
92) tbutylbenzen	14.37	119	568070	10.1497	ug/L	99
93) 124Trimetben	14.44	105	662880	10.8096	ug/L	98
94) sbutylbenzen	14.69	105	822107	10.0083	ug/L	97
95) 13Diclorbenz	14.83	146	371386	9.7729	ug/L	99
96) pIsopropylto	14.90	119	698939	10.3960	ug/L	99
97) 14dichlorobe	14.96	146	387797	10.0325	ug/L	100
98) 12dichlorobe	15.49	146	351246	9.8415	ug/L	99
99) nButylbenzen	15.50	91	622179	10.2481	ug/L	98
100) 12dibromo3cl	16.59	157	42158	9.5218	ug/L	86
101) 135Trichlorobenzene	16.91	180	244461	9.9904	ug/L	97

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

CCV-LCS1.D W031121.M Wed Mar 24 13:01:27 2021

Quantitation Report

Data File : C:\Instarch\Data\MAR1521\CCV-LCS1.D Vial: 3
 Acq On : 15 Mar 2021 8:42 Operator: DGS-RLD
 Sample : 180026,LCSW, Inst : VMS3
 Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
 MS Integration Params: VOC.P

Quant Time: Mar 15 09:03:14 2021 Results File: W031121.RES

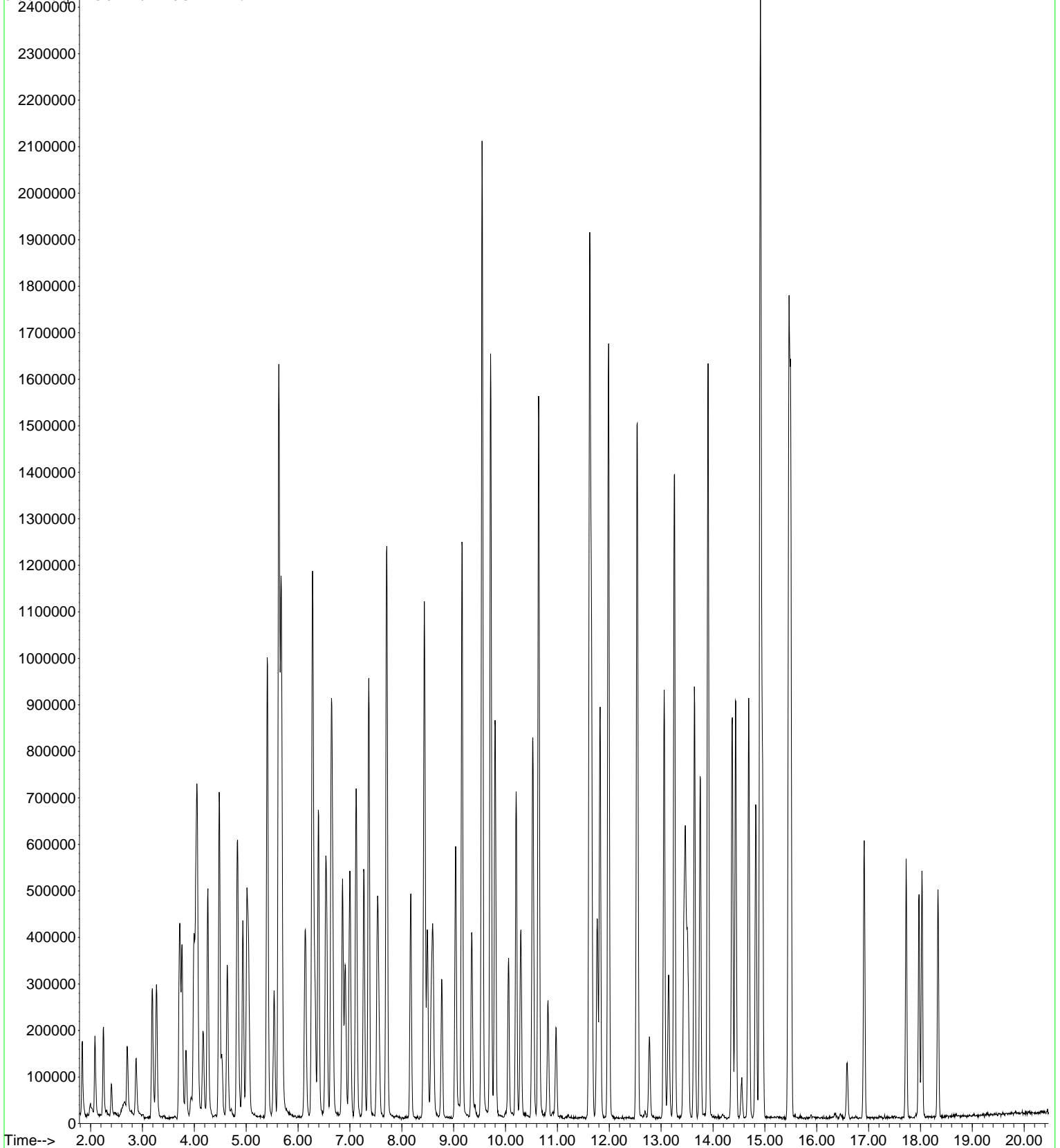
Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
 Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.72	180	206990	9.8725	ug/L	96
103) Hexachlorobu	17.97	225	112657	10.0532	ug/L	97
104) Naphthalene	18.03	128	481065	9.6898	ug/L	99
105) 123Trichlben	18.34	180	187717	9.6252	ug/L	97

Abundance Quantitation Report TIC: CCV-LCS1.D
Date: 20210315 : C:\Instarch\Data\MAR1521\CCV-LCS1.D Vial: 3
Acq On : 15 Mar 2021 8:42 Operator: DGS-RLD
Sample : 180026,LCSW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

2700000
Quant Time: Mar 15 09:03:14 2021 Results File: W031121.RES

2600000
Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 12 07:06:57 2021
Response via : Initial Calibration
DataAcq Meth : W031121.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1521\MB1.D
 Acq On : 15 Mar 2021 10:11
 Sample : 180026,MBW,
 Misc : pH<2,5.0 mL DI H2O Purged + IS/SS
 MS Integration Params: VOC.P

Vial: 6
 Operator: DGS-RLD
 Inst : VMS3
 Multiplr: 1.00

Quant Time: Mar 15 10:31:42 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
						Rcv (Ar)
1) FLUOROBENZENE**ISTD**	7.71	96	1262076	20.00	ug/L	0.00 NA%
68) d5-CHLOROENZENE**ISTD**	11.62	117	1093490	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROENZENE**IS	14.92	152	603982	20.00	ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.86	113	329994	19.902	ug/L	0.00
Spiked Amount	20.000	Range	90 - 110	Recovery	= 100	%
45) SURR12DCAd4	7.27	102	91797	20.421	ug/L	0.00
Spiked Amount	20.000	Range	89 - 111	Recovery	= 102	%
61) SURRD8Tolule	9.71	98	1255481	19.794	ug/L	0.00
Spiked Amount	20.000	Range	93 - 107	Recovery	= 99	%
83) SURR4BrFBenz	13.25	95	564925	20.319	ug/L	0.00
Spiked Amount	20.000	Range	83 - 111	Recovery	= 102	%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	0.00	50	0	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorothe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.06	43	25934	N.D.		
16) Iodomethane	4.17	142	6586	N.D.		
17) Carbon Dislf	4.26	76	13324	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	0.00	84	0	N.D.		
21) tbutylalcohol	4.85	59	10417	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorthe	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.41	57	3894	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorthe	0.00	96	0	N.D.		
33) 2Butanone	6.29	72	3171	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydrofur	6.66	42	2500	N.D.		

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

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1521\MB1.D
 Acq On : 15 Mar 2021 10:11
 Sample : 180026,MBW,
 Misc : pH<2,5.0 mL DI H2O Purged + IS/SS
 MS Integration Params: VOC.P

Vial: 6
 Operator: DGS-RLD
 Inst : VMS3
 Multiplr: 1.00

Quant Time: Mar 15 10:31:42 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Chloroform	0.00	83	0	N.D.		
40) 111trichlota	0.00	97	0	N.D.		
42) Cyclohexane	0.00	56	0	N.D.		
43) Carbtetracl	0.00	119	0	N.D.		
44) 11dicloprope	0.00	110	0	N.D.		
46) Benzene	7.37	78	2579	N.D.		
47) 12dichlorota	0.00	62	0	N.D.		
48) TAME	0.00	73	0	N.D.		
49) trichloroete	0.00	95	0	N.D.		
50) methylcyclohexane	8.44	83	3593	N.D.		
51) 12dicloropra	0.00	63	0	N.D.		
52) 23Dicl1propene	0.00	75	0	N.D.		
53) Dibromometha	0.00	93	0	N.D.		
54) methylmethacrylate	0.00	69	0	N.D.		
55) 14dioxane	8.61	88	3782	N.D.		
56) Bromodiclma	0.00	83	0	N.D.		
57) 2Nitropropane	0.00	43	0	N.D.		
58) 2CLEVE	0.00	63	0	N.D.		
59) c13dicloproe	0.00	75	0	N.D.		
60) 4Meth2Pentan	9.55	43	9511	Below	Cal #	71
62) Toluene	9.80	92	11666	0.2636	ug/L	100
63) t13Dicloprop	0.00	75	0	N.D.		
64) ethylmethacrylate	0.00	69	0	N.D.		
65) 112Triclotha	0.00	83	0	N.D.		
66) Tetrachlorte	0.00	166	0	N.D.		
67) 13Diclorpropa	0.00	76	0	N.D.		
69) 2Hexanone	10.64	43	9651	N.D.		
70) Clorodibrmta	0.00	129	0	N.D.		
71) 12Dibrometha	0.00	107	0	N.D.		
72) Chlorobenzen	11.66	112	69733	0.9903	ug/L	87
73) 1Clhexane	11.64	91	4971	N.D.		
74) 1112Tetclota	0.00	131	0	N.D.		
75) Ethylbenzene	11.83	91	6210	N.D.		
76) m p-Xylene	11.98	106	5206	N.D.		
77) o-Xylene	12.52	106	2564	N.D.		
78) Styrene	0.00	104	0	N.D.		
79) Bromoform	0.00	173	0	N.D.		
80) Isopropylben	13.06	105	8286	N.D.		
81) cyclohexanone	13.15	55	3980	N.D.		
84) Bromobenzene	0.00	156	0	N.D.		
85) 1122Tetrclta	0.00	83	0	N.D.		
86) 123Triclproa	0.00	75	0	N.D.		
87) 14dichloro2butene	0.00	53	0	N.D.		
88) n-Propylbenz	13.64	91	11335	N.D.		
89) 2chlorotolue	13.76	91	3036	N.D.		
90) 4chlorotolue	13.90	91	3826	N.D.		
91) 135Trimebenz	13.90	105	5768	N.D.		
92) tbutylbenzen	14.38	119	8256	N.D.		
93) 124Trimetben	14.44	105	5772	N.D.		
94) sbutylbenzen	14.69	105	12836	N.D.		
95) 13Diclorbenz	0.00	146	0	N.D.		
96) pIsopropylto	14.90	119	11841	N.D.		
97) 14dichlorobe	0.00	146	0	N.D.		
98) 12dichlorobe	0.00	146	0	N.D.		
99) nButylbenzen	15.50	91	11842	N.D.		
100) 12dibromo3cl	0.00	157	0	N.D.		
101) 135Trichlorobenzene	0.00	180	0	N.D.		

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

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1521\MB1.D
 Acq On : 15 Mar 2021 10:11
 Sample : 180026,MBW,
 Misc : pH<2,5.0 mL DI H2O Purged + IS/SS
 MS Integration Params: VOC.P

Vial: 6
 Operator: DGS-RLD
 Inst : VMS3
 Multiplr: 1.00

Quant Time: Mar 15 10:31:42 2021

Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
 Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

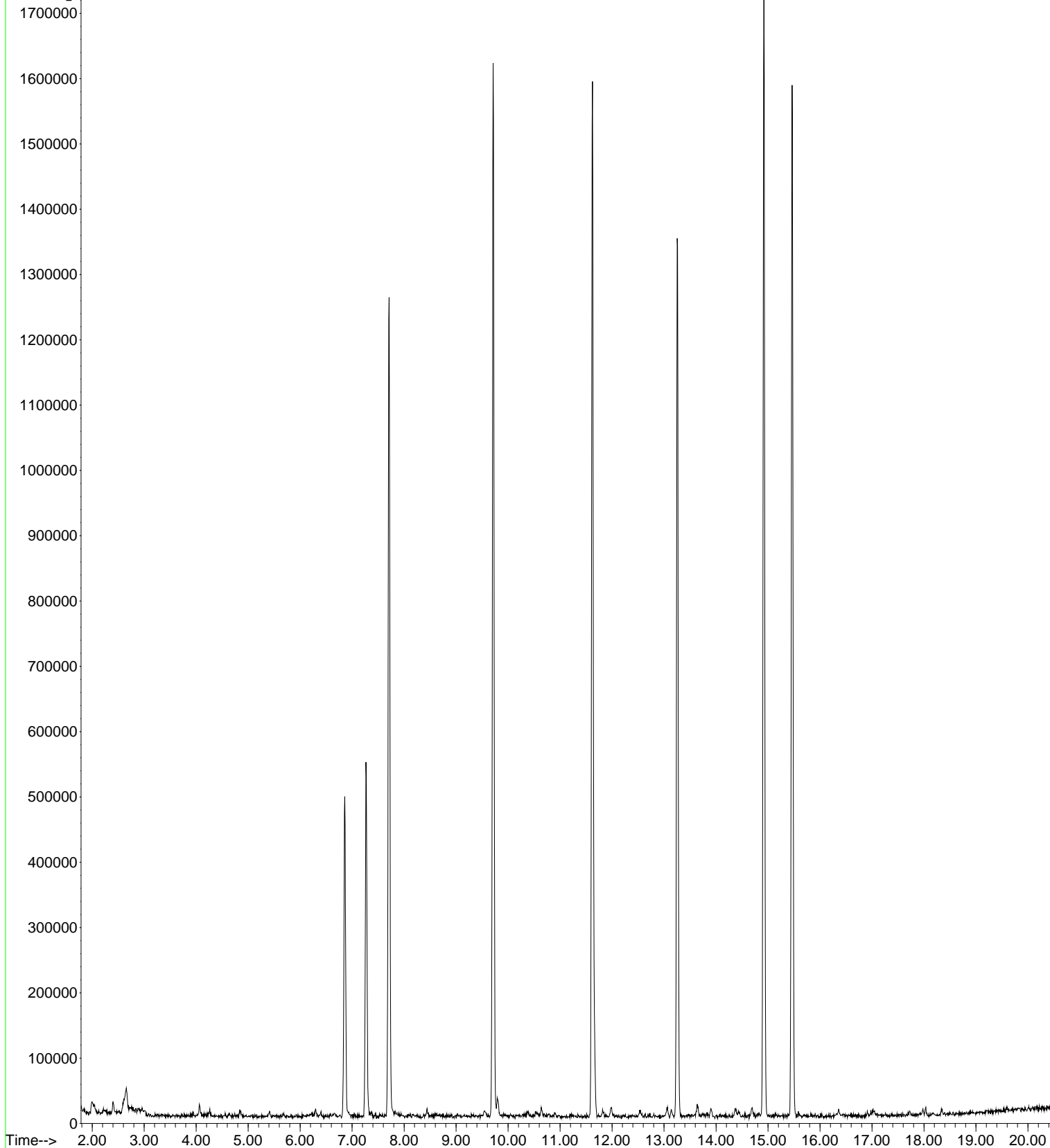
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	0.00	180	0		N.D.	
103) Hexachlorobu	0.00	225	0		N.D.	
104) Naphthalene	18.03	128	8998		N.D.	
105) 123Trichlben	18.34	180	3228		N.D.	

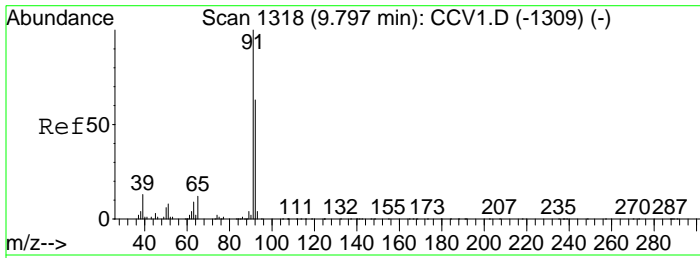
Abundance
Data File : C:\INSTARCH\DATA\MAR1521\MB1.D
Acq On : 15 Mar 2021 10:11
Sample : 180026,MBW,
Misc : pH<2,5.0 mL DI H2O Purged + IS/SS
MS Integration Params: VOC.P

TIC: MB1.D
Vial: 6
Operator: DGS-RLD
Inst : VMS3
Multiplr: 1.00

Quantitation Time: Mar 15 10:31:42 2021 Results File: W031121.RES

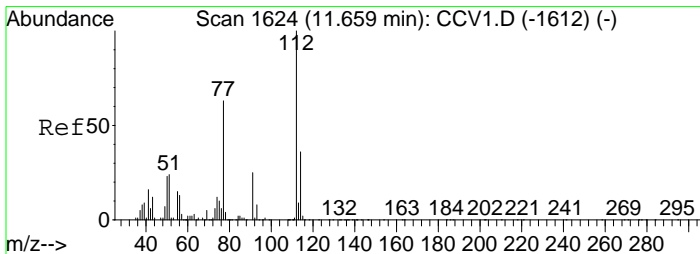
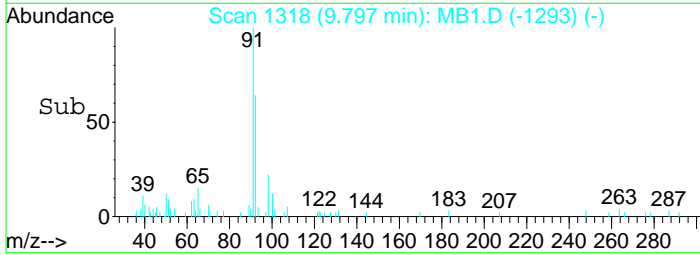
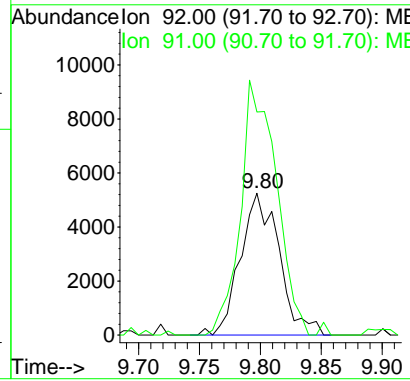
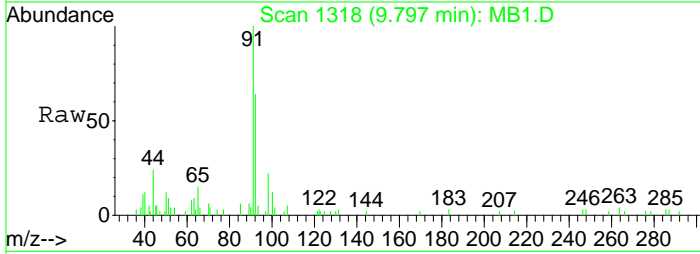
Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 12 07:06:57 2021
Response via : Initial Calibration
DataAcq Meth : W031121.M





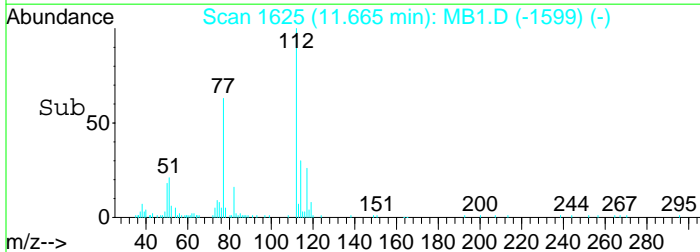
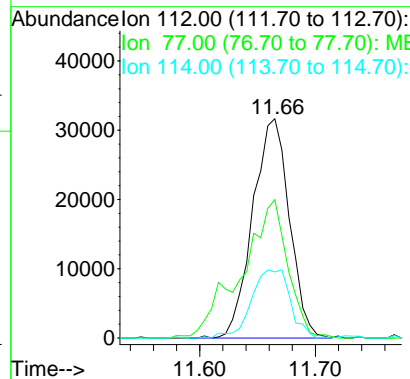
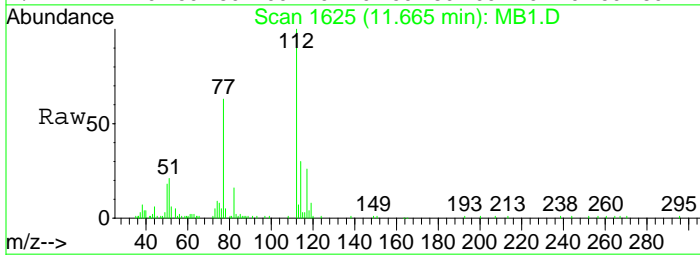
#62
 Toluene
 Concen: 0.26 ug/L
 RT: 9.80 min Scan# 1318
 Delta R.T. 0.00 min
 Lab File: MB1.D
 Acq: 15 Mar 2021 10:11

Tgt Ion:	Resp:	Lower	Upper
92	11666		
91	165.3	145.4	185.4



#72
 Chlorobenzen
 Concen: 0.99 ug/L
 RT: 11.66 min Scan# 1625
 Delta R.T. 0.01 min
 Lab File: MB1.D
 Acq: 15 Mar 2021 10:11

Tgt Ion:	Resp:	Lower	Upper
112	69733		
77	79.7	44.1	84.1
114	33.1	13.3	53.3



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1521\CCVF-LCSD1.D Vial: 25
 Acq On : 15 Mar 2021 19:28 Operator: DGS-RLD
 Sample : 180026,LCSDW, Inst : VMS3
 Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
 MS Integration Params: VOC.P

Quant Time: Mar 15 19:49:20 2021 Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
						Rcv (Ar)
1) FLUOROBENZENE**ISTD**	7.70	96	1348015	20.00	ug/L	0.00
68) d5-CHLOROENZENE**ISTD**	11.62	117	1147087	20.00	ug/L	0.00
82) d4-1,4-DICHLOROENZENE**IS	14.92	152	650386	20.00	ug/L	0.00

System Monitoring Compounds

41) SURRDibrflma	6.86	113	358389	20.236	ug/L	0.00
Spiked Amount	20.000	Range	90 - 110	Recovery	= 101	%
45) SURR12DCAd4	7.27	102	91866	19.133	ug/L	0.00
Spiked Amount	20.000	Range	89 - 111	Recovery	= 96	%
61) SURRD8Tolule	9.71	98	1362580	20.113	ug/L	0.00
Spiked Amount	20.000	Range	93 - 107	Recovery	= 101	%
83) SURR4BrFBenz	13.25	95	618952	20.674	ug/L	0.00
Spiked Amount	20.000	Range	83 - 111	Recovery	= 103	%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodi	1.84	85	159251	9.0419	ug/L	100
3) Chloromethan	2.08	50	200213	9.7706	ug/L	97
4) VinylChlorid	2.25	62	202956	10.1362	ug/L	98
5) Bromomethane	2.70	94	111091	9.5265	ug/L	95
6) Chloroethane	2.88	64	139611	10.1595	ug/L	99
7) Dichloroflmethane	3.19	67	352467	10.0841	ug/L	100
8) Trichlorofma	3.27	101	279219	10.8435	ug/L	99
9) Ethylether	3.71	59	145772	9.5941	ug/L	98
10) dichlorotfluoroethan	3.73	67	194027	10.8435	ug/L	99
11) propyleneoxide	3.76	58	321546	92.2394	ug/L	96
12) Acrolein	3.84	56	149603	49.8521	ug/L	97
13) 11dichlorothe	3.99	96	166252	10.2669	ug/L	95
14) Trichlorotfluoroeth	4.04	101	305403	22.0661	ug/L	99
15) Acetone	4.06	43	619953	94.8231	ug/L	99
16) Iodomethane	4.16	142	324692	19.1563	ug/L	99
17) Carbon Dislf	4.26	76	828478	21.2261	ug/L	100
18) allylchloride	4.48	41	538195	20.1373	ug/L	99
19) methylacetate	4.53	74	40978	8.5796	ug/L	92
20) Methylchlorid	4.63	84	196701	9.8442	ug/L	97
21) tbutylalcohol	4.83	59	924308	482.8586	ug/L	100
22) Acrylonitrile	4.94	53	379436	48.3579	ug/L	95
23) t12dichlorote	5.01	96	182295	10.0456	ug/L	96
24) MtBE	5.05	73	464274	10.0650	ug/L	99
25) Hexane	5.41	57	541987	21.3143	ug/L	98
26) 11dichlorota	5.54	63	316989	10.0859	ug/L	99
27) Vinylacetate	5.63	43	1165016	32.3084	ug/L	90
28) chloroprene	5.67	53	581955	21.3928	ug/L	99
29) Diisopether	5.68	45	547201	9.8999	ug/L	97
30) ETBE	6.14	59	448866	10.0033	ug/L	98
31) 22dichloropr	6.27	77	185618	8.7212	ug/L	96
32) c12dichlorote	6.27	96	196693	9.6899	ug/L	98
33) 2Butanone	6.29	72	258323	94.8515	ug/L	98
34) propionitrile	6.32	54	330165	97.0492	ug/L	99
35) Ethylacetate	6.39	88	41617	43.4329	ug/L	99
36) methacrylonitrile	6.54	67	188599	18.7995	ug/L	92
37) Bromochloroma	6.55	128	90160	9.8471	ug/L	97
38) Tetrahydrofur	6.64	42	630474	98.2080	ug/L	99

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

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1521\CCVF-LCSD1.D Vial: 25
 Acq On : 15 Mar 2021 19:28 Operator: DGS-RLD
 Sample : 180026,LCSDW, Inst : VMS3
 Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
 MS Integration Params: VOC.P

Quant Time: Mar 15 19:49:20 2021 Results File: W031121.RES

Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)

Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Chloroform	6.67	83	316701	10.0835	ug/L	99
40) 111trichlota	6.91	97	251994	10.3921	ug/L	99
42) Cyclohexane	7.00	56	297777	11.0850	ug/L	99
43) Carbtetracl	7.13	119	196234	10.1200	ug/L	98
44) 11dicloprope	7.11	110	95656	10.4936	ug/L	97
46) Benzene	7.36	78	743067	10.2269	ug/L	99
47) 12dichlorota	7.36	62	244828	9.9186	ug/L	99
48) TAME	7.53	73	445743	10.0980	ug/L	92
49) trichloroete	8.17	95	221189	11.6916	ug/L	99
50) methylcyclohexane	8.44	83	370426	10.7899	ug/L	98
51) 12dicloropra	8.43	63	200697	9.8152	ug/L	100
52) 23Dicl1propene	8.49	75	273393	9.9007	ug/L	98
53) Dibromometha	8.57	93	113605	9.6311	ug/L	99
54) methylmethacrylate	8.60	69	141246	9.3705	ug/L	96
55) 14dioxane	8.61	88	133731	446.8655	ug/L	99
56) Bromodiclma	8.77	83	227257	9.8264	ug/L	99
57) 2Nitropropane	9.04	43	401256	80.5949	ug/L	98
58) 2CLEVE	9.16	63	659212	51.5663	ug/L	97
59) c13dicloproe	9.35	75	265716	9.2504	ug/L	99
60) 4Meth2Pentan	9.55	43	1766013	96.3513	ug/L	99
62) Toluene	9.80	92	477597	10.1030	ug/L	98
63) t13Dicloprop	10.05	75	221384	9.7406	ug/L	98
64) ethylmethacrylate	10.20	69	504347	20.3232	ug/L	97
65) 112Triclotha	10.29	83	141243	9.6743	ug/L	97
66) Tetrachlorte	10.53	166	207898	10.0858	ug/L	98
67) 13Diclorpropa	10.52	76	298166	9.8595	ug/L	97
69) 2Hexanone	10.64	43	1351860	100.6227	ug/L	99
70) Clorodibrmta	10.82	129	166066	9.7625	ug/L	99
71) 12Dibrometha	10.97	107	169517	9.8228	ug/L	99
72) Chlorobenzen	11.66	112	504418	9.6801	ug/L	100
73) 1Clhexane	11.64	91	240241	9.9765	ug/L	99
74) 1112Tetclota	11.77	131	149010	9.3524	ug/L	99
75) Ethylbenzene	11.82	91	825424	10.1008	ug/L	100
76) m p-Xylene	11.99	106	643940	19.6951	ug/L	94
77) o-Xylene	12.53	106	316160	9.9309	ug/L	96
78) Styrene	12.55	104	526080	10.1473	ug/L	100
79) Bromoform	12.78	173	108564	8.9132	ug/L	96
80) Isopropylben	13.06	105	775717	10.0135	ug/L	98
81) cyclohexanone	13.14	55	150124	159.2180	ug/L	95
84) Bromobenzene	13.47	156	211379	9.5922	ug/L	98
85) 1122Tetrclta	13.44	83	190580	7.7416	ug/L	97
86) 123Tric1proa	13.50	75	279245	9.5150	ug/L	97
87) 14dichloro2butene	13.52	53	59703	8.2296	ug/L	96
88) n-Propylbenz	13.64	91	934527	9.8676	ug/L	99
89) 2chlorotolue	13.75	91	560506	10.0279	ug/L	99
90) 4chlorotolue	13.91	91	651618	10.2368	ug/L	100
91) 135Trimetbenz	13.90	105	667120	10.2400	ug/L	100
92) tbutylbenzen	14.37	119	579056	10.0829	ug/L	99
93) 124Trimetben	14.43	105	671576	10.6729	ug/L	99
94) sbutylbenzen	14.69	105	830278	9.8507	ug/L	98
95) 13Diclorbenz	14.83	146	379695	9.7375	ug/L	99
96) pIsopropylto	14.90	119	713554	10.3435	ug/L	98
97) 14dichlorobe	14.96	146	385532	9.7202	ug/L	96
98) 12dichlorobe	15.49	146	356406	9.7321	ug/L	99
99) nButylbenzen	15.50	91	627550	10.0737	ug/L	99
100) 12dibromo3cl	16.59	157	38012	8.3670	ug/L	87
101) 135Trichlorobenzene	16.92	180	254059	10.1186	ug/L	97

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1521\CCVF-LCSD1.D Vial: 25
 Acq On : 15 Mar 2021 19:28 Operator: DGS-RLD
 Sample : 180026,LCSDW, Inst : VMS3
 Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
 MS Integration Params: VOC.P

Quant Time: Mar 15 19:49:20 2021 Results File: W031121.RES

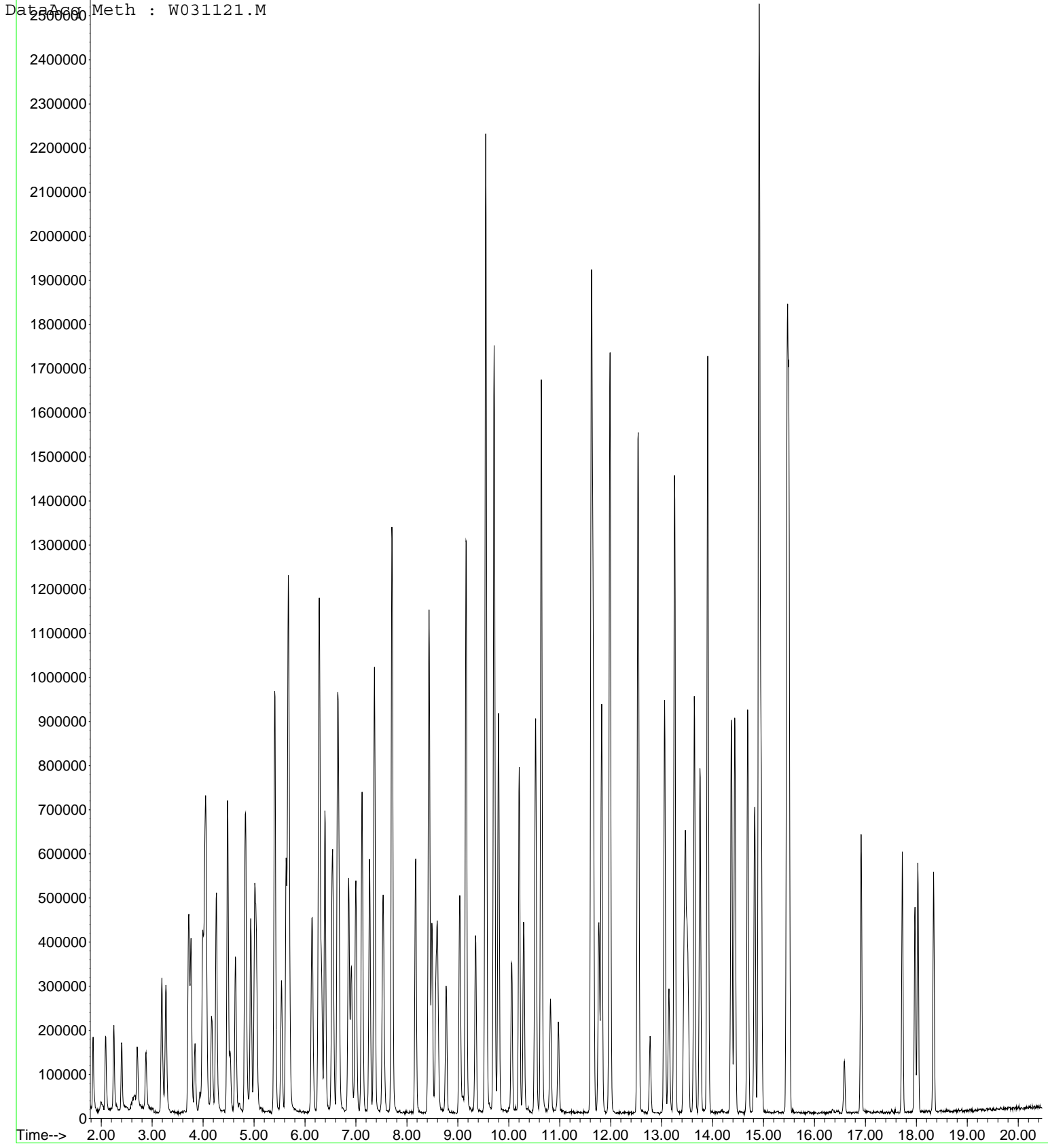
Quant Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
 Title : 8260C Waters Method
 Last Update : Fri Mar 12 07:06:57 2021
 Response via : Initial Calibration
 DataAcq Meth : W031121.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.72	180	214694	9.9795	ug/L	99
103) Hexachlorobu	17.97	225	105545	9.1790	ug/L	97
104) Naphthalene	18.03	128	520708	10.2216	ug/L	99
105) 123Trichlben	18.34	180	200573	10.0228	ug/L	97

Quantitation Report
TIC: CCVF-LCSD1.D
Date: 2021-03-15 19:49:20
Vial: 25
Acq On: 15 Mar 2021 19:28
Operator: DGS-RLD
Sample: 180026, LCSDW,
Inst: VMS3
Misc: 10.0/100 ug/L, 5.0 mL Purged + IS/SS
Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 15 19:49:20 2021 Results File: W031121.RES

Quant Method: C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
Title: 8260C Waters Method
Last Date: Fri Mar 12 07:06:57 2021
Response via: Initial Calibration
Data File: W031121.M



**VOLATILE ORGANIC ANALYSIS
LOGBOOK
DOCUMENTS**

VOC 8260 QSM WATER Analytical Run
 # 179961 on 03/18/2021

Date Analyzed: _____

Date Reviewed: _____

Date Entered: _____

Date Validated: _____

COC	ORDER	SAMPLE DECRPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	542339						VOC 8260 QSM WATER				
	541184			BFB			VOC 8260 QSM WATER	0			
	541197			LCSW			VOC 8260 QSM WATER	0			
	541200			CCV			VOC 8260 QSM WATER	0			
160295	540259		03/10/2021	MBW	TETRA TECH	MARTINIZING DRY CLEANERS SITE	VOC 8260 QSM	0	M		4
	541588	TRIP BLANK					VOC 8260 QSM WATER				
	542338			LCSDW 541184			VOC 8260 QSM WATER	0			
	541632			BFB			VOC 8260 QSM WATER	0			
	541710			CCV			VOC 8260 QSM WATER	0			
				CCB			VOC 8260 QSM WATER	0			
160295	540257		03/10/2021 0950		TETRA TECH	MARTINIZING DRY CLEANERS SITE	VOC 8260 QSM		GW		4
160295	540258	MDC-1216-SUMP-20210310	03/10/2021 1450		TETRA TECH	MARTINIZING DRY CLEANERS SITE	VOC 8260 QSM		GW		4
		MDC-1219-SUMP2-20210310									
11	SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC										

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

Distribution: Volatiles

C:\LIMSREPS\ANALYTICALRUN.RPT

Page 1 of 1

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\W031121.M (RTE Integrator)
 Title : 8260C Waters Method
 Start (Tune) File ID : C:\INSTARCH\DATA\MAR1521\BFB1.D
 Injection Date : 15 Mar 2021 Log Time Period (hrs) : ALL
 Injection Time : 07:57 Total files within period : 31
 Sample Directory : C:\INSTARCH\DATA\MAR1521\

Injection Log Summary Table

File ID	Multiplier			Sample Name Misc Info	Date	Time
	I	S	T			
IB1	1.00	1.00	1.00	INSTRUMENT BLANK 5.0 mL DI H20 Purged + IS	15 Mar 2021	08:13
CCV-LCS1	1.00	1.00	1.00	180026,LCSW, 10.0/100 ug/L, 5.0 mL Pur	15 Mar 2021	08:42
IB2	1.00	1.00	1.00	INSTRUMENT BLANK 5.0 mL DI H20 Purged + IS	15 Mar 2021	09:41
MB1	1.00	1.00	1.00	180026,MBW, pH<2,5.0 mL DI H20 Purged	15 Mar 2021	10:11
540259	1.00	1.00	1.00	179961,540259, pH<2,5.0 mL Purged + IS/	15 Mar 2021	11:38
540257	1.00	1.00	1.00	179961,540257,100 pH<2,5.0 mL Purged + IS/	15 Mar 2021	16:32
540258	1.00	1.00	1.00	179961,540258,100 pH<2,5.0 mL Purged + IS/	15 Mar 2021	17:02
CCVF-L~1	1.00	1.00	1.00	180026,LCSW, 10.0/100 ug/L, 5.0 mL Pur	15 Mar 2021	19:28
BFB2	1.00	1.00	1.00	179961,BFB, 50 ng Inj.	16 Mar 2021	07:33
IB3	1.00	1.00	1.00	INSTRUMENT BLANK 5.0 mL DI H20 Purged + IS	16 Mar 2021	07:50
CCV2	1.00	1.00	1.00	179961,LCSW, 10.0/100 ug/L, 5.0 mL Pur	16 Mar 2021	08:20
IB4	1.00	1.00	1.00	INSTRUMENT BLANK 5.0 mL DI H20 Purged + IS	16 Mar 2021	08:49
CCB1	1.00	1.00	1.00	179961,CCB, pH<2,5.0 mL DI H20 Purged	16 Mar 2021	09:18
540257R	1.00	1.00	1.00	179961,540257, pH<2,5.0 mL Purged + IS/	16 Mar 2021	09:48
540258R	1.00	1.00	1.00	179961,540258, pH<2,5.0 mL Purged + IS/	16 Mar 2021	10:18

8260 ISTD/SSTD 20ug/ml VOC0810
 8260 BFB STD. 50ug/ml VOC0809
 8260 ICV STD. 100ug/ml VOC0811
 8260 CCV/CALIB. 100ug/ml VOC0812

pl_i log
Injection Log Summary Report

Method : C:\INSTARCH\METHODS\W031121.M
 Title : 8260C Waters Method
 Start (Tune) File ID : C:\INSTARCH\DATA\MAR1121\BFB1.D
 Injection Date : 11 Mar 2021 Log Time Period (hrs) : ALL
 Injection Time : 10:32 Total files within period : 16
 Sample Directory : C:\INSTARCH\DATA\MAR1121\

Injection Log Summary Table

File ID	Multiplier		T	Sample Name Misc Info	Date	Time
	I	S				
WCAL1	1.00	1.00	1.00	INITIAL CALIB. PT1 0.5/5.0 ug/L, 5.0 mL	11 Mar 2021	11:46
WCAL2	1.00	1.00	1.00	INITIAL CALIB. PT2 1.00/10.00 ug/L, 5.0	11 Mar 2021	12:15
WCAL3	1.00	1.00	1.00	INITIAL CALIB. PT3 2.00/20.0 ug/L, 5.0	11 Mar 2021	12:45
WCAL4	1.00	1.00	1.00	INITIAL CALIB. PT4 5.00/50.0 ug/L, 5.0	11 Mar 2021	13:14
WCAL5	1.00	1.00	1.00	INITIAL CALIB. PT5 10.0/100.0 ug/L, 5.0	11 Mar 2021	13:44
WCAL6	1.00	1.00	1.00	INITIAL CALIB. PT6 20.0/200.0 ug/L, 5.0	11 Mar 2021	14:13
WCAL7	1.00	1.00	1.00	INITIAL CALIB. PT7 30.0/300.0 ug/L, 5.0	11 Mar 2021	14:43
WCAL8	1.00	1.00	1.00	INITIAL CALIB. PT8 40.0/400.0 ug/L, 5.0	11 Mar 2021	15:12
WCAL9	1.00	1.00	1.00	INITIAL CALIB. PT9 80.0/800.0 ug/L, 5.0	11 Mar 2021	15:41
ICV1	1.00	1.00	1.00	INITIAL CALIB. VERIF 10.0/100 ug/L, 5.0 m	11 Mar 2021	16:40
ICV2	1.00	1.00	1.00	INITIAL CALIB. VERIF 30.0/300 ug/L, 5.0 m	11 Mar 2021	17:10
ICB1	1.00	1.00	1.00	INITIAL CALIB. BLANK 5.0 mL DI H2O Purged	11 Mar 2021	18:08

8260 ISTD/SSTD 20ug/ml VOC0810
 8260 BFB STD. 50ug/ml VOC0809
 8260 ICV STD. 100ug/ml VOC0811
 8260 CCV/CALIB. 100ug/ml VOC0812

FVO4-01 Data Review Checklist

FORM #: FVO4-01
Rev. #: 2.2
Effective Date: 08/05/19

INDEPENDENT DATA REVIEW CHECKLIST				Method: GCMS (EPA SW-846 8260C)				
Analysis Date	LIMS Run #(s):	Analyst/Data Interpreter	Independent Reviewer	Date of Review	Approved?		Instrument	
					Yes	No		
03/15/2021	180026 180019 179961	DGS	RLD	03/18/2021	Yes		VMS3	
Instructions: Complete one checklist per <i>analytical sequence</i> . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section and may require the initiation of a Nonconformance Report.								
Requirement		Acceptance Criteria		Analyst Review		Independent Review		Comments
				Yes	No	Yes	No	
I. BFB Tune Check								
Was a BFB tune check analyzed with acceptable results?		Relative abundance criteria met?		Yes		Yes		
II. Initial Calibration Verification (ICV)								
Was initial calibration performed using a minimum of five standard concentration levels (minimum of 6 levels for quadratic curves)?		Lowest standard at or below RL?		Yes		Yes		
Were the Average Relative Response Factors (ARRF) acceptable?		ARRF ≤ specified limits (<15%D.) see SOP		Yes		Yes		
Was a second-source ICV(s) analyzed (for Quadratic Curve)?		Required before sample analyses.		Yes		Yes		
Were all target compound %Deviation or %Drift acceptable?		%D < 20% or project/program specific		Yes		Yes		
Was Initial Calibration Blank (ICB) analyzed?		Required before sample analyses.		Yes		Yes		
Were the ICB results for all target analytes less than the limit of detection (LOD).		<LOD or < project/program specific limits			No		No	
III. Continuing Calibration Verification (CCV)								
Was an acceptable BFB tune check run at the beginning of every twelve hour shift?		Relative abundance criteria met?		Yes		Yes		
Was a CCV analyzed after every 12 hour tune check?		Required before sample analyses.		Yes		Yes		
Was a second CCV (CCV2) for compounds calibrated using quadratic curves analyzed after every 12 hour tune check?		Required before analyses of WI samples (above the inflection point of the curve).		Yes		Yes		
Were all target compound %Deviation or %Drift acceptable?		%D < 20% or project/program specific		Yes		Yes		
If necessary, were the results for outlying compounds qualified?								

IV. Blanks						
Was a Method Blank (MB) analyzed prior to analysis of samples?	1 per 20 samples or project/program specific.	Yes		Yes		
Were the MB results for all target analytes less than the limit of detection (LOD)?	*All target analytes <LOD or < project/program specific limits (<1/2 RL for DoD-QSM)		No		No	Affected compounds were B flagged
If analytes were detected in the MB with no associated positives in the samples, no further action is needed. If the analyte detects in the MB were greater than the acceptance criteria and there were detects in the samples, was the data qualified.?		Yes		Yes		
V. Laboratory Control Spike (LCS)						
Was a LCS (and LCSD if needed) analyzed at the required frequency?	1 per 20 samples or project/program specific.	Yes		Yes		
Were the LCS (LCSD) recoveries for all analytes within acceptance criteria?	Default 70-130%, or see internally generated limits, or project/program specified limits.	Yes		Yes		
If applicable, were associated sample detects (and non-detects for low recoveries) qualified?						
Is the relative percent difference (RPD) for each analyte between the LCS and LCSD (if applicable) acceptable?	Default 20%, or see internally generated limits, or client specific limits.	Yes		Yes		
VI. Matrix Spike/Matrix Spike Duplicate (MS/MSD)						
Was a Martrix Spike (MS) and a Matrix Spike Duplicate (MSD) analyzed at the required frequency?	1 per 20 samples or project/program specific.	Yes		Yes		
Were the MS/MSD recoveries for all analytes within acceptance criteria?	Default 70-130%, or see internally generated limits, or project/program specified limits.		No		No	Affected compounds were M flagged
Is the relative percent difference (RPD) for each analyte between the MS and MSD acceptable?	Default 20%, or see internally generated limits, or client specific limits.		No		No	Affected compounds were Y flagged
VII. Sample Analyses						
Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		Yes		Yes		
Were surrogate recoveries for all samples and QC within acceptance criteria?	Default 70-130%, or see internally generated program limits, or client specified limits.	Yes		Yes		
If possible, were the affected samples reanalyzed?						
**Were reported sample results with failing surrogate recoveries qualified?						
Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed? If not qualify (X).	Target upper middle range of calibration curve.	Yes		Yes		
Did all samples meet hold time and preservation criteria as defined by method/program?	H2O sample: pH < 2 = 14 days, pH >2 = 7 days. Soil samples: 14 days (other criteria may apply)	Yes		Yes		
Were all samples and QC injected within 12 hours of BFB tune check?		Yes		Yes		
Were internal standard recoveries acceptable relevant to associated ICAL?	Response = -50 to +200%; Ret. time = +/- 30 sec.	Yes		Yes		

VIII. Records and Reporting						
Is sequence file / injection log present in the data package?		Yes		Yes		
Were all data, calculations, and values verified in LIMS (including removal of non-detections) upon completion of data capture?		Yes		Yes		
Were manual integrations performed correctly?	Manual integration must be initialed, dated, and reason given, along with before & after chromatograms.	Yes		Yes		
Was the rational for the manual integration verified?		Yes		Yes		
Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, were any non-matrix related nonconformities documented in the NCR spreadsheet?		Yes		Yes		

Non-Applicable Yes/No Cells Are Left Blank

Comments:

LPVO1_04_VOC
Volatiles Standard Prep Logbook
Issued 05/19/2020

NOTEBOOK VIEW: LTN_LPVO1_04_VOC_Default, NOTEBOOK: LPVO1_04_VOC, PAGE: 40

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Author: rdigmann on: 3/18/2021 10:16:31 AM

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Project: Unassigned

Page Title: 031621

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0816	8260 ICV/Spiking Std.	150uL of 2,000 ug/mL VOC Mix V0969 , 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0971 , and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0973 into 2250uL of MeOH.	MeOH / B&J / DZ644-US	100 ug/mL	03/16/2021	03/23/2021	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0817	8260 CCV/Calib. Std.	150uL of 2,000 ug/mL VOC Mix V0970 , 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0972 , and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0974 into 2250uL of MeOH.	MeOH / B&J / DZ644-US	100 ug/mL	03/16/2021	03/23/2021	RLD

1

CT Laboratories, LLC

LPVO1_04_VOC
Volatiles Standard Prep Logbook
Issued 05/19/2020

NOTEBOOK VIEW: LTN_LPVO1_04_VOC_Default, NOTEBOOK: LPVO1_04_VOC, PAGE: 37

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Author: rdigmann on: 3/18/2021 10:14:58 AM

Page is not Witnessed

Project: Unassigned

Page Title: 030421

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0809	8260 BFB Std.	75uL of 2,000 ug/mL 4-Bromofluorobenzene Std. V0964 into 2925uL of MeOH.	MeOH / B&J / DZ644-US	50 ug/mL	03/04/2021	04/04/2021	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0810	8260 ISTD/SSTD	200uL of 2,500 ug/mL 8260 Istd./Sstd. Mix V0944 and 250uL of 2000 ug/mL 1,2-Dichlorobenzene-d ₄ Std. V0945 into 25mL of MeOH.	MeOH / B&J / DZ644-US	20 ug/mL	03/04/2021	04/04/2021	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0811	8260 ICV/Spiking Std.	150uL of 2,000 ug/mL VOC Mix V0969, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0971, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0973 into 2250uL of MeOH.	MeOH / B&J / DZ644-US	100 ug/mL	03/04/2021	03/11/2021	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0812	8260 CCV/Calib. Std.	150uL of 2,000 ug/mL VOC Mix V0970, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0972, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0974 into 2250uL of MeOH.	MeOH / B&J / DZ644-US	100 ug/mL	03/04/2021	03/11/2021	RLD

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CT Laboratories, LLC

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0807	8260 ICV/Spiking Std.	150uL of 2,000 ug/mL VOC Mix V0969 , 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0971 , and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0973 into 2250uL of MeOH.	MeOH / DZ644-US	100 ug/mL	02/23/2021	03/02/2021	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0808	8260 CCV/Calib. Std.	150uL of 2,000 ug/mL VOC Mix V0970 , 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0972 , and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0974 into 2250uL of MeOH.	MeOH / DZ644-US	100 ug/mL	02/23/2021	03/02/2021	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0803	8260 BFB Std.	75uL of 2,000 ug/mL 4-Bromofluorobenzene Std. V0964 into 2925uL of MeOH.	MeOH / B&J / DZ644-U	50 ug/mL	02/10/2021	03/10/2021	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0804	8260 ISTD/SSTD	200uL of 2,500 ug/mL 8260 Istd./Sstd. Mix V0944 and 250uL of 2000 ug/mL 1,2-Dichlorobenzene-d ₄ Std. V0945 into 25mL of MeOH.	MeOH / B&J / DZ644-U	20 ug/mL	02/10/2021	03/10/2021	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0805	8260 ICV/Spiking Std.	150uL of 2,000 ug/mL VOC Mix V0969, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0971, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0973 into 2250uL of MeOH.	MeOH / B&J / DZ644-U	100 ug/mL	02/10/2021	02/17/2021	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0806	8260 CCV/Calib. Std.	150uL of 2,000 ug/mL VOC Mix V0970, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0972, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0974 into 2250uL of MeOH.	MeOH / B&J / DZ644-U	100 ug/mL	02/10/2021	02/17/2021	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0801	8260 ICV/Spiking Std.	150uL of 2,000 ug/mL VOC Mix V0969 , 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0971 , and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0973 into 2250uL of MeOH.	MeOH / B&J / DX932-U	100 ug/mL	01/27/2021	02/03/2021	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0802	8260 CCV/Calib. Std.	150uL of 2,000 ug/mL VOC Mix V0970 , 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0972 , and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0974 into 2250uL of MeOH.	MeOH / B&J / DX932-U	100 ug/mL	01/27/2021	02/03/2021	RLD

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0982	VOC 8260 Additions	SPEX CertiPrep	VO-CTWI-12	AA210309012
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 10,000 ug/mL	MeOH	06/07/2021	03/17/2021	RLD
# of Ampules/Units:	2	Comments:	Used to prepare 8260 ICV standard.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0983	VOC 8260 Additions	SPEX CertiPrep	VO-CTWI-12	CP210309007
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 10,000 ug/mL	MeOH	06/07/2021	03/17/2021	RLD
# of Ampules/Units:	2	Comments:	Used to prepare 8260 CCV standard.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0984	4-Bromofluorobenzene	Agilent	STS-110N	0006476760
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
2,000 ug/mL	MeOH	07/31/2022	03/18/2021	RLD
# of Ampules/Units:	4	Comments:	Used to prepare 8260 tuning standard and 8021 surrogate standard.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0978	1,2-Dichlorobenzene-d ₄	Agilent	STS-210-1	0006552847
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
2,000 ug/mL	MeOH	09/30/2024	01/14/2021	RLD
# of Ampules/Units:	4	Comments:	Used for 8015/8260 SSTD preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0973	VOC 8260 Special Additions	SPEX CertiPrep	VO-CTWI-5	AA201211006
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 50,000 ug/mL	MeOH	06/09/2021	12/15/2020	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 ICV/Spiking Std. preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0974	VOC 8260 Special Additions	SPEX CertiPrep	VO-CTWI-5	AA201210008
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 50,000 ug/mL	MeOH	06/08/2020	12/15/2020	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 CCV/Calib. Std. preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0971	VOC 8260 Additions	SPEX CertiPrep	VO-CTWI-12	CP201210001
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 10,000 ug/mL	MeOH	03/10/2021	12/14/2020	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 ICV/Spiking Std. preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0972	VOC 8260 Additions	SPEX CertiPrep	VO-CTWI-12	AA20120002
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 10,000 ug/mL	MeOH	03/10/2021	12/14/2020	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 CCV/Calib. Std. preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0970	8260 VOC Mix	Agilent	DWM-588-1	0006518400
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
2,000 ug/mL	MeOH	04/30/2023	11/10/2020	RLD
# of Ampules/Units:	4	Comments:	Used for 8260 CCV/Calib. standard preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0969	8260 VOC Mix	AccuStandard	M-502-10X-PAK	220091206
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
2,000 ug/mL	MeOH	09/21/2023	11/25/2020	RLD
# of Ampules/Units:	5	Comments:	Used for 8260 ICV/Spiking standard preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0964	4-Bromofluorobenzene	Agilent	STS-110N	0006476760
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
2,000 ug/mL	MeOH	07/31/2022	09/17/2020	RLD
# of Ampules/Units:	4	Comments:	Used for 8021/8260 ISTD and SSTD mixes.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0949	8260 VOC Mix	Agilent	DWM-588-1	0006518399
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
2,000 ug/mL	MeOH	04/30/2023	04/23/2020	RLD
# of Ampules/Units:	5	Comments:	Used for 8260 CCV/Calib. Standard preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0950	VOC 8260 Additions	SPEX CertiPrep	VO-CTWI-12	EN200424002
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 10,000 ug/mL	MeOH	07/23/2020	04/27/2020	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 ICV/Spiking Standard preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0951	VOC 8260 Additions	SPEX CertiPrep	VO-CTWI-12	AA200424003
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 10,000 ug/mL	MeOH	07/23/2020	04/27/2020	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 CCV/Calib. Standard preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0948	8260 VOC Mix	AccuStandard	M-502-10X-PAK	219111249
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
2,000 ug/mL	MeOH	11/21/2022	04/01/2020	RLD
# of Ampules/Units:	5	Comments:	Used for 8260 ICV/Spiking standard preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0944	8260 ISTD/SSTD Mix	Agilent	STM-540	CT-0055
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
2,500 ug/mL	MeOH	2/28/2022	01/31/2020	RLD
# of Ampules/Units:	4	Comments:	Used for 8260 ISTD/SSTD preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0945	1,2-Dichlorobenzene-d ₄	Agilent	STS-210-1	CM-4301A
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
2,000 ug/mL	MeOH	07/31/2021	01/31/2020	RLD
# of Ampules/Units:	4	Comments:	Used for 524.2 & 8021 IS/SS and SS preparation.	

**CHAIN OF CUSTODY,
PM CONFIRMATION
AND
SAMPLE CONDITION FORMS
DOCUMENTS**

Company: Tetra Tech
Project Contact: Karl Schultze
Telephone: (262) 227-1049
Project Name: Martinizing Dry Cleaning
Project #: 103x90310001B103
Location: Green Bay, WI
Sampled By: Karl Schultze, Sean Spang

CT LABORATORIES

Folder #: 160295
Company: TETRA TECH
Project: MARTINIZING DRY CL
Logged By: ERC PM: BM

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____
PO #

Report To:
EMAIL: KARL.SCHULTZE@TETRA TECH .COM
Company:
Address:
Invoice To:*
EMAIL:
Company:
Address:

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions

> Level 4 data package
> Standard turn around time

ANALYSES REQUESTED

Turnaround Time

Normal RUSH*
Date Needed: _____

Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

Matrix:
GW - groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Filtered? Y/N

VOCs

Total # Containers

Designated MS/MSD

CT Lab ID #
Lab use only

Collection		Matrix	Grab/Comp	Sample #	Sample ID Description	Filtered?	Y/N	Fill in Spaces with Bottles per Test												Total # Containers	Designated MS/MSD	CT Lab ID # Lab use only				
Date	Time																									
3/10	0950	GW	Grab		MDC-1216-sump-20210310	N	✓																	3	540257	
3/10	1450	GW	Grab		MDC-1219-sump2-20210310	N	✓																		3	540258
					Trip Blank	N	✓																		2	540259

Page 1 of 2

Relinquished By:

Date/Time: 3/10/21 11630

Received By: ERC

Date/Time: 3/11/21 1014

Lab Use Only
Ice Present No
Obs. Temp 29 IR Gun 27
Act. Temp 29 Cooler XXX

Received by:

Date/Time: Received for Laboratory by: ERC

Date/Time: 3/11/21 1024

Cooler Receipt Form

Ice Present YES NO
 Observed Temperature 2.9
 Actual Temperature 2.9
 IR Gun # 27
 Initials ERC
 Date 3/10/21 Time 1014
 Cooler #: XXX

GUSTODY SEAL
 DATE 3/10/2021
 SIGNATURE [Signature]
QEC
 Quality Environmental Containers
 800-255-3950 • www.qecusa.com

GUSTODY SEAL
 DATE 3/10/2021
 SIGNATURE [Signature]
QEC
 Quality Environmental Containers
 800-255-3950 • www.qecusa.com

ORIGIN ID:GRBA (000) 000-0000
 TETRA TECH
 1 S WACKER DR STE 3700
 CHICAGO, IL 60606
 UNITED STATES US

SHIP DATE: 10MAR21
 ACTWGT: 9.00 LB
 CAD: 6996699/55F02121
 DIMS: 13x11x10 IN
 BILL THIRD PARTY

TO **103X903100320001B1103**
CT LABORATORIES – SAMPLE RECEIVING
1230 LANGE CT

BARABOO WI 53913

(608) 366-2760
 INU1
 PG1

REF:

DEPT:



FedEx
Express

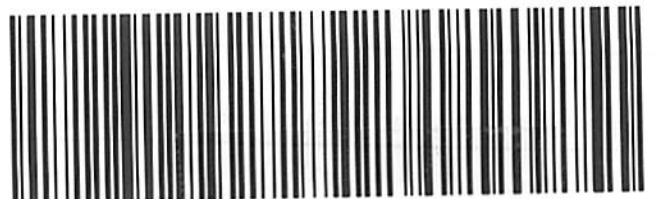


TRK# **7846 0354 5603**
 0201

THU – 11 MAR 10:30A
PRIORITY OVERNIGHT

NA LNRA

AHS
53913
WI-US MSN



Folder #: 160295

Company: TETRA TECH

Project: MARTINIZING DRY CLEANERS SI

Folder #: 160295

PM LOGIN CONFIRMATION

Contract #: 3407

Company: TETRA TECH

Project: MARTINIZING DRY CLEANERS SITE

Proj #: 103X903100320001BI103

Project Phase: GREEN BAY, WI

PO Number: 1168710 / CT-28

Invoice #: 160958

Project Manager: BMS

Date Received: 03/11/21

Log Date: 03/11/2021

Report To: KARL SCHULTZ
2201 E ENTERPRISE AVENUE
SUITE 105
APPLETON, WI 54913
Phone: 262-227-1049
Rep. E-Mail karl.schultz@tetrattech.com

CC:

Invoice To :ACCOUNTS PAYABLE
1 S WACKER DRIVE
SUITE 3700
CHICAGO, IL 60606
Phone:
EMail:

CC: chris.burns@tetrattech.com

Collected By:

Arrival Temperature: 2.9 oC

Collector's Phone: 262-227-1049

SAMPLE #: 540257 DESCR: MDC-1216-SUMP-20210310				PRIMARY / DETAILED MATRIX: AQUEOUS / GROUND WATER			SAMPLED: 03/10/2021			Time: 0950
CLIENT SAMPLE #:				DETAILED SITE/POINT ID INFORMATION:						
TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS	

779	VOC 8260 QSM	(EPA 8260C)		Y		03/24/2021	03/23/2021		Logged
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SAMPLE #: 540258 DESCR: MDC-1219-SUMP2-20210310				PRIMARY / DETAILED MATRIX: AQUEOUS / GROUND WATER			SAMPLED: 03/10/2021			Time: 1450
CLIENT SAMPLE #:				DETAILED SITE/POINT ID INFORMATION:						
TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS	

779	VOC 8260 QSM	(EPA 8260C)		Y		03/24/2021	03/23/2021		Logged
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SAMPLE #: 540259 DESCR: TRIP BLANK				PRIMARY / DETAILED MATRIX: AQUEOUS / TRIP BLANK			SAMPLED: 03/10/2021			
CLIENT SAMPLE #:				DETAILED SITE/POINT ID INFORMATION:						
TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS	

779	VOC 8260 QSM	(EPA 8260C)		Y		03/24/2021	03/23/2021		Logged
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Folder #: 160295

Company: TETRA TECH

Project: MARTINIZING DRY CLEANERS SI

Invoice Number: 160958

Preliminary Invoice Estimate: \$ 180.00

Item	Matrix	Quantity	Price	Expedited TAT Surcharge	Total
VOC 8260 QSM	GROUND WATER	2	\$ 60.00	0.00	\$ 120.00
VOC 8260 QSM	TRIP BLANK	1	\$ 60.00	0.00	\$ 60.00
Temporary Fuel Surcharge on lab supplies and services (if applicable):					\$ 0.00

Bottle Information

Container	# Containers	Tests
VOA HCL	8	VOC

Sample Condition Report

Folder #: 160295	Print Date / Time: 03/11/2021 10:31
Client: TETRA TECH	Received Date / Time / By: 03/11/2021 10:14 ERC
Project Name: MARTINIZING DRY CLEANERS SITE	Log-In Date / Time / By: 03/11/2021 10:29 ERC
Project Phase: GREEN BAY, WI	Project #: 103X903100320001BI103 PM: BMS
Coolers: UNMARKED	Temperature: 2.9C On Ice: Y
Custody Seals Present : Y	COC Present:? Y Complete? Y
Seal Intact? Y	Numbers: DATED AND SIGNED
Ship Method: FEDEX EXPRESS	Tracking Number: 7846 0354 5603
Adequate Packaging: Y	Temp Blank Enclosed? Y

Notes: THE SAMPLES WERE RECEIVED IN GOOD CONDITION ON ICE.

TWO CUSTODY SEALS WERE PRESENT AND INTACT UPON RECEIPT - BOTH WERE DATED 3/10/2021 AND SIGNED.

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
540257 MDC-1216-SUMP-20210310	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 3			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
540258 MDC-1219-SUMP2-20210310	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 3			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
540259 TRIP BLANK	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 2			

Condition Code	Condition Description
1	Sample Received OK