

Cover Page

Order ID : Q1746

Project ID : Amtrak Sawtooth Bridges 2025

Client : Portal Partners Tri-Venture

Lab Sample Number

Q1746-01
Q1746-02
Q1746-03
Q1746-04
Q1746-05
Q1746-06
Q1746-07
Q1746-08

Client Sample Number

B-149-SB01
B-149-SB01
B-149-SB02
B-149-SB02
B-158-GW01
B-149-GW01
EB-2025-4-7
TB-2025-4-7

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 4/14/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Portal Partners Tri-Venture

Project Name: Amtrak Sawtooth Bridges 2025

Project # N/A

Chemtech Project # Q1746

Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:

4 Solid samples were received on 04/07/2025.

4 Water samples were received on 04/07/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TPH GC, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI The analysis performed on instrument MSVOA_Y were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868. The analysis of VOC-TCLVOA-10 was based on method 8260D.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for B-149-SB01 [4-Bromofluorobenzene - 61%] this compound did not meet the NJDKQP criteria but met the in-house criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria.

The Blank Spike met requirements for all samples.

The Blank Spike Duplicate met requirements for all samples.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.



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E. Additional Comments:

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

The soil samples results are based on a dry weight basis.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1746

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 04/14/2025

LAB CHRONICLE

OrderID:	Q1746	OrderDate:	4/7/2025 12:00:00 PM
Client:	Portal Partners Tri-Venture	Project:	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	Location:	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1746-01	B-149-SB01	SOIL	VOC-TCLVOA-10	8260D	04/05/25		04/10/25	04/07/25
Q1746-02	B-149-SB01	TCLP	TCLP VOA	8260D	04/05/25		04/09/25	04/07/25
Q1746-03	B-149-SB02	SOIL	VOC-TCLVOA-10	8260D	04/06/25		04/10/25	04/07/25
Q1746-04	B-149-SB02	TCLP	TCLP VOA	8260D	04/06/25		04/09/25	04/07/25
Q1746-05	B-158-GW01	Water	VOC-TCLVOA-10	8260-Low	04/05/25		04/07/25	04/07/25
Q1746-06	B-149-GW01	Water	VOC-TCLVOA-10	8260-Low	04/06/25		04/07/25	04/07/25
Q1746-07	EB-2025-4-7	Water	VOC-TCLVOA-10	8260-Low	04/07/25		04/08/25	04/07/25
Q1746-08	TB-2025-4-7	Water	VOC-TCLVOA-10	8260-Low	04/07/25		04/07/25	04/07/25

Hit Summary Sheet
SW-846

SDG No.: Q1746
Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	B-149-SB02							
Q1746-03	B-149-SB02	SOIL	Acetone	320		5.90	31.1	ug/Kg
Q1746-03	B-149-SB02	SOIL	Carbon Disulfide	2.40	J	1.30	6.20	ug/Kg
Q1746-03	B-149-SB02	SOIL	2-Butanone	76.3		8.10	31.1	ug/Kg
			Total Voc :		399			
			Total Concentration:		399			
Client ID:	B-158-GW01							
Q1746-05	B-158-GW01	Water	Acetone	17.4		1.50	5.00	ug/L
Q1746-05	B-158-GW01	Water	Chloroform	30.2		0.25	1.00	ug/L
Q1746-05	B-158-GW01	Water	Bromodichloromethane	10.8		0.22	1.00	ug/L
Q1746-05	B-158-GW01	Water	Toluene	24.9		0.14	1.00	ug/L
Q1746-05	B-158-GW01	Water	Dibromochloromethane	5.00		0.18	1.00	ug/L
			Total Voc :		88.3			
Q1746-05	B-158-GW01	Water	Benzene, 1,2,4,5-tetramethyl- *	17.5	J	0	0	ug/L
Q1746-05	B-158-GW01	Water	Azulene *	9.00	J	0	0	ug/L
Q1746-05	B-158-GW01	Water	Benzene, 1,2,3,4-tetramethyl- *	11.1	J	0	0	ug/L
Q1746-05	B-158-GW01	Water	Benzene, 1-methyl-3-(1-methyl *	11.9	J	0	0	ug/L
Q1746-05	B-158-GW01	Water	Benzene, 4-ethyl-1,2-dimethyl- *	6.10	J	0	0	ug/L
Q1746-05	B-158-GW01	Water	Benzene, 2-ethyl-1,4-dimethyl- *	5.60	J	0	0	ug/L
Q1746-05	B-158-GW01	Water	Benzene, 2-ethenyl-1,4-dimethyl- *	16.0	J	0	0	ug/L
			Total Tics :		77.2			
			Total Concentration:		166			
Client ID:	B-149-GW01							
Q1746-06	B-149-GW01	Water	Acetone	12.6		1.50	5.00	ug/L
Q1746-06	B-149-GW01	Water	Carbon Disulfide	1.00		0.21	1.00	ug/L
Q1746-06	B-149-GW01	Water	Methylene Chloride	0.51	J	0.28	1.00	ug/L
Q1746-06	B-149-GW01	Water	Chloroform	26.6		0.25	1.00	ug/L
Q1746-06	B-149-GW01	Water	Bromodichloromethane	11.0		0.22	1.00	ug/L
Q1746-06	B-149-GW01	Water	Toluene	0.92	J	0.14	1.00	ug/L
Q1746-06	B-149-GW01	Water	Dibromochloromethane	6.00		0.18	1.00	ug/L
			Total Voc :		58.6			
			Total Concentration:		58.6			
Client ID:	EB-2025-4-7							
Q1746-07	EB-2025-4-7	Water	Acetone	10.6		1.50	5.00	ug/L
			Total Voc :		10.6			
			Total Concentration:		10.6			



QC SUMMARY

Surrogate Summary

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1746-01	B-149-SB01	1,2-Dichloroethane-d4	50	51.3	103	70 (63)	130 (155)
		Dibromofluoromethane	50	52.8	106	70 (70)	130 (134)
		Toluene-d8	50	48.6	97	70 (74)	130 (123)
		4-Bromofluorobenzene	50	30.4	61 *	70 (38)	130 (136)
Q1746-03	B-149-SB02	1,2-Dichloroethane-d4	50	51.9	104	70 (63)	130 (155)
		Dibromofluoromethane	50	51.6	103	70 (70)	130 (134)
		Toluene-d8	50	48.9	98	70 (74)	130 (123)
		4-Bromofluorobenzene	50	37.5	75	70 (38)	130 (136)
VY0410SBL01	VY0410SBL01	1,2-Dichloroethane-d4	50	46.6	93	70 (63)	130 (155)
		Dibromofluoromethane	50	49.9	100	70 (70)	130 (134)
		Toluene-d8	50	48.5	97	70 (74)	130 (123)
		4-Bromofluorobenzene	50	38.3	77	70 (38)	130 (136)
VY0410SBS01	VY0410SBS01	1,2-Dichloroethane-d4	50	49.2	98	70 (63)	130 (155)
		Dibromofluoromethane	50	53.4	107	70 (70)	130 (134)
		Toluene-d8	50	54.3	109	70 (74)	130 (123)
		4-Bromofluorobenzene	50	53.3	107	70 (38)	130 (136)
VY0410SBSD01	VY0410SBSD01	1,2-Dichloroethane-d4	50	48.5	97	70 (63)	130 (155)
		Dibromofluoromethane	50	50.9	102	70 (70)	130 (134)
		Toluene-d8	50	51.4	103	70 (74)	130 (123)
		4-Bromofluorobenzene	50	50.7	101	70 (38)	130 (136)

Surrogate Summary

SDG No.: **Q1746**

Client: **Portal Partners Tri-Venture**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1746-05	B-158-GW01	1,2-Dichloroethane-d4	50	55.9	112	70 (74)	130 (125)
		Dibromofluoromethane	50	52.1	104	70 (75)	130 (124)
		Toluene-d8	50	51.5	103	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.6	103	70 (77)	130 (121)
Q1746-06	B-149-GW01	1,2-Dichloroethane-d4	50	55.7	111	70 (74)	130 (125)
		Dibromofluoromethane	50	51.5	103	70 (75)	130 (124)
		Toluene-d8	50	49.9	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.3	99	70 (77)	130 (121)
Q1746-07	EB-2025-4-7	1,2-Dichloroethane-d4	50	55.4	111	70 (74)	130 (125)
		Dibromofluoromethane	50	51.8	104	70 (75)	130 (124)
		Toluene-d8	50	51.0	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.1	104	70 (77)	130 (121)
Q1746-08	TB-2025-4-7	1,2-Dichloroethane-d4	50	57.9	116	70 (74)	130 (125)
		Dibromofluoromethane	50	52.4	105	70 (75)	130 (124)
		Toluene-d8	50	50.6	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.7	103	70 (77)	130 (121)
VX0407WBL01	VX0407WBL01	1,2-Dichloroethane-d4	50	56.0	112	70 (74)	130 (125)
		Dibromofluoromethane	50	52.1	104	70 (75)	130 (124)
		Toluene-d8	50	51.0	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.6	103	70 (77)	130 (121)
VX0407WBS01	VX0407WBS01	1,2-Dichloroethane-d4	50	50.8	102	70 (74)	130 (125)
		Dibromofluoromethane	50	50.0	100	70 (75)	130 (124)
		Toluene-d8	50	49.8	99	70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.4	101	70 (77)	130 (121)
VX0407WBSD0	VX0407WBSD01	1,2-Dichloroethane-d4	50	50.7	101	70 (74)	130 (125)
		Dibromofluoromethane	50	50.8	102	70 (75)	130 (124)
		Toluene-d8	50	51.0	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.6	105	70 (77)	130 (121)
VX0408WBL01	VX0408WBL01	1,2-Dichloroethane-d4	50	55.5	111	70 (74)	130 (125)
		Dibromofluoromethane	50	52.7	105	70 (75)	130 (124)
		Toluene-d8	50	51.4	103	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.9	104	70 (77)	130 (121)
VX0408WBS01	VX0408WBS01	1,2-Dichloroethane-d4	50	47.7	95	70 (74)	130 (125)
		Dibromofluoromethane	50	47.4	95	70 (75)	130 (124)
		Toluene-d8	50	47.7	95	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.7	97	70 (77)	130 (121)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VX045617.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0407WBS01	Dichlorodifluoromethane	20	19.8	ug/L	99			40 (69)	160 (116)	
	Chloromethane	20	17.5	ug/L	88			40 (65)	160 (116)	
	Vinyl chloride	20	18.0	ug/L	90			70 (65)	130 (117)	
	Bromomethane	20	17.6	ug/L	88			40 (58)	160 (125)	
	Chloroethane	20	19.5	ug/L	98			40 (56)	160 (128)	
	Trichlorofluoromethane	20	18.6	ug/L	93			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	18.5	ug/L	93			70 (80)	130 (112)	
	1,1-Dichloroethene	20	17.5	ug/L	88			70 (74)	130 (110)	
	Acetone	100	90.4	ug/L	90			40 (60)	160 (125)	
	Carbon disulfide	20	16.7	ug/L	84			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	17.6	ug/L	88			70 (78)	130 (114)	
	Methyl Acetate	20	19.3	ug/L	97			70 (67)	130 (125)	
	Methylene Chloride	20	17.7	ug/L	89			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	17.6	ug/L	88			70 (75)	130 (108)	
	1,1-Dichloroethane	20	17.8	ug/L	89			70 (78)	130 (112)	
	Cyclohexane	20	17.2	ug/L	86			70 (75)	130 (110)	
	2-Butanone	100	91.2	ug/L	91			40 (65)	160 (122)	
	Carbon Tetrachloride	20	18.8	ug/L	94			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	17.5	ug/L	88			70 (77)	130 (110)	
	Bromochloromethane	20	20.1	ug/L	101			70 (70)	130 (124)	
	Chloroform	20	18.3	ug/L	92			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	18.0	ug/L	90			70 (80)	130 (108)	
	Methylcyclohexane	20	17.7	ug/L	89			70 (72)	130 (115)	
	Benzene	20	18.0	ug/L	90			70 (82)	130 (109)	
	1,2-Dichloroethane	20	18.7	ug/L	94			70 (80)	130 (115)	
	Trichloroethene	20	18.0	ug/L	90			70 (77)	130 (113)	
	1,2-Dichloropropane	20	18.2	ug/L	91			70 (83)	130 (111)	
	Bromodichloromethane	20	18.2	ug/L	91			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	94.1	ug/L	94			40 (74)	160 (118)	
	Toluene	20	17.8	ug/L	89			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	16.9	ug/L	85			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	18.6	ug/L	93			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	18.2	ug/L	91			70 (83)	130 (112)	
	2-Hexanone	100	91.7	ug/L	92			40 (73)	160 (117)	
	Dibromochloromethane	20	18.6	ug/L	93			70 (82)	130 (110)	
	1,2-Dibromoethane	20	18.3	ug/L	92			70 (81)	130 (110)	
	Tetrachloroethene	20	19.3	ug/L	97			70 (67)	130 (123)	
	Chlorobenzene	20	18.2	ug/L	91			70 (82)	130 (109)	
	Ethyl Benzene	20	18.2	ug/L	91			70 (83)	130 (109)	
	m/p-Xylenes	40	36.2	ug/L	91			70 (82)	130 (110)	
	o-Xylene	20	18.3	ug/L	92			70 (83)	130 (109)	
	Styrene	20	18.3	ug/L	92			70 (80)	130 (111)	
	Bromoform	20	18.4	ug/L	92			70 (79)	130 (109)	
	Isopropylbenzene	20	17.8	ug/L	89			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	17.6	ug/L	88			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	17.3	ug/L	86			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	16.9	ug/L	85			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	17.5	ug/L	88			70 (82)	130 (109)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VX045617.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0407WBS01	1,2-Dibromo-3-Chloropropane	20	17.8	ug/L	89			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	16.4	ug/L	82			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	16.6	ug/L	83			70 (76)	130 (114)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VX045618.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0407WBSD01	Dichlorodifluoromethane	20	20.2	ug/L	101	2		40 (69)	160 (116)	20 (20)
	Chloromethane	20	18.4	ug/L	92	4		40 (65)	160 (116)	20 (20)
	Vinyl chloride	20	18.6	ug/L	93	3		70 (65)	130 (117)	20 (20)
	Bromomethane	20	18.4	ug/L	92	4		40 (58)	160 (125)	20 (20)
	Chloroethane	20	19.3	ug/L	97	1		40 (56)	160 (128)	20 (20)
	Trichlorofluoromethane	20	19.4	ug/L	97	4		40 (73)	160 (115)	20 (20)
	1,1,2-Trichlorotrifluoroethane	20	19.8	ug/L	99	6		70 (80)	130 (112)	20 (20)
	1,1-Dichloroethene	20	18.9	ug/L	95	8		70 (74)	130 (110)	20 (20)
	Acetone	100	97.2	ug/L	97	7		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	17.6	ug/L	88	5		40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	19.4	ug/L	97	10		70 (78)	130 (114)	20 (20)
	Methyl Acetate	20	21.5	ug/L	108	11		70 (67)	130 (125)	20 (20)
	Methylene Chloride	20	19.4	ug/L	97	9		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	18.5	ug/L	93	6		70 (75)	130 (108)	20 (20)
	1,1-Dichloroethane	20	18.7	ug/L	94	5		70 (78)	130 (112)	20 (20)
	Cyclohexane	20	18.5	ug/L	93	8		70 (75)	130 (110)	20 (20)
	2-Butanone	100	100	ug/L	100	9		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	19.8	ug/L	99	5		70 (77)	130 (113)	20 (20)
	cis-1,2-Dichloroethene	20	18.6	ug/L	93	6		70 (77)	130 (110)	20 (20)
	Bromochloromethane	20	20.0	ug/L	100	1		70 (70)	130 (124)	20 (20)
	Chloroform	20	19.5	ug/L	98	6		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	19.2	ug/L	96	6		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	20.0	ug/L	100	12		70 (72)	130 (115)	20 (20)
	Benzene	20	19.2	ug/L	96	6		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	20.3	ug/L	102	8		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	19.2	ug/L	96	6		70 (77)	130 (113)	20 (20)
	1,2-Dichloropropane	20	20.0	ug/L	100	9		70 (83)	130 (111)	20 (20)
	Bromodichloromethane	20	20.1	ug/L	101	10		70 (83)	130 (110)	20 (20)
	4-Methyl-2-Pentanone	100	110	ug/L	110	16		40 (74)	160 (118)	20 (20)
	Toluene	20	19.4	ug/L	97	9		70 (82)	130 (110)	20 (20)
	t-1,3-Dichloropropene	20	19.2	ug/L	96	12		70 (79)	130 (110)	20 (20)
	cis-1,3-Dichloropropene	20	20.1	ug/L	101	8		70 (82)	130 (110)	20 (20)
	1,1,2-Trichloroethane	20	20.2	ug/L	101	10		70 (83)	130 (112)	20 (20)
	2-Hexanone	100	110	ug/L	110	18		40 (73)	160 (117)	20 (20)
	Dibromochloromethane	20	20.8	ug/L	104	11		70 (82)	130 (110)	20 (20)
	1,2-Dibromoethane	20	20.2	ug/L	101	9		70 (81)	130 (110)	20 (20)
	Tetrachloroethene	20	20.1	ug/L	101	4		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	19.6	ug/L	98	7		70 (82)	130 (109)	20 (20)
	Ethyl Benzene	20	19.4	ug/L	97	6		70 (83)	130 (109)	20 (20)
	m/p-Xylenes	40	39.9	ug/L	100	9		70 (82)	130 (110)	20 (20)
	o-Xylene	20	19.8	ug/L	99	7		70 (83)	130 (109)	20 (20)
	Styrene	20	19.7	ug/L	99	7		70 (80)	130 (111)	20 (20)
	Bromoform	20	20.1	ug/L	101	9		70 (79)	130 (109)	20 (20)
	Isopropylbenzene	20	19.1	ug/L	96	8		70 (83)	130 (112)	20 (20)
	1,1,2,2-Tetrachloroethane	20	19.4	ug/L	97	10		70 (76)	130 (118)	20 (20)
	1,3-Dichlorobenzene	20	19.1	ug/L	96	11		70 (82)	130 (108)	20 (20)
	1,4-Dichlorobenzene	20	18.6	ug/L	93	9		70 (82)	130 (107)	20 (20)
	1,2-Dichlorobenzene	20	18.9	ug/L	95	8		70 (82)	130 (109)	20 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VX045618.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0407WBSD01	1,2-Dibromo-3-Chloropropane	20	20.5	ug/L	103	15		40 (68)	160 (112)	20 (20)
	1,2,4-Trichlorobenzene	20	18.2	ug/L	91	10		70 (75)	130 (113)	20 (20)
	1,2,3-Trichlorobenzene	20	18.2	ug/L	91	9		70 (76)	130 (114)	20 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VX045638.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0408WBS01	Dichlorodifluoromethane	20	18.9	ug/L	95			40 (69)	160 (116)	
	Chloromethane	20	16.8	ug/L	84			40 (65)	160 (116)	
	Vinyl chloride	20	17.3	ug/L	86			70 (65)	130 (117)	
	Bromomethane	20	16.2	ug/L	81			40 (58)	160 (125)	
	Chloroethane	20	18.2	ug/L	91			40 (56)	160 (128)	
	Trichlorofluoromethane	20	18.1	ug/L	91			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	18.3	ug/L	92			70 (80)	130 (112)	
	1,1-Dichloroethene	20	17.2	ug/L	86			70 (74)	130 (110)	
	Acetone	100	100	ug/L	100			40 (60)	160 (125)	
	Carbon disulfide	20	16.2	ug/L	81			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	16.9	ug/L	85			70 (78)	130 (114)	
	Methyl Acetate	20	18.6	ug/L	93			70 (67)	130 (125)	
	Methylene Chloride	20	16.9	ug/L	85			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	16.7	ug/L	84			70 (75)	130 (108)	
	1,1-Dichloroethane	20	16.9	ug/L	85			70 (78)	130 (112)	
	Cyclohexane	20	16.8	ug/L	84			70 (75)	130 (110)	
	2-Butanone	100	92.0	ug/L	92			40 (65)	160 (122)	
	Carbon Tetrachloride	20	18.5	ug/L	93			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	16.9	ug/L	85			70 (77)	130 (110)	
	Bromochloromethane	20	17.2	ug/L	86			70 (70)	130 (124)	
	Chloroform	20	17.6	ug/L	88			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	17.1	ug/L	86			70 (80)	130 (108)	
	Methylcyclohexane	20	18.7	ug/L	94			70 (72)	130 (115)	
	Benzene	20	17.6	ug/L	88			70 (82)	130 (109)	
	1,2-Dichloroethane	20	18.2	ug/L	91			70 (80)	130 (115)	
	Trichloroethene	20	17.6	ug/L	88			70 (77)	130 (113)	
	1,2-Dichloropropane	20	17.6	ug/L	88			70 (83)	130 (111)	
	Bromodichloromethane	20	18.2	ug/L	91			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	90.9	ug/L	91			40 (74)	160 (118)	
	Toluene	20	17.4	ug/L	87			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	16.8	ug/L	84			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	18.1	ug/L	91			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	18.0	ug/L	90			70 (83)	130 (112)	
	2-Hexanone	100	90.9	ug/L	91			40 (73)	160 (117)	
	Dibromochloromethane	20	18.2	ug/L	91			70 (82)	130 (110)	
	1,2-Dibromoethane	20	18.0	ug/L	90			70 (81)	130 (110)	
	Tetrachloroethene	20	17.8	ug/L	89			70 (67)	130 (123)	
	Chlorobenzene	20	17.9	ug/L	90			70 (82)	130 (109)	
	Ethyl Benzene	20	17.9	ug/L	90			70 (83)	130 (109)	
	m/p-Xylenes	40	36.8	ug/L	92			70 (82)	130 (110)	
	o-Xylene	20	18.2	ug/L	91			70 (83)	130 (109)	
	Styrene	20	18.3	ug/L	92			70 (80)	130 (111)	
	Bromoform	20	17.5	ug/L	88			70 (79)	130 (109)	
	Isopropylbenzene	20	18.0	ug/L	90			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	17.1	ug/L	86			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	18.0	ug/L	90			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	17.5	ug/L	88			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	17.7	ug/L	89			70 (82)	130 (109)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VX045638.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0408WBS01	1,2-Dibromo-3-Chloropropane	20	17.7	ug/L	89			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	17.1	ug/L	86			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	17.1	ug/L	86			70 (76)	130 (114)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY021828.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0410SBS01	Dichlorodifluoromethane	20	18.4	ug/Kg	92			40 (64)	160 (136)	
	Chloromethane	20	19.9	ug/Kg	100			40 (70)	160 (130)	
	Vinyl chloride	20	19.2	ug/Kg	96			70 (72)	130 (129)	
	Bromomethane	20	19.0	ug/Kg	95			40 (58)	160 (141)	
	Chloroethane	20	19.3	ug/Kg	97			40 (69)	160 (130)	
	Trichlorofluoromethane	20	19.4	ug/Kg	97			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	20.6	ug/Kg	103			70 (81)	130 (123)	
	1,1-Dichloroethene	20	20.0	ug/Kg	100			70 (79)	130 (121)	
	Acetone	100	92.0	ug/Kg	92			40 (60)	160 (131)	
	Carbon disulfide	20	18.6	ug/Kg	93			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	17.4	ug/Kg	87			70 (77)	130 (129)	
	Methyl Acetate	20	18.0	ug/Kg	90			70 (69)	130 (149)	
	Methylene Chloride	20	20.7	ug/Kg	104			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	19.6	ug/Kg	98			70 (80)	130 (123)	
	1,1-Dichloroethane	20	20.3	ug/Kg	102			70 (82)	130 (123)	
	Cyclohexane	20	18.4	ug/Kg	92			70 (76)	130 (122)	
	2-Butanone	100	87.3	ug/Kg	87			40 (69)	160 (131)	
	Carbon Tetrachloride	20	20.6	ug/Kg	103			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	19.7	ug/Kg	99			70 (82)	130 (123)	
	Bromochloromethane	20	19.5	ug/Kg	98			70 (80)	130 (127)	
	Chloroform	20	20.0	ug/Kg	100			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	20.1	ug/Kg	101			70 (80)	130 (126)	
	Methylcyclohexane	20	19.6	ug/Kg	98			70 (77)	130 (123)	
	Benzene	20	20.4	ug/Kg	102			70 (84)	130 (121)	
	1,2-Dichloroethane	20	20.1	ug/Kg	101			70 (81)	130 (126)	
	Trichloroethene	20	20.6	ug/Kg	103			70 (83)	130 (122)	
	1,2-Dichloropropane	20	20.7	ug/Kg	104			70 (83)	130 (122)	
	Bromodichloromethane	20	20.4	ug/Kg	102			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	85.8	ug/Kg	86			40 (70)	160 (135)	
	Toluene	20	21.0	ug/Kg	105			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	19.2	ug/Kg	96			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	19.5	ug/Kg	98			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	20.0	ug/Kg	100			70 (82)	130 (125)	
	2-Hexanone	100	86.4	ug/Kg	86			40 (66)	160 (138)	
	Dibromochloromethane	20	20.1	ug/Kg	101			70 (79)	130 (125)	
	1,2-Dibromoethane	20	20.0	ug/Kg	100			70 (80)	130 (125)	
	Tetrachloroethene	20	20.9	ug/Kg	104			70 (83)	130 (125)	
	Chlorobenzene	20	20.6	ug/Kg	103			70 (84)	130 (122)	
	Ethyl Benzene	20	20.5	ug/Kg	103			70 (82)	130 (124)	
	m/p-Xylenes	40	42.1	ug/Kg	105			70 (83)	130 (124)	
	o-Xylene	20	20.4	ug/Kg	102			70 (83)	130 (123)	
	Styrene	20	20.5	ug/Kg	103			70 (82)	130 (124)	
	Bromoform	20	19.5	ug/Kg	98			70 (75)	130 (127)	
	Isopropylbenzene	20	19.7	ug/Kg	99			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	18.2	ug/Kg	91			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	20.6	ug/Kg	103			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	20.5	ug/Kg	103			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	20.3	ug/Kg	102			70 (83)	130 (124)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY021828.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0410SBS01	1,2-Dibromo-3-Chloropropane	20	17.6	ug/Kg	88			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	20.1	ug/Kg	101			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	19.6	ug/Kg	98			70 (70)	130 (137)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY021829.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0410SBSD01	Dichlorodifluoromethane	20	18.2	ug/Kg	91	1		40 (64)	160 (136)	30 (20)
	Chloromethane	20	19.7	ug/Kg	99	1		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	18.6	ug/Kg	93	3		70 (72)	130 (129)	30 (20)
	Bromomethane	20	18.7	ug/Kg	94	1		40 (58)	160 (141)	30 (20)
	Chloroethane	20	19.1	ug/Kg	96	1		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	19.3	ug/Kg	97	0		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	20.0	ug/Kg	100	3		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	18.8	ug/Kg	94	6		70 (79)	130 (121)	30 (20)
	Acetone	100	94.7	ug/Kg	95	3		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	18.3	ug/Kg	92	1		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	18.7	ug/Kg	94	8		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	20.8	ug/Kg	104	14		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	20.0	ug/Kg	100	4		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	19.3	ug/Kg	97	1		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	19.9	ug/Kg	100	2		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	18.1	ug/Kg	91	1		70 (76)	130 (122)	30 (20)
	2-Butanone	100	92.4	ug/Kg	92	6		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	20.1	ug/Kg	101	2		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	19.3	ug/Kg	97	2		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	19.3	ug/Kg	97	1		70 (80)	130 (127)	30 (20)
	Chloroform	20	20.1	ug/Kg	101	1		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	19.7	ug/Kg	99	2		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	19.1	ug/Kg	96	2		70 (77)	130 (123)	30 (20)
	Benzene	20	20.3	ug/Kg	102	0		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	20.0	ug/Kg	100	1		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	20.5	ug/Kg	103	0		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	20.3	ug/Kg	102	2		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	20.6	ug/Kg	103	1		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	96.0	ug/Kg	96	11		40 (70)	160 (135)	30 (20)
	Toluene	20	20.7	ug/Kg	104	1		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	19.3	ug/Kg	97	1		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	19.1	ug/Kg	96	2		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	20.7	ug/Kg	104	4		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	94.7	ug/Kg	95	10		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	20.8	ug/Kg	104	3		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	19.9	ug/Kg	100	0		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	20.6	ug/Kg	103	1		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	20.1	ug/Kg	101	2		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	19.9	ug/Kg	100	3		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	40.6	ug/Kg	102	3		70 (83)	130 (124)	30 (20)
	o-Xylene	20	20.2	ug/Kg	101	1		70 (83)	130 (123)	30 (20)
	Styrene	20	20.3	ug/Kg	102	1		70 (82)	130 (124)	30 (20)
	Bromoform	20	20.2	ug/Kg	101	3		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	19.1	ug/Kg	96	3		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	18.6	ug/Kg	93	2		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	19.9	ug/Kg	100	3		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	20.1	ug/Kg	101	2		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	20.1	ug/Kg	101	1		70 (83)	130 (124)	30 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY021829.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0410SBSD01	1,2-Dibromo-3-Chloropropane	20	19.5	ug/Kg	98	11		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	20.7	ug/Kg	104	3		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	21.0	ug/Kg	105	7		70 (70)	130 (137)	30 (20)

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0407WBL01

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: Q1746

SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: VX045616.D

Lab Sample ID: VX0407WBL01

Date Analyzed: 04/07/2025

Time Analyzed: 10:11

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0407WBS01	VX0407WBS01	VX045617.D	04/07/2025
VX0407WBSD01	VX0407WBSD01	VX045618.D	04/07/2025
TB-2025-4-7	Q1746-08	VX045629.D	04/07/2025
B-158-GW01	Q1746-05	VX045631.D	04/07/2025
B-149-GW01	Q1746-06	VX045632.D	04/07/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0408WBL01

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: Q1746

SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: VX045637.D

Lab Sample ID: VX0408WBL01

Date Analyzed: 04/08/2025

Time Analyzed: 09:12

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0408WBS01	VX0408WBS01	VX045638.D	04/08/2025
EB-2025-4-7	Q1746-07	VX045641.D	04/08/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0410SBL01

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: Q1746

SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: VY021827.D

Lab Sample ID: VY0410SBL01

Date Analyzed: 04/10/2025

Time Analyzed: 10:28

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0410SBS01	VY0410SBS01	VY021828.D	04/10/2025
VY0410SBSD01	VY0410SBSD01	VY021829.D	04/10/2025
B-149-SB01	Q1746-01	VY021833.D	04/10/2025
B-149-SB02	Q1746-03	VY021834.D	04/10/2025

COMMENTS: _____



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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746
Lab File ID: VX045524.D BFB Injection Date: 04/01/2025
Instrument ID: MSVOA_X BFB Injection Time: 16:15
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.6
75	30.0 - 60.0% of mass 95	58.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	66.8
175	5.0 - 9.0% of mass 174	5.2 (7.8) 1
176	95.0 - 101.0% of mass 174	65.3 (97.8) 1
177	5.0 - 9.0% of mass 176	4.4 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VX045525.D	04/01/2025	17:06
VSTDIC005	VSTDIC005	VX045526.D	04/01/2025	17:29
VSTDIC020	VSTDIC020	VX045527.D	04/01/2025	17:52
VSTDIC050	VSTDIC050	VX045528.D	04/01/2025	18:15
VSTDIC100	VSTDIC100	VX045529.D	04/01/2025	18:38
VSTDIC150	VSTDIC150	VX045530.D	04/01/2025	19:02



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746
Lab File ID: VX045613.D BFB Injection Date: 04/07/2025
Instrument ID: MSVOA_X BFB Injection Time: 08:34
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.4
75	30.0 - 60.0% of mass 95	58.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	67.9
175	5.0 - 9.0% of mass 174	5.4 (8) 1
176	95.0 - 101.0% of mass 174	67.3 (99.2) 1
177	5.0 - 9.0% of mass 176	4.1 (6.1) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX045614.D	04/07/2025	09:17
VX0407WBL01	VX0407WBL01	VX045616.D	04/07/2025	10:11
VX0407WBS01	VX0407WBS01	VX045617.D	04/07/2025	10:34
VX0407WBSD01	VX0407WBSD01	VX045618.D	04/07/2025	11:00
TB-2025-4-7	Q1746-08	VX045629.D	04/07/2025	15:21
B-158-GW01	Q1746-05	VX045631.D	04/07/2025	16:08
B-149-GW01	Q1746-06	VX045632.D	04/07/2025	16:31



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746
Lab File ID: VX045634.D BFB Injection Date: 04/08/2025
Instrument ID: MSVOA_X BFB Injection Time: 07:49
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.9
75	30.0 - 60.0% of mass 95	58.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	66.9
175	5.0 - 9.0% of mass 174	5.2 (7.7) 1
176	95.0 - 101.0% of mass 174	63.8 (95.3) 1
177	5.0 - 9.0% of mass 176	4.8 (7.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX045635.D	04/08/2025	08:24
VX0408WBL01	VX0408WBL01	VX045637.D	04/08/2025	09:12
VX0408WBS01	VX0408WBS01	VX045638.D	04/08/2025	09:43
EB-2025-4-7	Q1746-07	VX045641.D	04/08/2025	10:55



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746
Lab File ID: VY021655.D BFB Injection Date: 03/27/2025
Instrument ID: MSVOA_Y BFB Injection Time: 09:23
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.4
75	30.0 - 60.0% of mass 95	53
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1.7 (2) 1
174	50.0 - 100.0% of mass 95	86.7
175	5.0 - 9.0% of mass 174	6.6 (7.6) 1
176	95.0 - 101.0% of mass 174	82.9 (95.6) 1
177	5.0 - 9.0% of mass 176	5.6 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC005	VSTDIC005	VY021656.D	03/27/2025	10:08
VSTDIC010	VSTDIC010	VY021657.D	03/27/2025	10:31
VSTDIC020	VSTDIC020	VY021658.D	03/27/2025	10:54
VSTDIC050	VSTDIC050	VY021659.D	03/27/2025	11:16
VSTDIC100	VSTDIC100	VY021660.D	03/27/2025	11:39
VSTDIC150	VSTDIC150	VY021661.D	03/27/2025	12:02



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746
Lab File ID: VY021825.D BFB Injection Date: 04/10/2025
Instrument ID: MSVOA_Y BFB Injection Time: 08:34
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.3
75	30.0 - 60.0% of mass 95	54.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	1.4 (1.7) 1
174	50.0 - 100.0% of mass 95	81.7
175	5.0 - 9.0% of mass 174	6.7 (8.2) 1
176	95.0 - 101.0% of mass 174	78.2 (95.7) 1
177	5.0 - 9.0% of mass 176	5.1 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY021826.D	04/10/2025	09:51
VY0410SBL01	VY0410SBL01	VY021827.D	04/10/2025	10:28
VY0410SBS01	VY0410SBS01	VY021828.D	04/10/2025	10:59
VY0410SBSD01	VY0410SBSD01	VY021829.D	04/10/2025	11:22
B-149-SB01	Q1746-01	VY021833.D	04/10/2025	13:16
B-149-SB02	Q1746-03	VY021834.D	04/10/2025	13:40

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746
Lab File ID: VX045614.D Date Analyzed: 04/07/2025
Instrument ID: MSVOA_X Time Analyzed: 09:17
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	104243	5.54	177492	6.75	157116	10.05
UPPER LIMIT	208486	6.038	354984	7.251	314232	10.549
LOWER LIMIT	52121.5	5.038	88746	6.251	78558	9.549
EPA SAMPLE NO.						
B-158-GW01	60555	5.55	119845	6.76	111495	10.05
B-149-GW01	67663	5.55	133111	6.76	120863	10.05
TB-2025-4-7	64229	5.55	130025	6.76	121327	10.05
VX0407WBL01	67505	5.54	132975	6.76	123601	10.05
VX0407WBS01	89694	5.54	158717	6.76	138981	10.05
VX0407WBSD01	93507	5.54	162585	6.76	145391	10.05

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746
 Lab File ID: VX045614.D Date Analyzed: 04/07/2025
 Instrument ID: MSVOA_X Time Analyzed: 09:17
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	73594	12.018				
UPPER LIMIT	147188	12.518				
LOWER LIMIT	36797	11.518				
EPA SAMPLE NO.						
B-158-GW01	47595	12.02				
B-149-GW01	48275	12.02				
TB-2025-4-7	49684	12.02				
VX0407WBL01	49926	12.02				
VX0407WBS01	64861	12.02				
VX0407WBSD01	67274	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746
 Lab File ID: VX045635.D Date Analyzed: 04/08/2025
 Instrument ID: MSVOA_X Time Analyzed: 08:24
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	102556	5.54	175513	6.75	152677	10.05
UPPER LIMIT	205112	6.038	351026	7.251	305354	10.549
LOWER LIMIT	51278	5.038	87756.5	6.251	76338.5	9.549
EPA SAMPLE NO.						
EB-2025-4-7	65792	5.54	130088	6.76	121595	10.05
VX0408WBL01	66539	5.55	129800	6.76	123174	10.05
VX0408WBS01	106087	5.54	183473	6.75	162323	10.05

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746
 Lab File ID: VX045635.D Date Analyzed: 04/08/2025
 Instrument ID: MSVOA_X Time Analyzed: 08:24
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	73644	12.018				
UPPER LIMIT	147288	12.518				
LOWER LIMIT	36822	11.518				
EPA SAMPLE NO.						
EB-2025-4-7	51094	12.02				
VX0408WBL01	51559	12.02				
VX0408WBS01	74710	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746
 Lab File ID: VY021826.D Date Analyzed: 04/10/2025
 Instrument ID: MSVOA_Y Time Analyzed: 09:51
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	208417	7.71	315600	8.62	284701	11.42
UPPER LIMIT	416834	8.213	631200	9.122	569402	11.92
LOWER LIMIT	104209	7.213	157800	8.122	142351	10.92
EPA SAMPLE NO.						
B-149-SB01	216986	7.71	393099	8.62	299518	11.42
B-149-SB02	219270	7.71	400432	8.62	325268	11.42
VY0410SBL01	241941	7.71	436661	8.62	362482	11.42
VY0410SBS01	202932	7.71	310477	8.62	276303	11.42
VY0410SBSD01	207811	7.71	318832	8.62	284393	11.42

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746
 Lab File ID: VY021826.D Date Analyzed: 04/10/2025
 Instrument ID: MSVOA_Y Time Analyzed: 09:51
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	147243	13.353				
UPPER LIMIT	294486	13.853				
LOWER LIMIT	73621.5	12.853				
EPA SAMPLE NO.						
B-149-SB01	79360	13.35				
B-149-SB02	109046	13.35				
VY0410SBL01	131635	13.35				
VY0410SBS01	144045	13.35				
VY0410SBSD01	148690	13.35				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.



SAMPLE DATA

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	04/05/25	
Project:	Amtrak Sawtooth Bridges 2025		Date Received:	04/07/25	
Client Sample ID:	B-149-SB01		SDG No.:	Q1746	
Lab Sample ID:	Q1746-01		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	89.3	
Sample Wt/Vol:	5.36	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021833.D	1		04/10/25 13:16	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	5.20	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.20	ug/Kg
75-01-4	Vinyl Chloride	0.83	U	0.83	5.20	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.20	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.20	ug/Kg
75-69-4	Trichlorofluoromethane	1.30	U	1.30	5.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.20	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.20	ug/Kg
67-64-1	Acetone	5.00	U	5.00	26.1	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.76	U	0.76	5.20	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	5.20	ug/Kg
75-09-2	Methylene Chloride	3.70	U	3.70	10.4	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.90	U	0.90	5.20	ug/Kg
75-34-3	1,1-Dichloroethane	0.84	U	0.84	5.20	ug/Kg
110-82-7	Cyclohexane	0.83	U	0.83	5.20	ug/Kg
78-93-3	2-Butanone	6.80	U	6.80	26.1	ug/Kg
56-23-5	Carbon Tetrachloride	1.00	U	1.00	5.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.78	U	0.78	5.20	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.20	ug/Kg
67-66-3	Chloroform	0.88	U	0.88	5.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.97	U	0.97	5.20	ug/Kg
108-87-2	Methylcyclohexane	0.95	U	0.95	5.20	ug/Kg
71-43-2	Benzene	0.83	U	0.83	5.20	ug/Kg
107-06-2	1,2-Dichloroethane	0.83	U	0.83	5.20	ug/Kg
79-01-6	Trichloroethene	0.85	U	0.85	5.20	ug/Kg
78-87-5	1,2-Dichloropropane	0.95	U	0.95	5.20	ug/Kg
75-27-4	Bromodichloromethane	0.81	U	0.81	5.20	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.70	U	3.70	26.1	ug/Kg
108-88-3	Toluene	0.81	U	0.81	5.20	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	04/05/25	
Project:	Amtrak Sawtooth Bridges 2025		Date Received:	04/07/25	
Client Sample ID:	B-149-SB01		SDG No.:	Q1746	
Lab Sample ID:	Q1746-01		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	89.3	
Sample Wt/Vol:	5.36	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021833.D	1		04/10/25 13:16	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.68	U	0.68	5.20	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.65	U	0.65	5.20	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.96	U	0.96	5.20	ug/Kg
591-78-6	2-Hexanone	3.90	U	3.90	26.1	ug/Kg
124-48-1	Dibromochloromethane	0.91	U	0.91	5.20	ug/Kg
106-93-4	1,2-Dibromoethane	0.92	U	0.92	5.20	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.20	ug/Kg
108-90-7	Chlorobenzene	0.95	U	0.95	5.20	ug/Kg
100-41-4	Ethyl Benzene	0.70	U	0.70	5.20	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.4	ug/Kg
95-47-6	o-Xylene	0.86	U	0.86	5.20	ug/Kg
100-42-5	Styrene	0.74	U	0.74	5.20	ug/Kg
75-25-2	Bromoform	0.90	U	0.90	5.20	ug/Kg
98-82-8	Isopropylbenzene	0.81	U	0.81	5.20	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.30	U	1.30	5.20	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.80	U	1.80	5.20	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.20	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.20	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.90	U	1.90	5.20	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.10	U	3.10	5.20	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.30	U	3.30	5.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.3		70 (63) - 130 (155)	103%	SPK: 50
1868-53-7	Dibromofluoromethane	52.8		70 (70) - 130 (134)	106%	SPK: 50
2037-26-5	Toluene-d8	48.7		70 (74) - 130 (123)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	30.4	*	70 (38) - 130 (136)	61%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	217000	7.713			
540-36-3	1,4-Difluorobenzene	393000	8.616			
3114-55-4	Chlorobenzene-d5	300000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	79400	13.347			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB01	SDG No.:	Q1746
Lab Sample ID:	Q1746-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	89.3
Sample Wt/Vol:	5.36 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021833.D	1		04/10/25 13:16	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
 Data File : VY021833.D
 Acq On : 10 Apr 2025 13:16
 Operator : SY/MD
 Sample : Q1746-01
 Misc : 5.36g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-149-SB01

Quant Time: Apr 11 01:50:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.713	168	216986	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	393099	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	299518	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	79360	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	120626	51.309	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	102.620%
35) Dibromofluoromethane	7.634	113	134604	52.787	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	105.580%
50) Toluene-d8	10.109	98	471962	48.652	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.300%
62) 4-Bromofluorobenzene	12.408	95	99658	30.372	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	60.740%

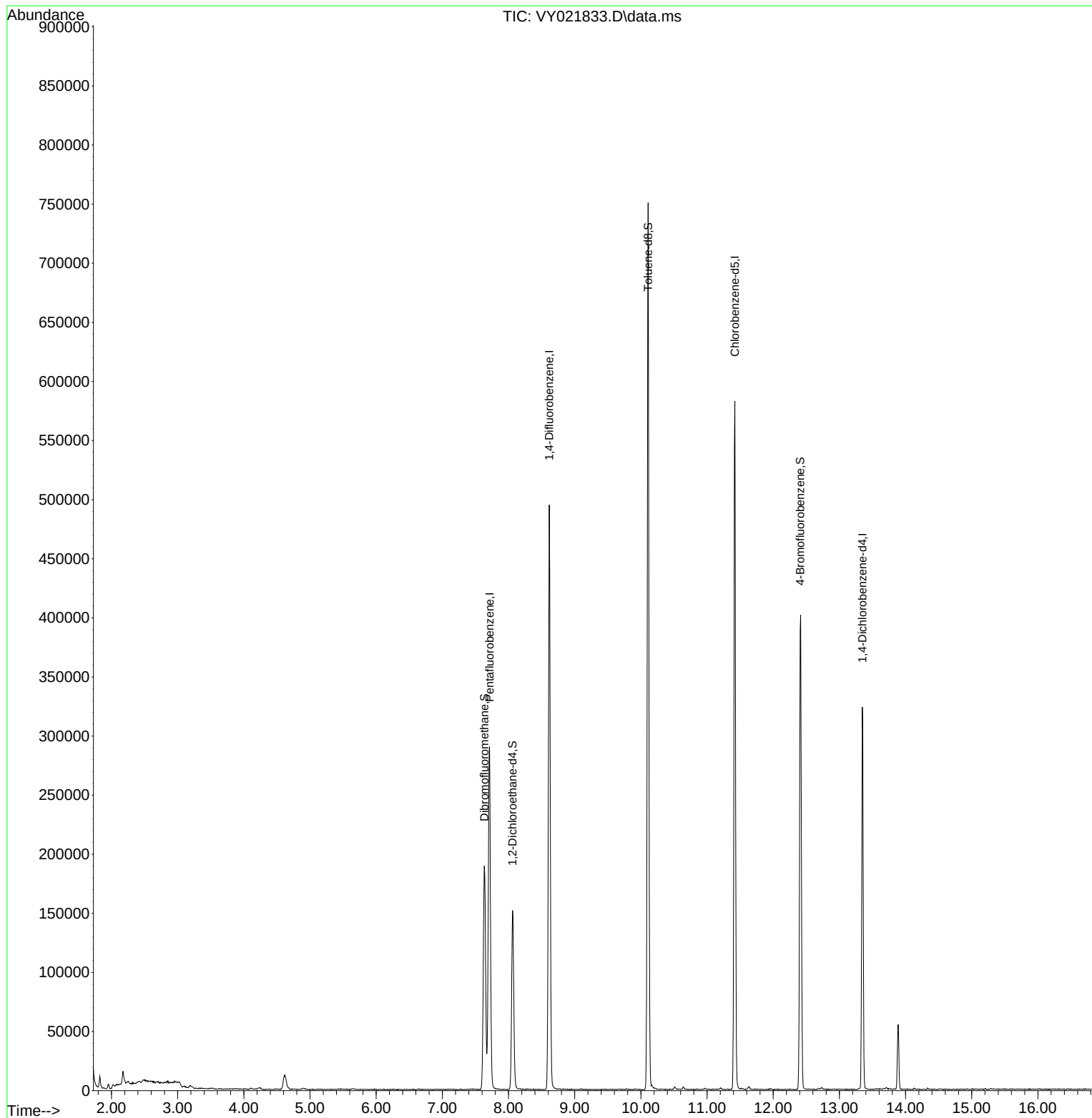
Target Compounds	Qvalue

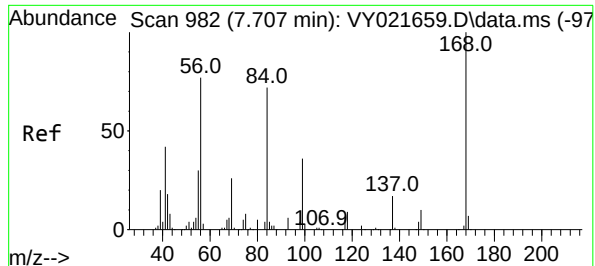
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021833.D
Acq On : 10 Apr 2025 13:16
Operator : SY/MD
Sample : Q1746-01
Misc : 5.36g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB01

Quant Time: Apr 11 01:50:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

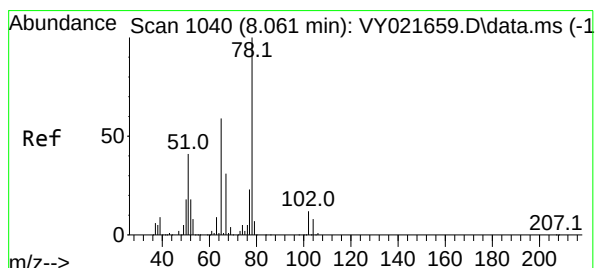
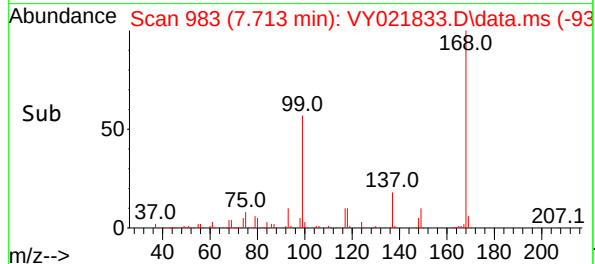
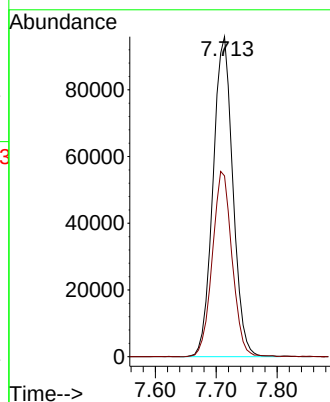
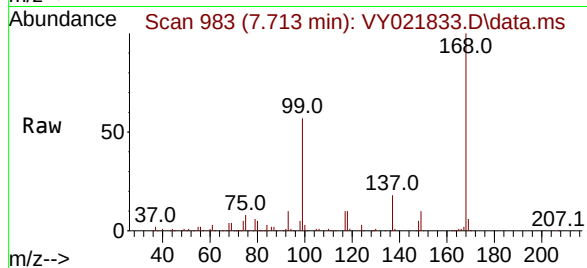




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY021833.D
Acq: 10 Apr 2025 13:16

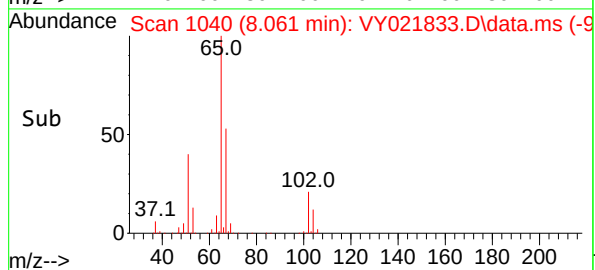
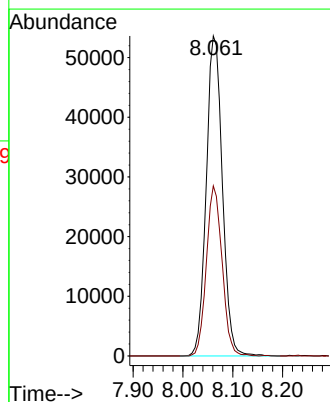
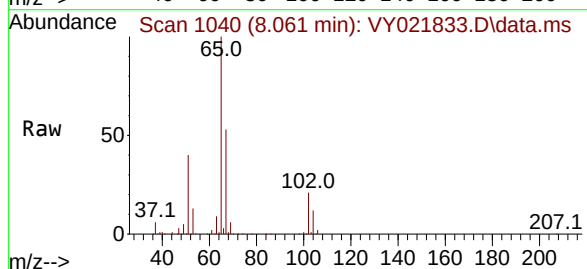
Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB01

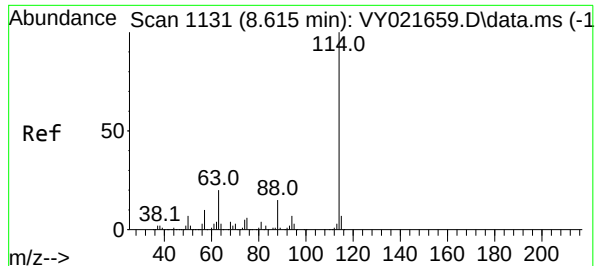
Tgt Ion:168 Resp: 216986
Ion Ratio Lower Upper
168 100
99 56.5 46.7 70.1



#33
1,2-Dichloroethane-d4
Concen: 51.309 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY021833.D
Acq: 10 Apr 2025 13:16

Tgt Ion: 65 Resp: 120626
Ion Ratio Lower Upper
65 100
67 51.6 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY021833.D

Acq: 10 Apr 2025 13:16

Instrument :

MSVOA_Y

ClientSampleId :

B-149-SB01

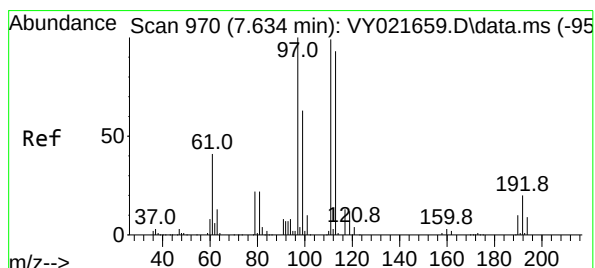
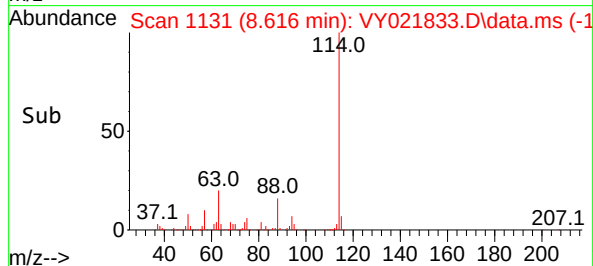
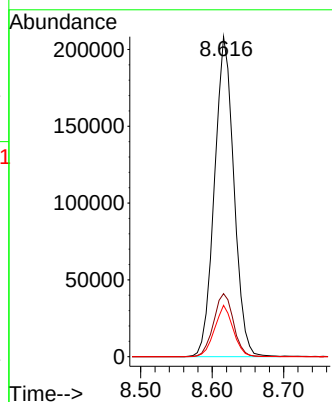
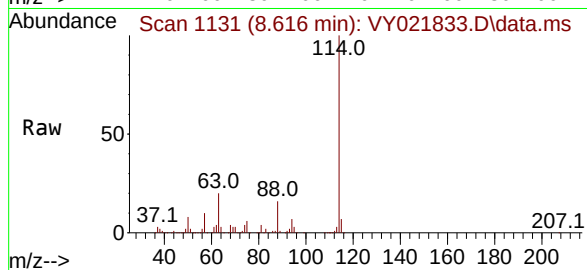
Tgt Ion:114 Resp: 393099

Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.2

88 16.1 0.0 29.8



#35

Dibromofluoromethane

Concen: 52.787 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.000 min

Lab File: VY021833.D

Acq: 10 Apr 2025 13:16

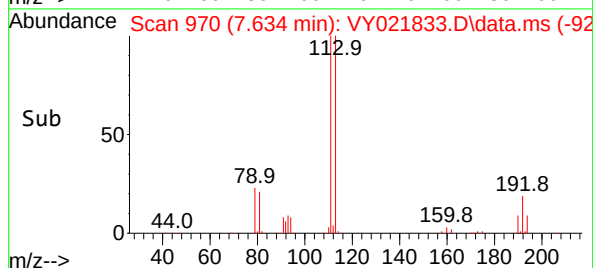
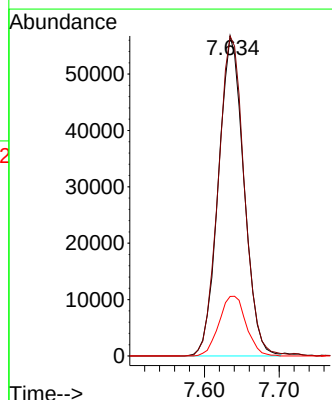
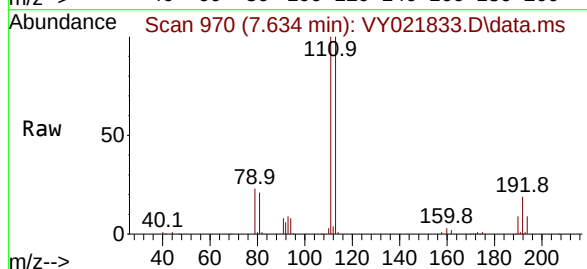
Tgt Ion:113 Resp: 134604

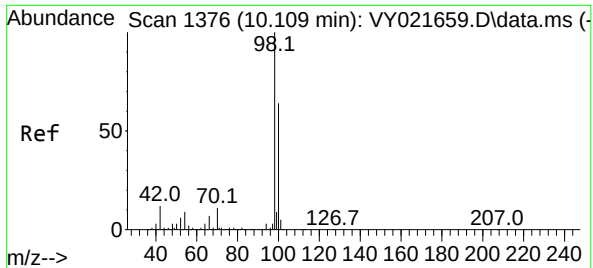
Ion Ratio Lower Upper

113 100

111 101.9 82.6 123.8

192 19.8 16.2 24.4

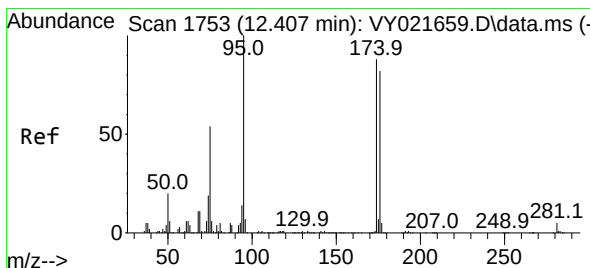
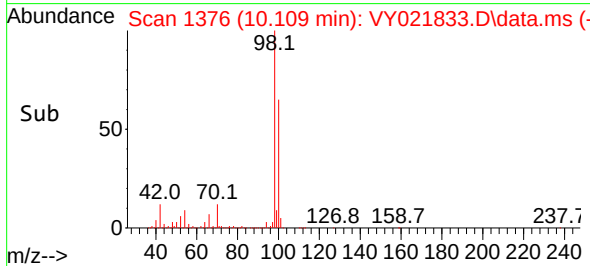
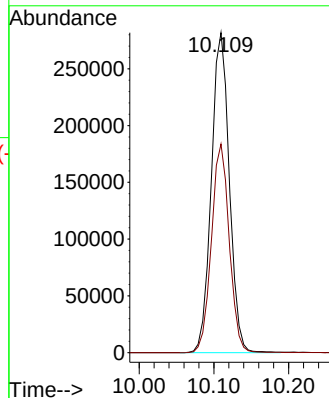
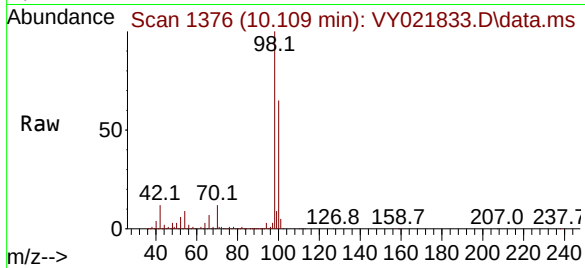




#50
Toluene-d8
Concen: 48.652 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY021833.D
Acq: 10 Apr 2025 13:16

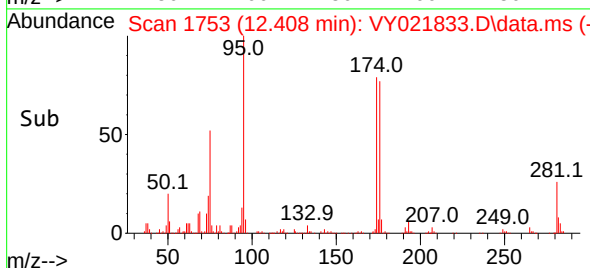
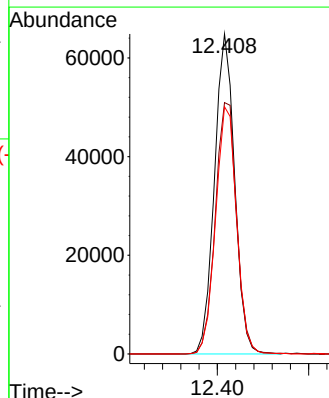
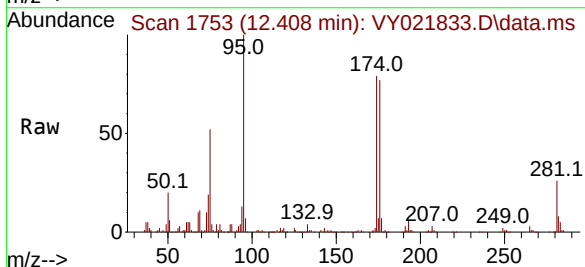
Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB01

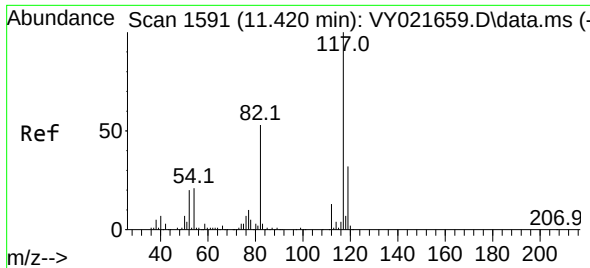
Tgt Ion: 98 Resp: 471962
Ion Ratio Lower Upper
98 100
100 64.7 52.1 78.1



#62
4-Bromofluorobenzene
Concen: 30.372 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021833.D
Acq: 10 Apr 2025 13:16

Tgt Ion: 95 Resp: 99658
Ion Ratio Lower Upper
95 100
174 82.8 0.0 170.8
176 80.3 0.0 162.0

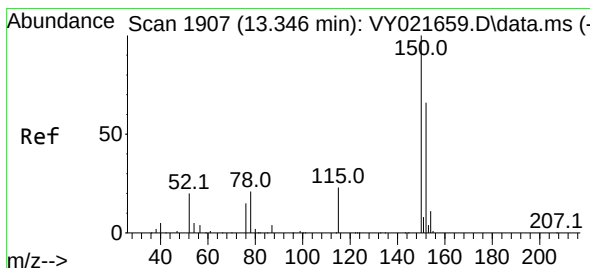
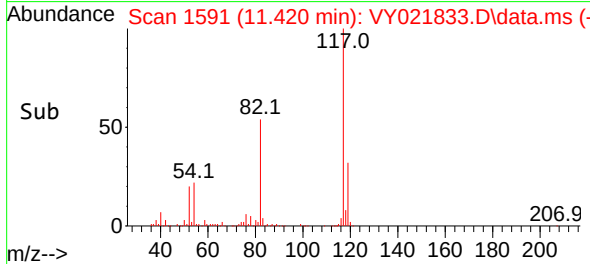
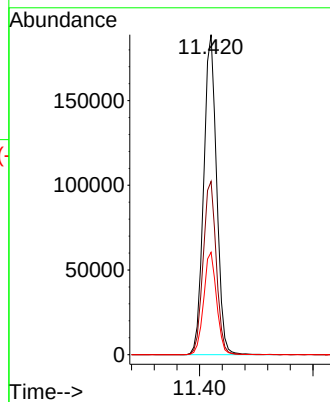
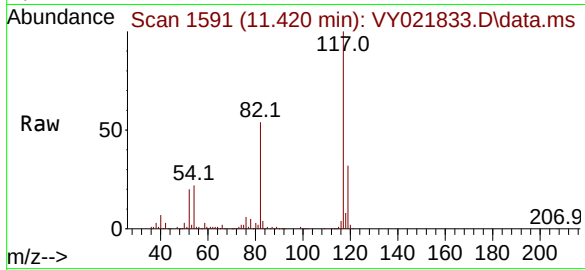




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 117
Delta R.T. 0.000 min
Lab File: VY021833.D
Acq: 10 Apr 2025 13:16

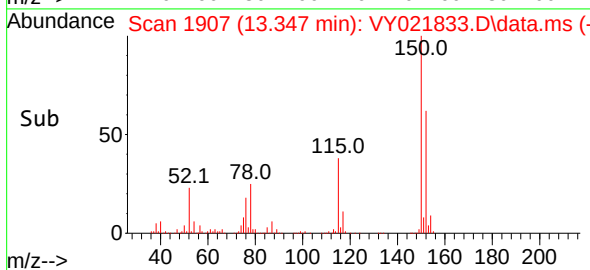
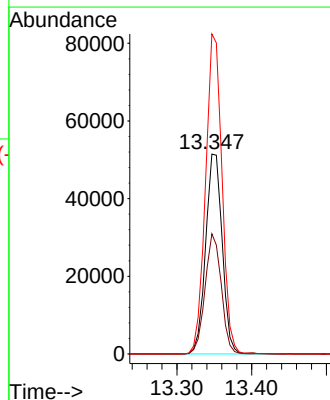
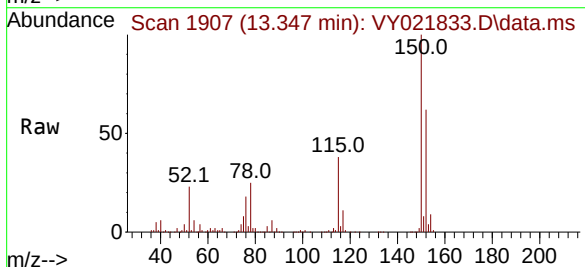
Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB01

Tgt Ion:117 Resp: 299518
Ion Ratio Lower Upper
117 100
82 54.1 42.8 64.2
119 32.0 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021833.D
Acq: 10 Apr 2025 13:16

Tgt Ion:152 Resp: 79360
Ion Ratio Lower Upper
152 100
115 58.7 28.8 86.5
150 158.5 0.0 348.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021833.D
Acq On : 10 Apr 2025 13:16
Operator : SY/MD
Sample : Q1746-01
Misc : 5.36g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M

Title : SW846 8260

Signal : TIC: VY021833.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.824	13	17	23	rVB	9967	13629	1.07%	0.227%
2	2.172	69	74	81	rBV3	10940	21441	1.69%	0.357%
3	4.623	464	476	487	rBV3	12077	41747	3.29%	0.695%
4	7.634	960	970	976	rBV	189364	457702	36.05%	7.619%
5	7.713	976	983	995	rVB	289450	667207	52.55%	11.106%
6	8.061	1031	1040	1054	rBV	151519	342157	26.95%	5.695%
7	8.616	1117	1131	1145	rBV	494702	937560	73.84%	15.606%
8	10.109	1367	1376	1384	rBV	750561	1269653	100.00%	21.134%
9	11.420	1583	1591	1604	rBV	582322	933665	73.54%	15.541%
10	12.414	1745	1754	1770	rBV2	401367	743897	58.59%	12.382%
11	13.347	1901	1907	1917	rVB	322935	492516	38.79%	8.198%
12	13.889	1990	1996	2002	rBV2	54749	86565	6.82%	1.441%

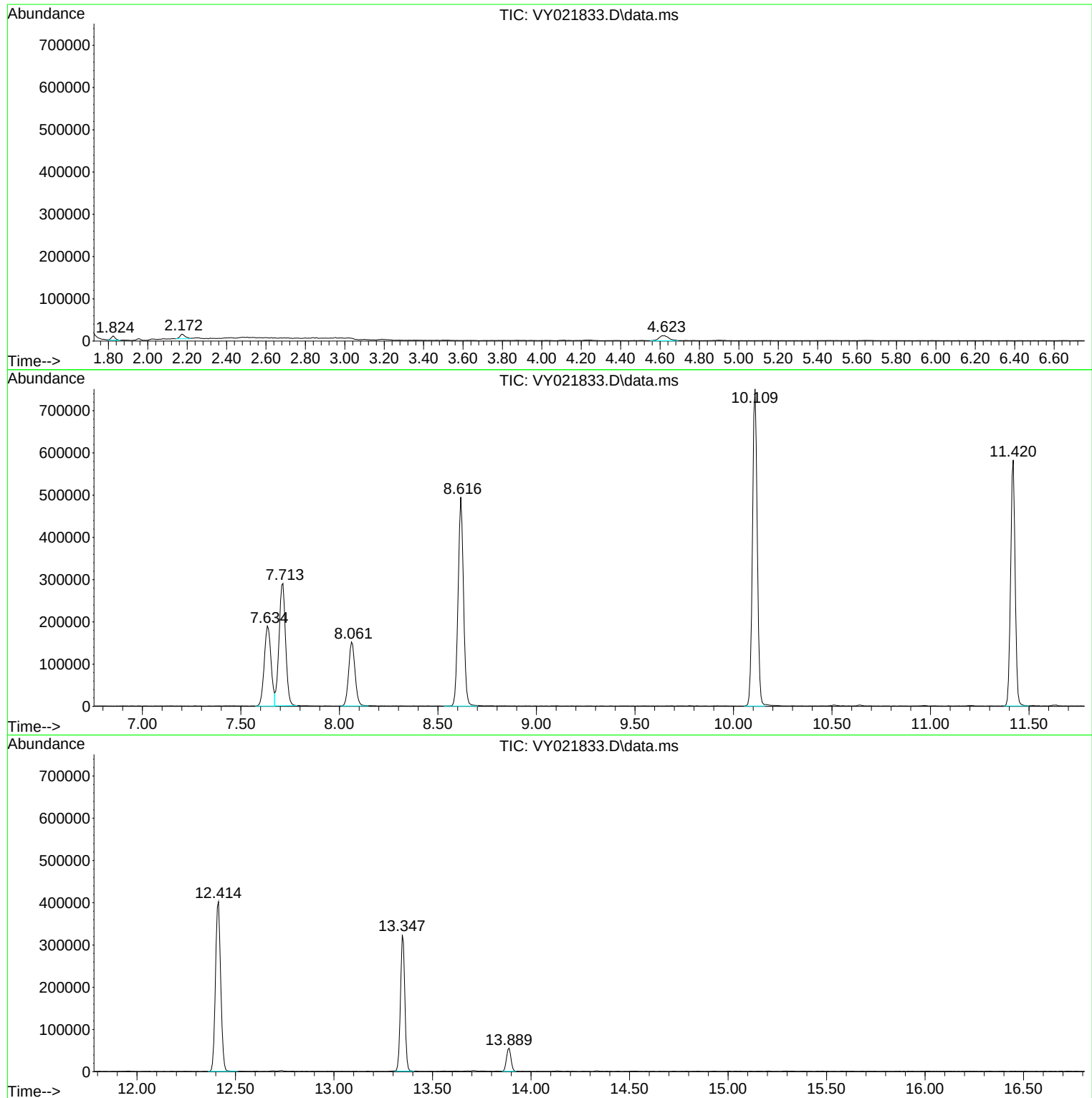
Sum of corrected areas: 6007739

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021833.D
Acq On : 10 Apr 2025 13:16
Operator : SY/MD
Sample : Q1746-01
Misc : 5.36g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021833.D
Acq On : 10 Apr 2025 13:16
Operator : SY/MD
Sample : Q1746-01
Misc : 5.36g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021833.D
Acq On : 10 Apr 2025 13:16
Operator : SY/MD
Sample : Q1746-01
Misc : 5.36g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB02	SDG No.:	Q1746
Lab Sample ID:	Q1746-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	84.8
Sample Wt/Vol:	4.74 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021834.D	1		04/10/25 13:40	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.40	U	1.40	6.20	ug/Kg
74-87-3	Chloromethane	1.40	U	1.40	6.20	ug/Kg
75-01-4	Vinyl Chloride	0.98	U	0.98	6.20	ug/Kg
74-83-9	Bromomethane	1.30	U	1.30	6.20	ug/Kg
75-00-3	Chloroethane	1.60	U	1.60	6.20	ug/Kg
75-69-4	Trichlorofluoromethane	1.50	U	1.50	6.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.30	U	1.30	6.20	ug/Kg
75-35-4	1,1-Dichloroethene	1.20	U	1.20	6.20	ug/Kg
67-64-1	Acetone	320		5.90	31.1	ug/Kg
75-15-0	Carbon Disulfide	2.40	J	1.30	6.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.91	U	0.91	6.20	ug/Kg
79-20-9	Methyl Acetate	1.90	U	1.90	6.20	ug/Kg
75-09-2	Methylene Chloride	4.40	U	4.40	12.4	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.10	U	1.10	6.20	ug/Kg
75-34-3	1,1-Dichloroethane	1.00	U	1.00	6.20	ug/Kg
110-82-7	Cyclohexane	0.98	U	0.98	6.20	ug/Kg
78-93-3	2-Butanone	76.3		8.10	31.1	ug/Kg
56-23-5	Carbon Tetrachloride	1.20	U	1.20	6.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.93	U	0.93	6.20	ug/Kg
74-97-5	Bromochloromethane	1.40	U	1.40	6.20	ug/Kg
67-66-3	Chloroform	1.00	U	1.00	6.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.20	U	1.20	6.20	ug/Kg
108-87-2	Methylcyclohexane	1.10	U	1.10	6.20	ug/Kg
71-43-2	Benzene	0.98	U	0.98	6.20	ug/Kg
107-06-2	1,2-Dichloroethane	0.98	U	0.98	6.20	ug/Kg
79-01-6	Trichloroethene	1.00	U	1.00	6.20	ug/Kg
78-87-5	1,2-Dichloropropane	1.10	U	1.10	6.20	ug/Kg
75-27-4	Bromodichloromethane	0.97	U	0.97	6.20	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.50	U	4.50	31.1	ug/Kg
108-88-3	Toluene	0.97	U	0.97	6.20	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB02	SDG No.:	Q1746
Lab Sample ID:	Q1746-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	84.8
Sample Wt/Vol:	4.74 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021834.D	1		04/10/25 13:40	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.81	U	0.81	6.20	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.77	U	0.77	6.20	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.10	U	1.10	6.20	ug/Kg
591-78-6	2-Hexanone	4.60	U	4.60	31.1	ug/Kg
124-48-1	Dibromochloromethane	1.10	U	1.10	6.20	ug/Kg
106-93-4	1,2-Dibromoethane	1.10	U	1.10	6.20	ug/Kg
127-18-4	Tetrachloroethene	1.30	U	1.30	6.20	ug/Kg
108-90-7	Chlorobenzene	1.10	U	1.10	6.20	ug/Kg
100-41-4	Ethyl Benzene	0.83	U	0.83	6.20	ug/Kg
179601-23-1	m/p-Xylenes	1.50	U	1.50	12.4	ug/Kg
95-47-6	o-Xylene	1.00	U	1.00	6.20	ug/Kg
100-42-5	Styrene	0.88	U	0.88	6.20	ug/Kg
75-25-2	Bromoform	1.10	U	1.10	6.20	ug/Kg
98-82-8	Isopropylbenzene	0.97	U	0.97	6.20	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.50	U	1.50	6.20	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.10	U	2.10	6.20	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.90	U	1.90	6.20	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.80	U	1.80	6.20	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.30	U	2.30	6.20	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.70	U	3.70	6.20	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	4.00	U	4.00	6.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.9		70 (63) - 130 (155)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		70 (70) - 130 (134)	103%	SPK: 50
2037-26-5	Toluene-d8	48.9		70 (74) - 130 (123)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	37.5		70 (38) - 130 (136)	75%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	219000	7.713			
540-36-3	1,4-Difluorobenzene	400000	8.616			
3114-55-4	Chlorobenzene-d5	325000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	109000	13.347			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB02	SDG No.:	Q1746
Lab Sample ID:	Q1746-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	84.8
Sample Wt/Vol:	4.74 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021834.D	1		04/10/25 13:40	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
 Data File : VY021834.D
 Acq On : 10 Apr 2025 13:40
 Operator : SY/MD
 Sample : Q1746-03
 Misc : 4.74g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-149-SB02

Quant Time: Apr 11 01:50:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

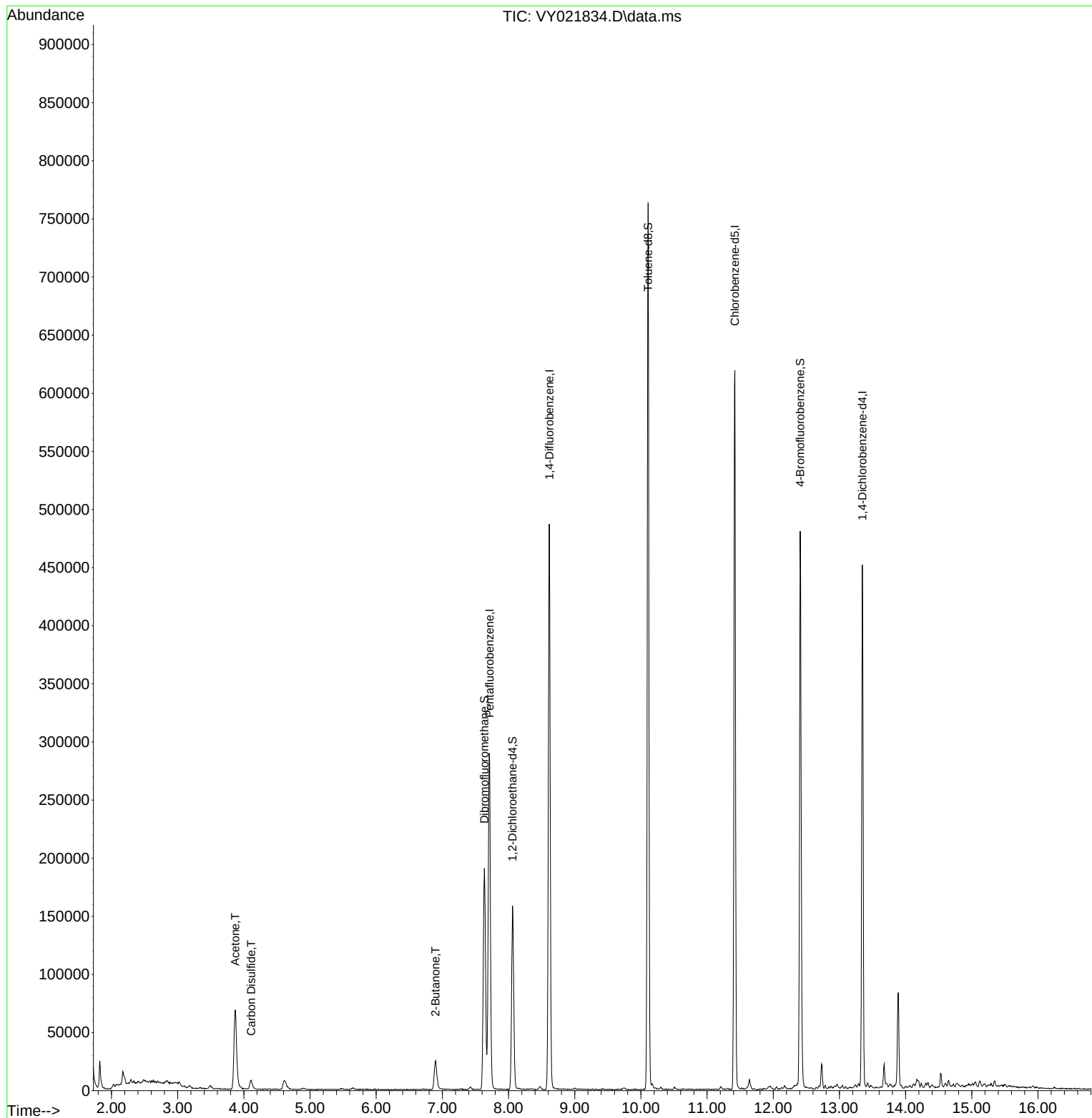
Internal Standards						
1) Pentafluorobenzene	7.713	168	219270	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	400432	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	325268	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	109046	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	123370	51.929	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 103.860%	
35) Dibromofluoromethane	7.634	113	134042	51.604	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 103.200%	
50) Toluene-d8	10.109	98	482801	48.858	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 97.720%	
62) 4-Bromofluorobenzene	12.408	95	125419	37.523	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 75.040%	
Target Compounds						Qvalue
16) Acetone	3.873	43	123652	254.314	ug/l	98
17) Carbon Disulfide	4.110	76	14450	1.908	ug/l	95
25) 2-Butanone	6.896	43	42592	61.330	ug/l	92

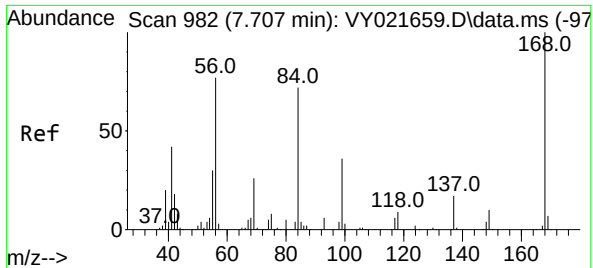
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021834.D
Acq On : 10 Apr 2025 13:40
Operator : SY/MD
Sample : Q1746-03
Misc : 4.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB02

Quant Time: Apr 11 01:50:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

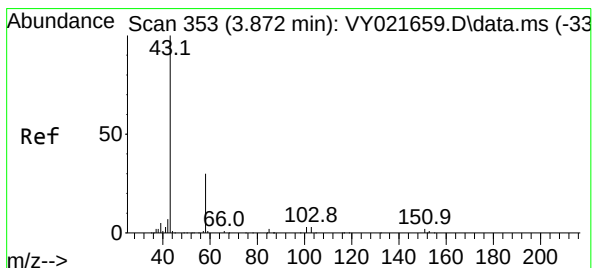
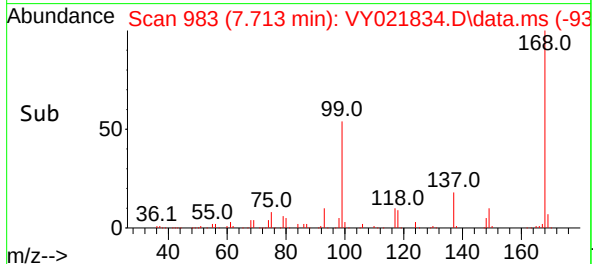
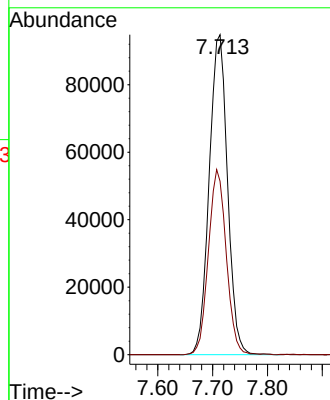
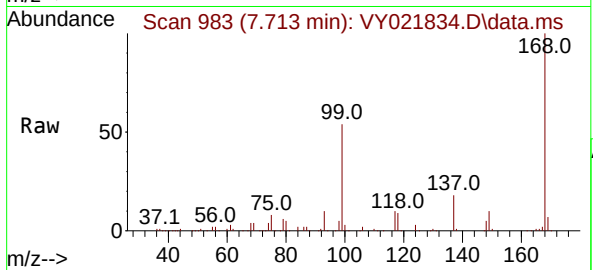




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY021834.D
Acq: 10 Apr 2025 13:40

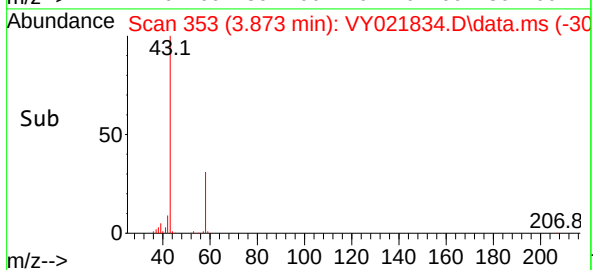
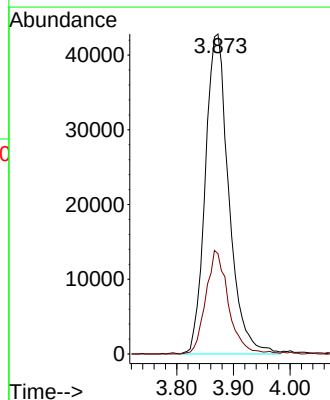
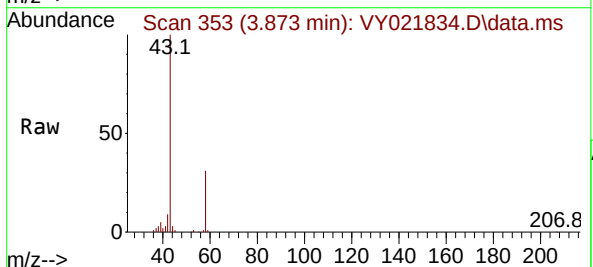
Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB02

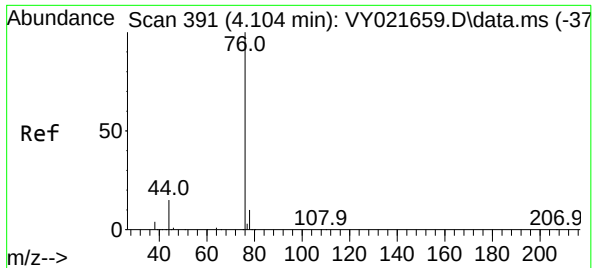
Tgt Ion:168 Resp: 219270
Ion Ratio Lower Upper
168 100
99 54.2 46.7 70.1



#16
Acetone
Concen: 254.314 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.000 min
Lab File: VY021834.D
Acq: 10 Apr 2025 13:40

Tgt Ion: 43 Resp: 123652
Ion Ratio Lower Upper
43 100
58 31.3 24.2 36.4





#17

Carbon Disulfide

Concen: 1.908 ug/l

RT: 4.110 min Scan# 391

Delta R.T. 0.006 min

Lab File: VY021834.D

Acq: 10 Apr 2025 13:40

Instrument :

MSVOA_Y

ClientSampleId :

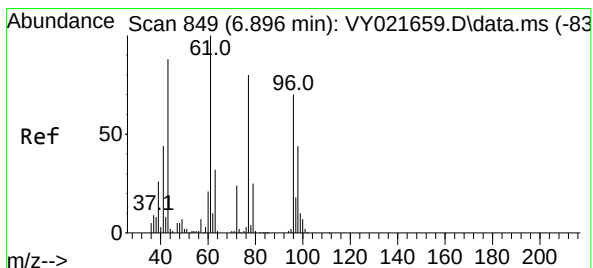
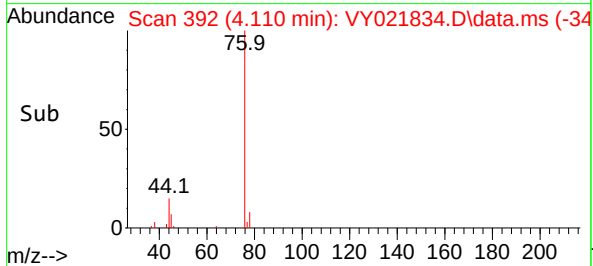
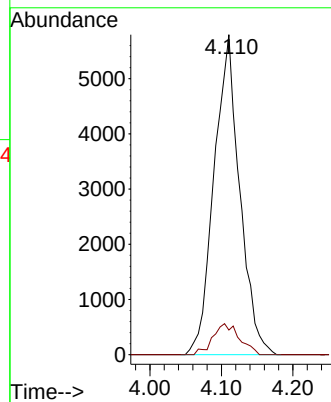
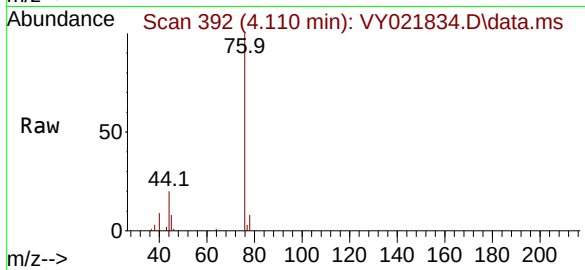
B-149-SB02

Tgt Ion: 76 Resp: 14450

Ion Ratio Lower Upper

76 100

78 7.7 7.6 11.4



#25

2-Butanone

Concen: 61.330 ug/l

RT: 6.896 min Scan# 849

Delta R.T. 0.000 min

Lab File: VY021834.D

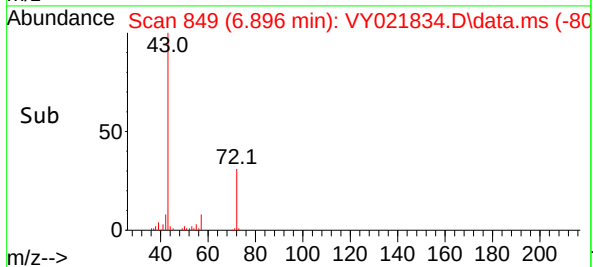
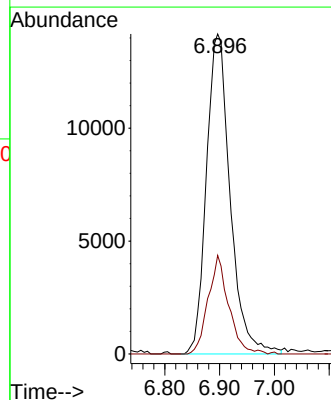
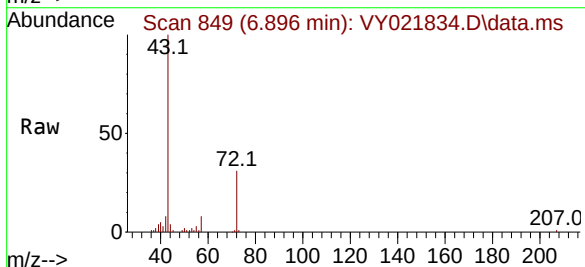
Acq: 10 Apr 2025 13:40

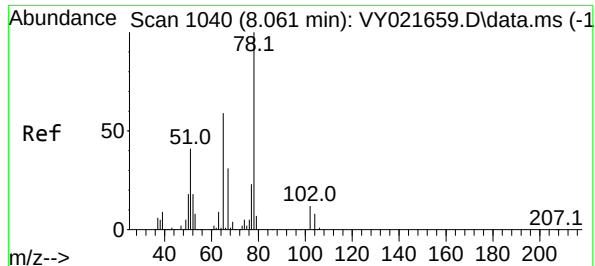
Tgt Ion: 43 Resp: 42592

Ion Ratio Lower Upper

43 100

72 30.8 21.4 32.2





#33

1,2-Dichloroethane-d4

Concen: 51.929 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VY021834.D

Acq: 10 Apr 2025 13:40

Instrument :

MSVOA_Y

ClientSampleId :

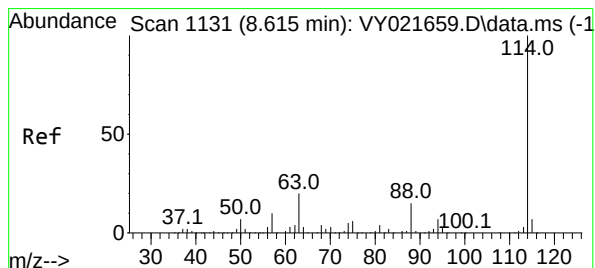
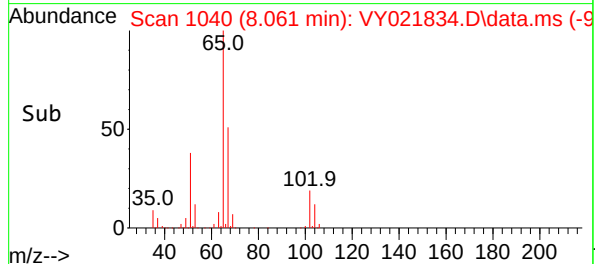
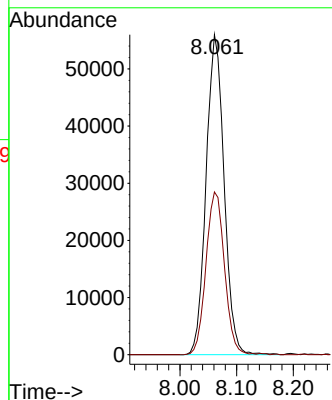
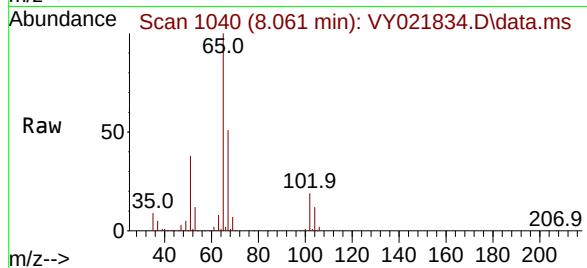
B-149-SB02

Tgt Ion: 65 Resp: 123370

Ion Ratio Lower Upper

65 100

67 52.3 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY021834.D

Acq: 10 Apr 2025 13:40

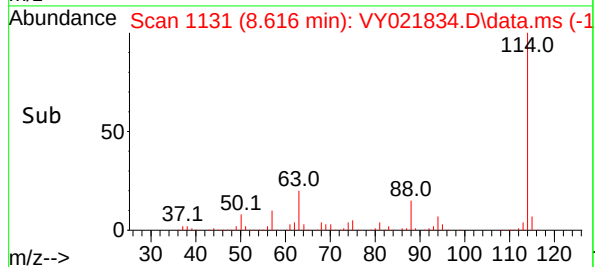
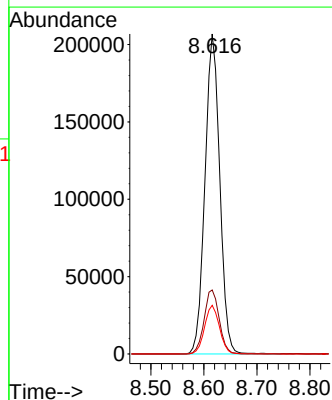
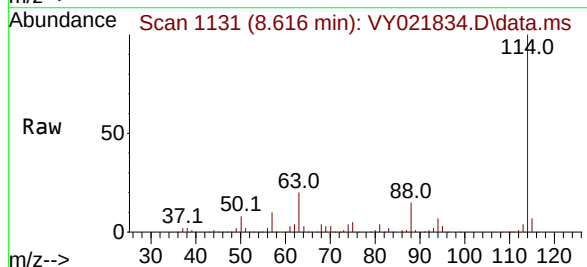
Tgt Ion: 114 Resp: 400432

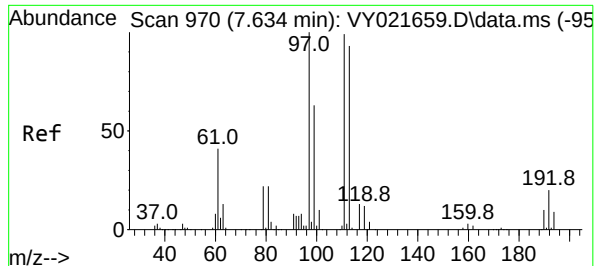
Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.2

88 15.2 0.0 29.8





#35

Dibromofluoromethane

Concen: 51.604 ug/l

RT: 7.634 min Scan# 91

Delta R.T. 0.000 min

Lab File: VY021834.D

Acq: 10 Apr 2025 13:40

Instrument :

MSVOA_Y

ClientSampleId :

B-149-SB02

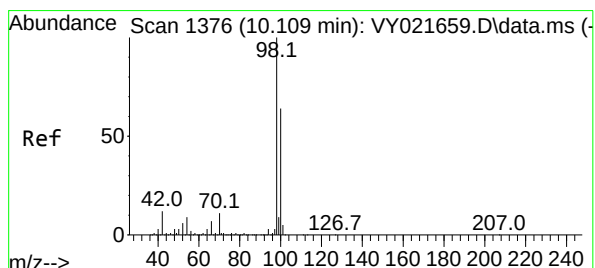
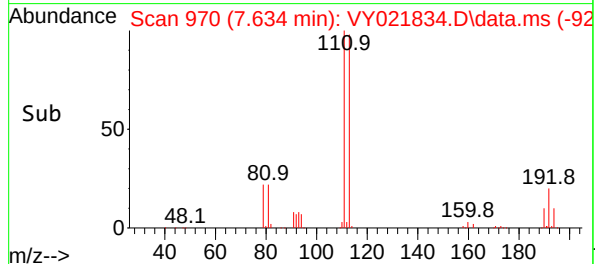
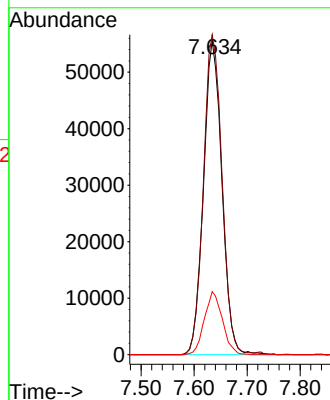
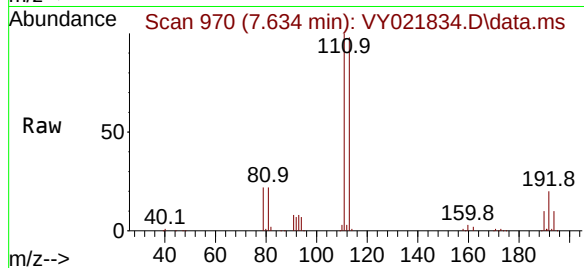
Tgt Ion:113 Resp: 134042

Ion Ratio Lower Upper

113 100

111 102.8 82.6 123.8

192 19.7 16.2 24.4



#50

Toluene-d8

Concen: 48.858 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY021834.D

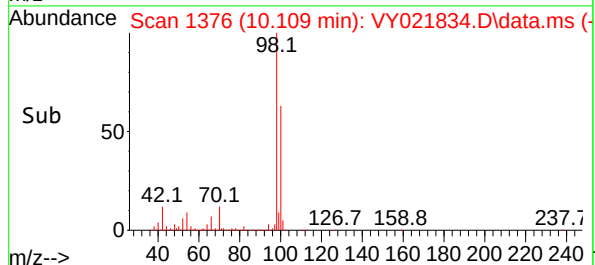
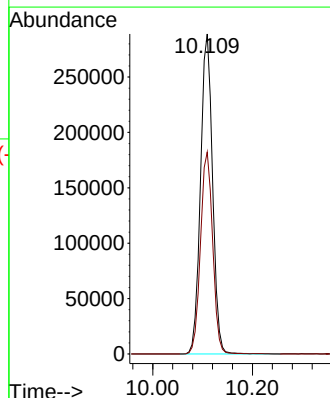
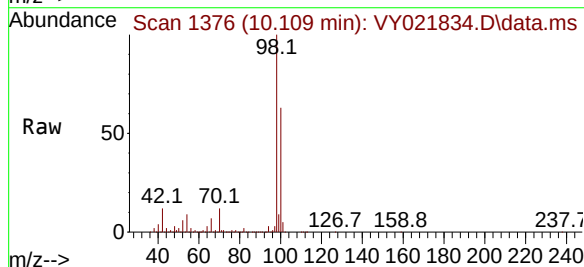
Acq: 10 Apr 2025 13:40

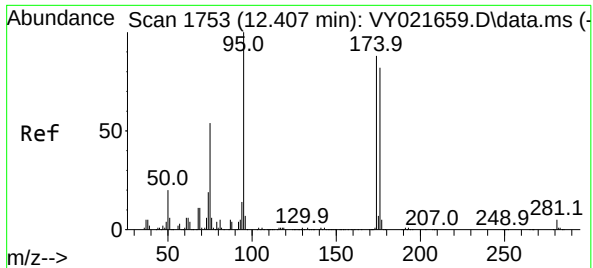
Tgt Ion: 98 Resp: 482801

Ion Ratio Lower Upper

98 100

100 63.9 52.1 78.1

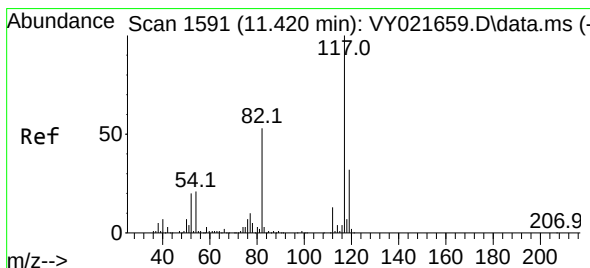
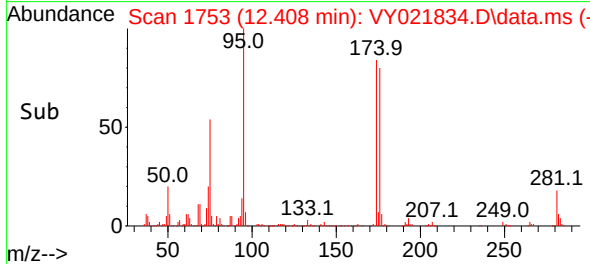
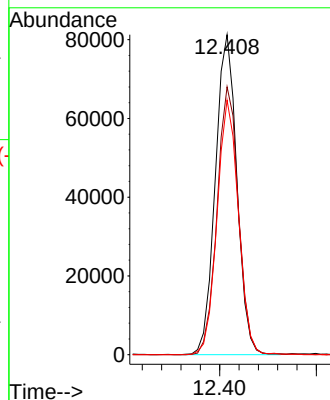
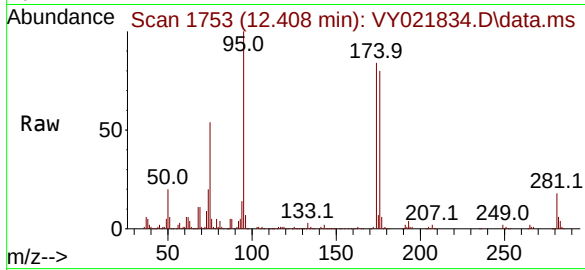




#62
4-Bromofluorobenzene
Concen: 37.523 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021834.D
Acq: 10 Apr 2025 13:40

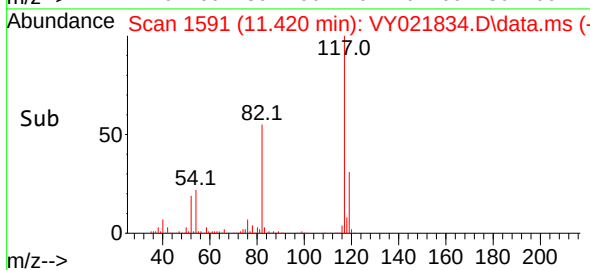
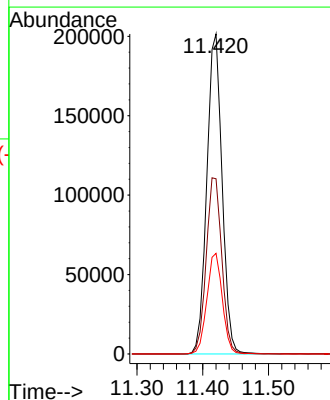
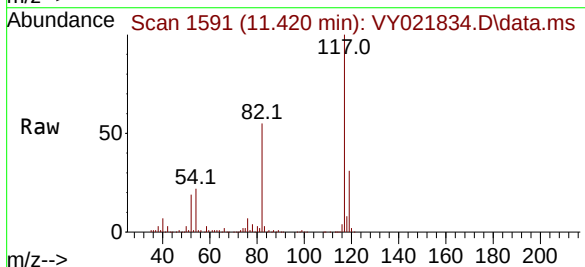
Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB02

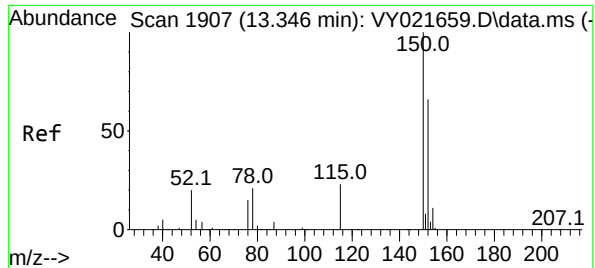
Tgt Ion: 95 Resp: 125419
Ion Ratio Lower Upper
95 100
174 83.1 0.0 170.8
176 79.0 0.0 162.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.000 min
Lab File: VY021834.D
Acq: 10 Apr 2025 13:40

Tgt Ion: 117 Resp: 325268
Ion Ratio Lower Upper
117 100
82 54.7 42.8 64.2
119 31.4 25.7 38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY021834.D

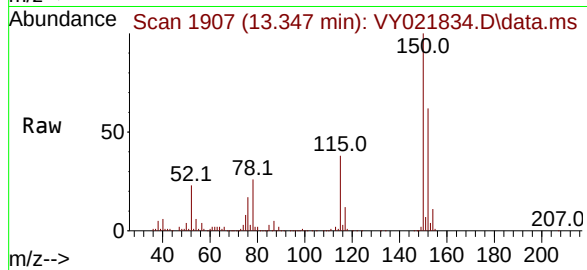
Acq: 10 Apr 2025 13:40

Instrument :

MSVOA_Y

ClientSampleId :

B-149-SB02



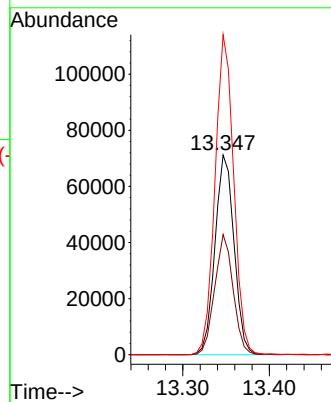
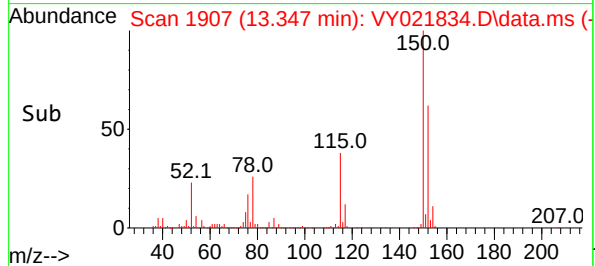
Tgt Ion:152 Resp: 109046

Ion Ratio Lower Upper

152 100

115 58.2 28.8 86.5

150 156.9 0.0 348.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
 Data File : VY021834.D
 Acq On : 10 Apr 2025 13:40
 Operator : SY/MD
 Sample : Q1746-03
 Misc : 4.74g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-149-SB02

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Title : SW846 8260

Signal : TIC: VY021834.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.824	11	17	28	rVB2	23401	37328	2.89%	0.543%
2	2.172	70	74	83	rBV4	11032	24552	1.90%	0.357%
3	3.873	342	353	371	rBV	68146	198856	15.41%	2.895%
4	4.110	383	392	406	rVB	7843	22159	1.72%	0.323%
5	4.610	467	474	487	rBV5	7480	26182	2.03%	0.381%
6	6.896	838	849	861	rBV	24858	71839	5.57%	1.046%
7	7.634	960	970	976	rBV	190203	455512	35.30%	6.631%
8	7.707	976	982	995	rVB	288687	664631	51.50%	9.675%
9	8.061	1031	1040	1051	rBV	158220	349245	27.06%	5.084%
10	8.616	1121	1131	1141	rBV	486684	951538	73.74%	13.851%
11	10.109	1367	1376	1384	rBV	763101	1290430	100.00%	18.785%
12	11.420	1583	1591	1603	rBV	618786	1023980	79.35%	14.906%
13	11.640	1615	1627	1635	rVB6	8485	19251	1.49%	0.280%
14	12.408	1747	1753	1766	rVB2	478793	840413	65.13%	12.234%
15	12.731	1802	1806	1812	rVB2	20567	31893	2.47%	0.464%
16	13.347	1900	1907	1916	rVB	449069	680762	52.75%	9.910%
17	13.676	1955	1961	1965	rBV2	19975	30485	2.36%	0.444%
18	13.889	1987	1996	2001	rBV2	80435	133071	10.31%	1.937%
19	14.529	2097	2101	2108	rBV2	11671	17487	1.36%	0.255%

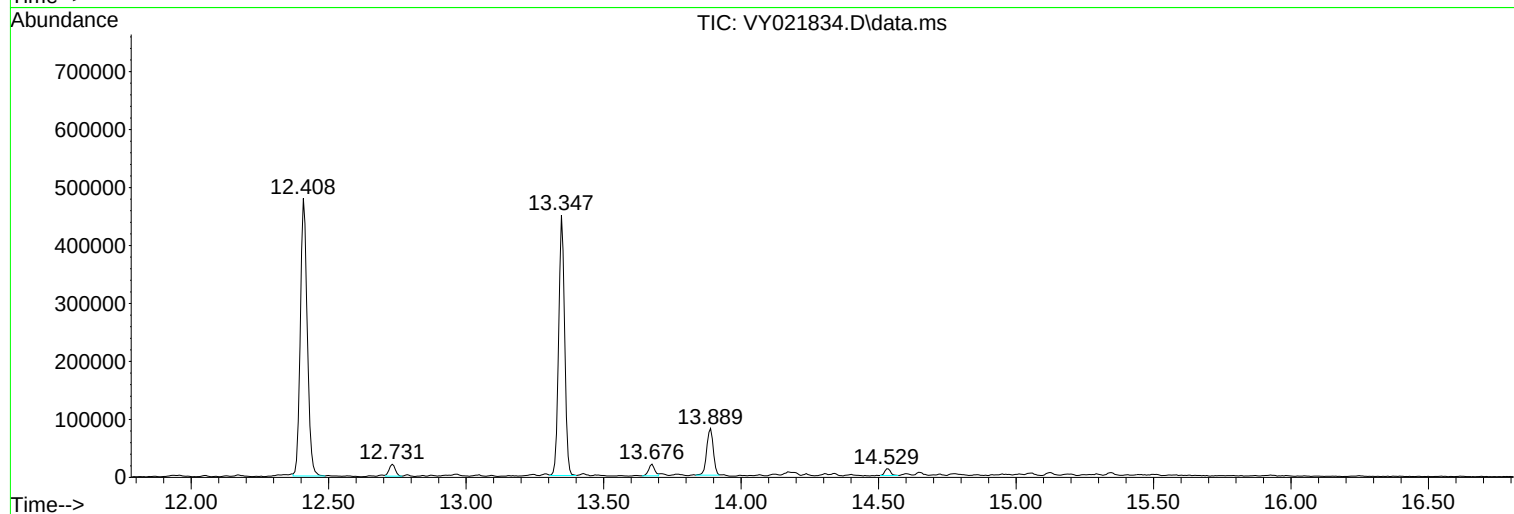
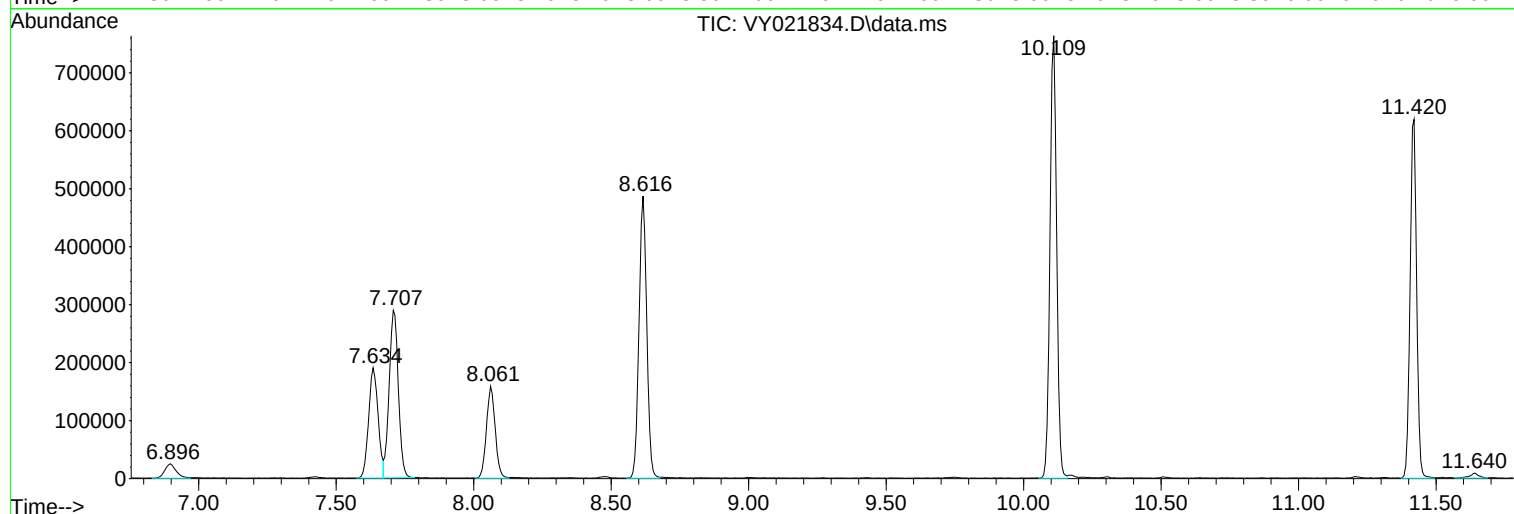
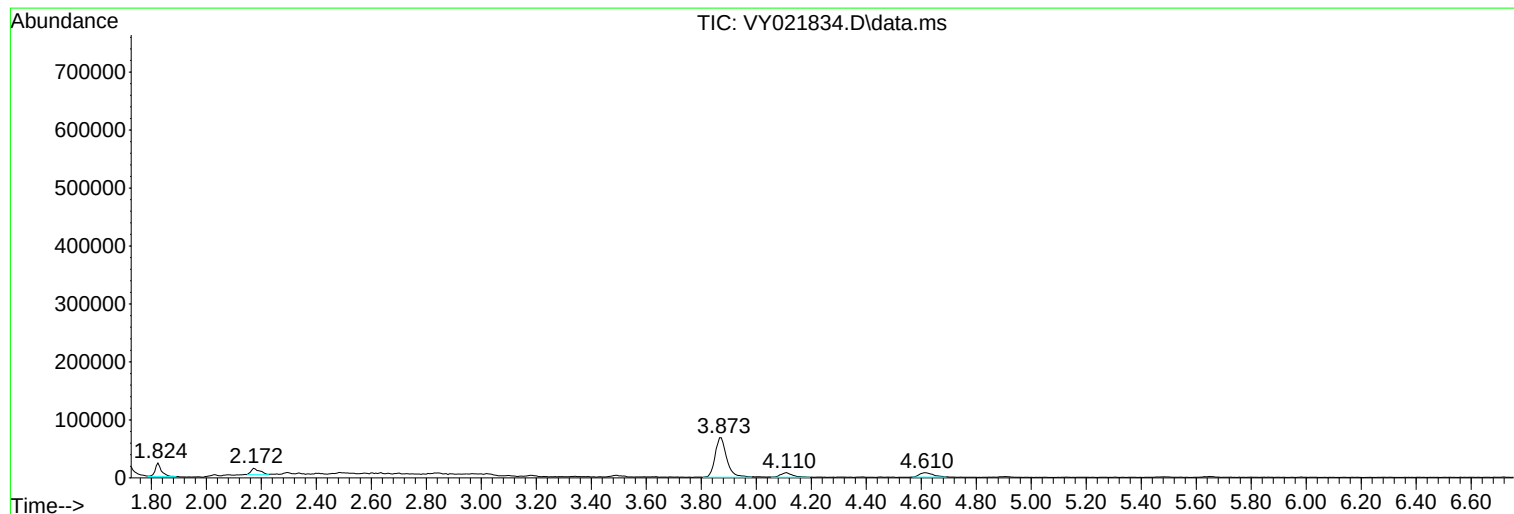
Sum of corrected areas: 6869614

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021834.D
Acq On : 10 Apr 2025 13:40
Operator : SY/MD
Sample : Q1746-03
Misc : 4.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021834.D
Acq On : 10 Apr 2025 13:40
Operator : SY/MD
Sample : Q1746-03
Misc : 4.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021834.D
Acq On : 10 Apr 2025 13:40
Operator : SY/MD
Sample : Q1746-03
Misc : 4.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045631.D	1		04/07/25 16:08	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	17.4		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	30.2		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	10.8		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	24.9		0.14	1.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045631.D	1		04/07/25 16:08	VX040725

[illegible]

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045631.D	1		04/07/25 16:08	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	6.10	J		12.3	ug/L
001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	5.60	J		12.5	ug/L
000535-77-3	Benzene, 1-methyl-3-(1-methylethyl)-	11.9	J		12.6	ug/L
000488-23-3	Benzene, 1,2,3,4-tetramethyl-	11.1	J		12.9	ug/L
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	17.5	J		13.0	ug/L
002039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	16.0	J		13.3	ug/L
000275-51-4	Azulene	9.00	J		13.8	ug/L

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
 Data File : VX045631.D
 Acq On : 07 Apr 2025 16:08
 Operator : JC/MD
 Sample : Q1746-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 B-158-GW01

Quant Time: Apr 08 01:36:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Compound	R.T. QIon		Response	Conc	Units	Dev(Min)

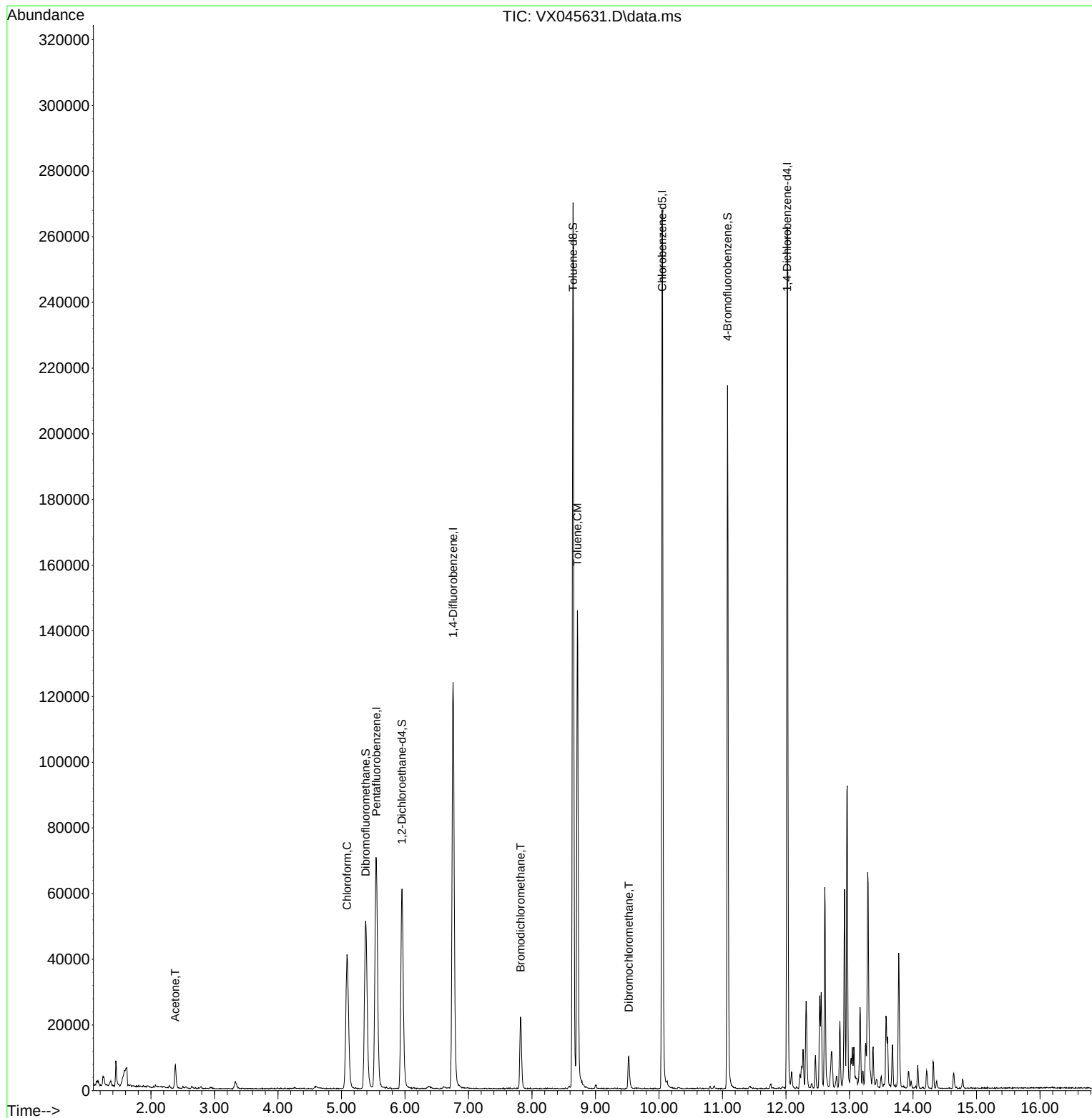
Internal Standards						
1) Pentafluorobenzene	5.550	168	60555	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	119845	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	111495	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	47595	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	61948	55.940	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	111.880%
35) Dibromofluoromethane	5.379	113	44324	52.127	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	104.260%
50) Toluene-d8	8.647	98	152795	51.483	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.960%
62) 4-Bromofluorobenzene	11.079	95	55792	51.609	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	103.220%
Target Compounds						Qvalue
16) Acetone	2.380	43	7924	17.426	ug/l	98
30) Chloroform	5.087	83	47780	30.219	ug/l	93
47) Bromodichloromethane	7.818	83	14500	10.811	ug/l	99
52) Toluene	8.714	92	52834	24.902	ug/l	100
60) Dibromochloromethane	9.525	129	4623	5.016	ug/l	95

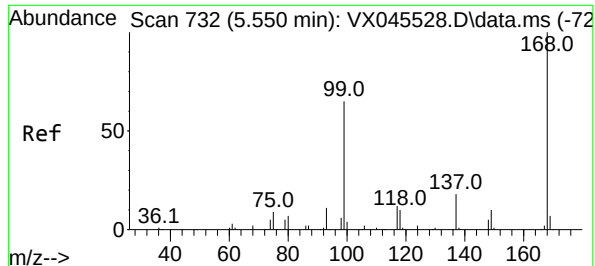
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045631.D
Acq On : 07 Apr 2025 16:08
Operator : JC/MD
Sample : Q1746-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

Quant Time: Apr 08 01:36:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.550 min Scan# 71

Delta R.T. -0.000 min

Lab File: VX045631.D

Acq: 07 Apr 2025 16:08

Instrument :

MSVOA_X

ClientSampleId :

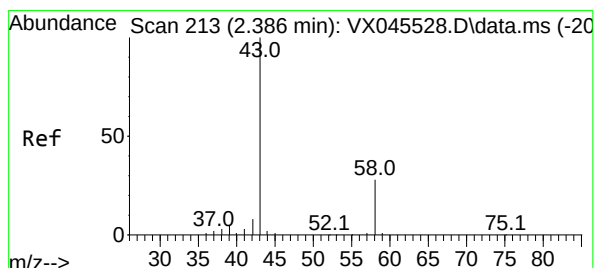
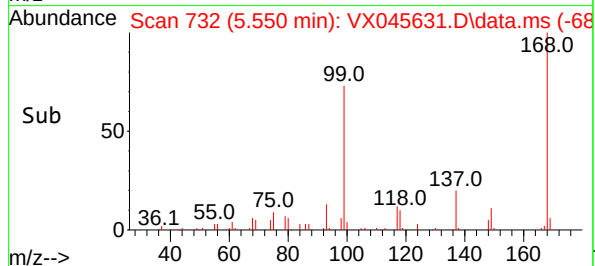
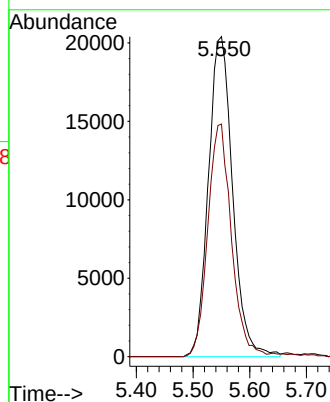
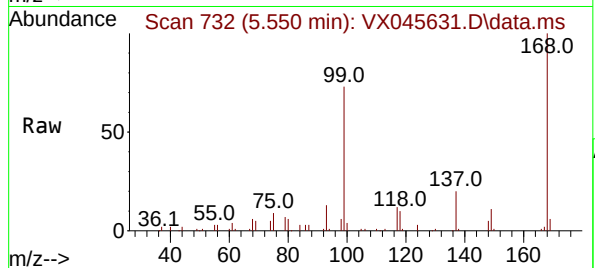
B-158-GW01

Tgt Ion:168 Resp: 60555

Ion Ratio Lower Upper

168 100

99 72.7 52.3 78.5



#16

Acetone

Concen: 17.426 ug/l

RT: 2.380 min Scan# 212

Delta R.T. -0.006 min

Lab File: VX045631.D

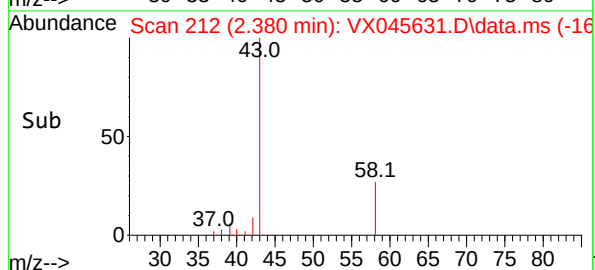
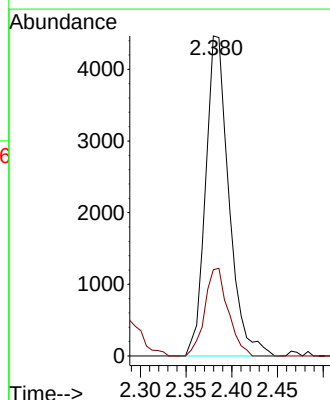
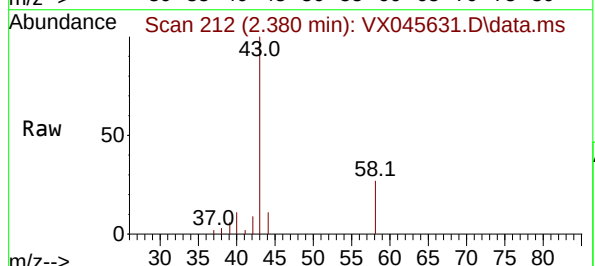
Acq: 07 Apr 2025 16:08

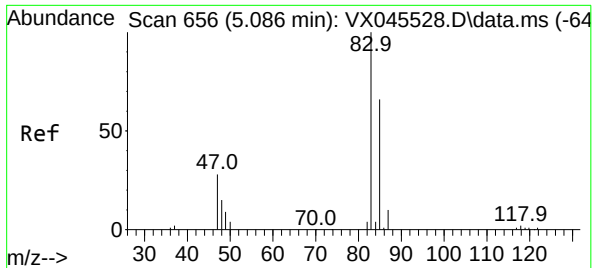
Tgt Ion: 43 Resp: 7924

Ion Ratio Lower Upper

43 100

58 27.0 22.3 33.5





#30

Chloroform

Concen: 30.219 ug/l

RT: 5.087 min Scan# 61

Delta R.T. 0.000 min

Lab File: VX045631.D

Acq: 07 Apr 2025 16:08

Instrument :

MSVOA_X

ClientSampleId :

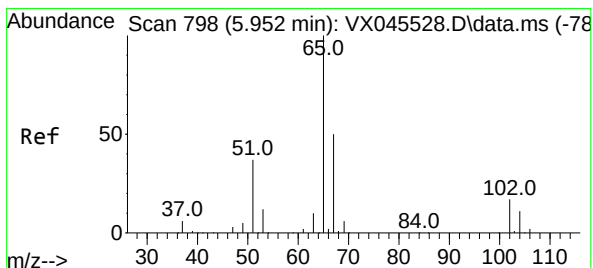
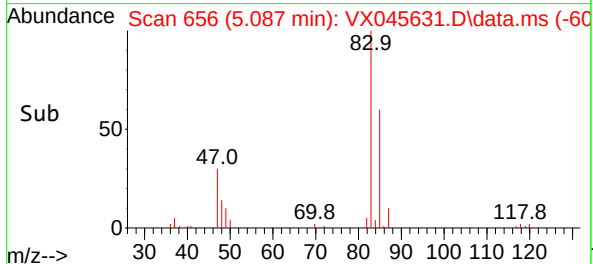
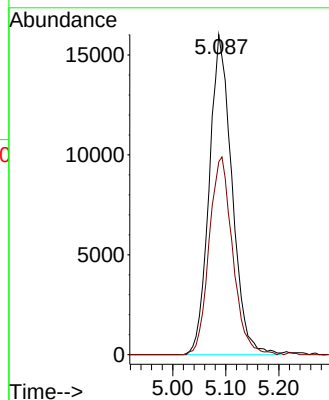
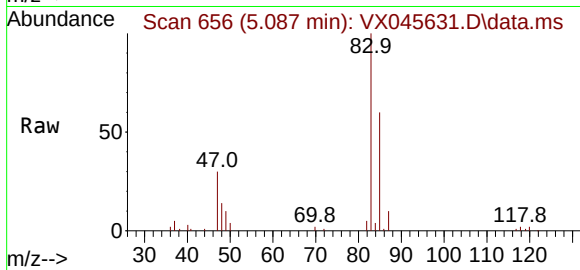
B-158-GW01

Tgt Ion: 83 Resp: 47780

Ion Ratio Lower Upper

83 100

85 60.2 52.8 79.2



#33

1,2-Dichloroethane-d4

Concen: 55.940 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045631.D

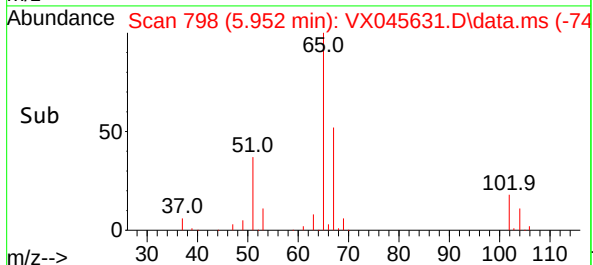
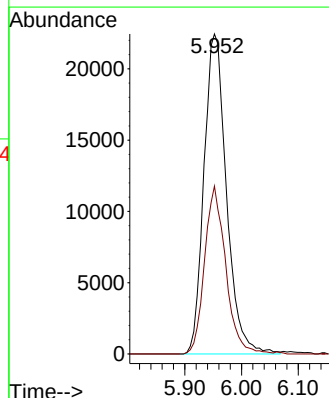
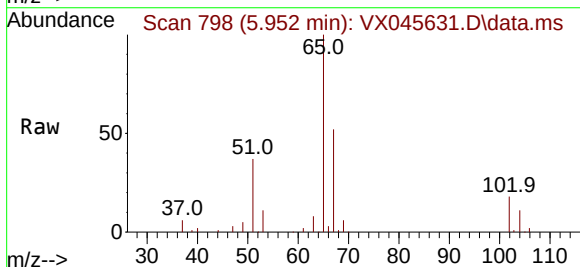
Acq: 07 Apr 2025 16:08

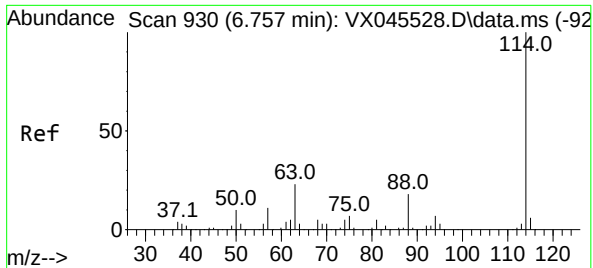
Tgt Ion: 65 Resp: 61948

Ion Ratio Lower Upper

65 100

67 49.2 0.0 99.0

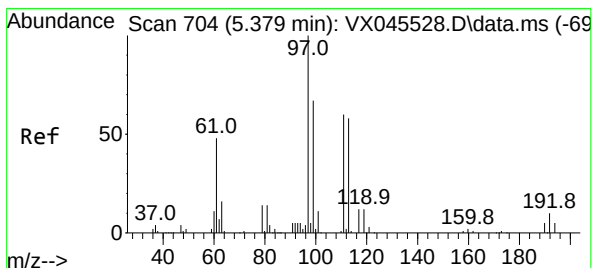
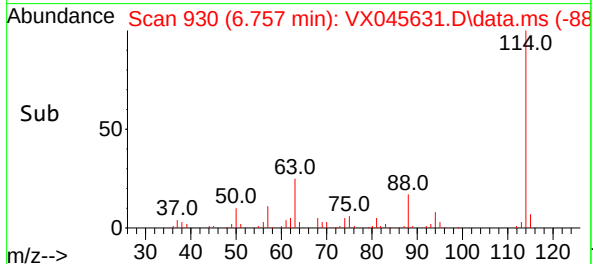
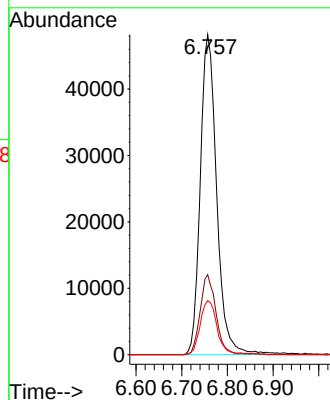
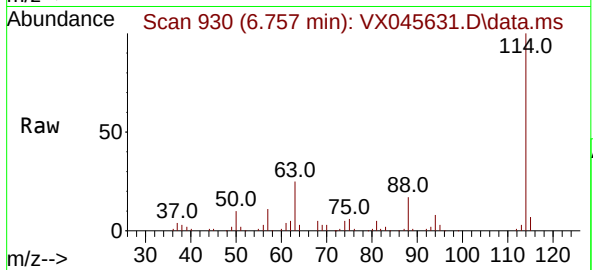




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX045631.D
Acq: 07 Apr 2025 16:08

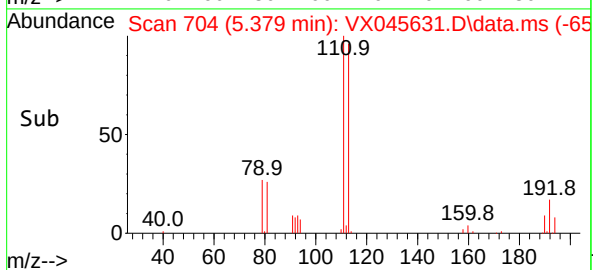
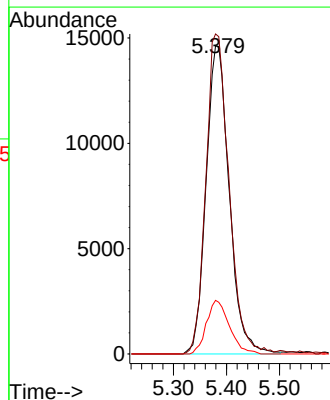
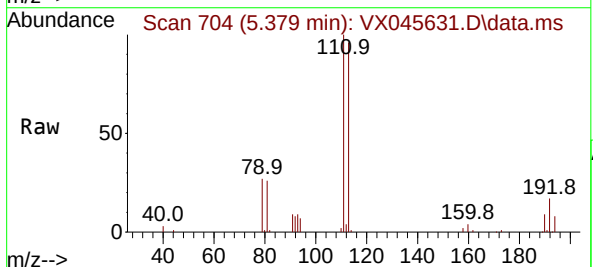
Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

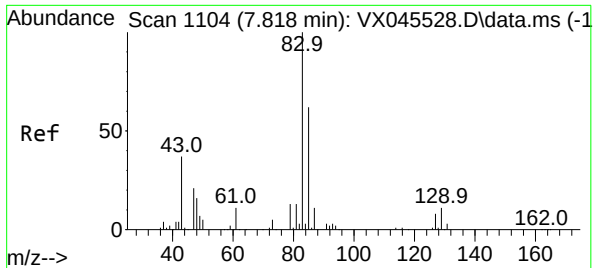
Tgt Ion:114 Resp: 119845
Ion Ratio Lower Upper
114 100
63 25.0 0.0 46.8
88 16.9 0.0 35.4



#35
Dibromofluoromethane
Concen: 52.127 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX045631.D
Acq: 07 Apr 2025 16:08

Tgt Ion:113 Resp: 44324
Ion Ratio Lower Upper
113 100
111 103.9 81.8 122.6
192 17.2 13.8 20.6





#47

Bromodichloromethane

Concen: 10.811 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX045631.D

Acq: 07 Apr 2025 16:08

Instrument :

MSVOA_X

ClientSampleId :

B-158-GW01

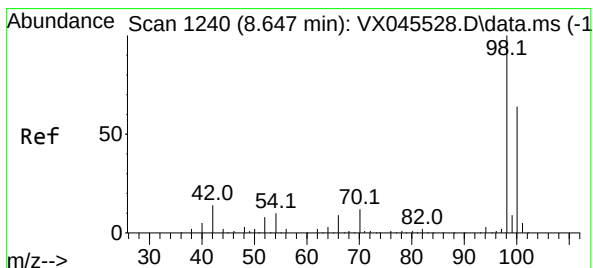
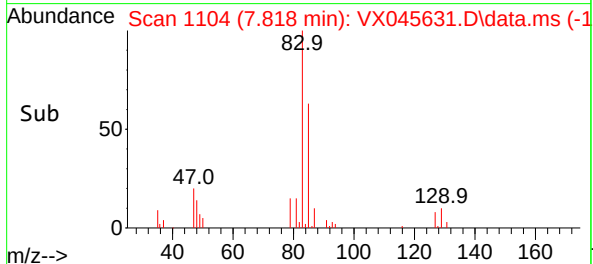
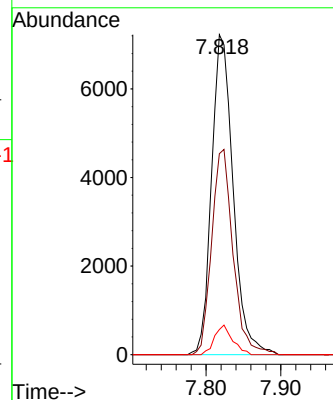
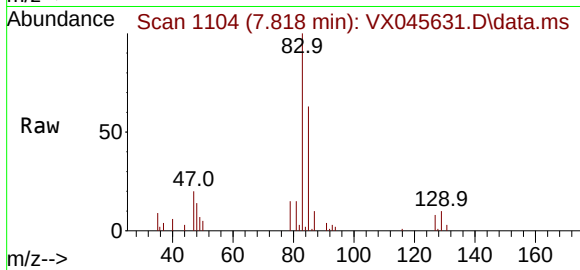
Tgt Ion: 83 Resp: 14500

Ion Ratio Lower Upper

83 100

85 62.8 49.7 74.5

127 7.9 6.1 9.1



#50

Toluene-d8

Concen: 51.483 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX045631.D

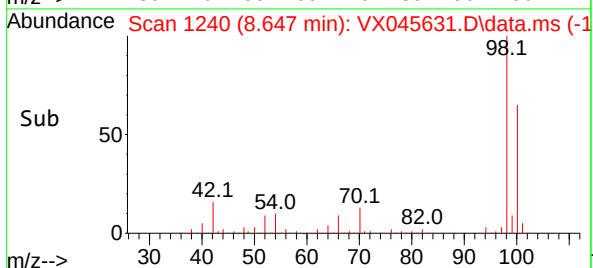
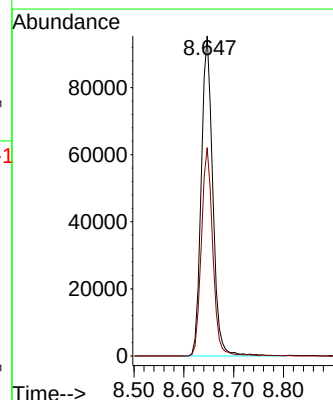
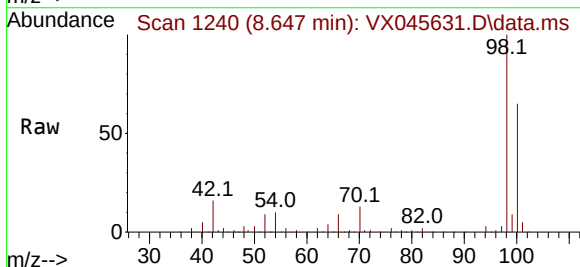
Acq: 07 Apr 2025 16:08

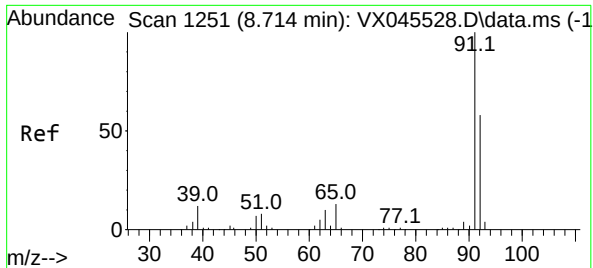
Tgt Ion: 98 Resp: 152795

Ion Ratio Lower Upper

98 100

100 64.3 52.2 78.4

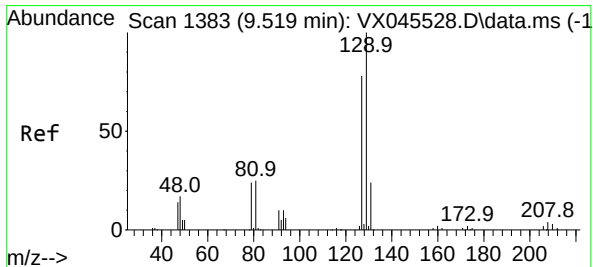
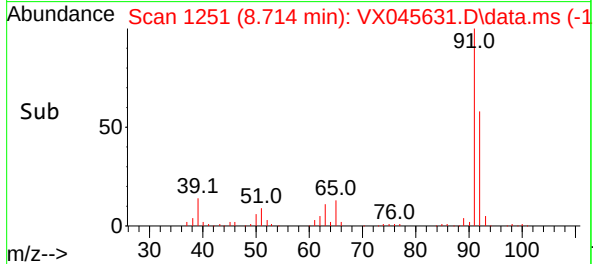
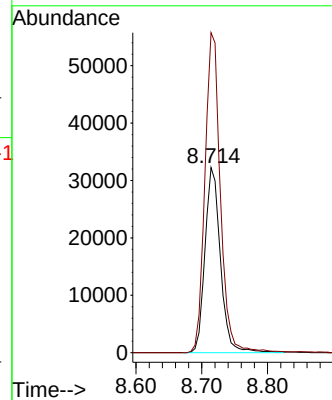
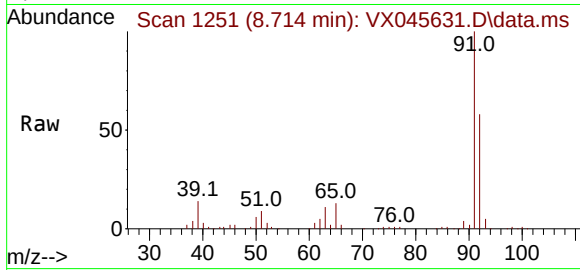




#52
Toluene
Concen: 24.902 ug/l
RT: 8.714 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX045631.D
Acq: 07 Apr 2025 16:08

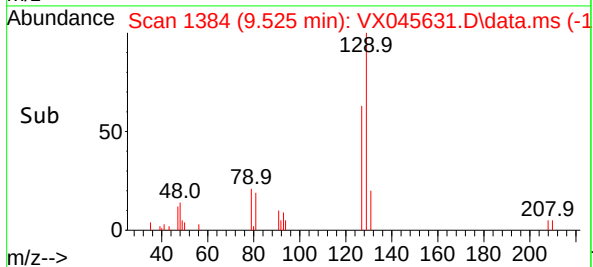
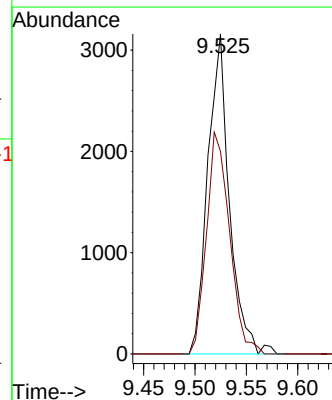
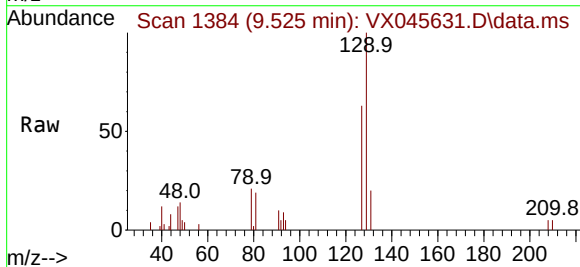
Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

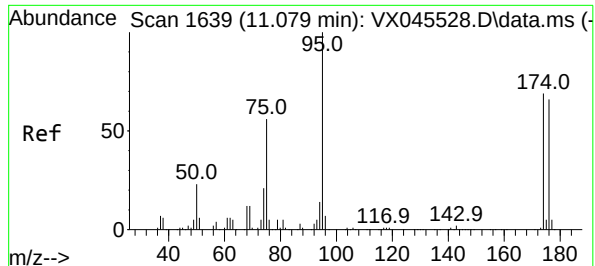
Tgt Ion: 92 Resp: 52834
Ion Ratio Lower Upper
92 100
91 173.2 138.7 208.1



#60
Dibromochloromethane
Concen: 5.016 ug/l
RT: 9.525 min Scan# 1384
Delta R.T. 0.006 min
Lab File: VX045631.D
Acq: 07 Apr 2025 16:08

Tgt Ion: 129 Resp: 4623
Ion Ratio Lower Upper
129 100
127 74.2 39.4 118.2

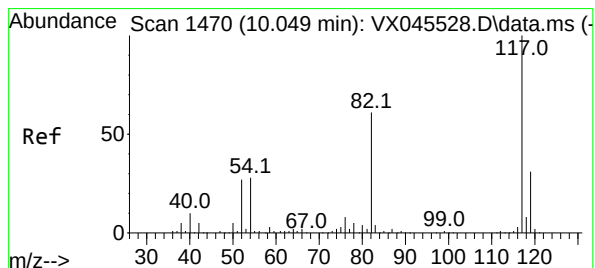
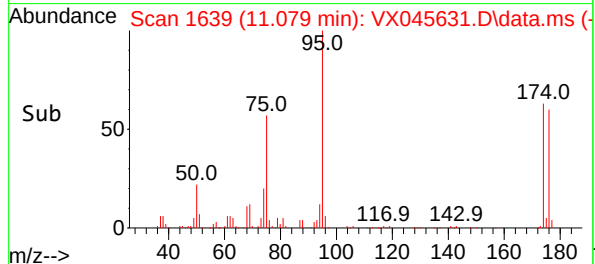
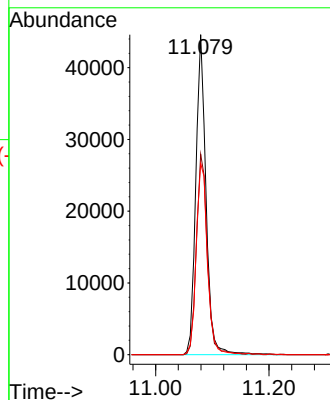
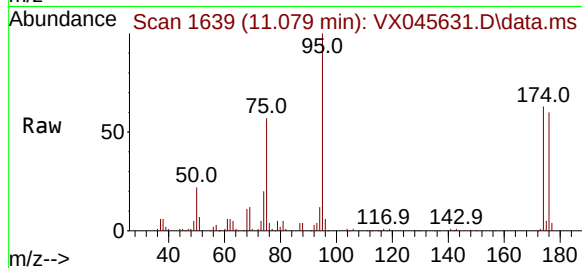




#62
4-Bromofluorobenzene
Concen: 51.609 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045631.D
Acq: 07 Apr 2025 16:08

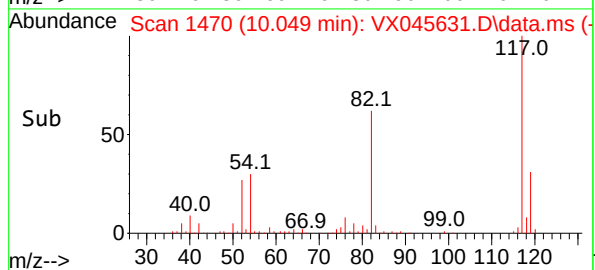
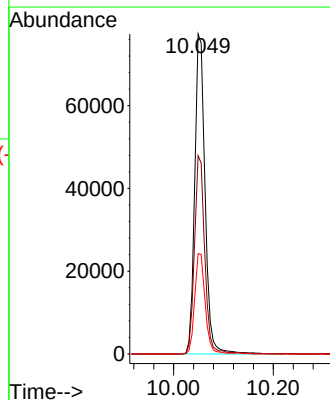
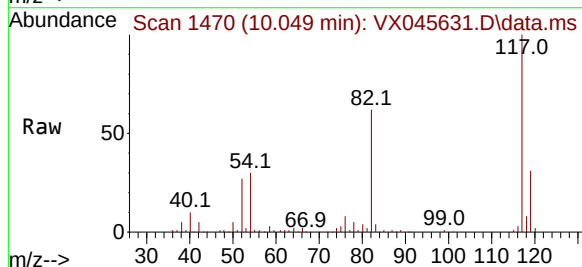
Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

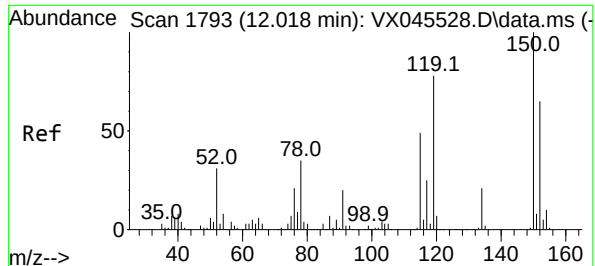
Tgt Ion: 95 Resp: 55792
Ion Ratio Lower Upper
95 100
174 66.9 0.0 135.8
176 65.6 0.0 131.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045631.D
Acq: 07 Apr 2025 16:08

Tgt Ion: 117 Resp: 111495
Ion Ratio Lower Upper
117 100
82 62.0 49.2 73.8
119 31.3 25.1 37.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX045631.D

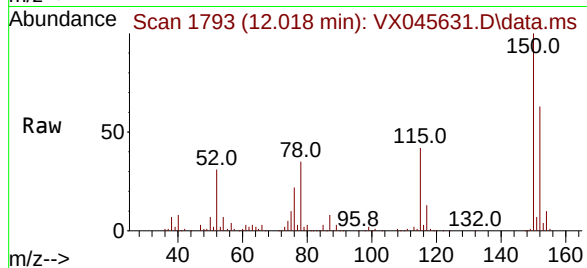
Acq: 07 Apr 2025 16:08

Instrument :

MSVOA_X

ClientSampleId :

B-158-GW01



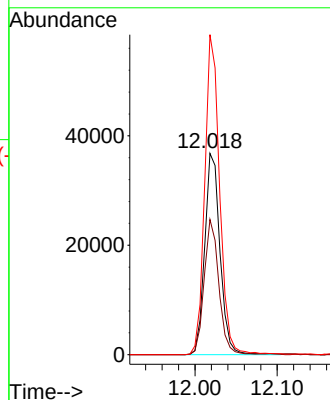
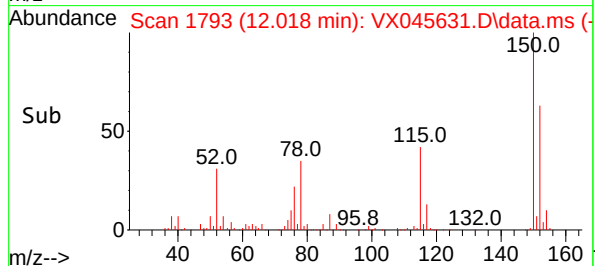
Tgt Ion:152 Resp: 47595

Ion Ratio Lower Upper

152 100

115 64.4 46.9 140.7

150 155.0 0.0 349.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
 Data File : VX045631.D
 Acq On : 07 Apr 2025 16:08
 Operator : JC/MD
 Sample : Q1746-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 B-158-GW01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Title : SW846 8260

Signal : TIC: VX045631.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.246	22	26	35	rBV3	2846	5693	1.35%	0.161%
2	1.447	56	59	66	rBV	7716	9607	2.27%	0.272%
3	1.581	69	81	82	rBV3	4797	11129	2.63%	0.315%
4	2.386	206	213	222	rBV	7182	12719	3.01%	0.360%
5	3.331	359	368	374	rBV4	2333	5844	1.38%	0.166%
6	5.087	645	656	671	rBV	40832	124395	29.42%	3.524%
7	5.379	692	704	720	rBV	51059	152838	36.15%	4.330%
8	5.544	722	731	742	rBV	69811	199402	47.16%	5.650%
9	5.952	789	798	815	rBV	60848	164489	38.91%	4.660%
10	6.757	921	930	944	rBV	123693	302729	71.60%	8.577%
11	7.818	1098	1104	1115	rBV	21838	42493	10.05%	1.204%
12	8.647	1233	1240	1246	rBV	269374	422784	100.00%	11.979%
13	8.714	1246	1251	1271	rVB	145252	240678	56.93%	6.819%
14	9.525	1377	1384	1398	rVB2	9829	17773	4.20%	0.504%
15	10.049	1465	1470	1480	rBV	267449	379650	89.80%	10.757%
16	11.079	1634	1639	1652	rBV	214049	277960	65.75%	7.875%
17	12.018	1788	1793	1801	rBV	262383	326602	77.25%	9.254%
18	12.085	1801	1804	1809	rVB2	4688	6636	1.57%	0.188%
19	12.219	1822	1826	1828	rBV3	4415	6582	1.56%	0.186%
20	12.250	1828	1831	1832	rVV2	6868	9337	2.21%	0.265%
21	12.268	1832	1834	1837	rVV	11914	12867	3.04%	0.365%
22	12.317	1837	1842	1851	rVB2	26410	39932	9.45%	1.131%
23	12.463	1862	1866	1871	rVB	10048	12378	2.93%	0.351%
24	12.530	1873	1877	1879	rBV	28111	36552	8.65%	1.036%
25	12.555	1879	1881	1886	rVV	28640	30734	7.27%	0.871%
26	12.610	1886	1890	1900	rVB	60696	77674	18.37%	2.201%
27	12.719	1901	1908	1914	rVB4	10945	22770	5.39%	0.645%
28	12.792	1914	1920	1924	rVB3	3427	4887	1.16%	0.138%
29	12.847	1924	1929	1934	rBV	20214	26694	6.31%	0.756%
30	12.921	1934	1941	1944	rBV	59716	72402	17.13%	2.051%
31	12.963	1944	1948	1954	rVB	90258	114576	27.10%	3.246%
32	13.024	1954	1958	1959	rBV2	7361	8673	2.05%	0.246%
33	13.042	1959	1961	1963	rVV2	9210	9576	2.26%	0.271%
34	13.067	1963	1965	1968	rVB	9176	9352	2.21%	0.265%
35	13.164	1975	1981	1986	rBV2	23535	32654	7.72%	0.925%
36	13.207	1986	1988	1991	rVB2	3996	4267	1.01%	0.121%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045631.D
Acq On : 07 Apr 2025 16:08
Operator : JC/MD
Sample : Q1746-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Title : SW846 8260

37	13.256	1991	1996	1998	rBV2	12464	18961	4.48%	0.537%
38	13.286	1998	2001	2011	rVB2	64441	104214	24.65%	2.953%
39	13.372	2011	2015	2020	rVB	11552	15102	3.57%	0.428%
40	13.500	2032	2036	2040	rBV3	3504	4884	1.16%	0.138%
41	13.573	2044	2048	2051	rBV2	20951	30480	7.21%	0.864%
42	13.676	2060	2065	2070	rBV	12814	16137	3.82%	0.457%
43	13.774	2073	2081	2089	rVB	40857	58892	13.93%	1.669%
44	13.926	2099	2106	2110	rBV2	5101	7770	1.84%	0.220%
45	14.073	2127	2130	2135	rVB	6983	8132	1.92%	0.230%
46	14.213	2146	2153	2159	rBV2	5446	7969	1.88%	0.226%
47	14.317	2166	2170	2175	rBV	8270	10422	2.47%	0.295%
48	14.640	2219	2223	2228	rBV	4637	6758	1.60%	0.191%
49	14.780	2240	2246	2252	rBV3	2801	4403	1.04%	0.125%

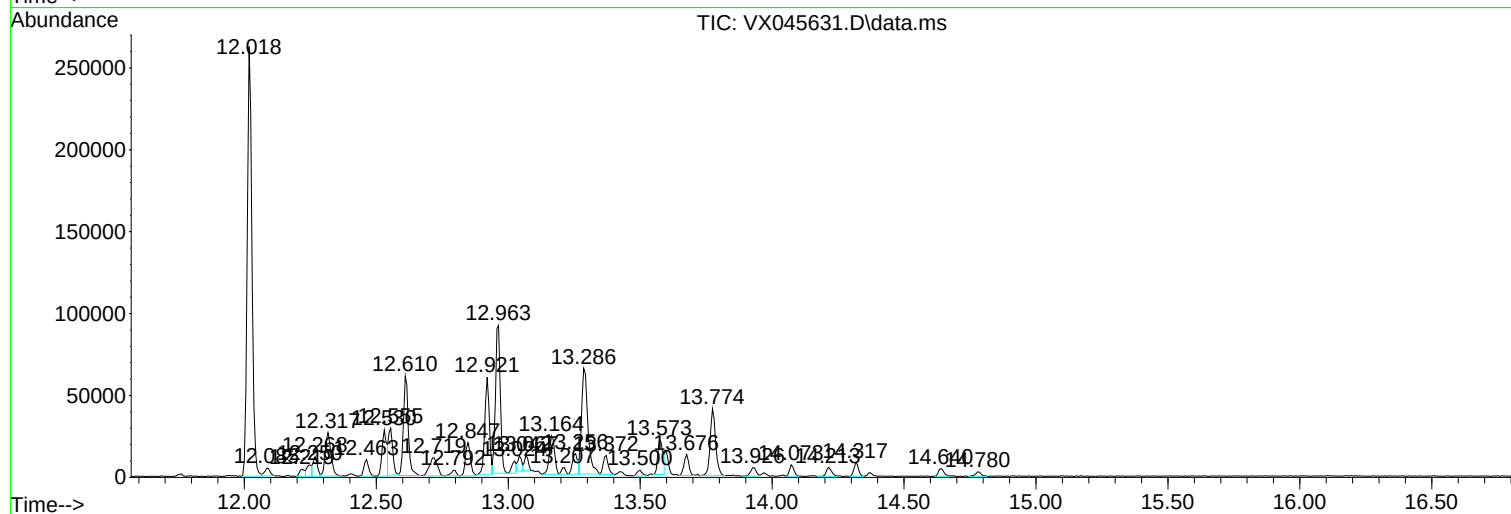
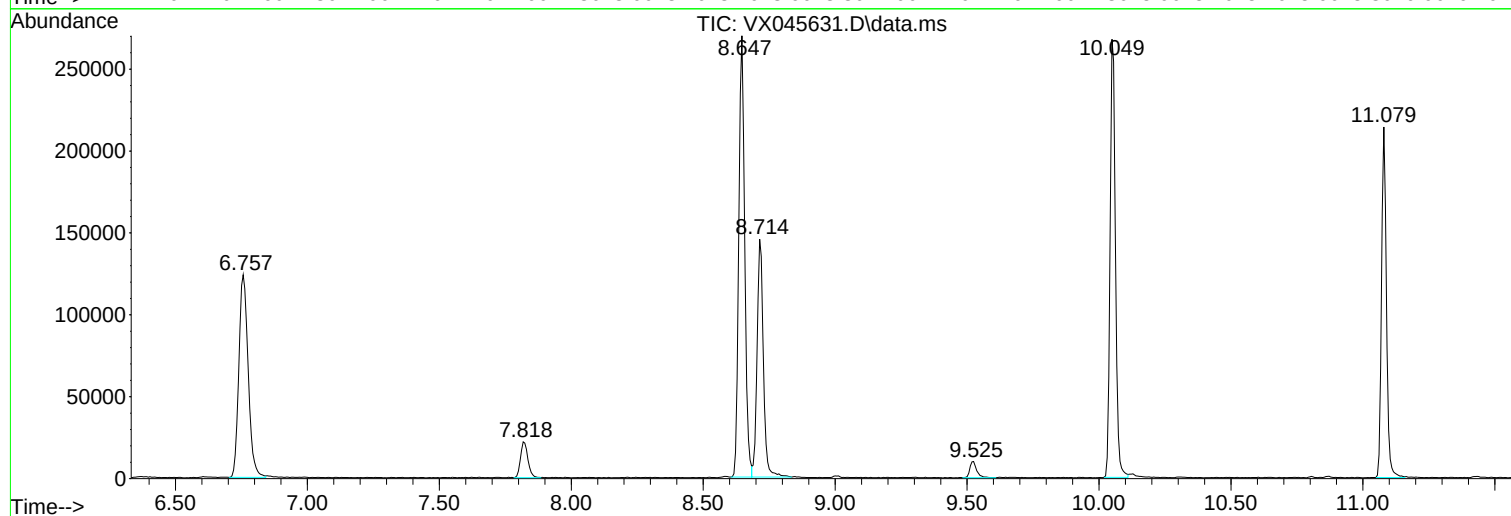
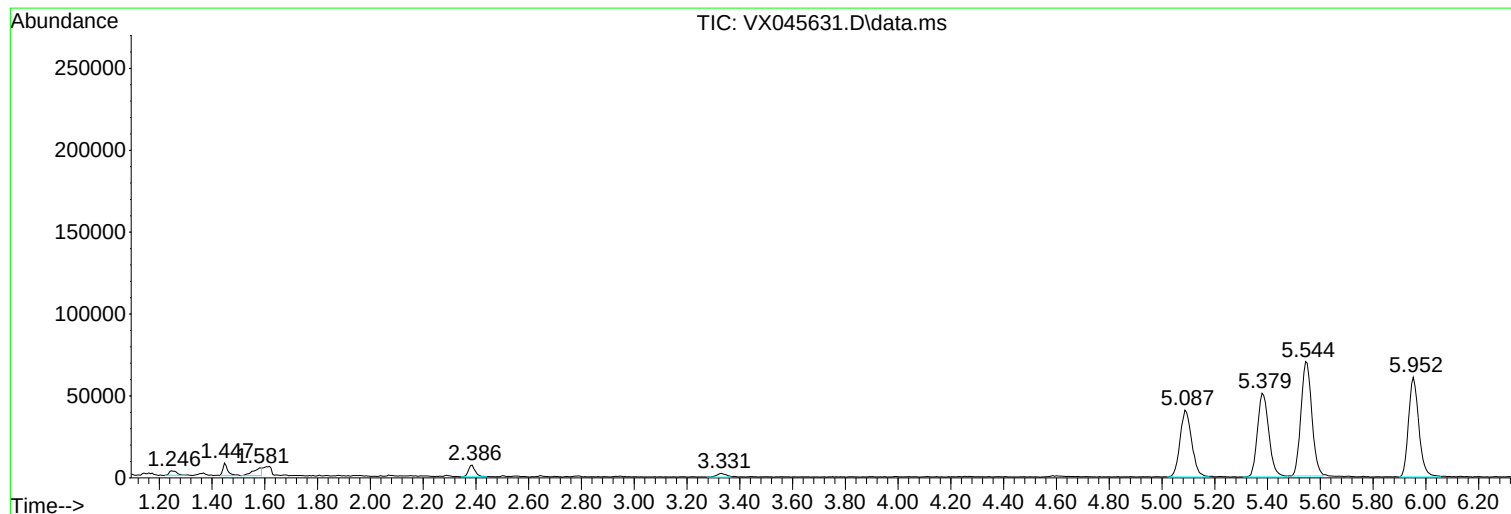
Sum of corrected areas: 3529452

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045631.D
Acq On : 07 Apr 2025 16:08
Operator : JC/MD
Sample : Q1746-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045631.D
Acq On : 07 Apr 2025 16:08
Operator : JC/MD
Sample : Q1746-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

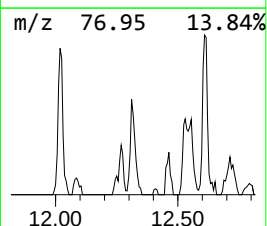
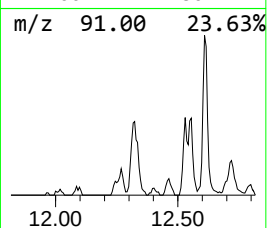
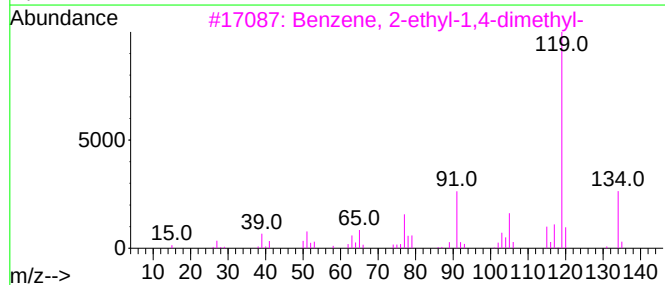
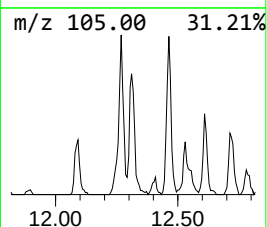
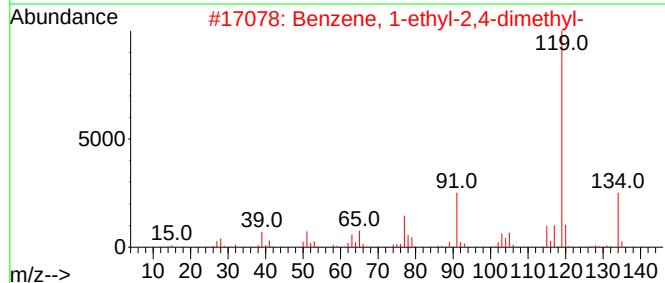
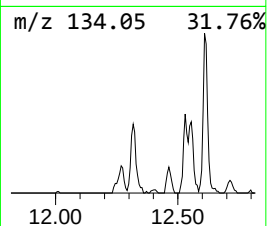
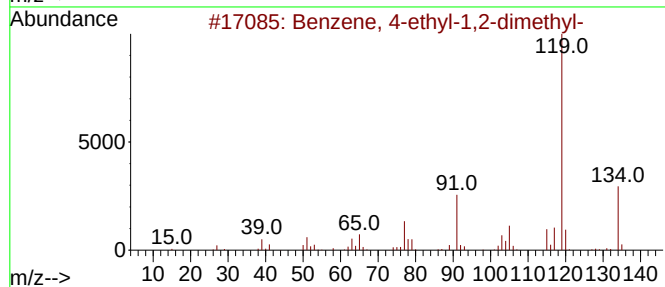
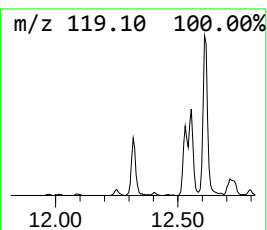
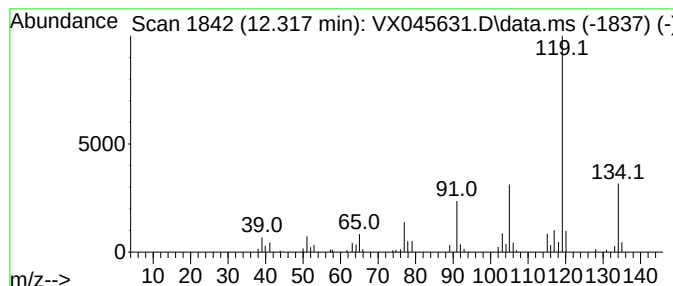
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.317	6.11 ug/l	39932	1,4-Dichlorobenzene-d4	12.018

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	94
2			Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	94
3			Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	93
4			o-Cymene	134	C10H14	000527-84-4	93
5			Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	93



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045631.D
Acq On : 07 Apr 2025 16:08
Operator : JC/MD
Sample : Q1746-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

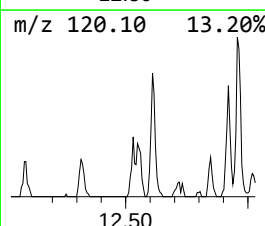
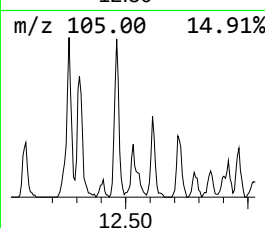
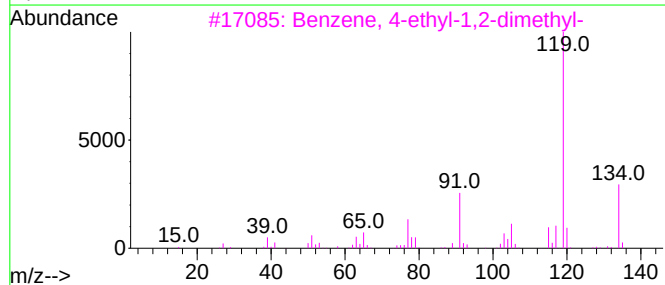
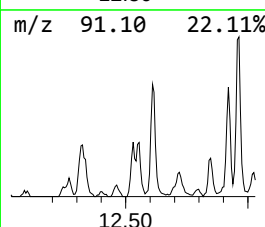
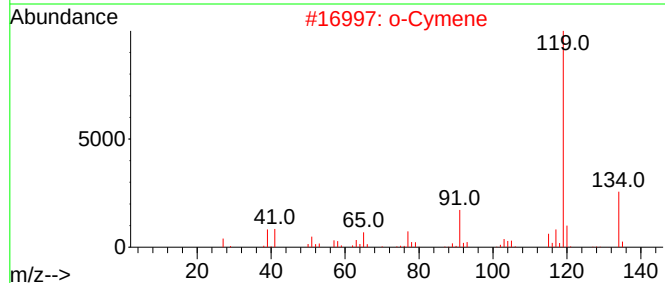
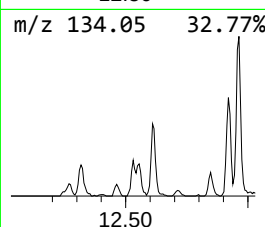
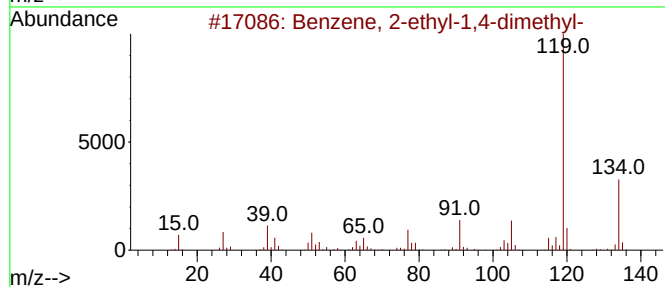
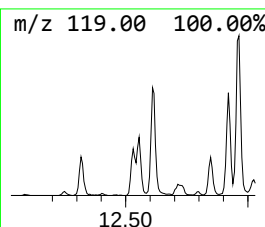
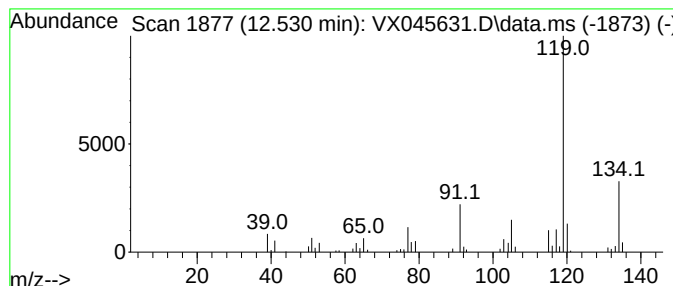
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.530	5.60 ug/l	36552	1,4-Dichlorobenzene-d4	12.018

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	95
2			o-Cymene	134	C10H14	000527-84-4	95
3			Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	95
4			Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	94
5			Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	93



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045631.D
Acq On : 07 Apr 2025 16:08
Operator : JC/MD
Sample : Q1746-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

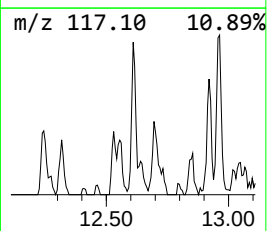
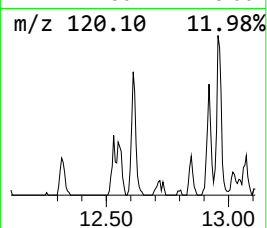
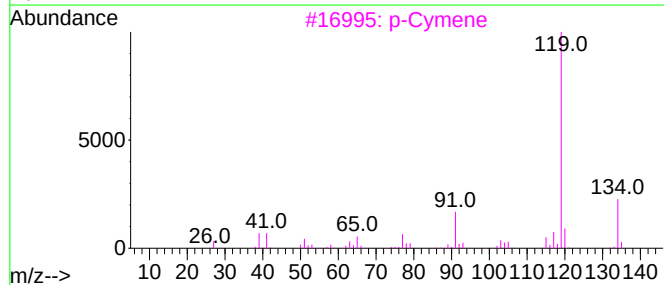
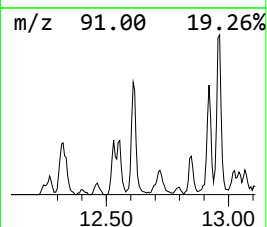
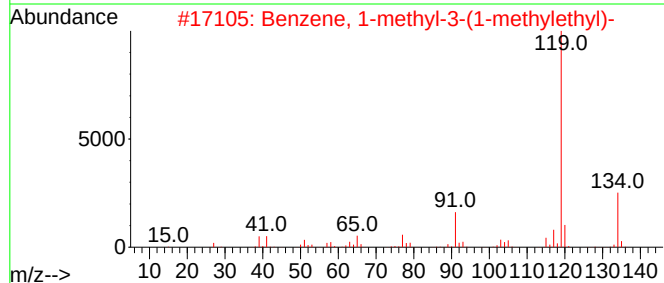
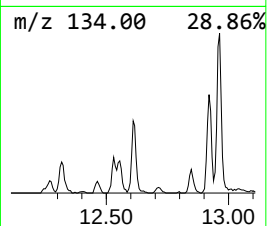
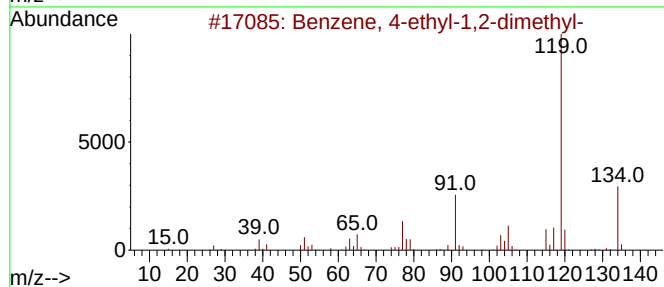
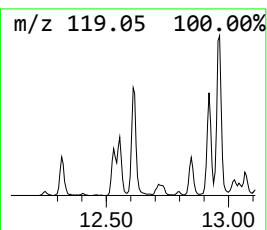
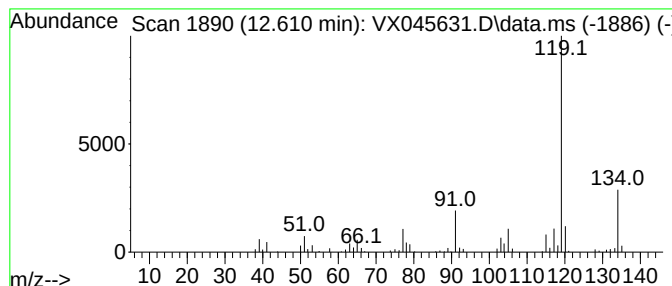
Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Benzene, 1-methyl-3-(1-meth... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.610	11.89 ug/l	77674	1,4-Dichlorobenzene-d4	12.018	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	96
2	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	95
3	p-Cymene	134	C10H14	000099-87-6	95
4	o-Cymene	134	C10H14	000527-84-4	95
5	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	95



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045631.D
Acq On : 07 Apr 2025 16:08
Operator : JC/MD
Sample : Q1746-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

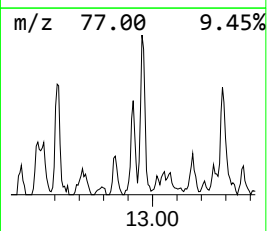
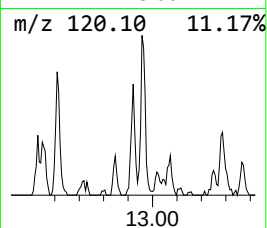
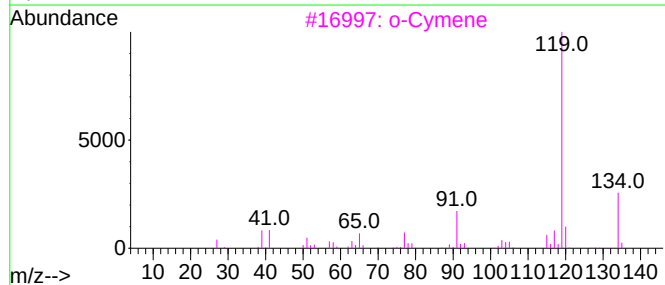
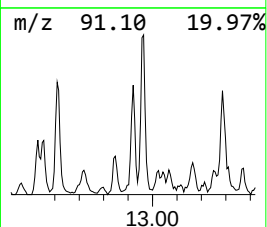
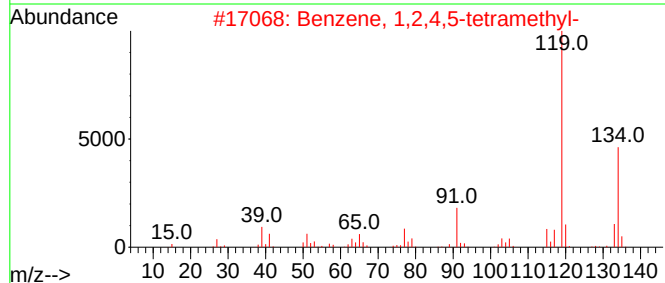
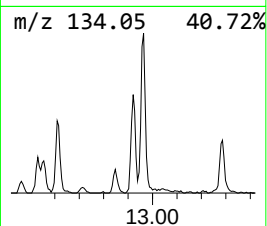
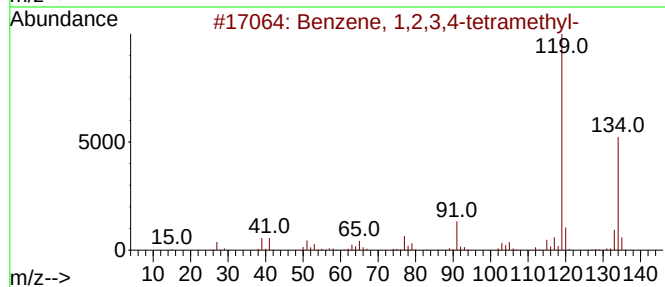
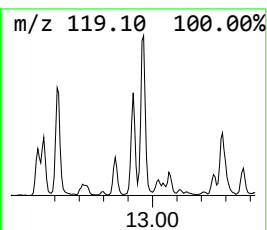
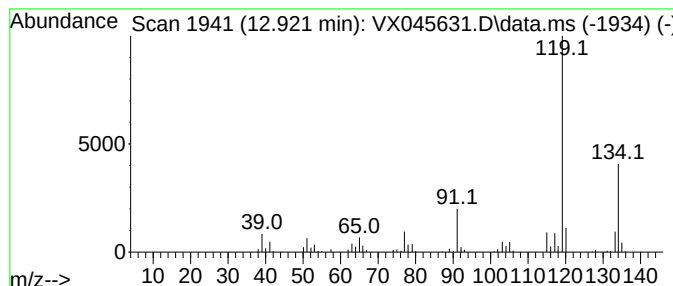
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Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.921	11.08 ug/l	72402	1,4-Dichlorobenzene-d4	12.018

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	96
2			Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	96
3			o-Cymene	134	C10H14	000527-84-4	95
4			1,3-Cyclopentadiene, 1,2,3,4-tet...	134	C10H14	076089-59-3	94
5			Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045631.D
Acq On : 07 Apr 2025 16:08
Operator : JC/MD
Sample : Q1746-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

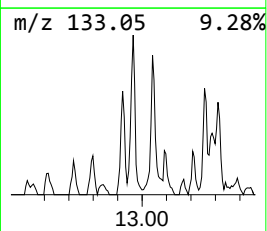
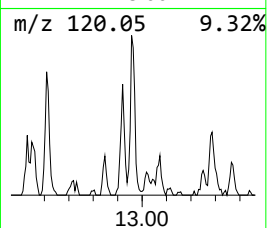
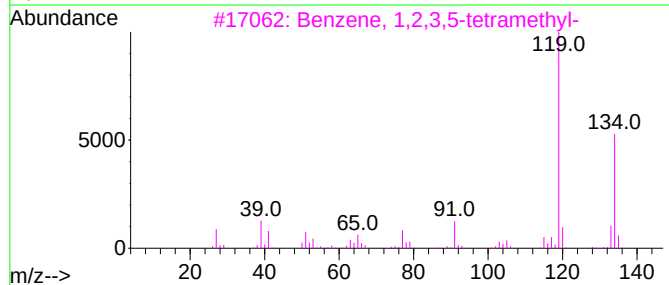
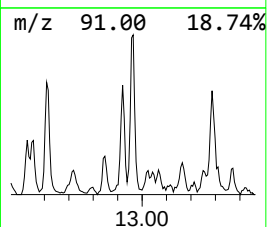
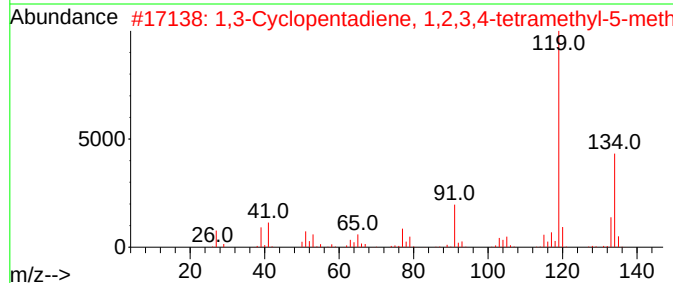
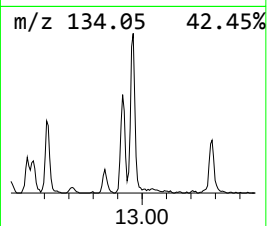
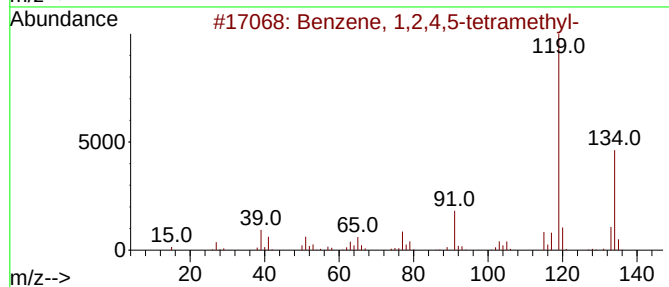
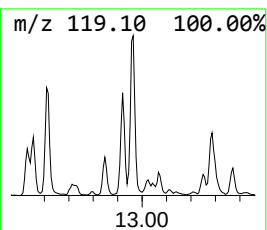
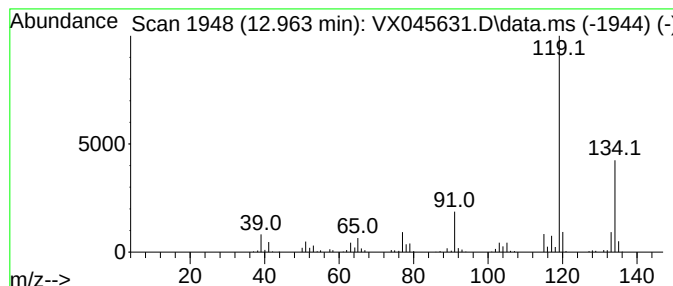
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Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.963	17.54 ug/l	114576	1,4-Dichlorobenzene-d4	12.018

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	96
2			1,3-Cyclopentadiene, 1,2,3,4-tet...	134	C10H14	076089-59-3	95
3			Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	95
4			Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
5			o-Cymene	134	C10H14	000527-84-4	95



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045631.D
Acq On : 07 Apr 2025 16:08
Operator : JC/MD
Sample : Q1746-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

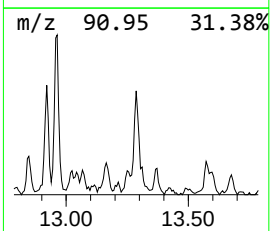
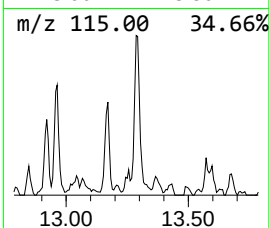
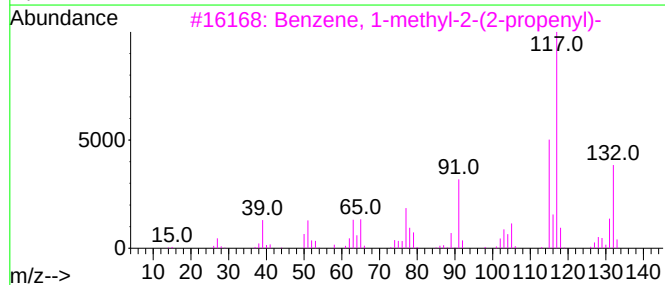
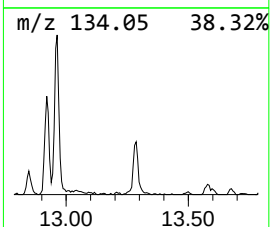
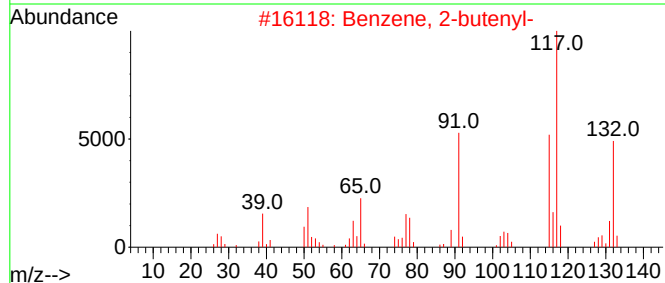
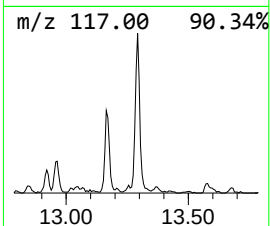
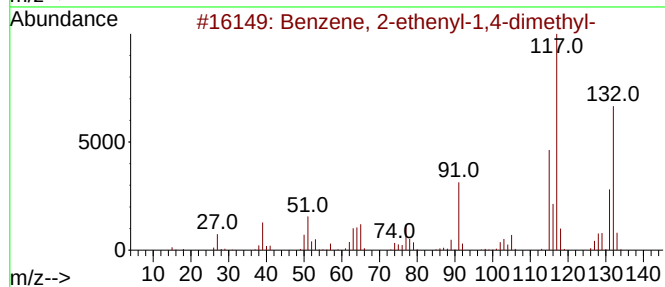
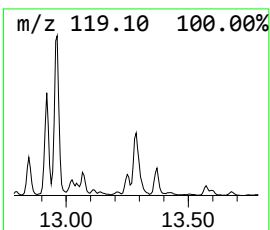
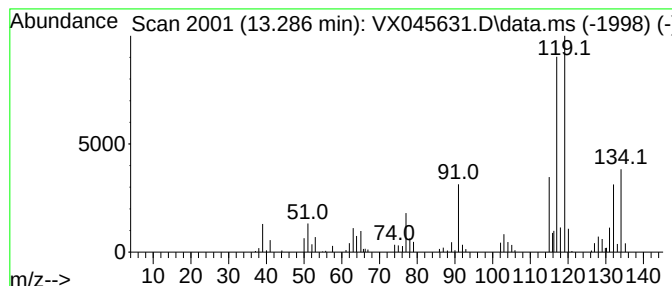
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 6 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.286	15.95 ug/l	104214	1,4-Dichlorobenzene-d4	12.018

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	89
2			Benzene, 2-butenyl-	132	C10H12	001560-06-1	87
3			Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	64
4			Benzene, 1-methyl-4-(2-propenyl)-	132	C10H12	003333-13-9	64
5			Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	55



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045631.D
Acq On : 07 Apr 2025 16:08
Operator : JC/MD
Sample : Q1746-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

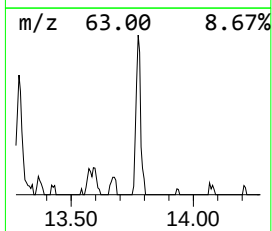
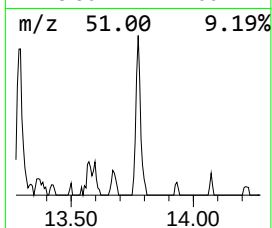
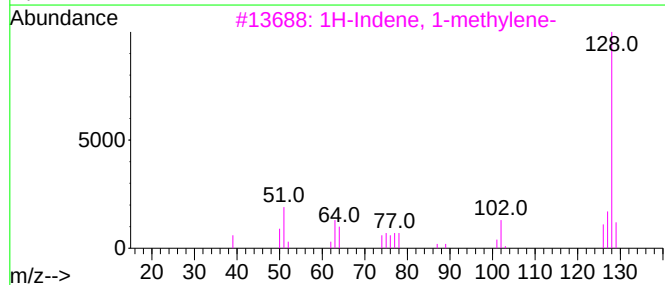
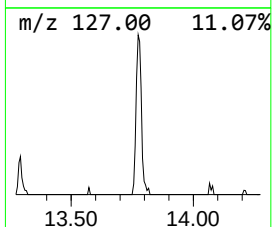
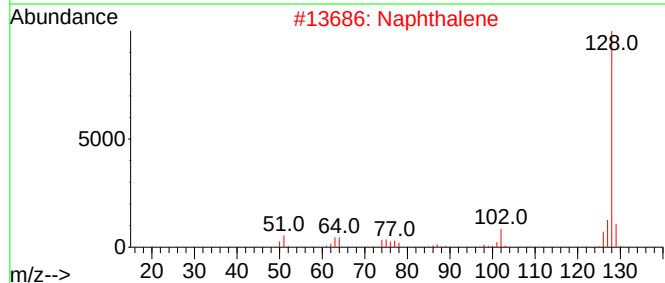
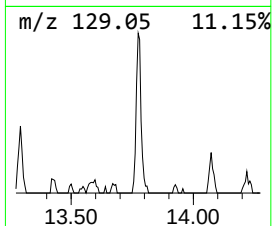
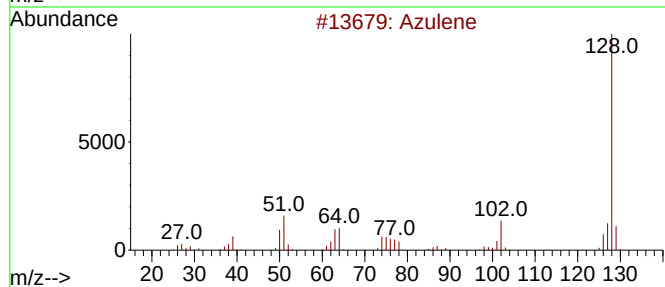
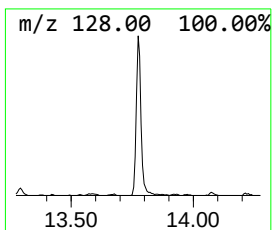
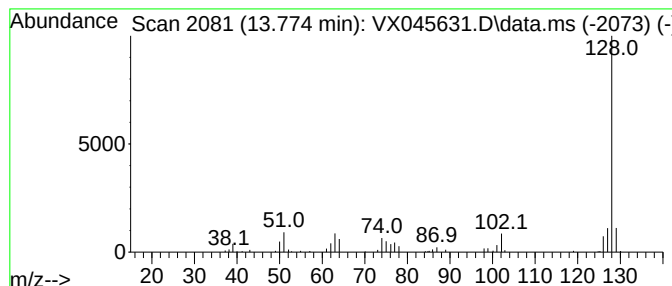
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Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 7 Azulene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.774	9.02 ug/l	58892	1,4-Dichlorobenzene-d4	12.018

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Azulene	128	C10H8	000275-51-4	95
2			Naphthalene	128	C10H8	000091-20-3	94
3			1H-Indene, 1-methylene-	128	C10H8	002471-84-3	80
4			4a,8a-(Methaniminomethano)naphth...	275	C18H13NO2	069915-10-2	64
5			[4.2.2]Propella-2,4,7,9-tetraene	128	C10H8	088090-34-0	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045631.D
Acq On : 07 Apr 2025 16:08
Operator : JC/MD
Sample : Q1746-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Benzene, 4-ethy...	12.317	6.1	ug/l	39932	4	12.018	326602	50.0
Benzene, 2-ethy...	12.530	5.6	ug/l	36552	4	12.018	326602	50.0
Benzene, 1-meth...	12.610	11.9	ug/l	77674	4	12.018	326602	50.0
Benzene, 1,2,3,...	12.921	11.1	ug/l	72402	4	12.018	326602	50.0
Benzene, 1,2,4,...	12.963	17.5	ug/l	114576	4	12.018	326602	50.0
Benzene, 2-ethe...	13.286	15.9	ug/l	104214	4	12.018	326602	50.0
Azulene	13.774	9.0	ug/l	58892	4	12.018	326602	50.0

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-06	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045632.D	1		04/07/25 16:31	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	12.6		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	1.00		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.51	J	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	26.6		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	11.0		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.92	J	0.14	1.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-06	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045632.D	1		04/07/25 16:31	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	6.00		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.7		70 (74) - 130 (125)	111%	SPK: 50
1868-53-7	Dibromofluoromethane	51.5		70 (75) - 130 (124)	103%	SPK: 50
2037-26-5	Toluene-d8	49.9		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.3		70 (77) - 130 (121)	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	67700	5.55			
540-36-3	1,4-Difluorobenzene	133000	6.757			
3114-55-4	Chlorobenzene-d5	121000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	48300	12.018			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-06	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045632.D	1		04/07/25 16:31	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
 Data File : VX045632.D
 Acq On : 07 Apr 2025 16:31
 Operator : JC/MD
 Sample : Q1746-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 B-149-GW01

Quant Time: Apr 08 01:36:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

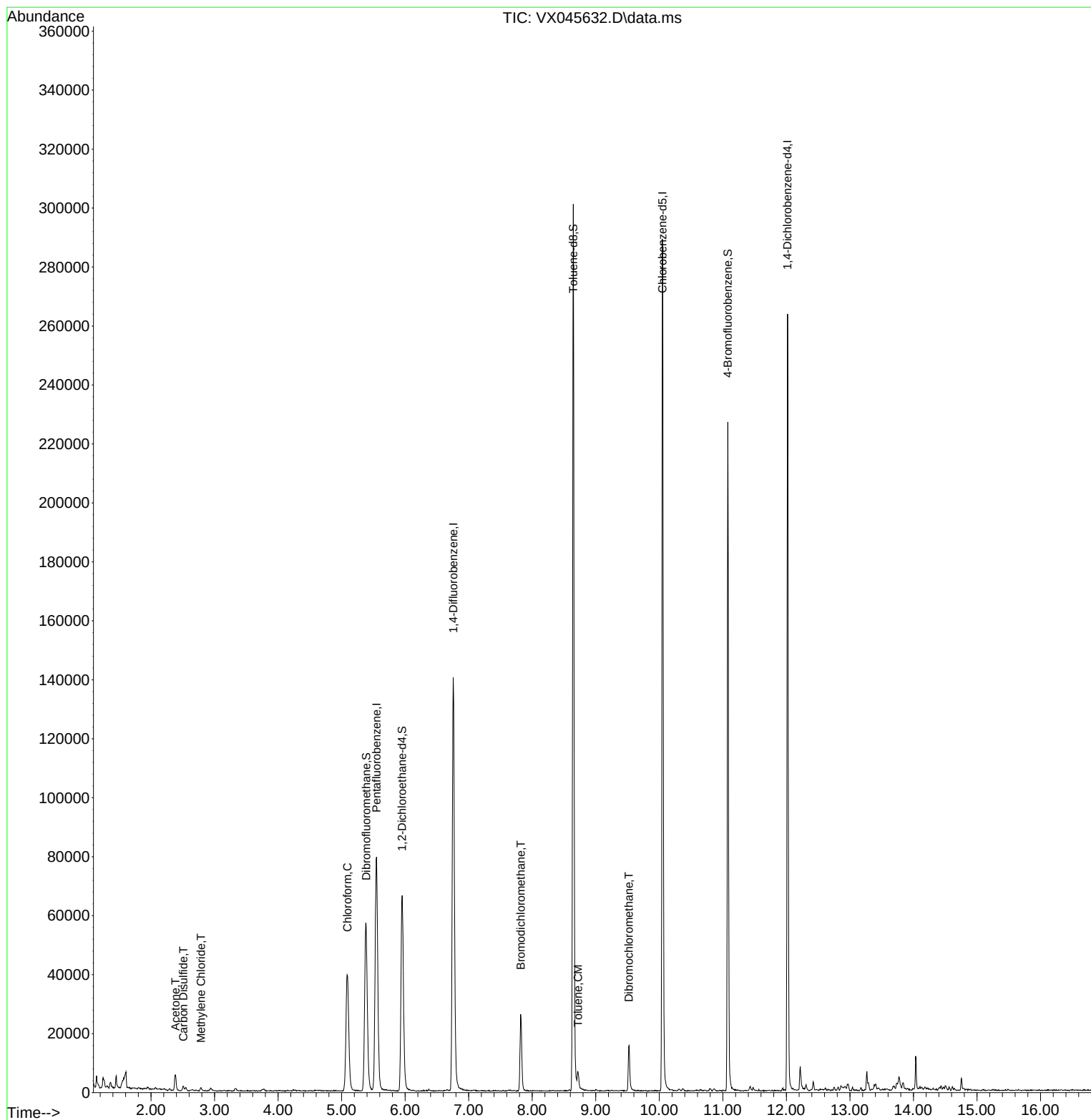
Internal Standards						
1) Pentafluorobenzene	5.550	168	67663	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	133111	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	120863	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	48275	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	68932	55.708	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.420%			
35) Dibromofluoromethane	5.385	113	48680	51.545	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.080%			
50) Toluene-d8	8.647	98	164404	49.874	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.740%			
62) 4-Bromofluorobenzene	11.079	95	59141	49.255	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.500%			
Target Compounds					Qvalue	
16) Acetone	2.386	43	6394	12.584	ug/l	98
17) Carbon Disulfide	2.507	76	2065	1.029	ug/l	95
20) Methylene Chloride	2.788	84	487	0.512	ug/l	89
30) Chloroform	5.092	83	47011	26.609	ug/l	95
47) Bromodichloromethane	7.817	83	16355	10.979	ug/l	93
52) Toluene	8.720	92	2167	0.920	ug/l	100
60) Dibromochloromethane	9.518	129	6185	6.042	ug/l	94

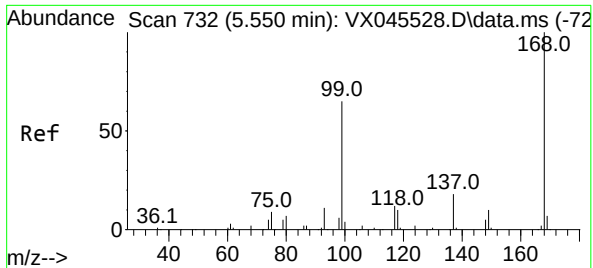
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045632.D
Acq On : 07 Apr 2025 16:31
Operator : JC/MD
Sample : Q1746-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-149-GW01

Quant Time: Apr 08 01:36:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

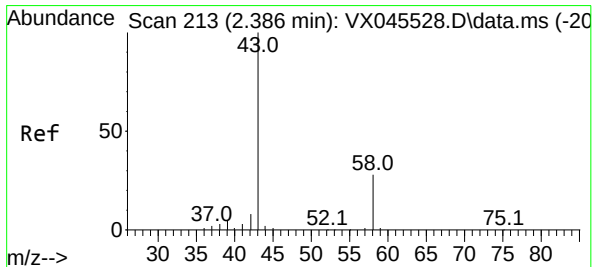
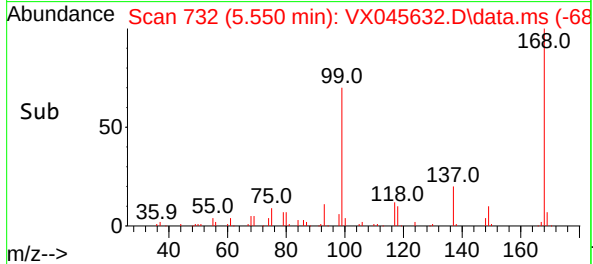
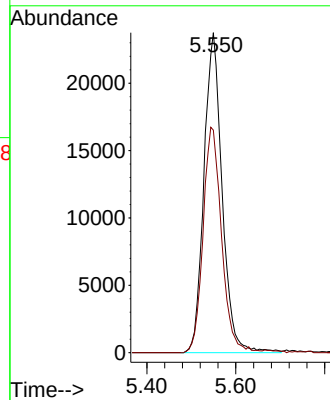
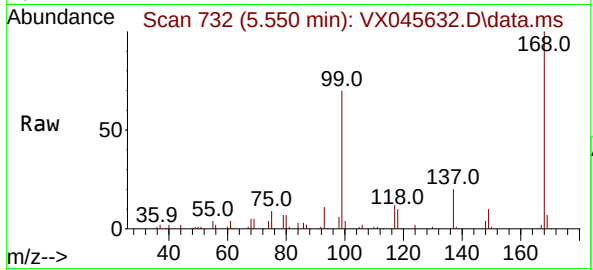




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.000 min
Lab File: VX045632.D
Acq: 07 Apr 2025 16:31

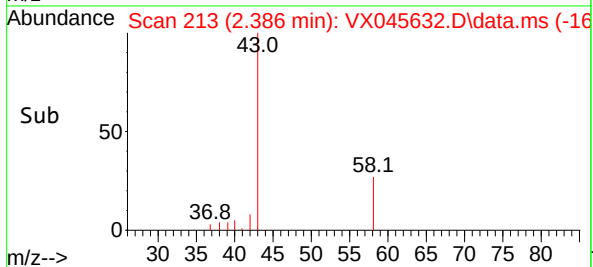
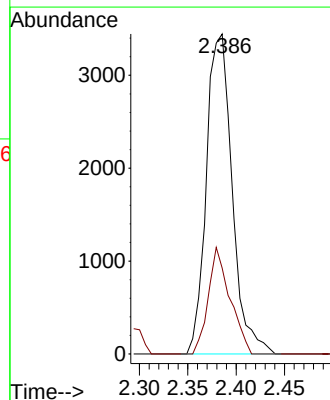
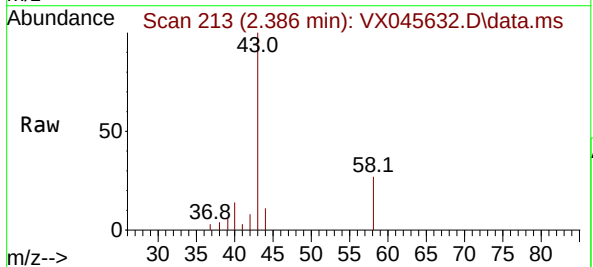
Instrument :
MSVOA_X
ClientSampleId :
B-149-GW01

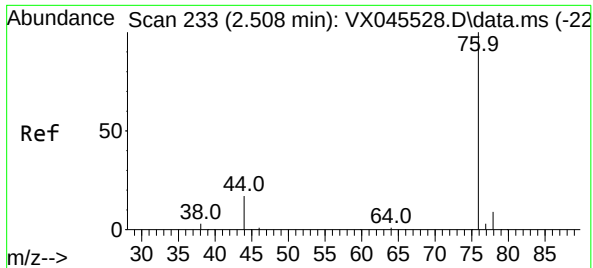
Tgt Ion:168 Resp: 67663
Ion Ratio Lower Upper
168 100
99 69.6 52.3 78.5



#16
Acetone
Concen: 12.584 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045632.D
Acq: 07 Apr 2025 16:31

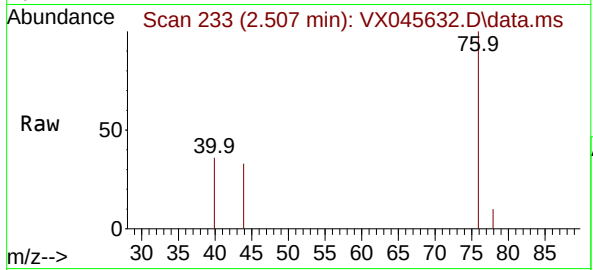
Tgt Ion: 43 Resp: 6394
Ion Ratio Lower Upper
43 100
58 26.9 22.3 33.5



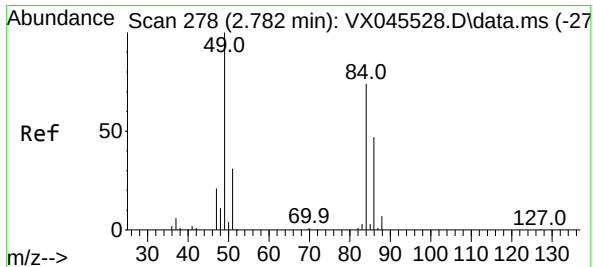
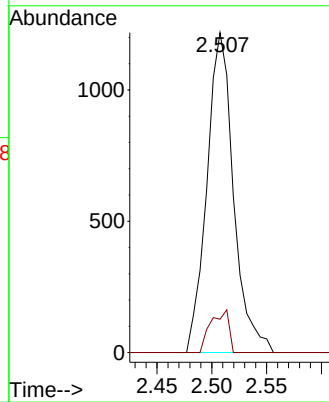
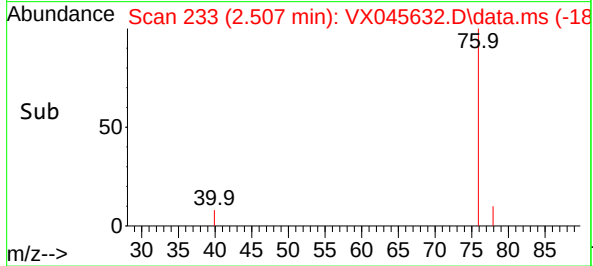


#17
Carbon Disulfide
Concen: 1.029 ug/l
RT: 2.507 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX045632.D
Acq: 07 Apr 2025 16:31

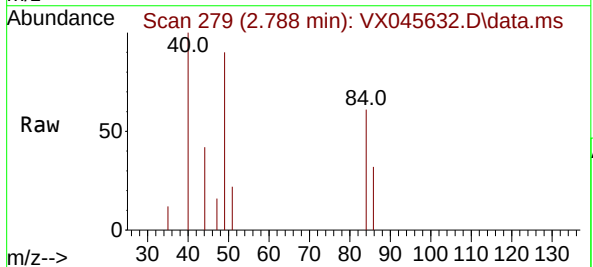
Instrument :
MSVOA_X
ClientSampleId :
B-149-GW01



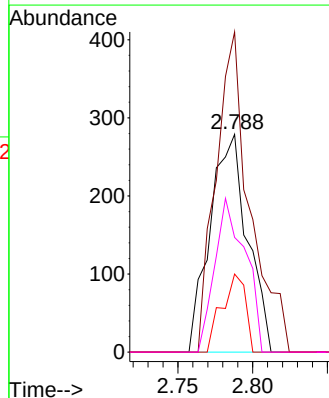
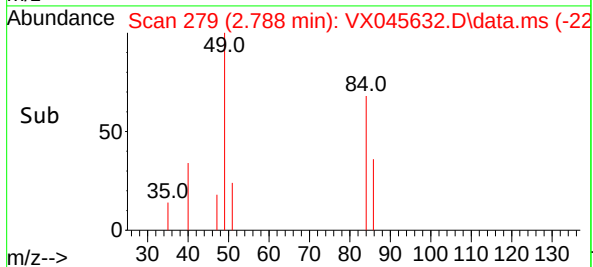
Tgt Ion: 76 Resp: 2065
Ion Ratio Lower Upper
76 100
78 10.4 7.0 10.6

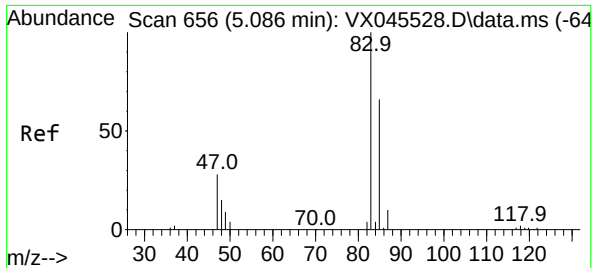


#20
Methylene Chloride
Concen: 0.512 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX045632.D
Acq: 07 Apr 2025 16:31



Tgt Ion: 84 Resp: 487
Ion Ratio Lower Upper
84 100
49 147.0 107.5 161.3
51 35.8 33.0 49.6
86 52.7 50.1 75.1





#30

Chloroform

Concen: 26.609 ug/l

RT: 5.092 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX045632.D

Acq: 07 Apr 2025 16:31

Instrument :

MSVOA_X

ClientSampleId :

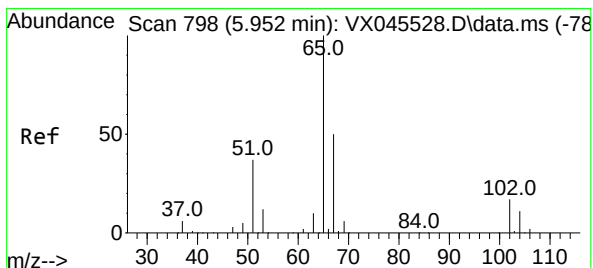
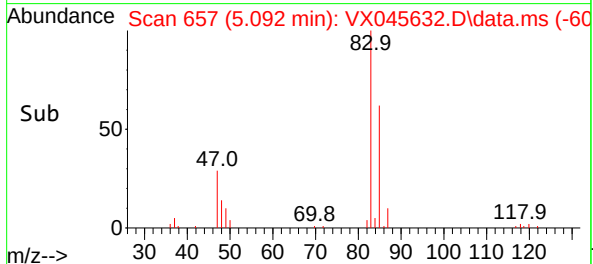
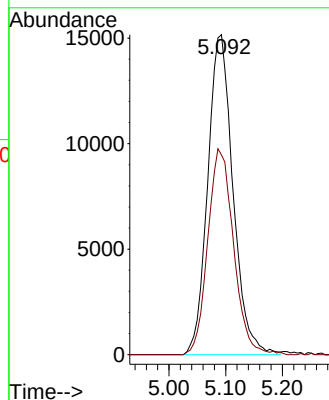
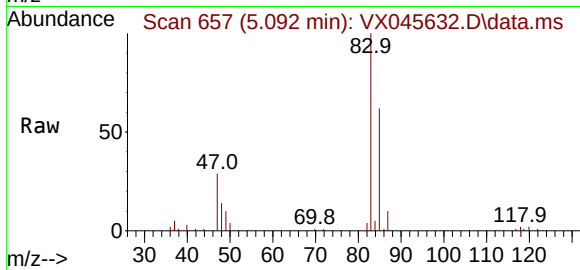
B-149-GW01

Tgt Ion: 83 Resp: 47011

Ion Ratio Lower Upper

83 100

85 62.4 52.8 79.2



#33

1,2-Dichloroethane-d4

Concen: 55.708 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX045632.D

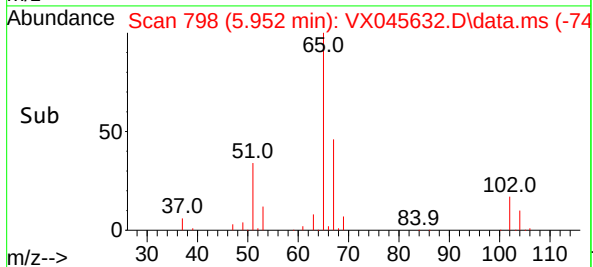
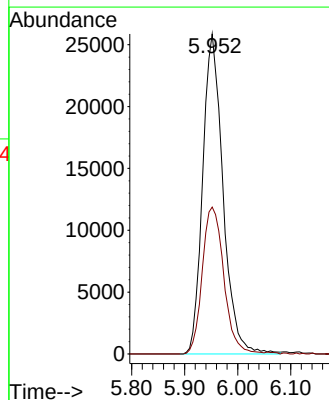
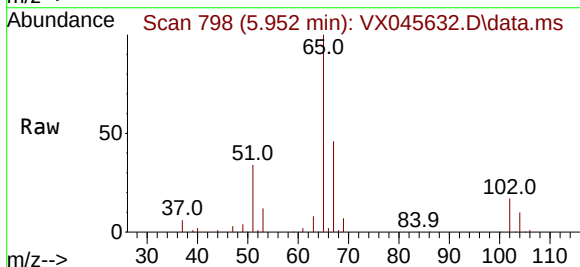
Acq: 07 Apr 2025 16:31

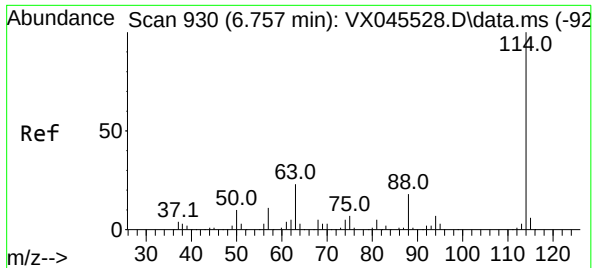
Tgt Ion: 65 Resp: 68932

Ion Ratio Lower Upper

65 100

67 48.7 0.0 99.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX045632.D

Acq: 07 Apr 2025 16:31

Instrument :

MSVOA_X

ClientSampleId :

B-149-GW01

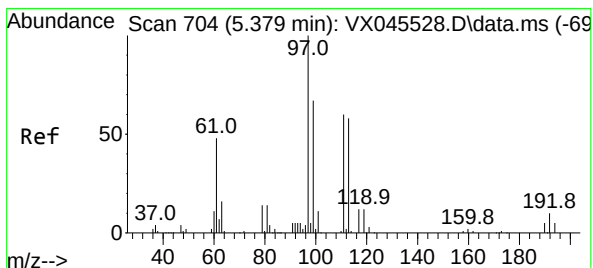
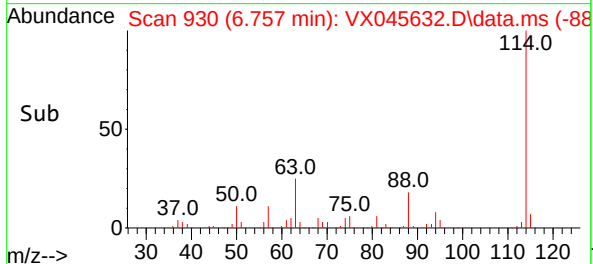
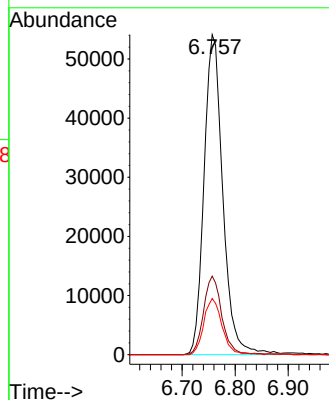
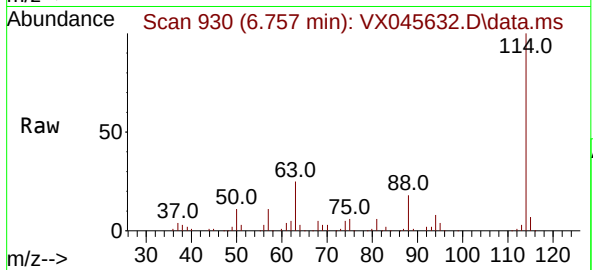
Tgt Ion:114 Resp: 133111

Ion Ratio Lower Upper

114 100

63 24.6 0.0 46.8

88 17.5 0.0 35.4



#35

Dibromofluoromethane

Concen: 51.545 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.006 min

Lab File: VX045632.D

Acq: 07 Apr 2025 16:31

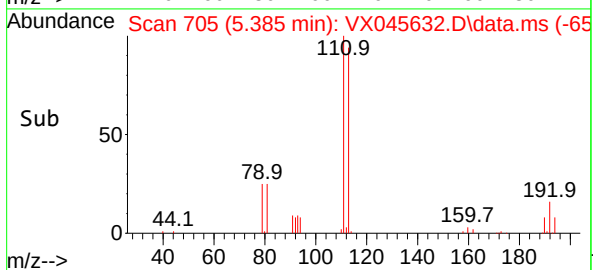
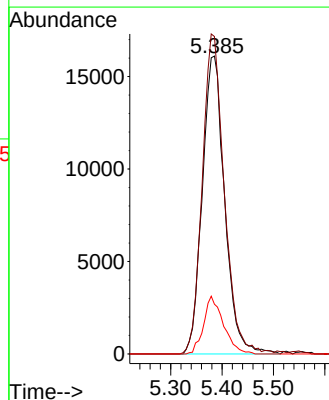
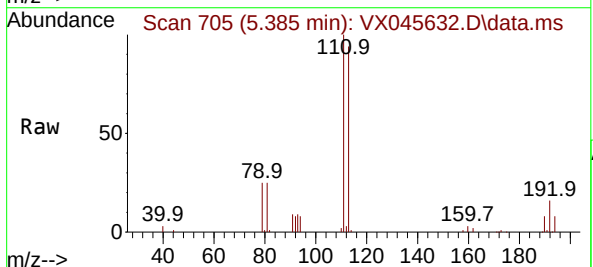
Tgt Ion:113 Resp: 48680

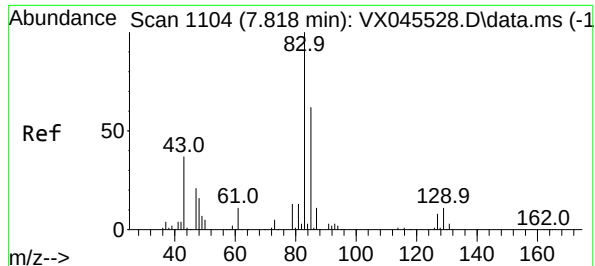
Ion Ratio Lower Upper

113 100

111 105.4 81.8 122.6

192 17.2 13.8 20.6





#47

Bromodichloromethane

Concen: 10.979 ug/l

RT: 7.817 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VX045632.D

Acq: 07 Apr 2025 16:31

Instrument :

MSVOA_X

ClientSampleId :

B-149-GW01

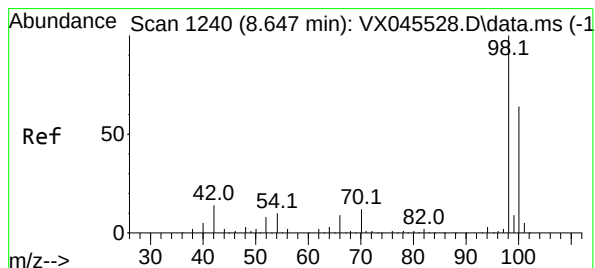
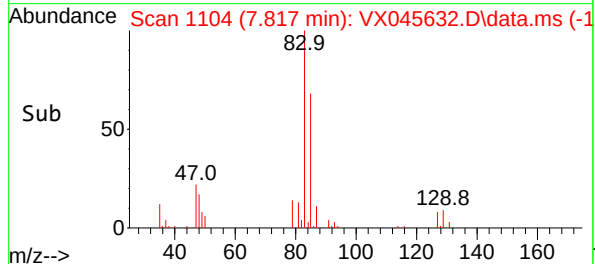
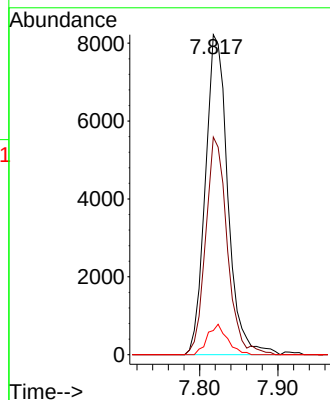
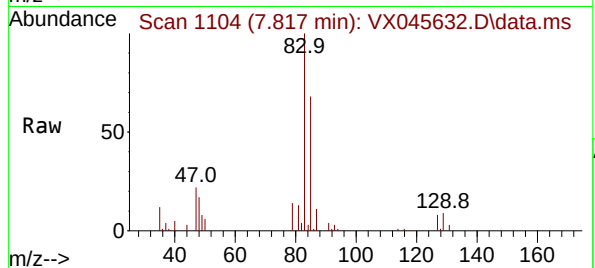
Tgt Ion: 83 Resp: 16355

Ion Ratio Lower Upper

83 100

85 68.0 49.7 74.5

127 7.5 6.1 9.1



#50

Toluene-d8

Concen: 49.874 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX045632.D

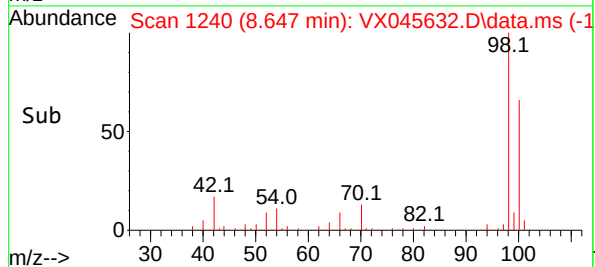
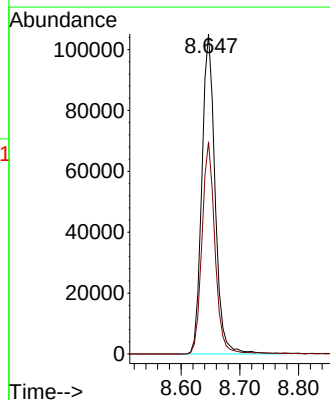
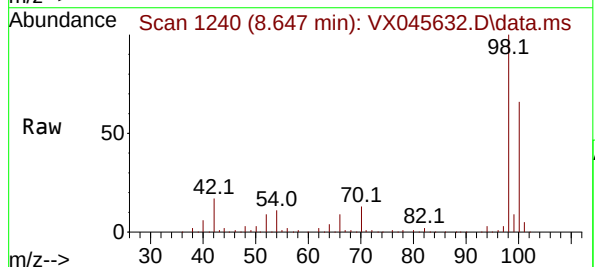
Acq: 07 Apr 2025 16:31

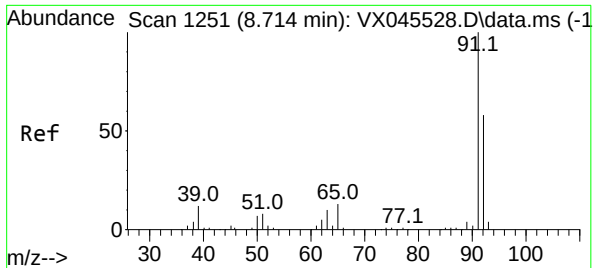
Tgt Ion: 98 Resp: 164404

Ion Ratio Lower Upper

98 100

100 65.0 52.2 78.4

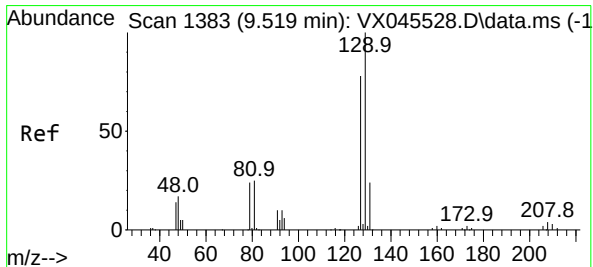
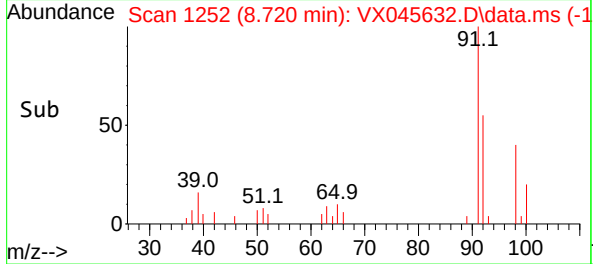
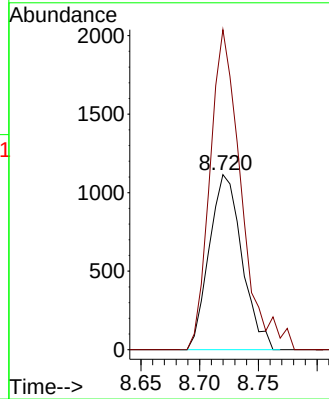
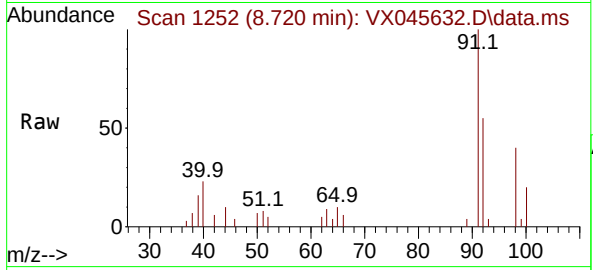




#52
Toluene
Concen: 0.920 ug/l
RT: 8.720 min Scan# 1251
Delta R.T. 0.006 min
Lab File: VX045632.D
Acq: 07 Apr 2025 16:31

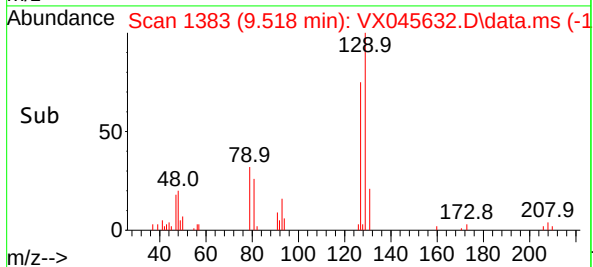
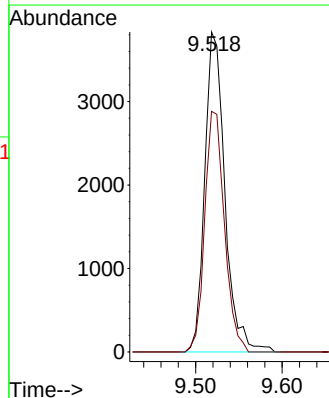
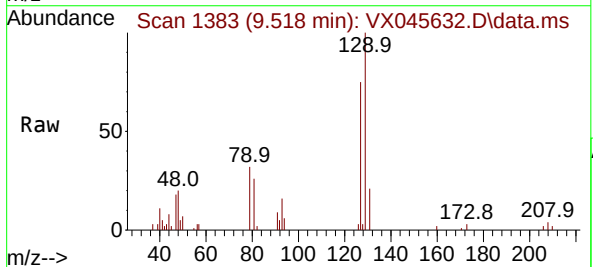
Instrument :
MSVOA_X
ClientSampleId :
B-149-GW01

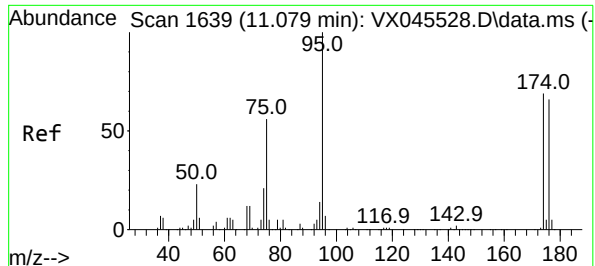
Tgt Ion: 92 Resp: 2167
Ion Ratio Lower Upper
92 100
91 173.7 138.7 208.1



#60
Dibromochloromethane
Concen: 6.042 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045632.D
Acq: 07 Apr 2025 16:31

Tgt Ion: 129 Resp: 6185
Ion Ratio Lower Upper
129 100
127 73.6 39.4 118.2

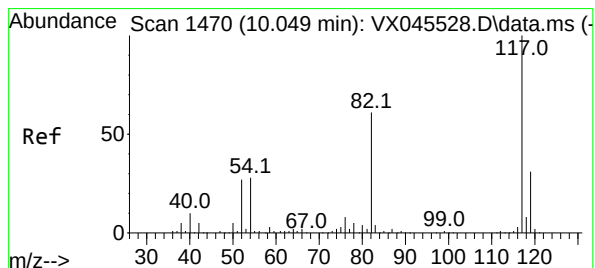
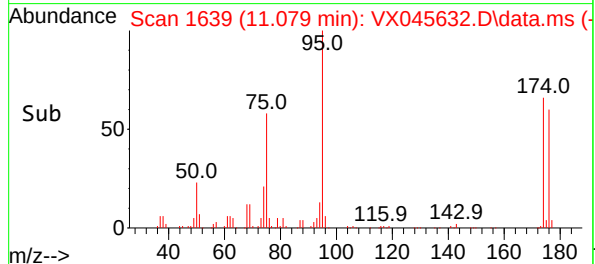
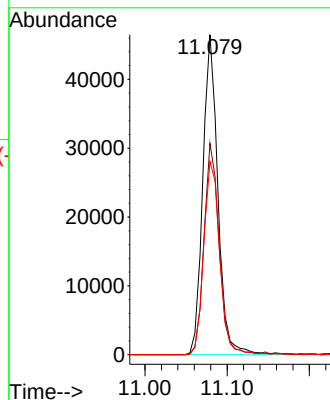
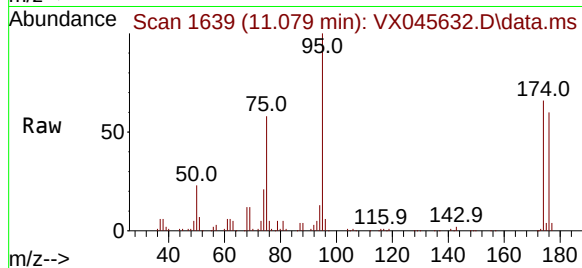




#62
4-Bromofluorobenzene
Concen: 49.255 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045632.D
Acq: 07 Apr 2025 16:31

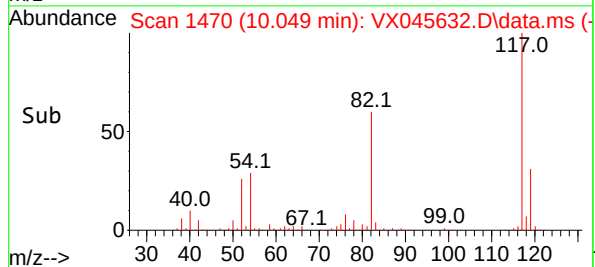
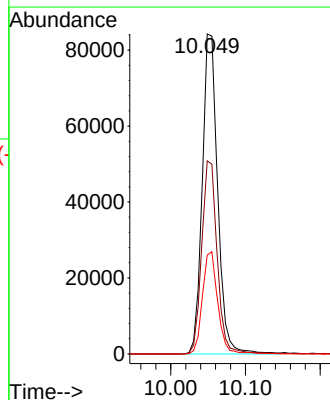
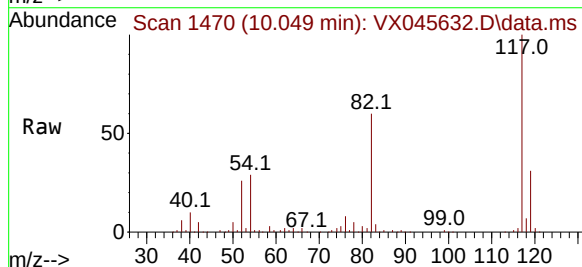
Instrument :
MSVOA_X
ClientSampleId :
B-149-GW01

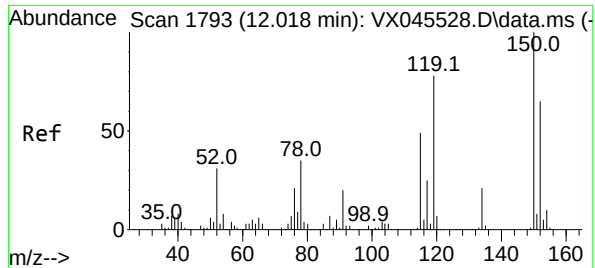
Tgt Ion: 95 Resp: 59141
Ion Ratio Lower Upper
95 100
174 66.3 0.0 135.8
176 64.2 0.0 131.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045632.D
Acq: 07 Apr 2025 16:31

Tgt Ion: 117 Resp: 120863
Ion Ratio Lower Upper
117 100
82 60.4 49.2 73.8
119 30.9 25.1 37.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX045632.D

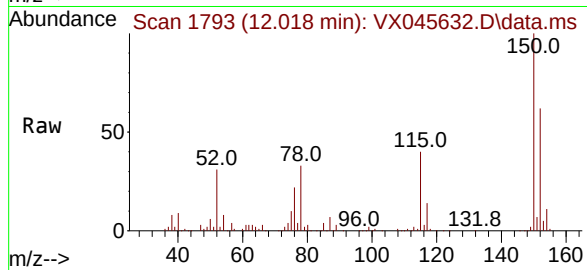
Acq: 07 Apr 2025 16:31

Instrument :

MSVOA_X

ClientSampleId :

B-149-GW01



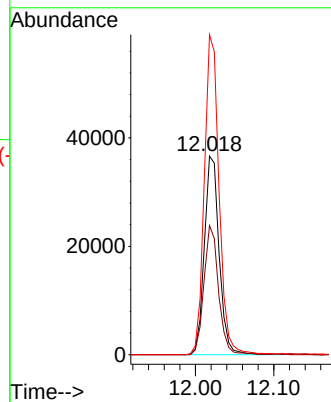
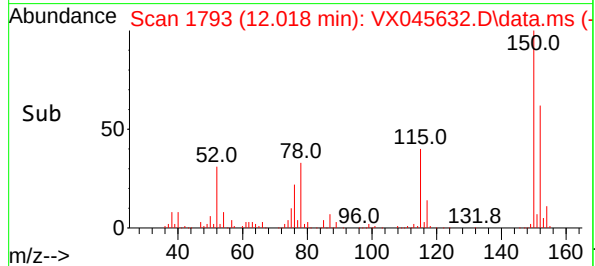
Tgt Ion:152 Resp: 48275

Ion Ratio Lower Upper

152 100

115 63.9 46.9 140.7

150 159.7 0.0 349.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
 Data File : VX045632.D
 Acq On : 07 Apr 2025 16:31
 Operator : JC/MD
 Sample : Q1746-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 B-149-GW01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Title : SW846 8260

Signal : TIC: VX045632.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.142	6	9	18	rVB2	4182	6383	1.38%	0.235%
2	1.246	21	26	32	rBV4	3486	6817	1.47%	0.251%
3	1.453	56	60	68	rVV	4179	5196	1.12%	0.191%
4	1.605	70	85	88	rBV3	5405	16782	3.63%	0.617%
5	2.386	206	213	220	rBV	5299	9821	2.12%	0.361%
6	5.086	644	656	673	rBV	39420	124067	26.84%	4.559%
7	5.379	694	704	718	rBV	56963	167769	36.30%	6.165%
8	5.550	721	732	746	rVV	78981	226560	49.02%	8.325%
9	5.952	787	798	815	rBV	66321	182842	39.56%	6.719%
10	6.757	921	930	944	rBV	140139	338723	73.28%	12.447%
11	7.817	1098	1104	1113	rBV	25986	49621	10.74%	1.823%
12	8.647	1234	1240	1249	rBV	300439	462223	100.00%	16.985%
13	8.714	1249	1251	1263	rVB2	6103	11770	2.55%	0.433%
14	9.524	1378	1384	1395	rBV3	15377	26979	5.84%	0.991%
15	10.049	1465	1470	1486	rBV	288767	413912	89.55%	15.210%
16	11.079	1634	1639	1649	rBV	226783	293526	63.50%	10.786%
17	12.018	1788	1793	1805	rBV	263344	334426	72.35%	12.289%
18	12.219	1822	1826	1833	rBV2	7899	12759	2.76%	0.469%
19	13.268	1994	1998	2000	rBV3	6288	7557	1.63%	0.278%
20	13.774	2078	2081	2088	rVB4	3788	6550	1.42%	0.241%
21	14.036	2119	2124	2129	rBV2	11170	12181	2.64%	0.448%
22	14.755	2238	2242	2245	rBV	3974	4857	1.05%	0.178%

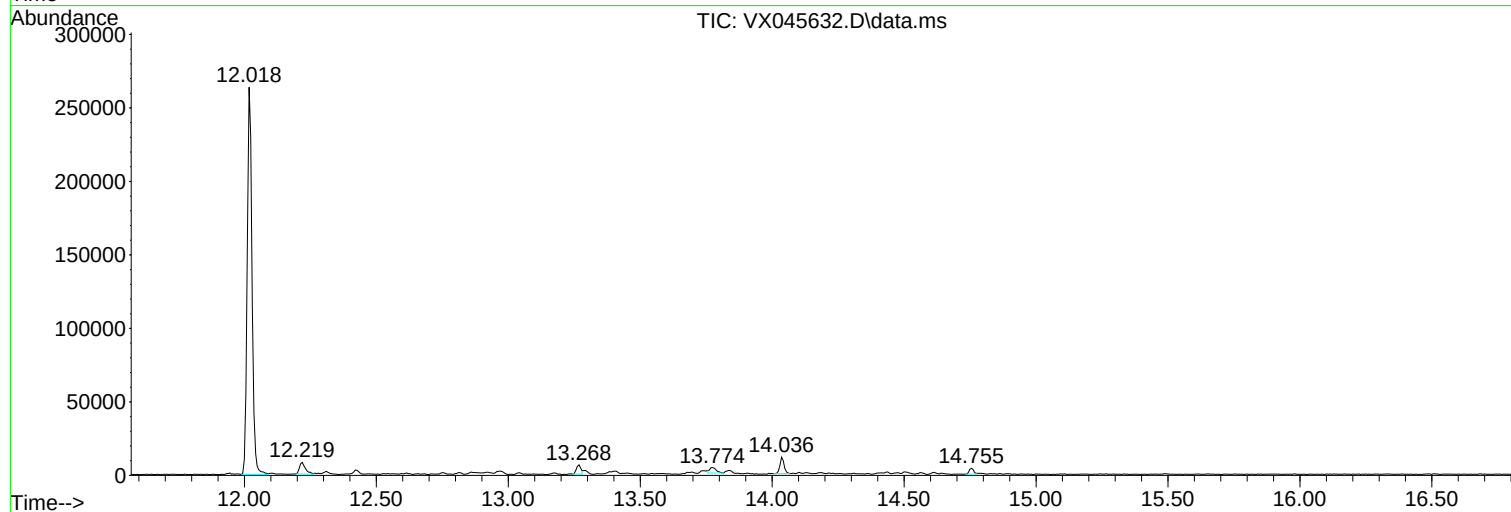
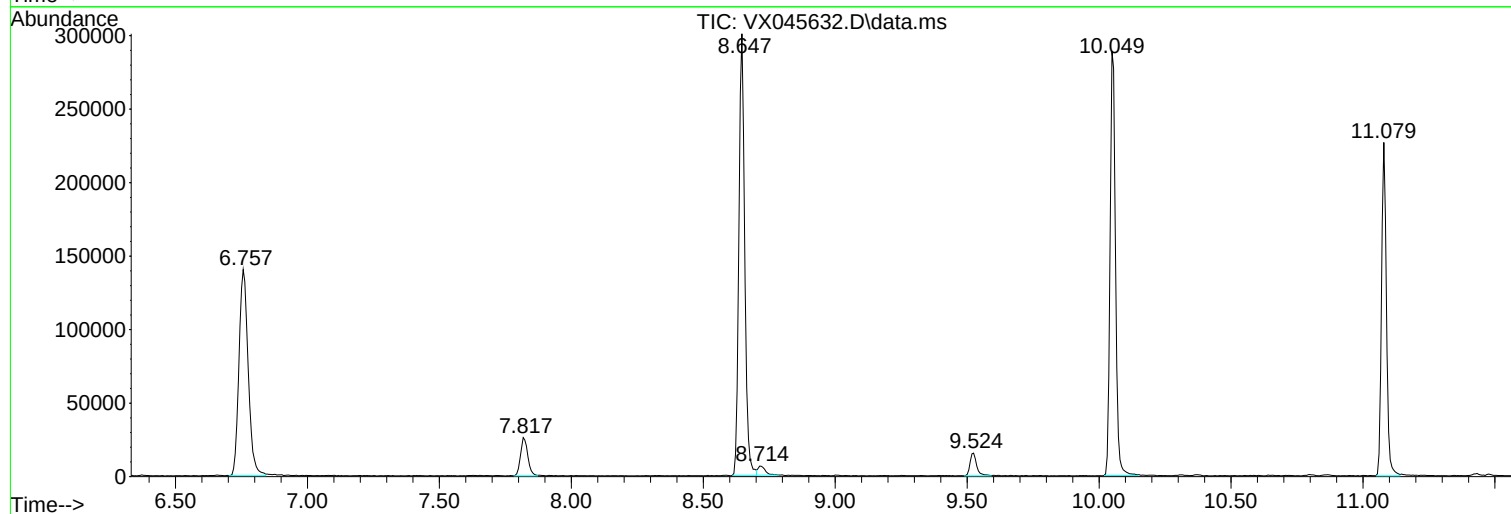
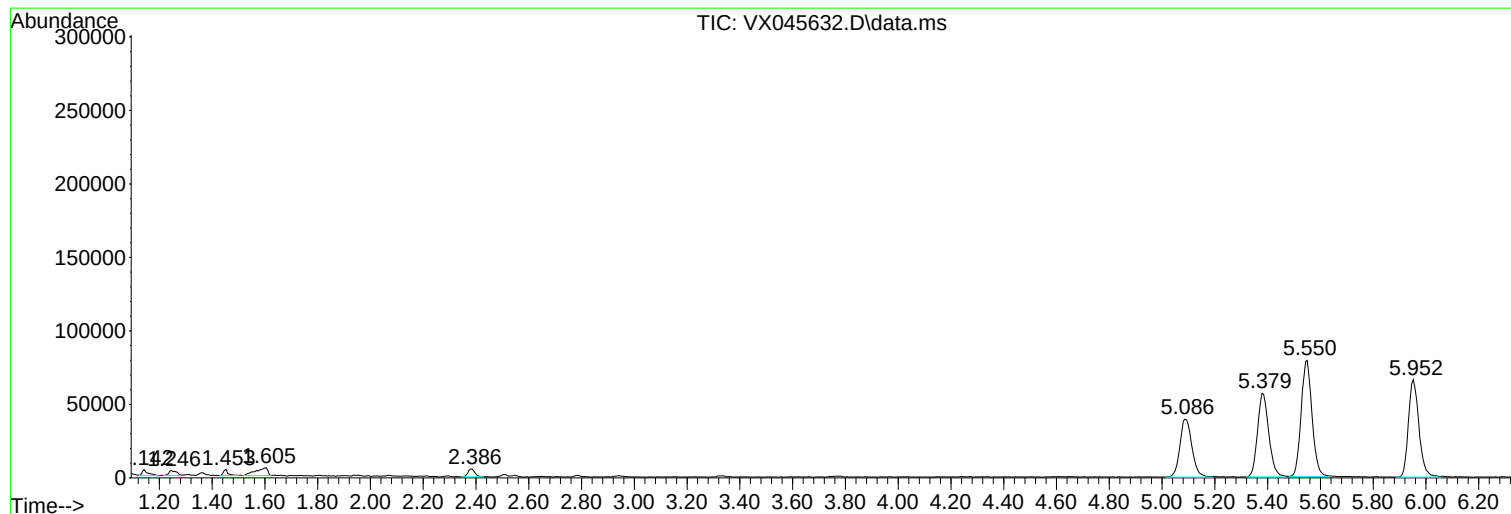
Sum of corrected areas: 2721321

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045632.D
Acq On : 07 Apr 2025 16:31
Operator : JC/MD
Sample : Q1746-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-149-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045632.D
Acq On : 07 Apr 2025 16:31
Operator : JC/MD
Sample : Q1746-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-149-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045632.D
Acq On : 07 Apr 2025 16:31
Operator : JC/MD
Sample : Q1746-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-149-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/07/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	EB-2025-4-7	SDG No.:	Q1746
Lab Sample ID:	Q1746-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045641.D	1		04/08/25 10:55	VX040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	10.6		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	04/07/25	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	04/07/25	
Client Sample ID:	EB-2025-4-7			SDG No.:	Q1746	
Lab Sample ID:	Q1746-07			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045641.D	1		04/08/25 10:55	VX040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.4		70 (74) - 130 (125)	111%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		70 (75) - 130 (124)	104%	SPK: 50
2037-26-5	Toluene-d8	50.9		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.1		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	65800	5.543			
540-36-3	1,4-Difluorobenzene	130000	6.757			
3114-55-4	Chlorobenzene-d5	122000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	51100	12.024			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/07/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	EB-2025-4-7	SDG No.:	Q1746
Lab Sample ID:	Q1746-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045641.D	1		04/08/25 10:55	VX040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
 Data File : VX045641.D
 Acq On : 08 Apr 2025 10:55
 Operator : JC/MD
 Sample : Q1746-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 EB-2025-4-7

Quant Time: Apr 09 01:34:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

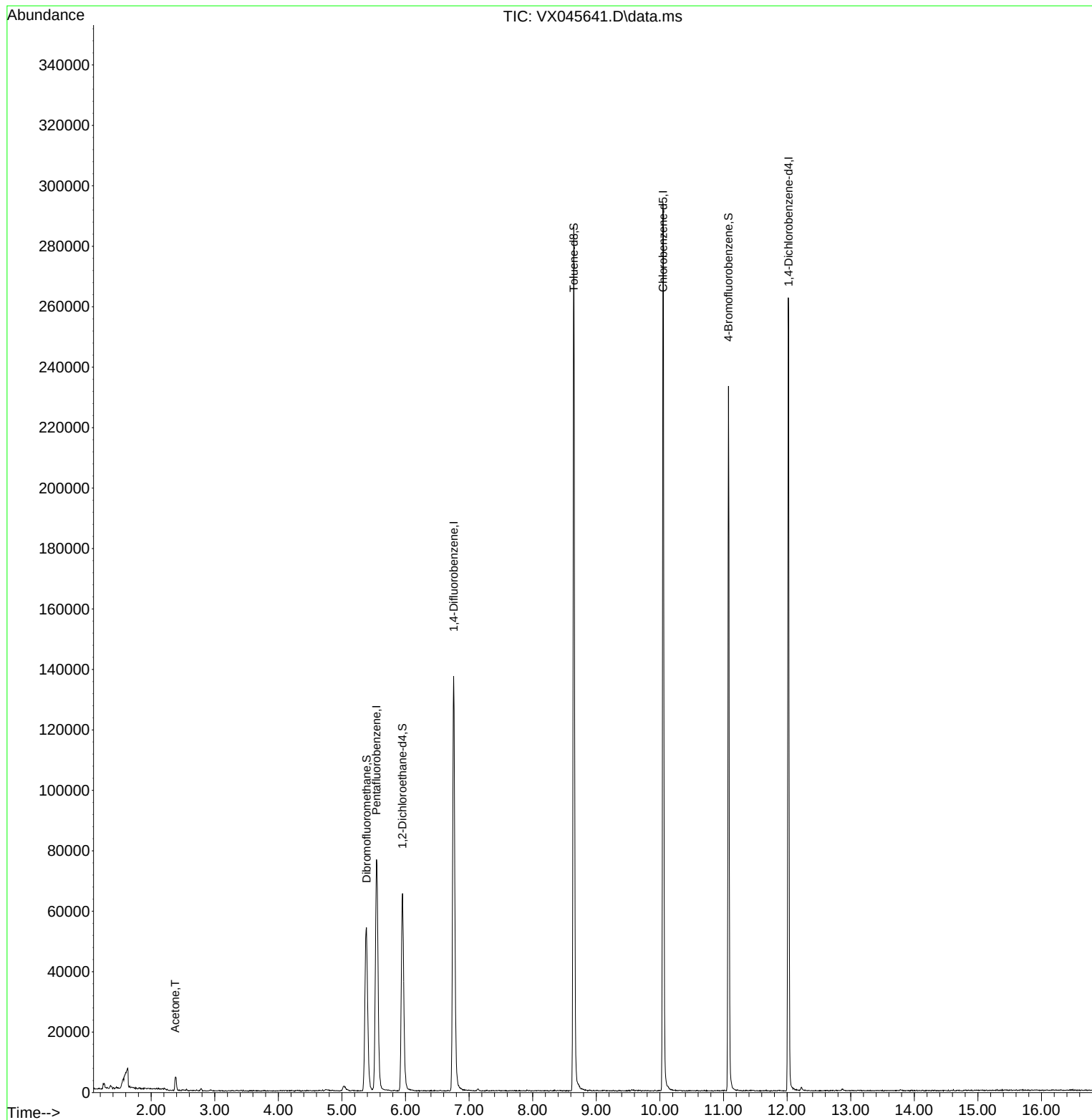
Internal Standards						
1) Pentafluorobenzene	5.543	168	65792	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	130088	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	121595	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	51094	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	66630	55.379	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	110.760%
35) Dibromofluoromethane	5.385	113	47792	51.780	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.560%
50) Toluene-d8	8.646	98	164135	50.949	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.900%
62) 4-Bromofluorobenzene	11.079	95	61154	52.115	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	104.220%
Target Compounds						
16) Acetone	2.379	43	5243	10.612	ug/l	94

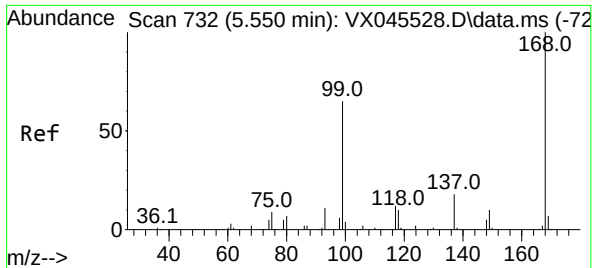
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045641.D
Acq On : 08 Apr 2025 10:55
Operator : JC/MD
Sample : Q1746-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
EB-2025-4-7

Quant Time: Apr 09 01:34:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.543 min Scan# 71

Delta R.T. -0.007 min

Lab File: VX045641.D

Acq: 08 Apr 2025 10:55

Instrument :

MSVOA_X

ClientSampleId :

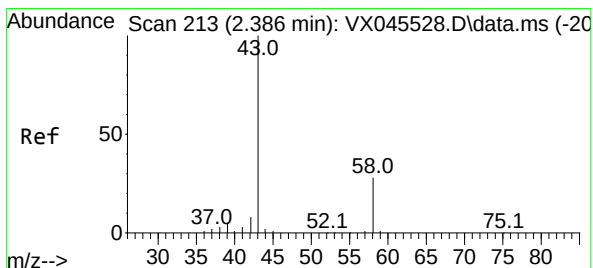
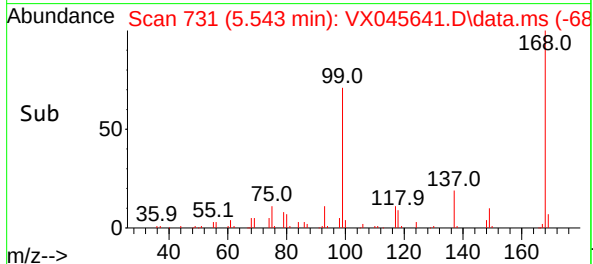
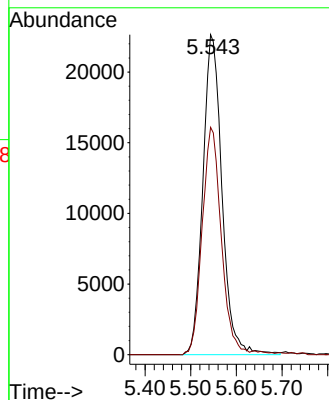
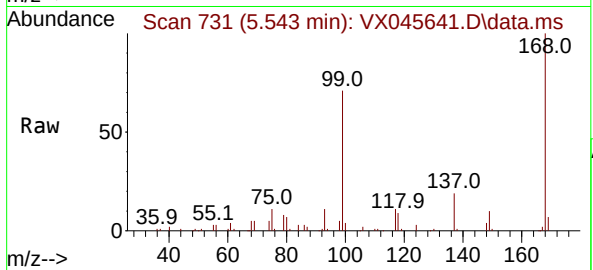
EB-2025-4-7

Tgt Ion:168 Resp: 65792

Ion Ratio Lower Upper

168 100

99 71.1 52.3 78.5



#16

Acetone

Concen: 10.612 ug/l

RT: 2.379 min Scan# 212

Delta R.T. -0.006 min

Lab File: VX045641.D

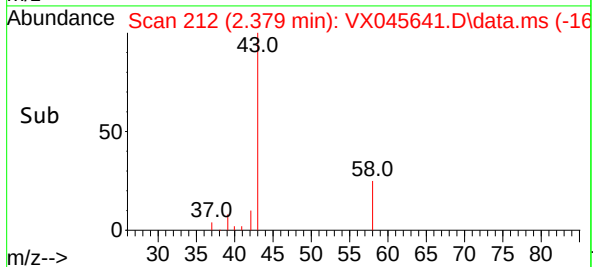
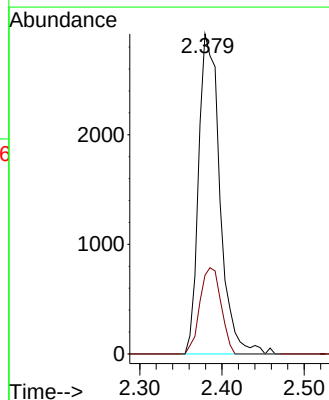
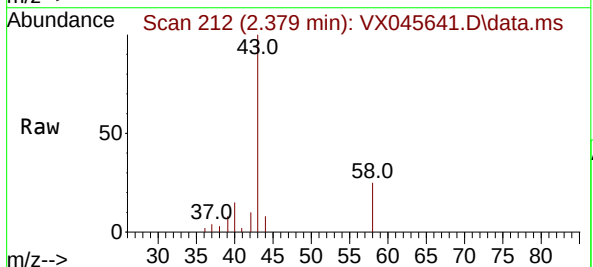
Acq: 08 Apr 2025 10:55

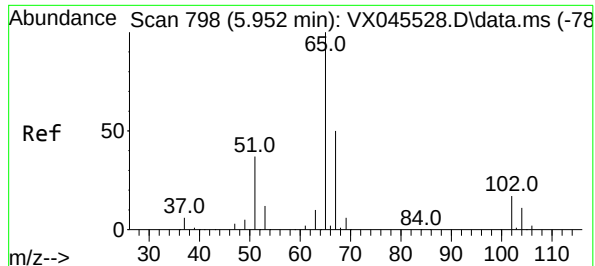
Tgt Ion: 43 Resp: 5243

Ion Ratio Lower Upper

43 100

58 24.6 22.3 33.5





#33

1,2-Dichloroethane-d4

Concen: 55.379 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX045641.D

Acq: 08 Apr 2025 10:55

Instrument :

MSVOA_X

ClientSampleId :

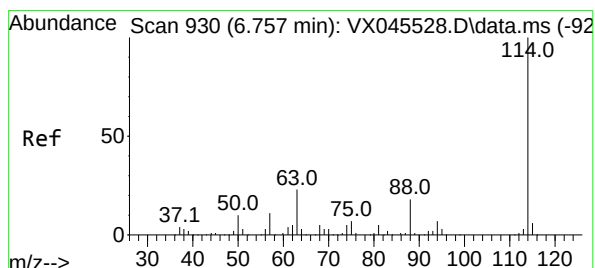
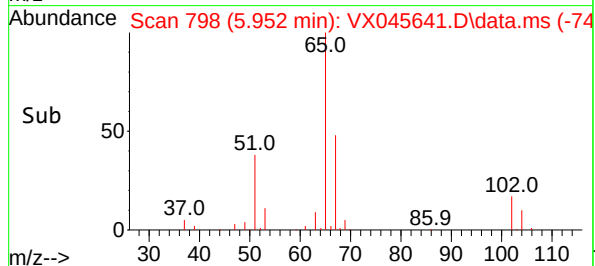
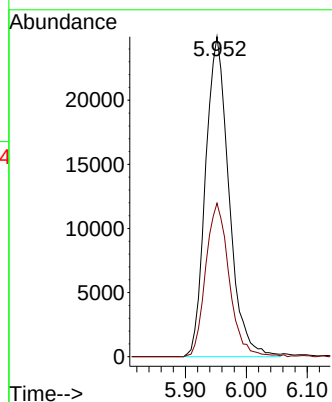
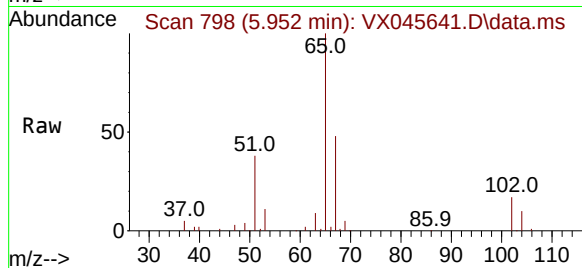
EB-2025-4-7

Tgt Ion: 65 Resp: 66630

Ion Ratio Lower Upper

65 100

67 48.2 0.0 99.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX045641.D

Acq: 08 Apr 2025 10:55

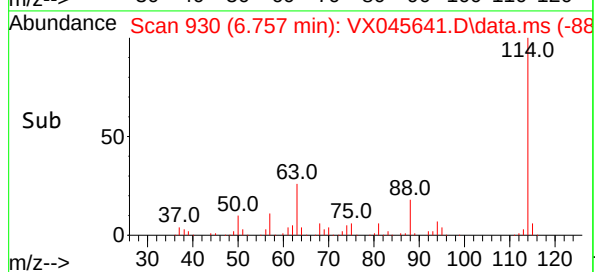
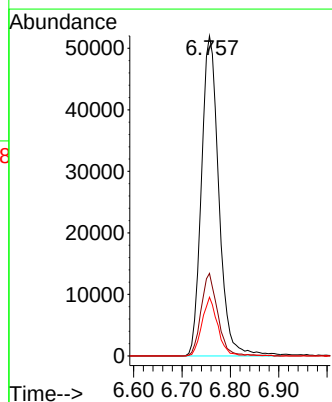
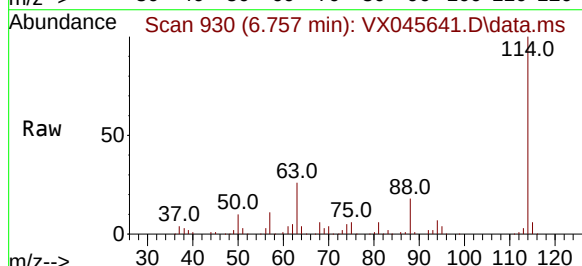
Tgt Ion: 114 Resp: 130088

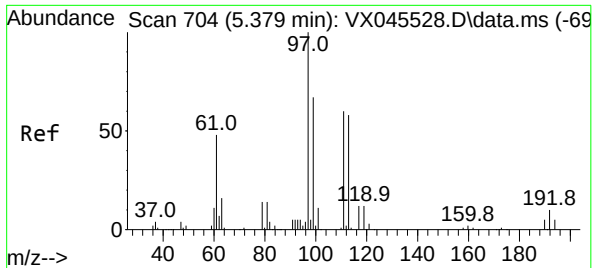
Ion Ratio Lower Upper

114 100

63 25.8 0.0 46.8

88 18.4 0.0 35.4





#35

Dibromofluoromethane

Concen: 51.780 ug/l

RT: 5.385 min Scan# 704

Delta R.T. 0.006 min

Lab File: VX045641.D

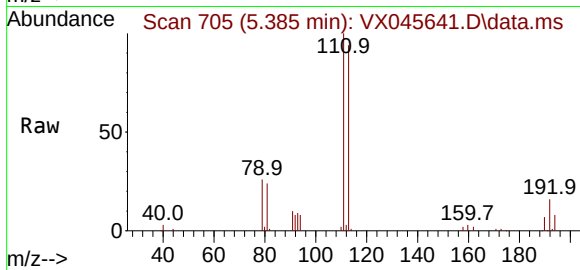
Acq: 08 Apr 2025 10:55

Instrument :

MSVOA_X

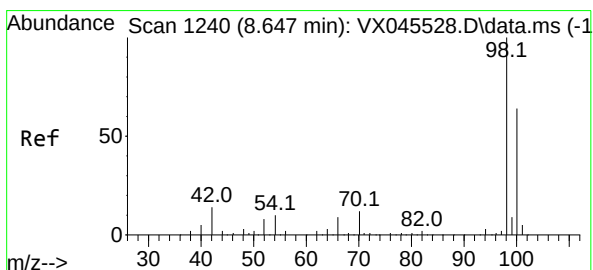
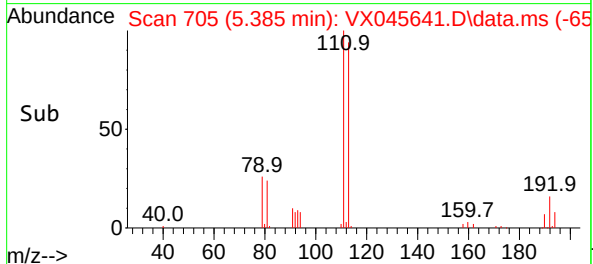
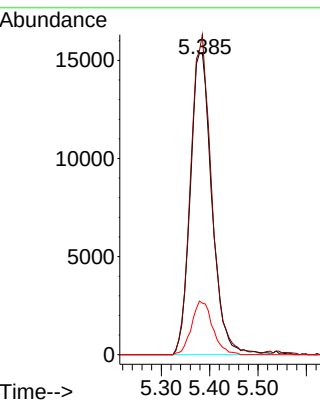
ClientSampleId :

EB-2025-4-7



Tgt Ion:113 Resp: 47792

Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.8	122.6
192	17.3	13.8	20.6



#50

Toluene-d8

Concen: 50.949 ug/l

RT: 8.646 min Scan# 1240

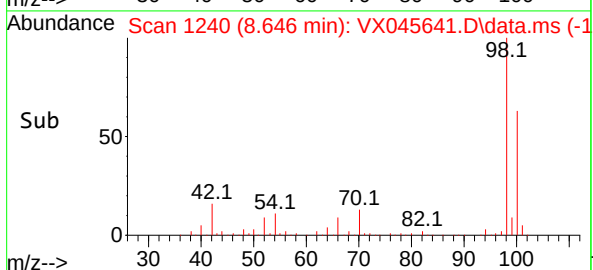
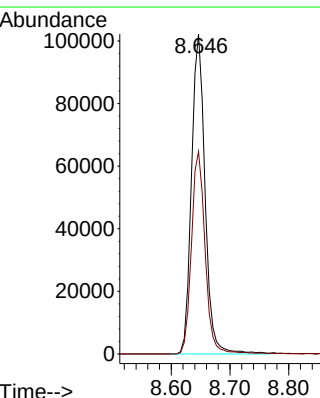
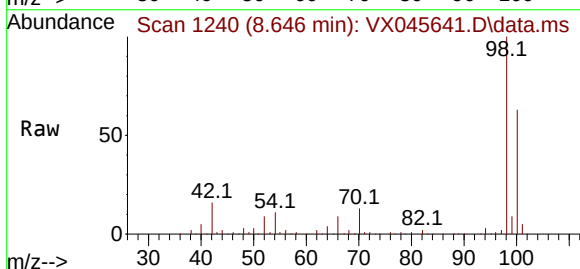
Delta R.T. -0.000 min

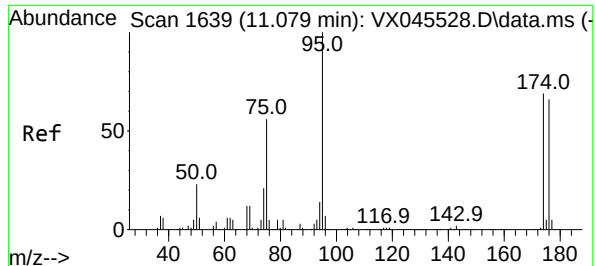
Lab File: VX045641.D

Acq: 08 Apr 2025 10:55

Tgt Ion: 98 Resp: 164135

Ion	Ratio	Lower	Upper
98	100		
100	63.9	52.2	78.4

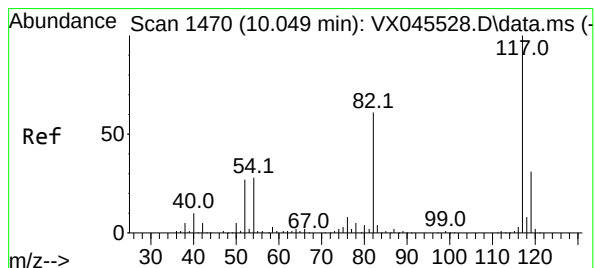
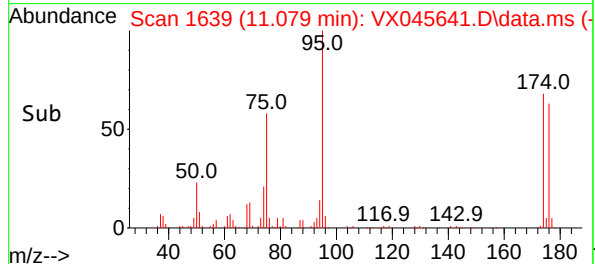
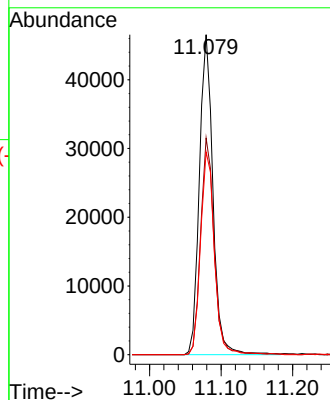
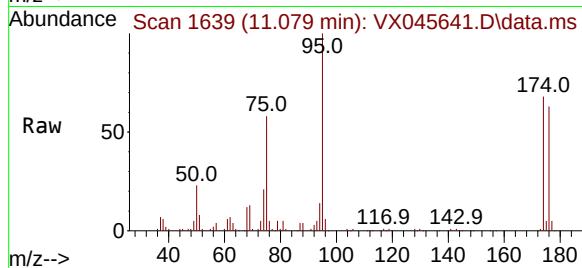




#62
4-Bromofluorobenzene
Concen: 52.115 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045641.D
Acq: 08 Apr 2025 10:55

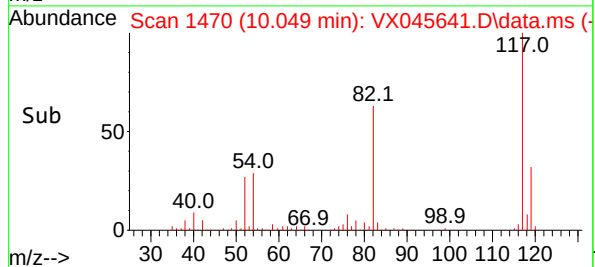
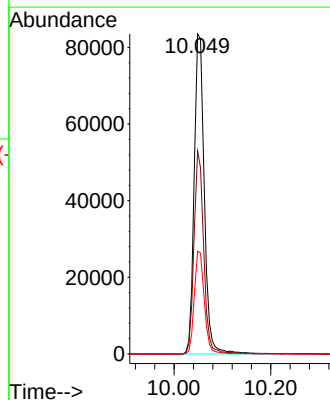
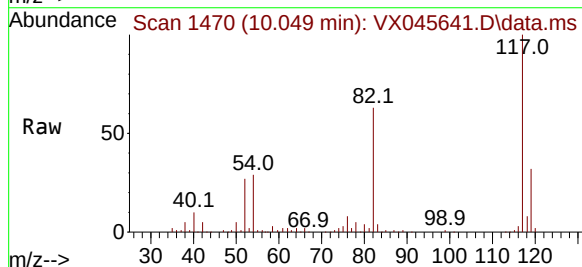
Instrument :
MSVOA_X
ClientSampleId :
EB-2025-4-7

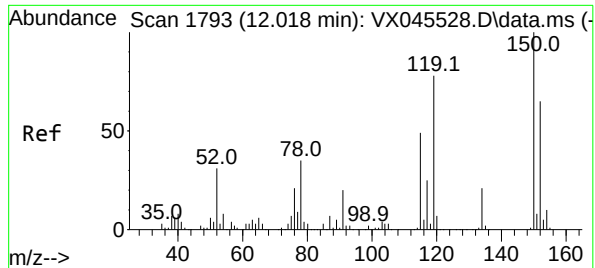
Tgt Ion: 95 Resp: 61154
Ion Ratio Lower Upper
95 100
174 67.9 0.0 135.8
176 64.7 0.0 131.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045641.D
Acq: 08 Apr 2025 10:55

Tgt Ion: 117 Resp: 121595
Ion Ratio Lower Upper
117 100
82 63.4 49.2 73.8
119 32.1 25.1 37.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX045641.D

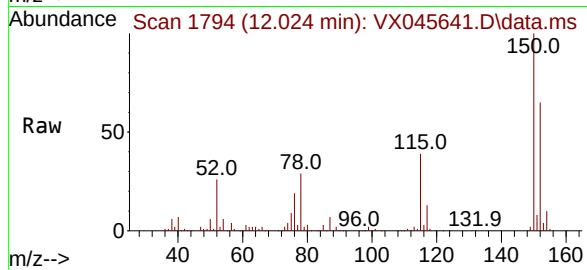
Acq: 08 Apr 2025 10:55

Instrument :

MSVOA_X

ClientSampleId :

EB-2025-4-7



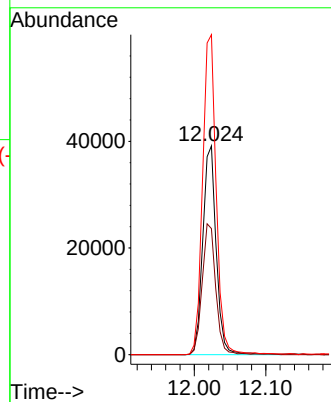
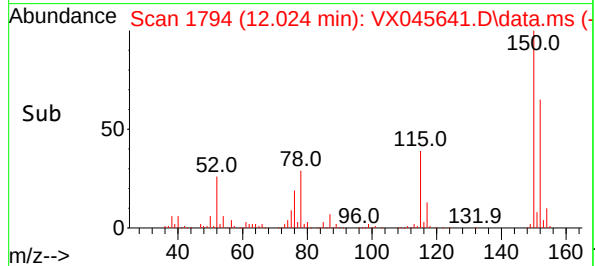
Tgt Ion:152 Resp: 51094

Ion Ratio Lower Upper

152 100

115 63.5 46.9 140.7

150 155.4 0.0 349.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045641.D
Acq On : 08 Apr 2025 10:55
Operator : JC/MD
Sample : Q1746-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
EB-2025-4-7

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M

Title : SW846 8260

Signal : TIC: VX045641.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.562	69	78	79	rBV3	3288	6489	1.41%	0.264%
2	1.629	79	89	92	rVB4	6263	20353	4.41%	0.827%
3	2.385	208	213	220	rBV2	4560	8444	1.83%	0.343%
4	5.031	641	647	658	rBV4	1501	4820	1.04%	0.196%
5	5.385	695	705	719	rBV	53987	163005	35.33%	6.621%
6	5.543	721	731	755	rVB	76294	220819	47.86%	8.970%
7	5.952	788	798	814	rBV	65308	174790	37.88%	7.100%
8	6.757	919	930	946	rBV	137233	332769	72.13%	13.517%
9	8.646	1233	1240	1257	rBV	285654	461375	100.00%	18.741%
10	10.049	1465	1470	1482	rBV	293660	415377	90.03%	16.873%
11	11.079	1634	1639	1657	rBV	233176	306875	66.51%	12.466%
12	12.018	1788	1793	1805	rBV	262466	346678	75.14%	14.082%

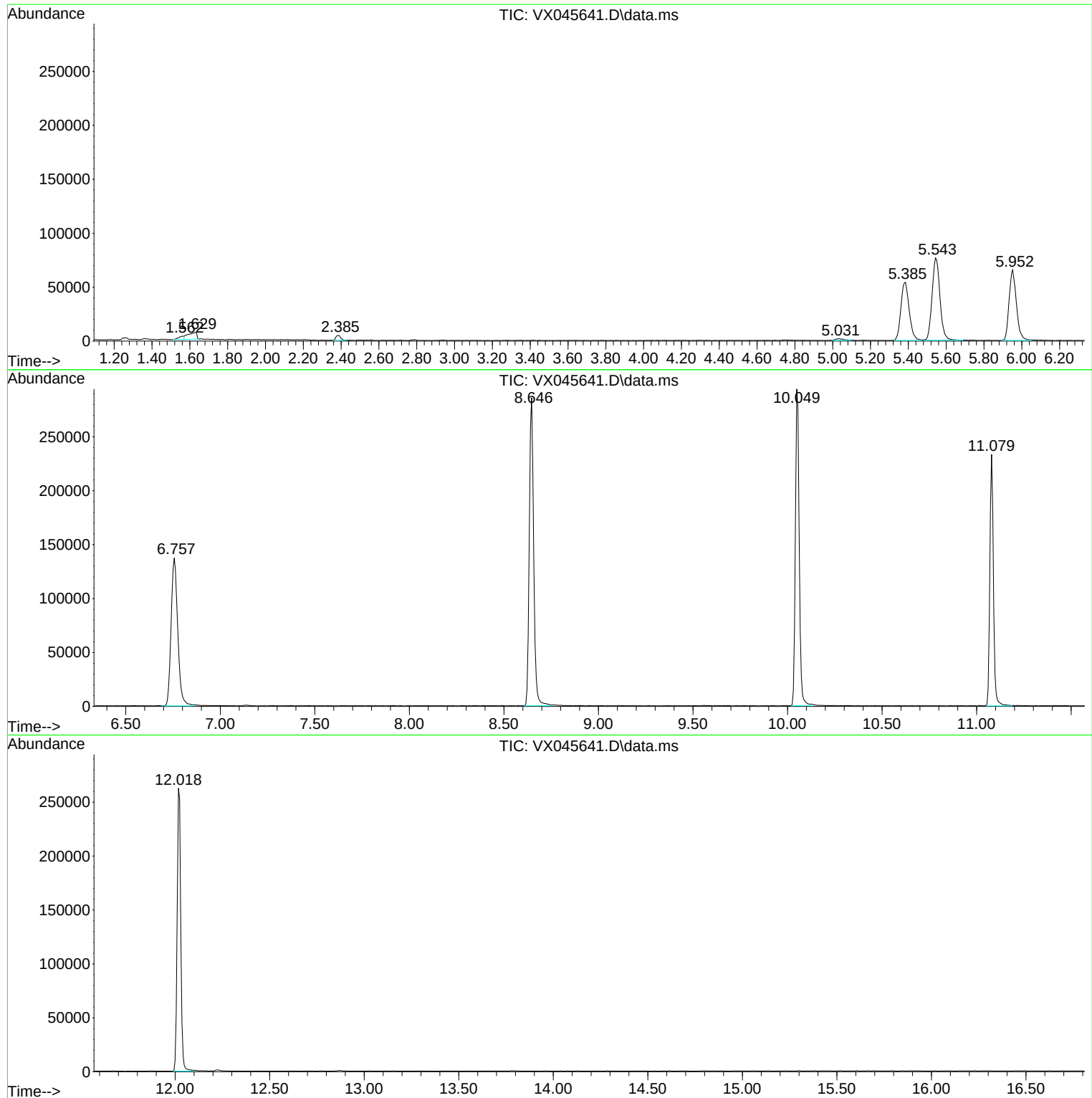
Sum of corrected areas: 2461794

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045641.D
Acq On : 08 Apr 2025 10:55
Operator : JC/MD
Sample : Q1746-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
EB-2025-4-7

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045641.D
Acq On : 08 Apr 2025 10:55
Operator : JC/MD
Sample : Q1746-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
EB-2025-4-7

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045641.D
Acq On : 08 Apr 2025 10:55
Operator : JC/MD
Sample : Q1746-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
EB-2025-4-7

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/07/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	TB-2025-4-7	SDG No.:	Q1746
Lab Sample ID:	Q1746-08	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045629.D	1		04/07/25 15:21	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	04/07/25	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	04/07/25	
Client Sample ID:	TB-2025-4-7			SDG No.:	Q1746	
Lab Sample ID:	Q1746-08			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045629.D	1		04/07/25 15:21	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.9		70 (74) - 130 (125)	116%	SPK: 50
1868-53-7	Dibromofluoromethane	52.4		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	50.6		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.7		70 (77) - 130 (121)	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	64200	5.55			
540-36-3	1,4-Difluorobenzene	130000	6.757			
3114-55-4	Chlorobenzene-d5	121000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	49700	12.018			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/07/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	TB-2025-4-7	SDG No.:	Q1746
Lab Sample ID:	Q1746-08	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045629.D	1		04/07/25 15:21	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045629.D
Acq On : 07 Apr 2025 15:21
Operator : JC/MD
Sample : Q1746-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-2025-4-7

Quant Time: Apr 08 01:36:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.550	168	64229	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	130025	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	121327	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	49684	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	67959	57.858	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	115.720%
35) Dibromofluoromethane	5.379	113	48346	52.406	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	104.820%
50) Toluene-d8	8.647	98	162793	50.557	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.120%
62) 4-Bromofluorobenzene	11.079	95	60662	51.721	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	103.440%

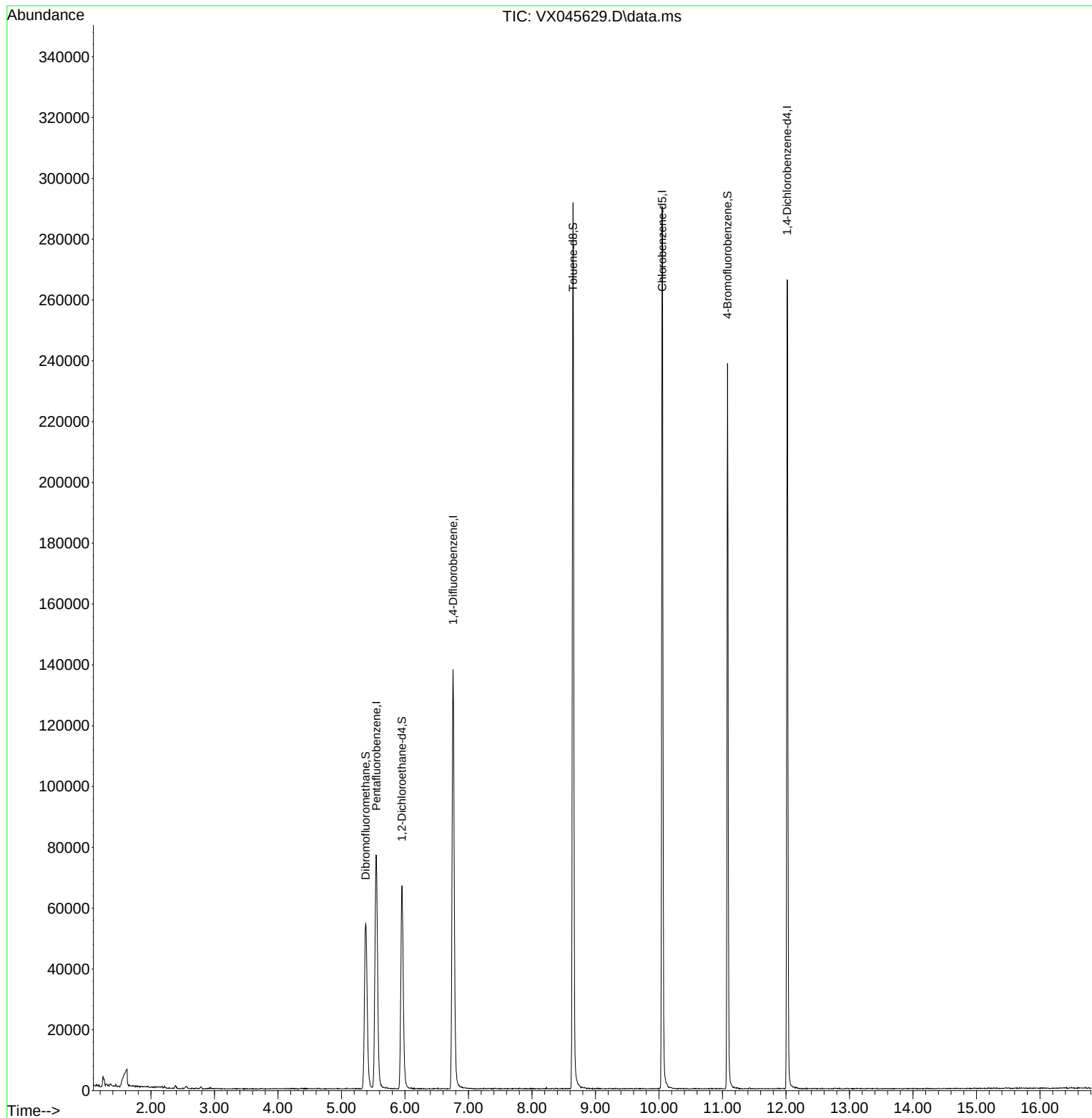
Target Compounds	Qvalue

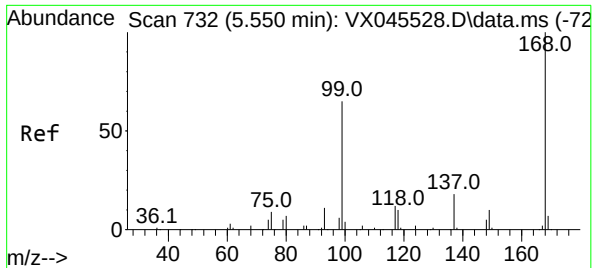
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045629.D
Acq On : 07 Apr 2025 15:21
Operator : JC/MD
Sample : Q1746-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-2025-4-7

Quant Time: Apr 08 01:36:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.550 min Scan# 71

Delta R.T. -0.000 min

Lab File: VX045629.D

Acq: 07 Apr 2025 15:21

Instrument :

MSVOA_X

ClientSampleId :

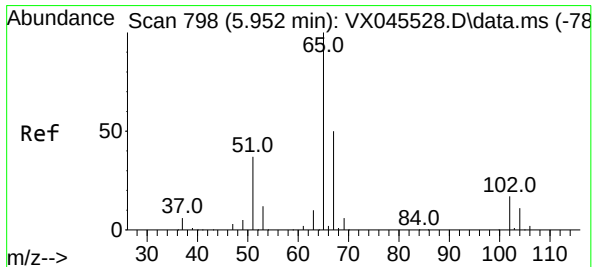
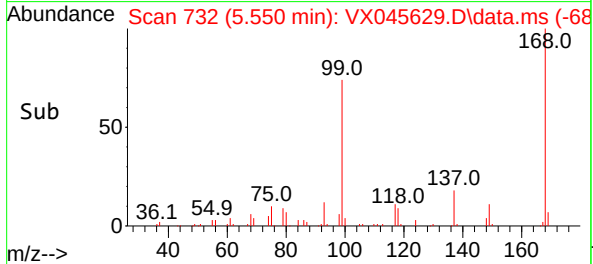
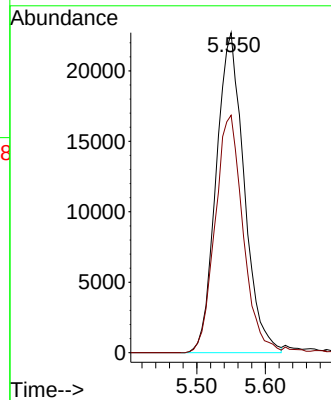
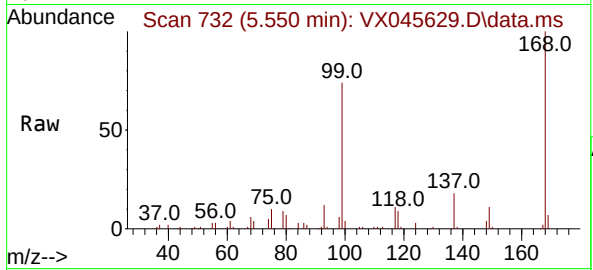
TB-2025-4-7

Tgt Ion:168 Resp: 64229

Ion Ratio Lower Upper

168 100

99 74.2 52.3 78.5



#33

1,2-Dichloroethane-d4

Concen: 57.858 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045629.D

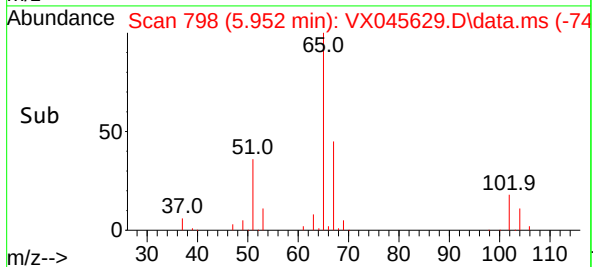
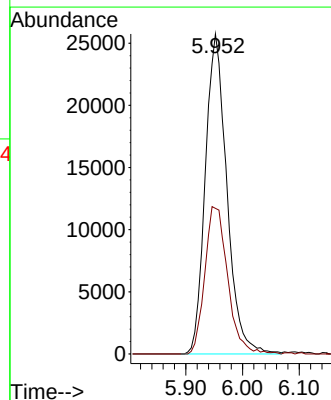
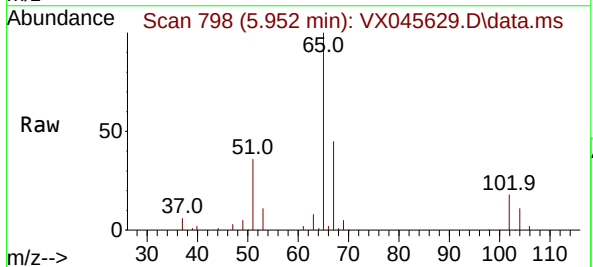
Acq: 07 Apr 2025 15:21

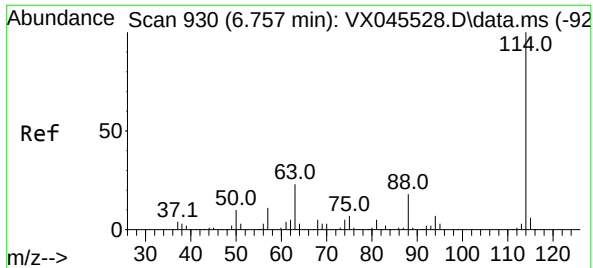
Tgt Ion: 65 Resp: 67959

Ion Ratio Lower Upper

65 100

67 48.8 0.0 99.0

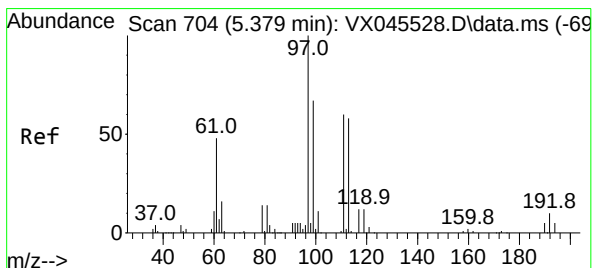
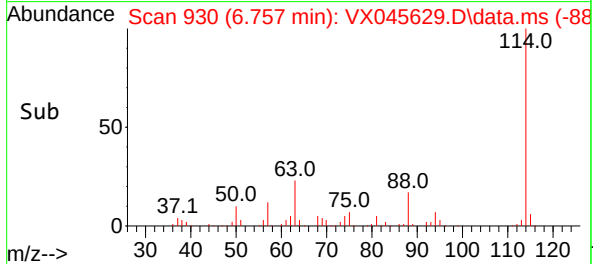
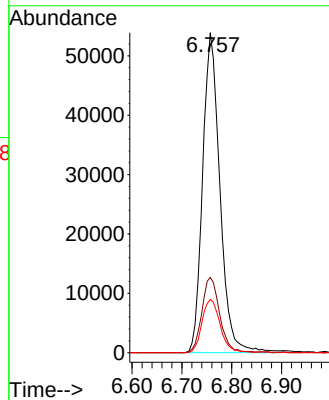
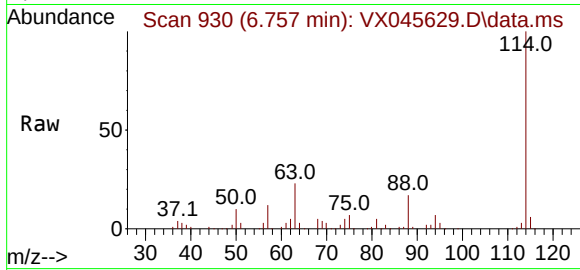




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX045629.D
Acq: 07 Apr 2025 15:21

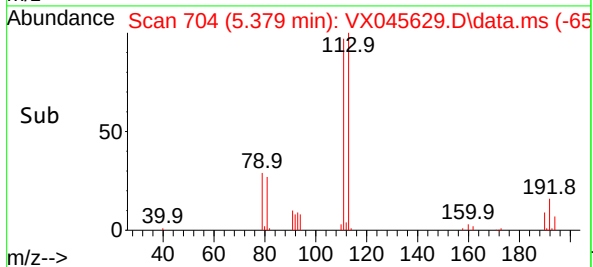
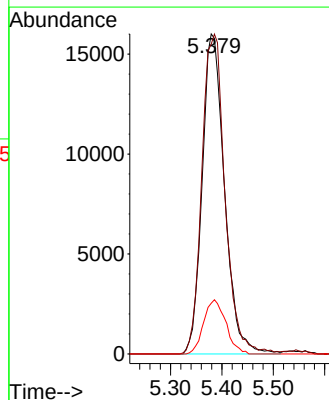
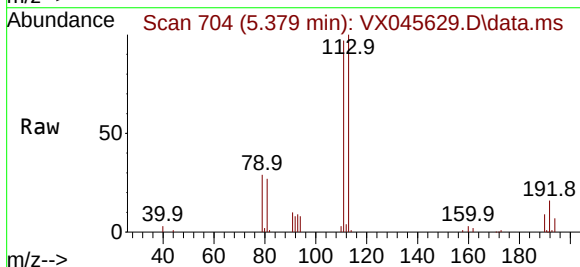
Instrument :
MSVOA_X
ClientSampleId :
TB-2025-4-7

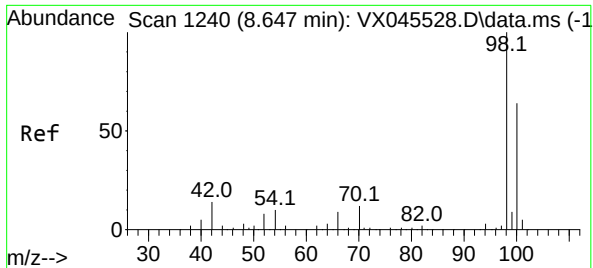
Tgt Ion	Ratio	Lower	Upper
114	100		
63	23.5	0.0	46.8
88	16.6	0.0	35.4



#35
Dibromofluoromethane
Concen: 52.406 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX045629.D
Acq: 07 Apr 2025 15:21

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.8	122.6
192	16.9	13.8	20.6





#50

Toluene-d8

Concen: 50.557 ug/l

RT: 8.647 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX045629.D

Acq: 07 Apr 2025 15:21

Instrument :

MSVOA_X

ClientSampleId :

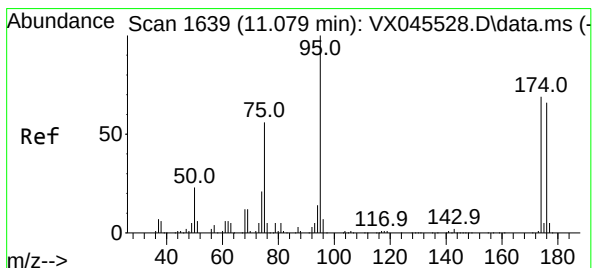
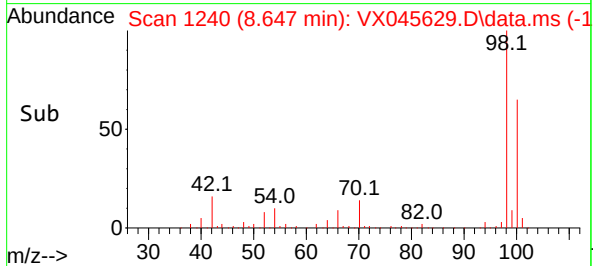
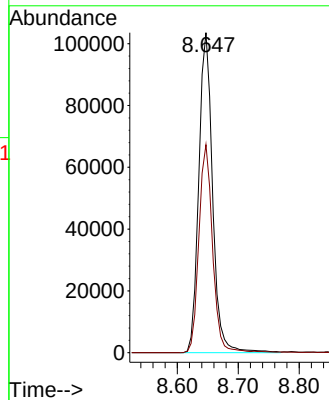
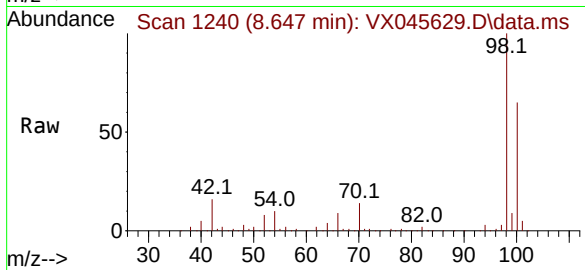
TB-2025-4-7

Tgt Ion: 98 Resp: 162793

Ion Ratio Lower Upper

98 100

100 64.7 52.2 78.4



#62

4-Bromofluorobenzene

Concen: 51.721 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX045629.D

Acq: 07 Apr 2025 15:21

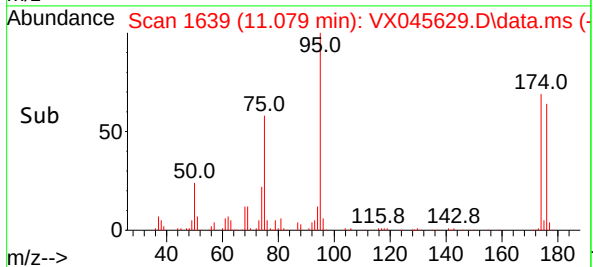
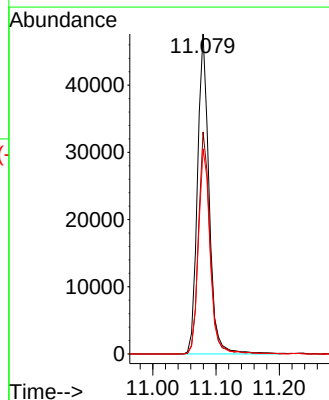
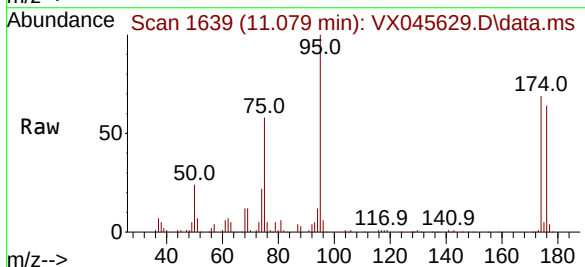
Tgt Ion: 95 Resp: 60662

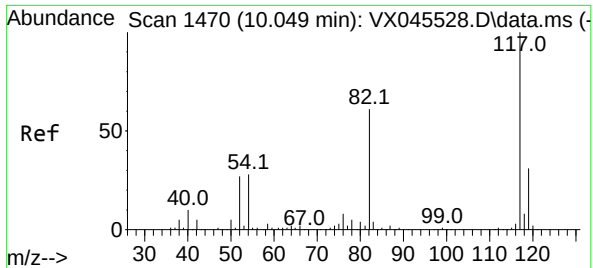
Ion Ratio Lower Upper

95 100

174 69.3 0.0 135.8

176 65.0 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX045629.D

Acq: 07 Apr 2025 15:21

Instrument :

MSVOA_X

ClientSampleId :

TB-2025-4-7

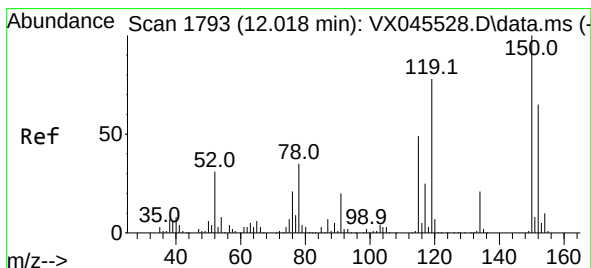
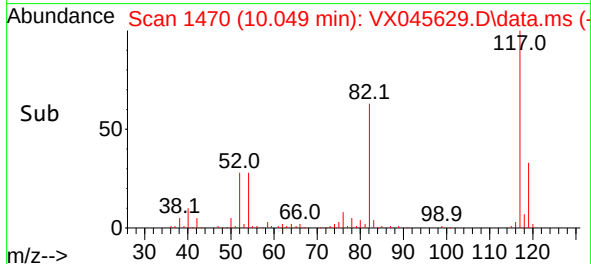
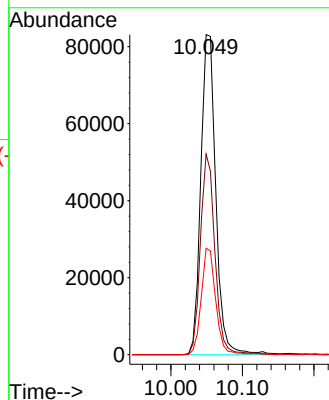
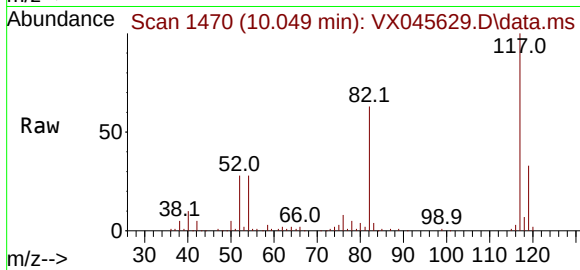
Tgt Ion:117 Resp: 121327

Ion Ratio Lower Upper

117 100

82 62.7 49.2 73.8

119 33.3 25.1 37.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX045629.D

Acq: 07 Apr 2025 15:21

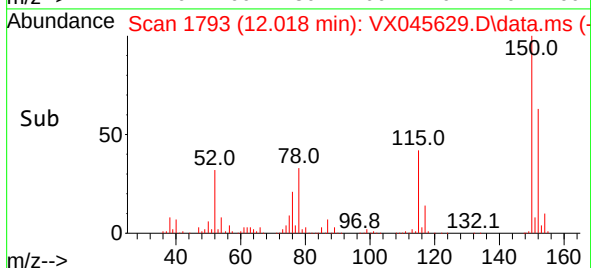
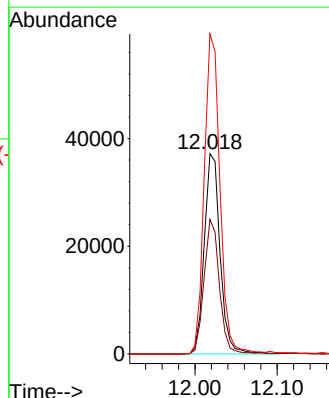
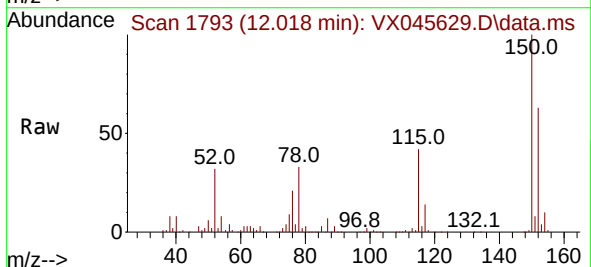
Tgt Ion:152 Resp: 49684

Ion Ratio Lower Upper

152 100

115 65.4 46.9 140.7

150 158.7 0.0 349.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045629.D
Acq On : 07 Apr 2025 15:21
Operator : JC/MD
Sample : Q1746-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-2025-4-7

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M

Title : SW846 8260

Signal : TIC: VX045629.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.246	22	26	32	rBV4	3261	5966	1.30%	0.243%
2	1.624	69	88	92	rBV5	5842	24879	5.43%	1.015%
3	5.379	693	704	721	rBV2	54258	166503	36.33%	6.791%
4	5.544	721	731	747	rVV2	76435	221098	48.25%	9.018%
5	5.952	789	798	817	rBV	66829	179797	39.24%	7.333%
6	6.757	921	930	948	rBV	137904	335435	73.20%	13.681%
7	8.647	1234	1240	1253	rBV	291243	458248	100.00%	18.690%
8	10.049	1465	1470	1487	rBV	289926	413083	90.14%	16.848%
9	11.079	1634	1639	1652	rBV	238472	301518	65.80%	12.298%
10	12.018	1788	1793	1808	rBV	266113	345309	75.35%	14.084%

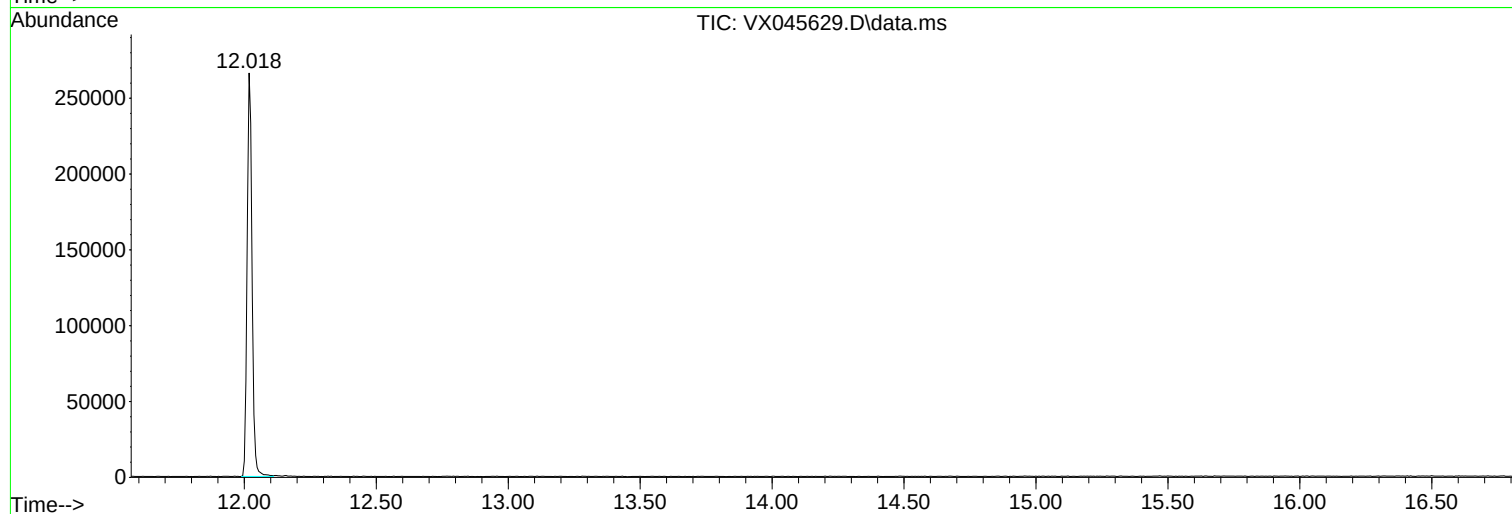
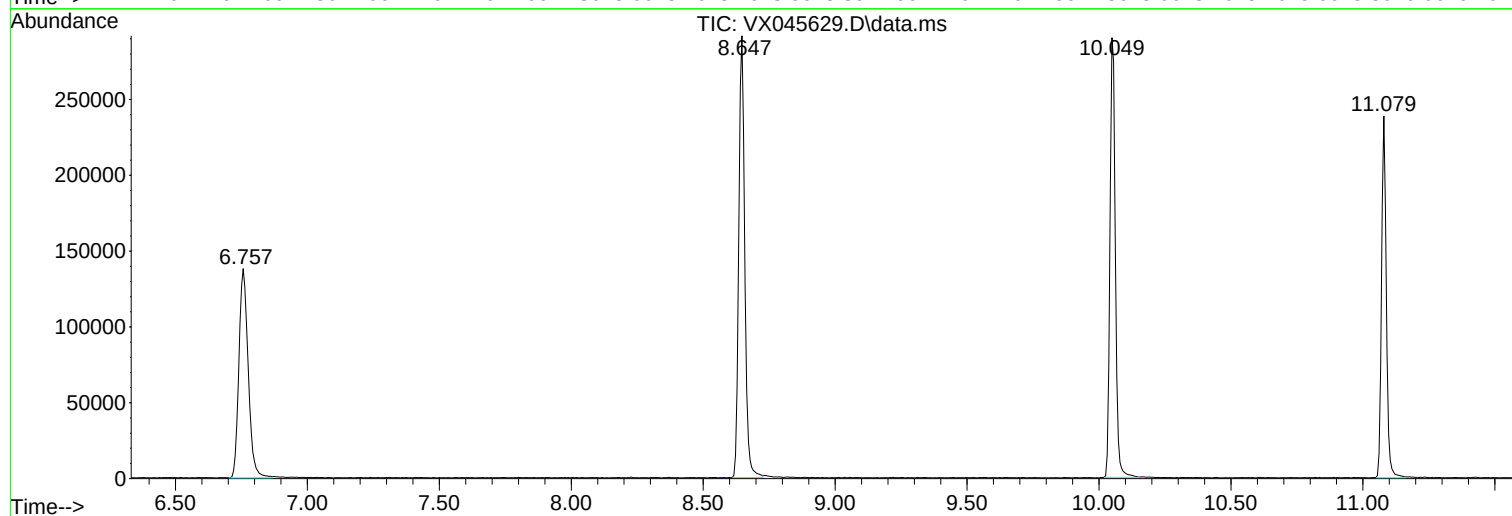
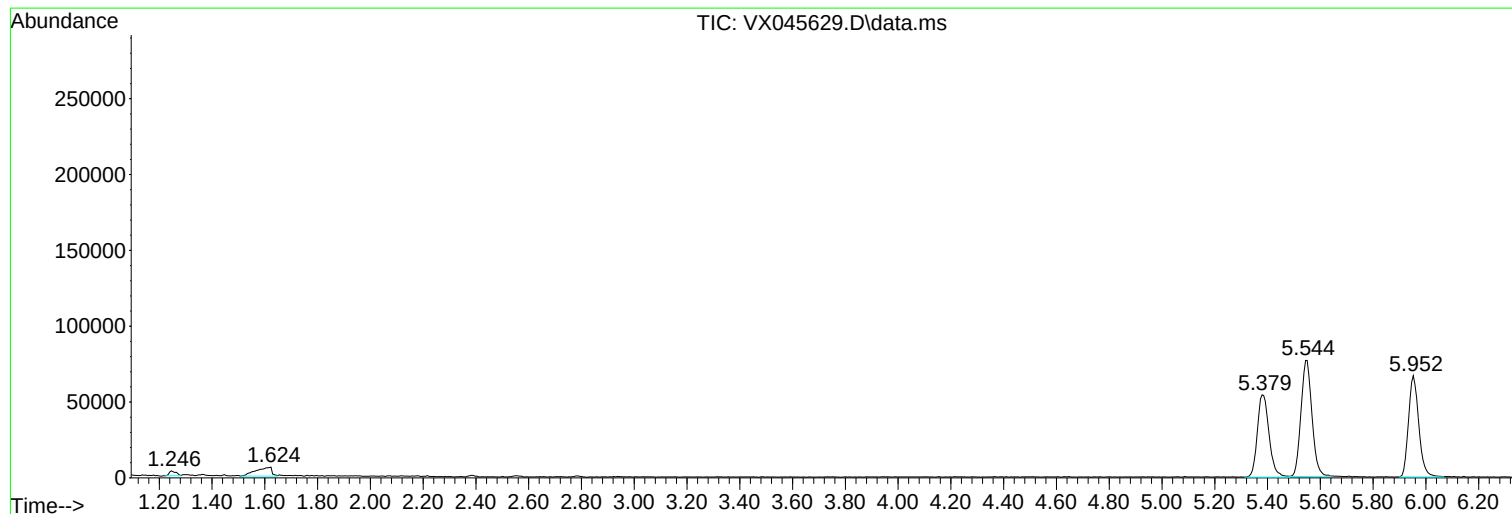
Sum of corrected areas: 2451836

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045629.D
Acq On : 07 Apr 2025 15:21
Operator : JC/MD
Sample : Q1746-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-2025-4-7

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045629.D
Acq On : 07 Apr 2025 15:21
Operator : JC/MD
Sample : Q1746-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-2025-4-7

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045629.D
Acq On : 07 Apr 2025 15:21
Operator : JC/MD
Sample : Q1746-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-2025-4-7

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc



CALIBRATION SUMMARY



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746
 Instrument ID: MSVOA_X Calibration Date(s): 04/01/2025 04/01/2025
 Heated Purge: (Y/N) N Calibration Time(s): 17:06 19:02
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:	RRF001 = VX045525.D	RRF005 = VX045526.D	RRF020 = VX045527.D	RRF050 = VX045528.D	RRF100 = VX045529.D	RRF150 = VX045530.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Dichlorodifluoromethane	0.615	0.695	0.700	0.820	0.837	0.820	0.748	12.1
Chloromethane	0.764	0.734	0.777	0.784	0.815	0.734	0.768	4.1
Vinyl Chloride	0.671	0.662	0.701	0.716	0.738	0.730	0.703	4.4
Bromomethane		0.342	0.327	0.330	0.341	0.327	0.333	2.2
Chloroethane	0.378	0.397	0.390	0.398	0.355	0.319	0.373	8.3
Trichlorofluoromethane	1.051	0.999	1.075	1.086	1.089	0.989	1.048	4.2
1,1,2-Trichlorotrifluoroethane	0.575	0.599	0.635	0.621	0.621	0.634	0.614	3.7
1,1-Dichloroethene	0.563	0.588	0.612	0.604	0.618	0.616	0.600	3.5
Acetone	0.400	0.369	0.387	0.378	0.365	0.355	0.375	4.3
Carbon Disulfide	1.334	1.327	1.434	1.553	1.604	1.642	1.483	9.2
Methyl tert-butyl Ether	1.915	1.964	2.169	2.118	2.217	2.216	2.100	6.2
Methyl Acetate	0.901	0.863	0.864	0.857	0.855	0.846	0.864	2.2
Methylene Chloride	0.692	0.695	0.726	0.709	0.705	0.690	0.703	2
trans-1,2-Dichloroethene	0.574	0.594	0.636	0.624	0.621	0.630	0.613	3.9
1,1-Dichloroethane	1.211	1.240	1.318	1.269	1.283	1.292	1.269	3
Cyclohexane		1.044	1.148	1.123	1.145	1.149	1.122	4
2-Butanone	0.474	0.537	0.582	0.586	0.571	0.548	0.550	7.5
Carbon Tetrachloride	0.450	0.497	0.521	0.536	0.545	0.556	0.518	7.5
cis-1,2-Dichloroethene	0.762	0.696	0.760	0.751	0.754	0.760	0.747	3.4
Bromochloromethane	0.671	0.608	0.617	0.596	0.610	0.576	0.613	5.2
Chloroform	1.244	1.309	1.348	1.315	1.309	1.309	1.306	2.6
1,1,1-Trichloroethane	1.028	1.052	1.120	1.109	1.153	1.167	1.105	5
Methylcyclohexane	0.519	0.527	0.596	0.622	0.628	0.632	0.587	8.8
Benzene	1.414	1.416	1.519	1.481	1.483	1.465	1.463	2.8
1,2-Dichloroethane	0.533	0.585	0.649	0.622	0.620	0.617	0.604	6.7
Trichloroethene	0.349	0.322	0.356	0.351	0.351	0.356	0.348	3.7
1,2-Dichloropropane	0.309	0.365	0.388	0.376	0.379	0.374	0.365	7.8
Bromodichloromethane	0.521	0.519	0.576	0.572	0.587	0.583	0.560	5.6
4-Methyl-2-Pentanone	0.499	0.578	0.661	0.663	0.647	0.589	0.606	10.6
Toluene	0.817	0.866	0.939	0.910	0.905	0.875	0.885	4.8

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746
 Instrument ID: MSVOA_X Calibration Date(s): 04/01/2025 04/01/2025
 Heated Purge: (Y/N) N Calibration Time(s): 17:06 19:02
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:	RRF001 = VX045525.D	RRF005 = VX045526.D	RRF020 = VX045527.D	RRF050 = VX045528.D	RRF100 = VX045529.D	RRF150 = VX045530.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
t-1,3-Dichloropropene	0.316	0.400	0.465	0.508	0.555	0.558	0.467	20.3
cis-1,3-Dichloropropene	0.371	0.474	0.546	0.568	0.597	0.600	0.526	16.9
1,1,2-Trichloroethane	0.337	0.346	0.376	0.359	0.358	0.340	0.353	4.1
2-Hexanone	0.363	0.429	0.488	0.492	0.484	0.439	0.449	11.1
Dibromochloromethane	0.313	0.352	0.404	0.412	0.421	0.405	0.385	11.1
1,2-Dibromoethane	0.294	0.351	0.380	0.373	0.380	0.364	0.357	9.1
Tetrachloroethene	0.346	0.373	0.371	0.347	0.333	0.347	0.353	4.5
Chlorobenzene	0.951	1.054	1.123	1.084	1.086	1.112	1.068	5.8
Ethyl Benzene	1.608	1.819	2.002	2.007	1.993	2.053	1.914	8.9
m/p-Xylenes	0.594	0.669	0.732	0.728	0.723	0.729	0.696	7.9
o-Xylene	0.562	0.676	0.725	0.719	0.716	0.714	0.686	9.2
Styrene	0.897	1.043	1.202	1.216	1.230	1.202	1.132	11.8
Bromoform	0.220	0.252	0.272	0.296	0.307	0.315	0.277	13.1
Isopropylbenzene	3.581	3.850	4.224	4.181	4.043	4.151	4.005	6.2
1,1,2,2-Tetrachloroethane	1.457	1.428	1.461	1.384	1.354	1.358	1.407	3.4
1,3-Dichlorobenzene	1.658	1.605	1.726	1.699	1.714	1.706	1.684	2.7
1,4-Dichlorobenzene	1.671	1.724	1.768	1.703	1.674	1.706	1.708	2.1
1,2-Dichlorobenzene	1.644	1.645	1.750	1.678	1.665	1.667	1.675	2.3
1,2-Dibromo-3-Chloropropane	0.196	0.260	0.312	0.316	0.333	0.349	0.294	19.4
1,2,4-Trichlorobenzene	0.727	0.844	0.948	0.947	1.045	1.083	0.932	14.1
1,2,3-Trichlorobenzene	0.782	0.916	0.999	1.000	1.063	1.097	0.976	11.6
1,2-Dichloroethane-d4		0.962	0.900	0.868	0.904	0.937	0.914	3.9
Dibromofluoromethane		0.372	0.342	0.345	0.353	0.362	0.355	3.5
Toluene-d8		1.257	1.233	1.214	1.230	1.257	1.238	1.5
4-Bromofluorobenzene		0.413	0.448	0.453	0.481	0.460	0.451	5.5

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X040225W.M
 Title : SW846 8260
 Last Update : Wed Apr 02 03:11:43 2025
 Response Via : Initial Calibration

Calibration Files

1 =VX045525.D 5 =VX045526.D 20 =VX045527.D 50 =VX045528.D 100 =VX045529.D 150 =VX045530.D

	Compound	1	5	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.615	0.695	0.700	0.820	0.837	0.820	0.748	12.13
3) P	Chloromethane	0.764	0.734	0.777	0.784	0.815	0.734	0.768	4.05
4) C	Vinyl Chloride	0.671	0.662	0.701	0.716	0.738	0.730	0.703	4.43#
5) T	Bromomethane		0.342	0.327	0.330	0.341	0.327	0.333	2.20
6) T	Chloroethane	0.378	0.397	0.390	0.398	0.355	0.319	0.373	8.27
7) T	Trichlorofluor...	1.051	0.999	1.075	1.086	1.089	0.989	1.048	4.22
8) T	Diethyl Ether	0.345	0.340	0.356	0.355	0.358	0.357	0.352	2.11
9) T	1,1,2-Trichlor...	0.575	0.599	0.635	0.621	0.621	0.634	0.614	3.74
10) T	Methyl Iodide		0.705	0.789	0.799	0.788	0.750	0.766	5.08
11) T	Tert butyl alc...		0.111	0.124	0.127	0.128	0.124	0.123	5.44
12) CM	1,1-Dichloroet...	0.563	0.588	0.612	0.604	0.618	0.616	0.600	3.51#
13) T	Acrolein		0.176	0.161	0.167	0.170	0.172	0.169	3.41
14) T	Allyl chloride	1.092	1.068	1.142	1.172	1.199	1.160	1.139	4.36
15) T	Acrylonitrile	0.356	0.382	0.413	0.407	0.394	0.376	0.388	5.38
16) T	Acetone	0.400	0.369	0.387	0.378	0.365	0.355	0.375	4.28
17) T	Carbon Disulfide	1.334	1.327	1.434	1.553	1.604	1.642	1.483	9.24
18) T	Methyl Acetate	0.901	0.863	0.864	0.857	0.855	0.846	0.864	2.22
19) T	Methyl tert-bu...	1.915	1.964	2.169	2.118	2.217	2.216	2.100	6.20
20) T	Methylene Chlo...	0.692	0.695	0.726	0.709	0.705	0.690	0.703	1.96
21) T	trans-1,2-Dich...	0.574	0.594	0.636	0.624	0.621	0.630	0.613	3.94
22) T	Diisopropyl ether	2.003	2.120	2.329	2.293	2.359	2.357	2.243	6.59
23) T	Vinyl Acetate	1.542	1.693	2.005	2.087	2.147	2.156	1.938	13.34
24) P	1,1-Dichloroet...	1.211	1.240	1.318	1.269	1.283	1.292	1.269	3.01
25) T	2-Butanone	0.474	0.537	0.582	0.586	0.571	0.548	0.550	7.55
26) T	2,2-Dichloropr...	0.676	0.757	0.802	0.847	0.903	0.933	0.820	11.67
27) T	cis-1,2-Dichlo...	0.762	0.696	0.760	0.751	0.754	0.760	0.747	3.43
28) T	Bromochloromet...	0.671	0.608	0.617	0.596	0.610	0.576	0.613	5.18
29) T	Tetrahydrofuran	0.339	0.341	0.371	0.371	0.364	0.352	0.356	4.05
30) C	Chloroform	1.244	1.309	1.348	1.315	1.309	1.309	1.306	2.60#
31) T	Cyclohexane		1.044	1.148	1.123	1.145	1.149	1.122	4.00
32) T	1,1,1-Trichlor...	1.028	1.052	1.120	1.109	1.153	1.167	1.105	4.96
33) S	1,2-Dichloroet...		0.962	0.900	0.868	0.904	0.937	0.914	3.94
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.372	0.342	0.345	0.353	0.362	0.355	3.48
36) T	1,1-Dichloropr...	0.477	0.443	0.474	0.485	0.496	0.499	0.479	4.26
37) T	Ethyl Acetate	0.582	0.565	0.609	0.623	0.629	0.614	0.604	4.15
38) T	Carbon Tetrach...	0.450	0.497	0.521	0.536	0.545	0.556	0.518	7.49
39) T	Methylcyclohexane	0.519	0.527	0.596	0.622	0.628	0.632	0.587	8.76
40) TM	Benzene	1.414	1.416	1.519	1.481	1.483	1.465	1.463	2.81
41) T	Methacrylonitrile	0.252	0.276	0.338	0.351	0.350	0.343	0.318	13.52
42) TM	1,2-Dichloroet...	0.533	0.585	0.649	0.622	0.620	0.617	0.604	6.72
43) T	Isopropyl Acetate	0.735	0.831	0.952	0.978	1.002	0.991	0.915	11.77
44) TM	Trichloroethene	0.349	0.322	0.356	0.351	0.351	0.356	0.348	3.67
45) C	1,2-Dichloropr...	0.309	0.365	0.388	0.376	0.379	0.374	0.365	7.83#
46) T	Dibromomethane	0.237	0.287	0.297	0.292	0.286	0.282	0.280	7.76
47) T	Bromodichlorom...	0.521	0.519	0.576	0.571	0.587	0.583	0.560	5.56
48) T	Methyl methacr...	0.405	0.416	0.486	0.508	0.518	0.502	0.472	10.44
49) T	1,4-Dioxane	0.007	0.010	0.009	0.009	0.009	0.008	0.009	13.93
50) S	Toluene-d8		1.257	1.233	1.214	1.230	1.257	1.238	1.50
51) T	4-Methyl-2-Pen...	0.499	0.578	0.661	0.663	0.647	0.589	0.606	10.57
52) CM	Toluene	0.817	0.866	0.939	0.910	0.905	0.875	0.885	4.79#
53) T	t-1,3-Dichloro...	0.316	0.400	0.465	0.508	0.555	0.558	0.467	20.27
54) T	cis-1,3-Dichlo...	0.371	0.474	0.546	0.568	0.597	0.600	0.526	16.88
55) T	1,1,2-Trichlor...	0.337	0.346	0.376	0.359	0.358	0.340	0.353	4.11
56) T	Ethyl methacry...	0.407	0.482	0.562	0.600	0.629	0.595	0.546	15.54

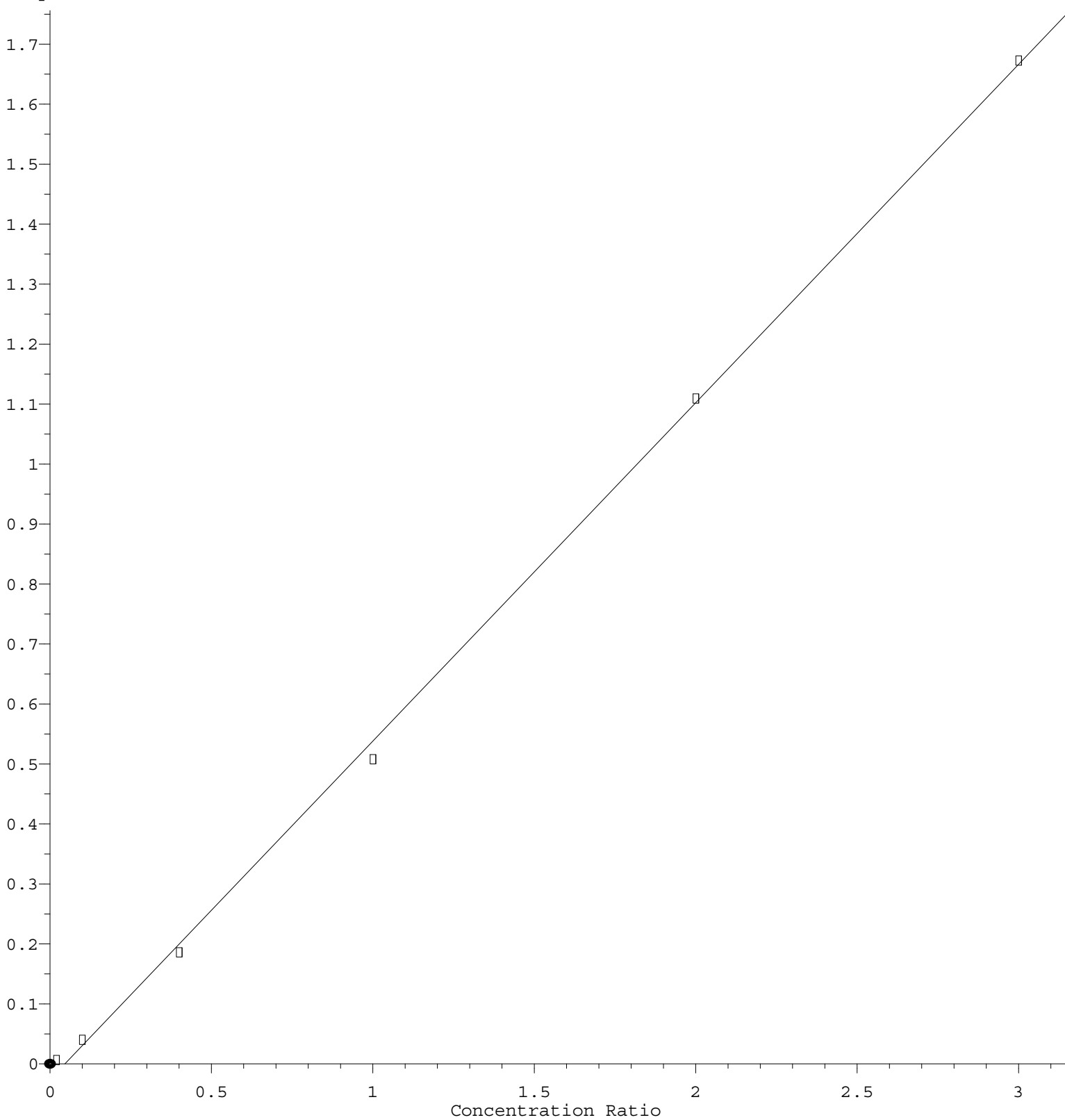
Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X040225W.M

57)	T	1,3-Dichloropr...	0.555	0.614	0.652	0.633	0.630	0.601	0.614	5.49
58)	T	2-Chloroethyl ...	0.221	0.257	0.286	0.298	0.301	0.293	0.276	11.26
59)	T	2-Hexanone	0.363	0.429	0.488	0.492	0.484	0.439	0.449	11.14
60)	T	Dibromochlorom...	0.313	0.352	0.404	0.412	0.421	0.405	0.385	11.06
61)	T	1,2-Dibromoethane	0.294	0.351	0.380	0.373	0.380	0.364	0.357	9.12
62)	S	4-Bromofluorob...		0.413	0.448	0.453	0.481	0.460	0.451	5.45
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.346	0.373	0.371	0.347	0.333	0.347	0.353	4.47
65)	PM	Chlorobenzene	0.951	1.054	1.123	1.084	1.086	1.112	1.068	5.83
66)	T	1,1,1,2-Tetrac...	0.368	0.344	0.372	0.373	0.379	0.390	0.371	4.18
67)	C	Ethyl Benzene	1.608	1.819	2.002	2.007	1.993	2.053	1.914	8.89#
68)	T	m/p-Xylenes	0.594	0.669	0.732	0.728	0.723	0.729	0.696	7.92
69)	T	o-Xylene	0.562	0.676	0.725	0.719	0.716	0.714	0.686	9.17
70)	T	Styrene	0.897	1.043	1.202	1.216	1.230	1.202	1.132	11.82
71)	P	Bromoform	0.220	0.252	0.272	0.296	0.307	0.315	0.277	13.07
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.581	3.850	4.224	4.181	4.043	4.151	4.005	6.17
74)	T	N-amyl acetate	1.442	1.682	1.960	2.058	2.132	2.221	1.916	15.51
75)	P	1,1,2,2-Tetrac...	1.457	1.428	1.461	1.384	1.354	1.358	1.407	3.43
76)	T	1,2,3-Trichlor...	1.221	1.257	1.251	1.225	1.192	1.171	1.220	2.71
77)	T	Bromobenzene	0.877	0.927	0.953	0.938	0.925	0.932	0.925	2.77
78)	T	n-propylbenzene	3.734	4.346	5.012	4.896	4.819	4.872	4.613	10.59
79)	T	2-Chlorotoluene	2.894	2.873	3.130	2.966	2.915	2.918	2.949	3.19
80)	T	1,3,5-Trimethy...	2.931	3.119	3.571	3.511	3.367	3.371	3.312	7.35
81)	T	trans-1,4-Dich...		0.274	0.323	0.371	0.401	0.428	0.359	17.16
82)	T	4-Chlorotoluene	2.961	3.156	3.470	3.449	3.350	3.343	3.288	5.93
83)	T	tert-Butylbenzene	2.894	3.124	3.437	3.427	3.387	3.405	3.279	6.78
84)	T	1,2,4-Trimethy...	2.906	3.129	3.529	3.523	3.438	3.420	3.324	7.57
85)	T	sec-Butylbenzene	3.195	3.828	4.316	4.300	4.232	4.292	4.027	11.12
86)	T	p-Isopropyltol...	2.734	3.157	3.515	3.524	3.506	3.484	3.320	9.63
87)	T	1,3-Dichlorobe...	1.658	1.605	1.726	1.699	1.714	1.706	1.684	2.70
88)	T	1,4-Dichlorobe...	1.671	1.724	1.768	1.703	1.674	1.706	1.708	2.09
89)	T	n-Butylbenzene	2.117	2.486	2.974	3.160	3.256	3.283	2.879	16.50
90)	T	Hexachloroethane	0.493	0.493	0.556	0.597	0.623	0.661	0.571	12.14
91)	T	1,2-Dichlorobe...	1.644	1.645	1.750	1.678	1.665	1.667	1.675	2.34
92)	T	1,2-Dibromo-3-...	0.196	0.260	0.312	0.316	0.333	0.349	0.294	19.37
93)	T	1,2,4-Trichlor...	0.727	0.844	0.948	0.947	1.045	1.083	0.932	14.07
94)	T	Hexachlorobuta...	0.379	0.389	0.401	0.404	0.415	0.422	0.402	4.03
95)	T	Naphthalene	2.544	3.070	3.630	3.722	3.867	3.982	3.469	15.93
96)	T	1,2,3-Trichlor...	0.782	0.916	0.999	1.000	1.063	1.097	0.976	11.63

(#) = Out of Range

t-1,3-Dichloropropene

Response Ratio



$$\text{Response} = 5.639\text{e-}001 * \text{Amt} - 2.582\text{e-}002$$

Coef of Det (r^2) = 0.999232 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X040225W.M

Calibration Table Last Updated: Wed Apr 02 03:11:43 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045525.D
 Acq On : 01 Apr 2025 17:06
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:50:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.544	168	96737	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	175266	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	153312	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	61114	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l	
Spiked Amount	50.000	Range	74 - 125	Recovery	=	0.000%#
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount	50.000	Range	75 - 124	Recovery	=	0.000%#
50) Toluene-d8	0.000	98	0d	0.000	ug/l	
Spiked Amount	50.000	Range	86 - 113	Recovery	=	0.000%#
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount	50.000	Range	77 - 121	Recovery	=	0.000%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.167	85	1189	0.822	ug/l	94
3) Chloromethane	1.307	50	1479	0.995	ug/l #	86
4) Vinyl Chloride	1.374	62	1299	0.955	ug/l	98
6) Chloroethane	1.673	64	732	1.014	ug/l #	67
7) Trichlorofluoromethane	1.880	101	2034	1.003	ug/l	93
8) Diethyl Ether	2.130	74	668	0.981	ug/l	83
9) 1,1,2-Trichlorotrifluo...	2.325	101	1113	0.936	ug/l	94
12) 1,1-Dichloroethene	2.313	96	1090	0.939	ug/l	95
14) Allyl chloride	2.660	41	2113	0.959	ug/l	93
15) Acrylonitrile	3.075	53	3446	4.592	ug/l	95
16) Acetone	2.380	43	3867	5.323	ug/l	98
17) Carbon Disulfide	2.508	76	2580	0.899	ug/l #	95
18) Methyl Acetate	2.703	43	1744	1.043	ug/l	91
19) Methyl tert-butyl Ether	3.117	73	3705	0.912	ug/l	92
20) Methylene Chloride	2.782	84	1338	0.984	ug/l	91
21) trans-1,2-Dichloroethene	3.087	96	1111	0.936	ug/l #	93
22) Diisopropyl ether	3.758	45	3875	0.893	ug/l #	59
23) Vinyl Acetate	3.727	43	14921	3.979	ug/l	95
24) 1,1-Dichloroethane	3.611	63	2343	0.954	ug/l #	90
25) 2-Butanone	4.581	43	4590	4.317	ug/l	92
26) 2,2-Dichloropropane	4.471	77	1307	0.824	ug/l	85
27) cis-1,2-Dichloroethene	4.495	96	1475	1.020	ug/l	80
28) Bromochloromethane	4.891	49	1298	1.094	ug/l #	97
29) Tetrahydrofuran	5.032	42	3276	4.752	ug/l	97
30) Chloroform	5.093	83	2406	0.953	ug/l	84
32) 1,1,1-Trichloroethane	5.385	97	1989	0.931	ug/l #	53
36) 1,1-Dichloropropene	5.696	75	1671	0.995	ug/l #	89
37) Ethyl Acetate	4.751	43	2040	0.964	ug/l #	76
38) Carbon Tetrachloride	5.672	117	1578	0.870	ug/l #	91
39) Methylcyclohexane	7.379	83	1818	0.883	ug/l #	89
40) Benzene	6.038	78	4957	0.967	ug/l	97
41) Methacrylonitrile	4.952	41	883m	0.784	ug/l	
42) 1,2-Dichloroethane	6.092	62	1867	0.882	ug/l	86
43) Isopropyl Acetate	6.361	43	2578	0.804	ug/l #	86
44) Trichloroethene	7.123	130	1224	1.004	ug/l	87
45) 1,2-Dichloropropane	7.434	63	1082	0.846	ug/l	90

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045525.D
 Acq On : 01 Apr 2025 17:06
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:50:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	7.592	93	831	0.846	ug/l	90
47) Bromodichloromethane	7.824	83	1827	0.931	ug/l #	77
48) Methyl methacrylate	7.720	41	1419	0.857	ug/l	92
49) 1,4-Dioxane	7.671	88	458m	15.288	ug/l	
51) 4-Methyl-2-Pentanone	8.574	43	8746	4.114	ug/l	100
52) Toluene	8.720	92	2863	0.923	ug/l	96
53) t-1,3-Dichloropropene	8.988	75	1109	2.850	ug/l	93
54) cis-1,3-Dichloropropene	8.379	75	1300	0.705	ug/l	90
55) 1,1,2-Trichloroethane	9.159	97	1183	0.957	ug/l #	76
56) Ethyl methacrylate	9.129	69	1425m	0.745	ug/l	
57) 1,3-Dichloropropane	9.311	76	1946	0.904	ug/l	91
58) 2-Chloroethyl Vinyl ether	8.245	63	3880	4.008	ug/l	93
59) 2-Hexanone	9.439	43	6360	4.040	ug/l	85
60) Dibromochloromethane	9.519	129	1097	0.814	ug/l	99
61) 1,2-Dibromoethane	9.610	107	1032	0.825	ug/l	96
64) Tetrachloroethene	9.269	164	1062	0.981	ug/l	92
65) Chlorobenzene	10.080	112	2916	0.890	ug/l	95
66) 1,1,1,2-Tetrachloroethane	10.159	131	1128	0.992	ug/l #	64
67) Ethyl Benzene	10.195	91	4930	0.840	ug/l	90
68) m/p-Xylenes	10.305	106	3645	1.708	ug/l	97
69) o-Xylene	10.640	106	1724	0.820	ug/l	83
70) Styrene	10.659	104	2750	0.793	ug/l	94
71) Bromoform	10.805	173	675	0.795	ug/l #	94
73) Isopropylbenzene	10.964	105	4377	0.894	ug/l	95
74) N-amyl acetate	10.854	43	1762	0.752	ug/l #	93
75) 1,1,2,2-Tetrachloroethane	11.214	83	1781	1.036	ug/l	94
76) 1,2,3-Trichloropropane	11.244	75	1493m	1.002	ug/l	
77) Bromobenzene	11.201	156	1072	0.948	ug/l	95
78) n-propylbenzene	11.305	91	4564	0.809	ug/l	97
79) 2-Chlorotoluene	11.366	91	3537	0.981	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	3582	0.885	ug/l	100
82) 4-Chlorotoluene	11.457	91	3619	0.900	ug/l	96
83) tert-Butylbenzene	11.713	119	3537	0.883	ug/l	94
84) 1,2,4-Trimethylbenzene	11.750	105	3552	0.874	ug/l	99
85) sec-Butylbenzene	11.890	105	3905	0.793	ug/l	98
86) p-Isopropyltoluene	12.012	119	3342	0.824	ug/l	94
87) 1,3-Dichlorobenzene	11.969	146	2026	0.984	ug/l	97
88) 1,4-Dichlorobenzene	12.043	146	2042m	0.978	ug/l	
89) n-Butylbenzene	12.335	91	2587	0.735	ug/l	99
90) Hexachloroethane	12.543	117	602	0.863	ug/l	95
91) 1,2-Dichlorobenzene	12.335	146	2009	0.981	ug/l	93
92) 1,2-Dibromo-3-Chloropr...	12.945	75	239	0.665	ug/l #	73
93) 1,2,4-Trichlorobenzene	13.591	180	888	0.779	ug/l	94
94) Hexachlorobutadiene	13.725	225	463	0.943	ug/l	90
95) Naphthalene	13.780	128	3109	0.733	ug/l	99
96) 1,2,3-Trichlorobenzene	13.969	180	956	0.801	ug/l	88

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

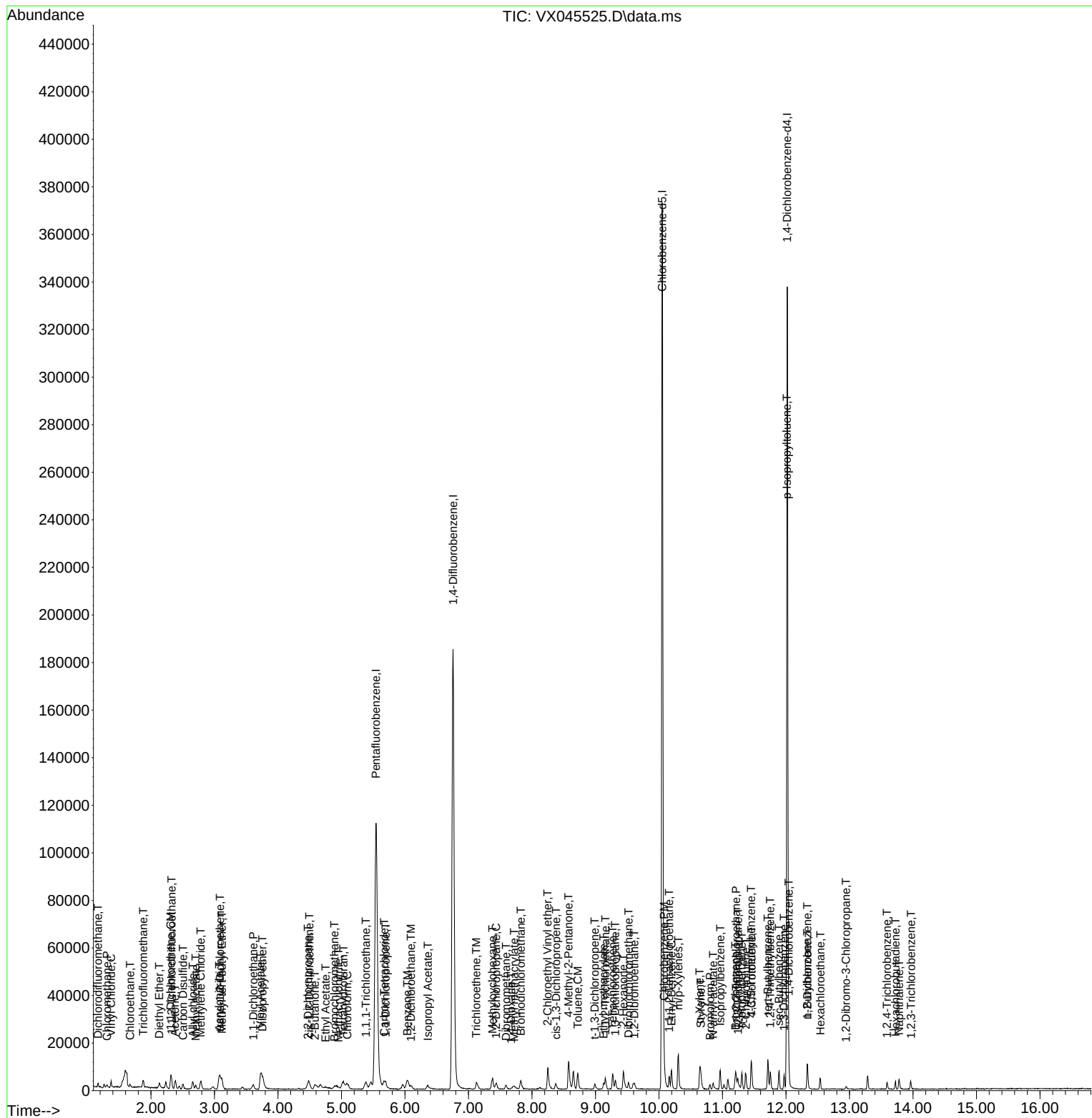
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045525.D
Acq On : 01 Apr 2025 17:06
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:50:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045526.D
 Acq On : 01 Apr 2025 17:29
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:51:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.544	168	93234	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	166137	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	143937	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	63909	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	8969	5.260	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	10.520%#		
35) Dibromofluoromethane	5.391	113	6181	5.244	ug/l	0.01
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.480%#		
50) Toluene-d8	8.647	98	20890	5.077	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.160%#		
62) 4-Bromofluorobenzene	11.079	95	6867	4.582	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	9.160%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	6482	4.649	ug/l	91
3) Chloromethane	1.307	50	6846	4.779	ug/l	99
4) Vinyl Chloride	1.374	62	6169	4.706	ug/l	100
5) Bromomethane	1.593	94	3185	5.124	ug/l	90
6) Chloroethane	1.666	64	3703	5.324	ug/l	96
7) Trichlorofluoromethane	1.874	101	9316	4.766	ug/l	94
8) Diethyl Ether	2.136	74	3171	4.832	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.325	101	5589	4.879	ug/l	99
10) Methyl Iodide	2.447	142	6574	4.601	ug/l	97
11) Tert butyl alcohol	2.983	59	5186	22.633	ug/l	99
12) 1,1-Dichloroethene	2.313	96	5485	4.901	ug/l	90
13) Acrolein	2.239	56	8202	25.993	ug/l	97
14) Allyl chloride	2.654	41	9960	4.690	ug/l	95
15) Acrylonitrile	3.069	53	17811	24.624	ug/l	97
16) Acetone	2.386	43	17188	24.550	ug/l	99
17) Carbon Disulfide	2.502	76	12376	4.477	ug/l #	93
18) Methyl Acetate	2.703	43	8042	4.989	ug/l	96
19) Methyl tert-butyl Ether	3.111	73	18314	4.677	ug/l	100
20) Methylene Chloride	2.782	84	6481	4.945	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	5534	4.840	ug/l	95
22) Diisopropyl ether	3.764	45	19765	4.725	ug/l #	82
23) Vinyl Acetate	3.721	43	78907	21.831	ug/l	98
24) 1,1-Dichloroethane	3.605	63	11562	4.887	ug/l	98
25) 2-Butanone	4.574	43	25026	24.419	ug/l	99
26) 2,2-Dichloropropane	4.477	77	7054	4.615	ug/l	95
27) cis-1,2-Dichloroethene	4.483	96	6485	4.655	ug/l	95
28) Bromochloromethane	4.898	49	5666	4.956	ug/l	95
29) Tetrahydrofuran	5.013	42	15913	23.950	ug/l	100
30) Chloroform	5.087	83	12200	5.012	ug/l	99
31) Cyclohexane	5.465	56	9731	4.653	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	9811	4.763	ug/l	99
36) 1,1-Dichloropropene	5.690	75	7354	4.621	ug/l	98
37) Ethyl Acetate	4.721	43	9384	4.679	ug/l #	91
38) Carbon Tetrachloride	5.666	117	8264	4.804	ug/l	99
39) Methylcyclohexane	7.379	83	8757	4.489	ug/l	95
40) Benzene	6.038	78	23522	4.839	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045526.D
 Acq On : 01 Apr 2025 17:29
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:51:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	4593	4.302	ug/l	92
42) 1,2-Dichloroethane	6.092	62	9713	4.838	ug/l	100
43) Isopropyl Acetate	6.348	43	13803	4.541	ug/l	97
44) Trichloroethene	7.129	130	5355	4.635	ug/l	99
45) 1,2-Dichloropropane	7.434	63	6060	4.997	ug/l	99
46) Dibromomethane	7.580	93	4767	5.120	ug/l	99
47) Bromodichloromethane	7.818	83	8619	4.636	ug/l #	97
48) Methyl methacrylate	7.696	41	6908	4.401	ug/l	98
49) 1,4-Dioxane	7.665	88	3205	112.864	ug/l	95
51) 4-Methyl-2-Pentanone	8.574	43	48050	23.844	ug/l	97
52) Toluene	8.714	92	14391	4.893	ug/l	100
53) t-1,3-Dichloropropene	8.982	75	6643	5.834	ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	7873	4.506	ug/l	95
55) 1,1,2-Trichloroethane	9.153	97	5741	4.898	ug/l	90
56) Ethyl methacrylate	9.116	69	8012	4.417	ug/l	95
57) 1,3-Dichloropropane	9.305	76	10208	5.002	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.244	63	21382	23.302	ug/l	99
59) 2-Hexanone	9.433	43	35628	23.875	ug/l	99
60) Dibromochloromethane	9.519	129	5855	4.582	ug/l	99
61) 1,2-Dibromoethane	9.610	107	5837	4.920	ug/l	98
64) Tetrachloroethene	9.275	164	5373	5.287	ug/l	93
65) Chlorobenzene	10.073	112	15178	4.935	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.159	131	4945	4.631	ug/l	97
67) Ethyl Benzene	10.195	91	26180	4.753	ug/l	97
68) m/p-Xylenes	10.299	106	19268	9.617	ug/l	99
69) o-Xylene	10.640	106	9735	4.932	ug/l	99
70) Styrene	10.653	104	15017	4.610	ug/l	96
71) Bromoform	10.799	173	3634	4.558	ug/l #	95
73) Isopropylbenzene	10.964	105	24604	4.806	ug/l	100
74) N-amyl acetate	10.848	43	10750	4.390	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	9127	5.075	ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	8032m	5.152	ug/l	
77) Bromobenzene	11.195	156	5927	5.011	ug/l	97
78) n-propylbenzene	11.305	91	27777	4.711	ug/l	98
79) 2-Chlorotoluene	11.360	91	18358	4.870	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	19936	4.710	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.018	75	1752	3.814	ug/l	85
82) 4-Chlorotoluene	11.457	91	20171	4.799	ug/l	99
83) tert-Butylbenzene	11.713	119	19962	4.763	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	19998	4.707	ug/l	99
85) sec-Butylbenzene	11.890	105	24465	4.753	ug/l	100
86) p-Isopropyltoluene	12.006	119	20178	4.755	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	10255	4.763	ug/l	98
88) 1,4-Dichlorobenzene	12.036	146	11016	5.047	ug/l	93
89) n-Butylbenzene	12.329	91	15887	4.317	ug/l	98
90) Hexachloroethane	12.536	117	3151	4.320	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	10510	4.910	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	1661	4.417	ug/l	92
93) 1,2,4-Trichlorobenzene	13.591	180	5391	4.524	ug/l	95
94) Hexachlorobutadiene	13.719	225	2483	4.836	ug/l	98
95) Naphthalene	13.774	128	19618	4.424	ug/l	97
96) 1,2,3-Trichlorobenzene	13.957	180	5854	4.692	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045526.D
Acq On : 01 Apr 2025 17:29
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:51:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

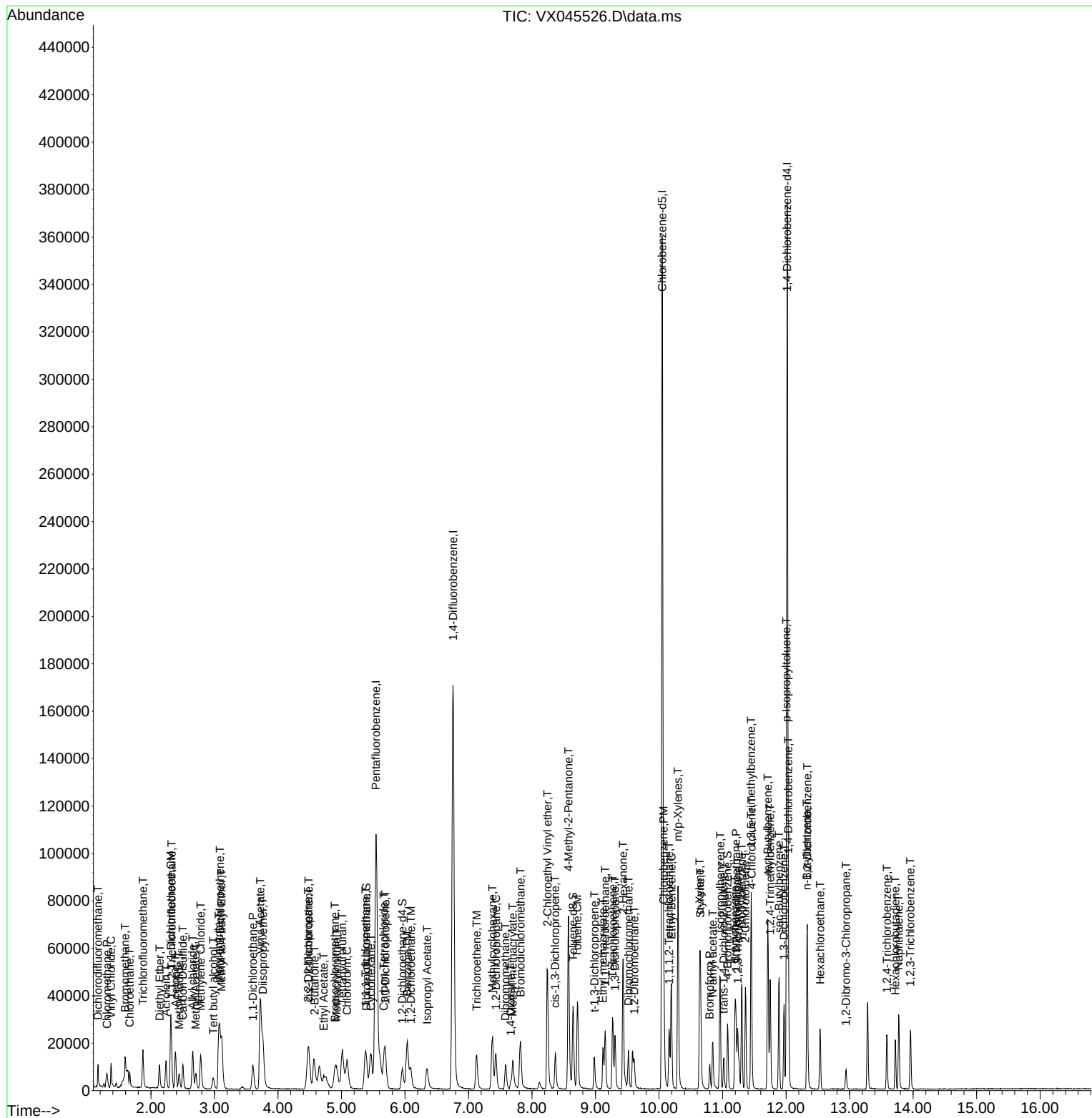
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045526.D
Acq On : 01 Apr 2025 17:29
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:51:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045527.D
 Acq On : 01 Apr 2025 17:52
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:52:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.550	168	90228	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	160754	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	144087	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	65341	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	32500	19.697	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	39.400%#		
35) Dibromofluoromethane	5.385	113	21963	19.256	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	38.520%#		
50) Toluene-d8	8.647	98	79303	19.921	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	39.840%#		
62) 4-Bromofluorobenzene	11.079	95	28795	19.858	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	39.720%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	25265	18.724	ug/l	97
3) Chloromethane	1.301	50	28034	20.223	ug/l	98
4) Vinyl Chloride	1.374	62	25285	19.931	ug/l	97
5) Bromomethane	1.593	94	11815	19.642	ug/l	99
6) Chloroethane	1.666	64	14071	20.905	ug/l	98
7) Trichlorofluoromethane	1.874	101	38815	20.518	ug/l	98
8) Diethyl Ether	2.136	74	12852	20.235	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	22917	20.673	ug/l	95
10) Methyl Iodide	2.441	142	28478	20.596	ug/l	99
11) Tert butyl alcohol	2.983	59	22453	101.253	ug/l	100
12) 1,1-Dichloroethene	2.306	96	22103	20.406	ug/l	96
13) Acrolein	2.239	56	28991	94.938	ug/l	99
14) Allyl chloride	2.660	41	41233	20.063	ug/l	99
15) Acrylonitrile	3.062	53	74487	106.412	ug/l	98
16) Acetone	2.386	43	69788	103.000	ug/l	99
17) Carbon Disulfide	2.502	76	51771	19.352	ug/l	98
18) Methyl Acetate	2.703	43	31190	19.994	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	78284	20.660	ug/l	96
20) Methylene Chloride	2.782	84	26212	20.664	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	22968	20.755	ug/l	92
22) Diisopropyl ether	3.757	45	84046	20.760	ug/l #	81
23) Vinyl Acetate	3.721	43	361881	103.458	ug/l	99
24) 1,1-Dichloroethane	3.605	63	47560	20.772	ug/l	99
25) 2-Butanone	4.556	43	105062	105.931	ug/l	99
26) 2,2-Dichloropropane	4.471	77	28956	19.574	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	27425	20.342	ug/l	98
28) Bromochloromethane	4.897	49	22285	20.141	ug/l	100
29) Tetrahydrofuran	5.007	42	66994	104.187	ug/l	99
30) Chloroform	5.093	83	48639	20.646	ug/l	100
31) Cyclohexane	5.458	56	41450	20.478	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	40407	20.270	ug/l	99
36) 1,1-Dichloropropene	5.684	75	30504	19.808	ug/l	98
37) Ethyl Acetate	4.715	43	39163	20.180	ug/l	98
38) Carbon Tetrachloride	5.672	117	33533	20.148	ug/l	94
39) Methylcyclohexane	7.373	83	38303	20.291	ug/l	97
40) Benzene	6.031	78	97667	20.766	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045527.D
 Acq On : 01 Apr 2025 17:52
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:52:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	21740	21.046	ug/l	97
42) 1,2-Dichloroethane	6.086	62	41733	21.484	ug/l	100
43) Isopropyl Acetate	6.342	43	61222	20.814	ug/l	99
44) Trichloroethene	7.123	130	22918	20.501	ug/l	97
45) 1,2-Dichloropropane	7.428	63	24926	21.241	ug/l	90
46) Dibromomethane	7.580	93	19104	21.207	ug/l	99
47) Bromodichloromethane	7.818	83	37036	20.587	ug/l	99
48) Methyl methacrylate	7.696	41	31247	20.575	ug/l	99
49) 1,4-Dioxane	7.659	88	12104	440.515	ug/l	96
51) 4-Methyl-2-Pentanone	8.574	43	212645	109.055	ug/l	99
52) Toluene	8.714	92	60357	21.208	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	29870	18.764	ug/l	96
54) cis-1,3-Dichloropropene	8.366	75	35099	20.762	ug/l	95
55) 1,1,2-Trichloroethane	9.147	97	24191	21.331	ug/l	96
56) Ethyl methacrylate	9.116	69	36155	20.600	ug/l	99
57) 1,3-Dichloropropane	9.305	76	41900	21.217	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	91923	103.534	ug/l	100
59) 2-Hexanone	9.427	43	156999	108.730	ug/l	99
60) Dibromochloromethane	9.519	129	25992	21.023	ug/l	98
61) 1,2-Dibromoethane	9.604	107	24456	21.303	ug/l	99
64) Tetrachloroethene	9.269	164	21379	21.015	ug/l	98
65) Chlorobenzene	10.079	112	64727	21.023	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	21447	20.064	ug/l	98
67) Ethyl Benzene	10.189	91	115368	20.921	ug/l	99
68) m/p-Xylenes	10.299	106	84420	42.092	ug/l	99
69) o-Xylene	10.640	106	41803	21.158	ug/l	100
70) Styrene	10.653	104	69290	21.249	ug/l	99
71) Bromoform	10.799	173	15659	19.619	ug/l #	99
73) Isopropylbenzene	10.957	105	110396	21.093	ug/l	100
74) N-amyl acetate	10.842	43	51238	20.466	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	38177	20.764	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	32690m	20.510	ug/l	
77) Bromobenzene	11.195	156	24902	20.592	ug/l	100
78) n-propylbenzene	11.299	91	130994	21.729	ug/l	98
79) 2-Chlorotoluene	11.360	91	81817	21.229	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	93328	21.564	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	8435	17.961	ug/l	88
82) 4-Chlorotoluene	11.451	91	90704	21.108	ug/l	99
83) tert-Butylbenzene	11.713	119	89828	20.964	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	92242	21.235	ug/l	100
85) sec-Butylbenzene	11.890	105	112800	21.433	ug/l	100
86) p-Isopropyltoluene	12.006	119	91866	21.173	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	45105	20.490	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	46208	20.706	ug/l	99
89) n-Butylbenzene	12.329	91	77739	20.662	ug/l	100
90) Hexachloroethane	12.536	117	14544	19.505	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	45732	20.896	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	8153	21.203	ug/l	100
93) 1,2,4-Trichlorobenzene	13.585	180	24787	20.347	ug/l	98
94) Hexachlorobutadiene	13.725	225	10488	19.979	ug/l	97
95) Naphthalene	13.774	128	94875	20.928	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	26113	20.471	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045527.D
Acq On : 01 Apr 2025 17:52
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:52:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045528.D
 Acq On : 01 Apr 2025 18:15
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:53:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.550	168	95658	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	168287	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	150201	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	68786	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	83054	47.477	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.960%		
35) Dibromofluoromethane	5.379	113	58108	48.667	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.340%		
50) Toluene-d8	8.647	98	204338	49.031	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.060%		
62) 4-Bromofluorobenzene	11.079	95	76190	50.190	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	100.380%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.166	85	78444	54.834	ug/l	100
3) Chloromethane	1.307	50	75032	51.054	ug/l	100
4) Vinyl Chloride	1.374	62	68516	50.942	ug/l	100
5) Bromomethane	1.593	94	31584	49.526	ug/l	100
6) Chloroethane	1.666	64	38112	53.409	ug/l	100
7) Trichlorofluoromethane	1.874	101	103888	51.798	ug/l	100
8) Diethyl Ether	2.136	74	33953	50.424	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.325	101	59431	50.569	ug/l	100
10) Methyl Iodide	2.447	142	76404	52.121	ug/l	100
11) Tert butyl alcohol	2.977	59	60610	257.809	ug/l	100
12) 1,1-Dichloroethene	2.313	96	57738	50.278	ug/l	100
13) Acrolein	2.239	56	79989	247.074	ug/l	100
14) Allyl chloride	2.660	41	112085	51.441	ug/l	100
15) Acrylonitrile	3.062	53	194445	262.015	ug/l	100
16) Acetone	2.386	43	180563	251.366	ug/l	100
17) Carbon Disulfide	2.508	76	148601	52.393	ug/l	100
18) Methyl Acetate	2.703	43	82000	49.581	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	202582	50.429	ug/l	100
20) Methylene Chloride	2.782	84	67855	50.457	ug/l	100
21) trans-1,2-Dichloroethene	3.087	96	59696	50.882	ug/l	100
22) Diisopropyl ether	3.764	45	219374	51.111	ug/l	100
23) Vinyl Acetate	3.721	43	998064	269.139	ug/l	100
24) 1,1-Dichloroethane	3.605	63	121348	49.992	ug/l	100
25) 2-Butanone	4.556	43	280076	266.363	ug/l	100
26) 2,2-Dichloropropane	4.471	77	81054	51.683	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	71871	50.282	ug/l	100
28) Bromochloromethane	4.897	49	57046	48.632	ug/l	100
29) Tetrahydrofuran	5.001	42	177402	260.230	ug/l	100
30) Chloroform	5.086	83	125797	50.366	ug/l	100
31) Cyclohexane	5.464	56	107407	50.052	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	106062	50.184	ug/l	100
36) 1,1-Dichloropropene	5.684	75	81607	50.620	ug/l	100
37) Ethyl Acetate	4.715	43	104896	51.632	ug/l	100
38) Carbon Tetrachloride	5.672	117	90247	51.797	ug/l	100
39) Methylcyclohexane	7.373	83	104678	52.970	ug/l	100
40) Benzene	6.031	78	249161	50.605	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045528.D
 Acq On : 01 Apr 2025 18:15
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:53:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	59068	54.623	ug/l	100
42) 1,2-Dichloroethane	6.080	62	104601	51.437	ug/l	100
43) Isopropyl Acetate	6.336	43	164588	53.452	ug/l	100
44) Trichloroethene	7.123	130	59042	50.452	ug/l	100
45) 1,2-Dichloropropane	7.427	63	63316	51.540	ug/l	100
46) Dibromomethane	7.574	93	49125	52.092	ug/l	100
47) Bromodichloromethane	7.818	83	96176	51.068	ug/l	100
48) Methyl methacrylate	7.690	41	85483	53.768	ug/l	100
49) 1,4-Dioxane	7.659	88	31199	1084.635	ug/l	100
51) 4-Methyl-2-Pentanone	8.574	43	558029	273.375	ug/l	100
52) Toluene	8.714	92	153143	51.402	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	85462	47.317	ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	95524	53.975	ug/l	100
55) 1,1,2-Trichloroethane	9.147	97	60452	50.919	ug/l	100
56) Ethyl methacrylate	9.116	69	100998	54.970	ug/l	100
57) 1,3-Dichloropropane	9.305	76	106580	51.554	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	250428	269.434	ug/l	100
59) 2-Hexanone	9.427	43	413824	273.765	ug/l	100
60) Dibromochloromethane	9.519	129	69258	53.511	ug/l	100
61) 1,2-Dibromoethane	9.604	107	62812	52.264	ug/l	100
64) Tetrachloroethene	9.269	164	52155	49.181	ug/l	100
65) Chlorobenzene	10.073	112	162829	50.733	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	55974	50.233	ug/l	100
67) Ethyl Benzene	10.189	91	301481	52.447	ug/l	100
68) m/p-Xylenes	10.299	106	218702	104.606	ug/l	100
69) o-Xylene	10.640	106	108028	52.452	ug/l	100
70) Styrene	10.653	104	182620	53.723	ug/l	100
71) Bromoform	10.799	173	44397	53.361	ug/l #	100
73) Isopropylbenzene	10.957	105	287628	52.203	ug/l	100
74) N-amyl acetate	10.842	43	141589	53.721	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.207	83	95200	49.185	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	84279m	50.230	ug/l	
77) Bromobenzene	11.195	156	64527	50.686	ug/l	100
78) n-propylbenzene	11.299	91	336796	53.069	ug/l	100
79) 2-Chlorotoluene	11.360	91	203994	50.279	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	241536	53.013	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	25488	51.556	ug/l	100
82) 4-Chlorotoluene	11.451	91	237213	52.439	ug/l	100
83) tert-Butylbenzene	11.713	119	235715	52.256	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	242301	52.986	ug/l	100
85) sec-Butylbenzene	11.890	105	295799	53.391	ug/l	100
86) p-Isopropyltoluene	12.006	119	242416	53.073	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	116890	50.441	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	117164	49.871	ug/l	100
89) n-Butylbenzene	12.329	91	217345	54.874	ug/l	100
90) Hexachloroethane	12.536	117	41095	52.352	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	115426	50.099	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	21712	53.638	ug/l	100
93) 1,2,4-Trichlorobenzene	13.585	180	65145	50.797	ug/l	100
94) Hexachlorobutadiene	13.719	225	27795	50.296	ug/l	100
95) Naphthalene	13.774	128	256009	53.643	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	68781	51.219	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045528.D
Acq On : 01 Apr 2025 18:15
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:53:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

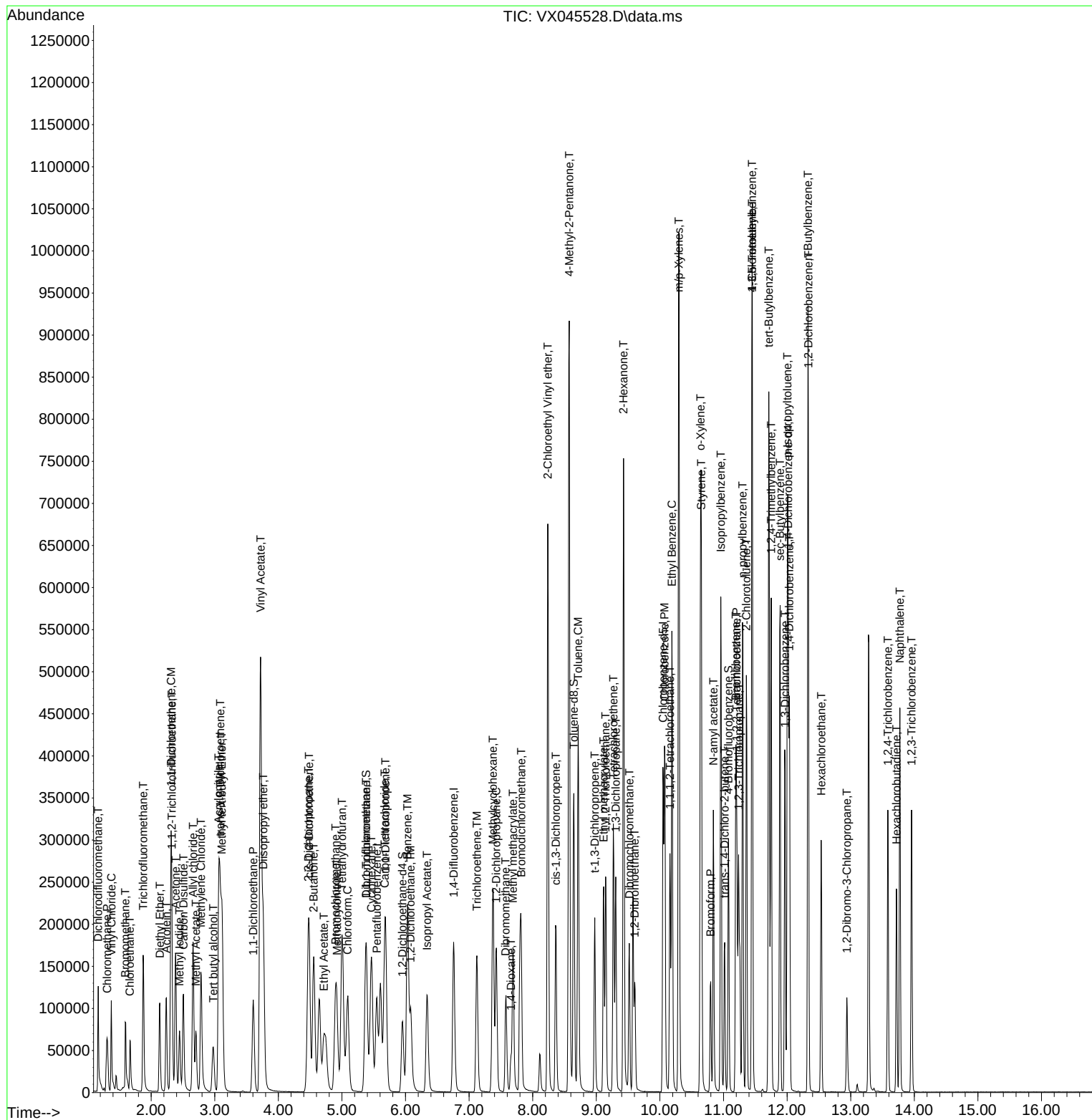
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045528.D
Acq On : 01 Apr 2025 18:15
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:53:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045529.D
 Acq On : 01 Apr 2025 18:38
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:54:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.544	168	86107	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	152724	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	136369	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	64612	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	155757	98.914	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 197.820%#			
35) Dibromofluoromethane	5.379	113	107908	99.585	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 199.160%#			
50) Toluene-d8	8.647	98	375599	99.309	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 198.620%#			
62) 4-Bromofluorobenzene	11.079	95	146944	106.664	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 213.320%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	144108	111.909	ug/l	99
3) Chloromethane	1.307	50	140360	106.098	ug/l	100
4) Vinyl Chloride	1.374	62	127174	105.042	ug/l	99
5) Bromomethane	1.593	94	58706	102.266	ug/l	98
6) Chloroethane	1.660	64	61099	95.120	ug/l	98
7) Trichlorofluoromethane	1.867	101	187555	103.887	ug/l	98
8) Diethyl Ether	2.136	74	61683	101.767	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	106989	101.133	ug/l	97
10) Methyl Iodide	2.441	142	135732	102.863	ug/l	100
11) Tert butyl alcohol	2.989	59	110044	519.999	ug/l	99
12) 1,1-Dichloroethene	2.306	96	106404	102.934	ug/l	99
13) Acrolein	2.233	56	146268	501.914	ug/l	99
14) Allyl chloride	2.654	41	206484	105.276	ug/l	99
15) Acrylonitrile	3.062	53	338970	507.426	ug/l	99
16) Acetone	2.386	43	314285	486.054	ug/l	100
17) Carbon Disulfide	2.502	76	276285	108.215	ug/l	100
18) Methyl Acetate	2.703	43	147272	98.925	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	381719	105.561	ug/l	99
20) Methylene Chloride	2.782	84	121435	100.316	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	106896	101.220	ug/l	98
22) Diisopropyl ether	3.757	45	406185	105.132	ug/l	95
23) Vinyl Acetate	3.721	43	1848817	553.853	ug/l	99
24) 1,1-Dichloroethane	3.605	63	220934	101.114	ug/l	100
25) 2-Butanone	4.556	43	491249	519.018	ug/l	100
26) 2,2-Dichloropropane	4.465	77	155592	110.215	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	129785	100.871	ug/l	98
28) Bromochloromethane	4.891	49	105093	99.530	ug/l	100
29) Tetrahydrofuran	5.001	42	313121	510.264	ug/l	99
30) Chloroform	5.086	83	225402	100.255	ug/l	99
31) Cyclohexane	5.458	56	197136	102.056	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	198511	104.346	ug/l	99
36) 1,1-Dichloropropene	5.684	75	151448	103.515	ug/l	99
37) Ethyl Acetate	4.715	43	192130	104.207	ug/l	99
38) Carbon Tetrachloride	5.672	117	166465	105.278	ug/l	99
39) Methylcyclohexane	7.373	83	191752	106.921	ug/l	99
40) Benzene	6.031	78	452946	101.369	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045529.D
 Acq On : 01 Apr 2025 18:38
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:54:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	107037	109.068	ug/l	99
42) 1,2-Dichloroethane	6.080	62	189528	102.696	ug/l	100
43) Isopropyl Acetate	6.336	43	305974	109.494	ug/l	100
44) Trichloroethene	7.123	130	107332	101.062	ug/l	97
45) 1,2-Dichloropropane	7.421	63	115731	103.806	ug/l	98
46) Dibromomethane	7.574	93	87381	102.101	ug/l	97
47) Bromodichloromethane	7.818	83	179265	104.886	ug/l	98
48) Methyl methacrylate	7.690	41	158241	109.675	ug/l	99
49) 1,4-Dioxane	7.665	88	52624	2015.906	ug/l	97
51) 4-Methyl-2-Pentanone	8.574	43	988881	533.814	ug/l	99
52) Toluene	8.714	92	276323	102.199	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	169413	100.645	ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	182328	113.521	ug/l	99
55) 1,1,2-Trichloroethane	9.147	97	109208	101.361	ug/l	98
56) Ethyl methacrylate	9.116	69	192034	115.168	ug/l	99
57) 1,3-Dichloropropane	9.305	76	192473	102.588	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	460297	545.696	ug/l	100
59) 2-Hexanone	9.427	43	738772	538.538	ug/l	99
60) Dibromochloromethane	9.519	129	128700	109.570	ug/l	98
61) 1,2-Dibromoethane	9.604	107	115919	106.282	ug/l	99
64) Tetrachloroethene	9.269	164	90817	94.325	ug/l	99
65) Chlorobenzene	10.073	112	296300	101.682	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	103437	102.243	ug/l	99
67) Ethyl Benzene	10.189	91	543568	104.152	ug/l	99
68) m/p-Xylenes	10.299	106	394241	207.694	ug/l	100
69) o-Xylene	10.640	106	195381	104.487	ug/l	99
70) Styrene	10.653	104	335333	108.654	ug/l	100
71) Bromoform	10.799	173	83632	110.714	ug/l #	97
73) Isopropylbenzene	10.957	105	522436	100.944	ug/l	100
74) N-amyl acetate	10.842	43	275462	111.267	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	174977	96.243	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	154048m	97.744	ug/l	
77) Bromobenzene	11.195	156	119561	99.983	ug/l	99
78) n-propylbenzene	11.299	91	622679	104.454	ug/l	100
79) 2-Chlorotoluene	11.360	91	376682	98.840	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	435137	101.675	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	51873	111.704	ug/l	95
82) 4-Chlorotoluene	11.451	91	432884	101.877	ug/l	99
83) tert-Butylbenzene	11.713	119	437649	103.292	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	444211	103.414	ug/l	99
85) sec-Butylbenzene	11.890	105	546857	105.082	ug/l	100
86) p-Isopropyltoluene	12.006	119	453109	105.609	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	221481	101.749	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	216367	98.047	ug/l	98
89) n-Butylbenzene	12.329	91	420694	113.075	ug/l	99
90) Hexachloroethane	12.536	117	80489	109.160	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	215157	99.419	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	43047	113.214	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	135046	112.106	ug/l	99
94) Hexachlorobutadiene	13.725	225	53636	103.326	ug/l	98
95) Naphthalene	13.774	128	499719	111.473	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	137328	108.869	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045529.D
Acq On : 01 Apr 2025 18:38
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:54:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

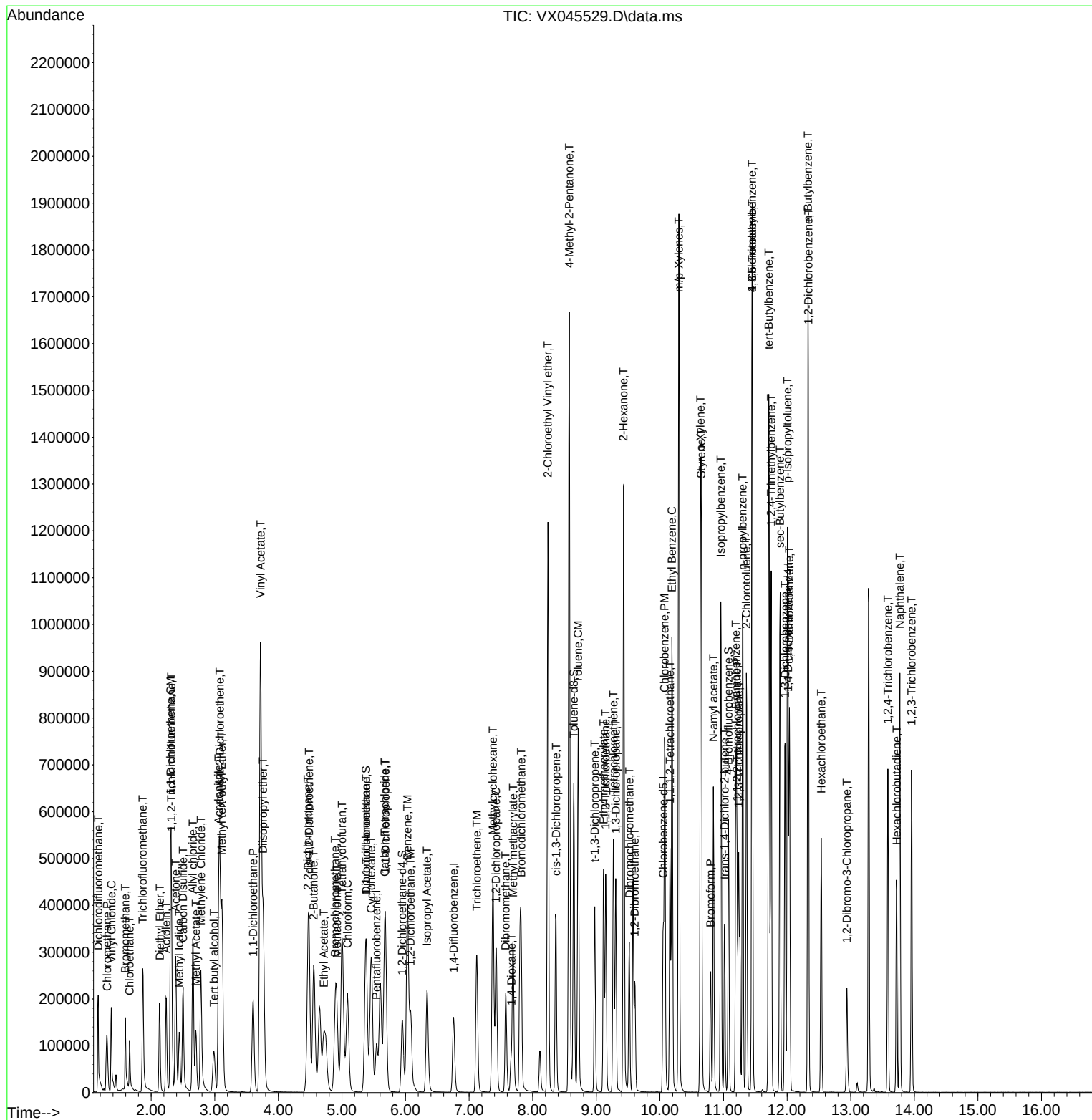
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\  
Data File : VX045529.D  
Acq On    : 01 Apr 2025  18:38  
Operator  : JC/MD  
Sample    : VSTDICC100  
Misc      : 5.0mL/MSVOA_X/WATER  
ALS Vial  : 7   Sample Multiplier: 1
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Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:54:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045530.D
 Acq On : 01 Apr 2025 19:02
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Quant Time: Apr 02 02:54:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.544	168	90033	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	160037	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	133342	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	61380	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	252998	153.661	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 307.320%#			
35) Dibromofluoromethane	5.379	113	173598	152.887	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 305.780%#			
50) Toluene-d8	8.647	98	603264	152.216	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 304.440%#			
62) 4-Bromofluorobenzene	11.079	95	220921	153.035	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 306.060%#			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.167	85	221436	164.460	ug/l	100
3) Chloromethane	1.307	50	198321	143.373	ug/l	98
4) Vinyl Chloride	1.374	62	197096	155.697	ug/l	100
5) Bromomethane	1.593	94	88225	146.986	ug/l	97
6) Chloroethane	1.660	64	86251	128.421	ug/l	97
7) Trichlorofluoromethane	1.868	101	267098	141.495	ug/l	100
8) Diethyl Ether	2.136	74	96467	152.215	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	171118	154.698	ug/l	97
10) Methyl Iodide	2.441	142	202594	146.838	ug/l	99
11) Tert butyl alcohol	2.989	59	167769	758.202	ug/l	100
12) 1,1-Dichloroethene	2.307	96	166365	153.921	ug/l	97
13) Acrolein	2.239	56	232818	764.070	ug/l	100
14) Allyl chloride	2.654	41	313268	152.755	ug/l	99
15) Acrylonitrile	3.069	53	507965	727.247	ug/l	100
16) Acetone	2.386	43	479564	709.323	ug/l	99
17) Carbon Disulfide	2.502	76	443495	166.133	ug/l	99
18) Methyl Acetate	2.703	43	228558	146.832	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	598532	158.301	ug/l	99
20) Methylene Chloride	2.782	84	186382	147.254	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	170283	154.210	ug/l	98
22) Diisopropyl ether	3.764	45	636728	157.617	ug/l	94
23) Vinyl Acetate	3.721	43	2911326	834.120	ug/l	100
24) 1,1-Dichloroethane	3.605	63	349040	152.778	ug/l	99
25) 2-Butanone	4.556	43	740096	747.834	ug/l	99
26) 2,2-Dichloropropane	4.465	77	252063	170.765	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	205254	152.571	ug/l	98
28) Bromochloromethane	4.891	49	155600	140.938	ug/l	97
29) Tetrahydrofuran	5.001	42	475589	741.226	ug/l	100
30) Chloroform	5.087	83	353681	150.451	ug/l	98
31) Cyclohexane	5.458	56	310219	153.595	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	315136	158.426	ug/l	98
36) 1,1-Dichloropropene	5.684	75	239776	156.399	ug/l	98
37) Ethyl Acetate	4.715	43	294559	152.461	ug/l	99
38) Carbon Tetrachloride	5.672	117	266770	161.005	ug/l	99
39) Methylcyclohexane	7.373	83	303251	161.366	ug/l	96
40) Benzene	6.031	78	703311	150.208	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045530.D
 Acq On : 01 Apr 2025 19:02
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:54:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	164699	160.155	ug/l	98
42) 1,2-Dichloroethane	6.080	62	296168	153.146	ug/l	100
43) Isopropyl Acetate	6.336	43	475823	162.494	ug/l	99
44) Trichloroethene	7.117	130	170940	153.599	ug/l	95
45) 1,2-Dichloropropane	7.428	63	179457	153.610	ug/l	98
46) Dibromomethane	7.574	93	135415	150.996	ug/l	98
47) Bromodichloromethane	7.818	83	279881	156.272	ug/l	98
48) Methyl methacrylate	7.690	41	240818	159.281	ug/l	99
49) 1,4-Dioxane	7.659	88	74929	2739.196	ug/l	99
51) 4-Methyl-2-Pentanone	8.574	43	1414771	728.817	ug/l	99
52) Toluene	8.714	92	420015	148.245	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	267671	150.589	ug/l	98
54) cis-1,3-Dichloropropene	8.360	75	287973	171.104	ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	163426	144.752	ug/l	98
56) Ethyl methacrylate	9.116	69	285895	163.624	ug/l	98
57) 1,3-Dichloropropane	9.305	76	288430	146.708	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	703881	796.340	ug/l	99
59) 2-Hexanone	9.433	43	1053971	733.198	ug/l	100
60) Dibromochloromethane	9.519	129	194342	157.895	ug/l	98
61) 1,2-Dibromoethane	9.610	107	174571	152.745	ug/l	99
64) Tetrachloroethene	9.269	164	138926	147.568	ug/l	98
65) Chlorobenzene	10.080	112	444631	156.049	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	156069	157.769	ug/l	99
67) Ethyl Benzene	10.189	91	821130	160.907	ug/l	99
68) m/p-Xylenes	10.299	106	583228	314.231	ug/l	99
69) o-Xylene	10.640	106	285670	156.241	ug/l	100
70) Styrene	10.653	104	480722	159.299	ug/l	99
71) Bromoform	10.799	173	126115	170.743	ug/l #	98
73) Isopropylbenzene	10.957	105	764406	155.475	ug/l	100
74) N-amyl acetate	10.842	43	408934	173.877	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	249980	144.737	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	215694m	144.064	ug/l	
77) Bromobenzene	11.195	156	171573	151.033	ug/l	99
78) n-propylbenzene	11.305	91	897084	158.408	ug/l	100
79) 2-Chlorotoluene	11.360	91	537263	148.399	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	620819	152.700	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	78805	178.636	ug/l	93
82) 4-Chlorotoluene	11.451	91	615594	152.505	ug/l	99
83) tert-Butylbenzene	11.713	119	627039	155.783	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	629704	154.317	ug/l	100
85) sec-Butylbenzene	11.890	105	790355	159.869	ug/l	100
86) p-Isopropyltoluene	12.006	119	641521	157.397	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	314077	151.885	ug/l	100
88) 1,4-Dichlorobenzene	12.037	146	314197	149.876	ug/l	99
89) n-Butylbenzene	12.329	91	604445	171.019	ug/l	100
90) Hexachloroethane	12.536	117	121761	173.829	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	307031	149.342	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	64317	178.062	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	199365	174.213	ug/l	99
94) Hexachlorobutadiene	13.725	225	77792	157.752	ug/l	99
95) Naphthalene	13.774	128	733300	172.191	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	201989	168.562	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045530.D
Acq On : 01 Apr 2025 19:02
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:54:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

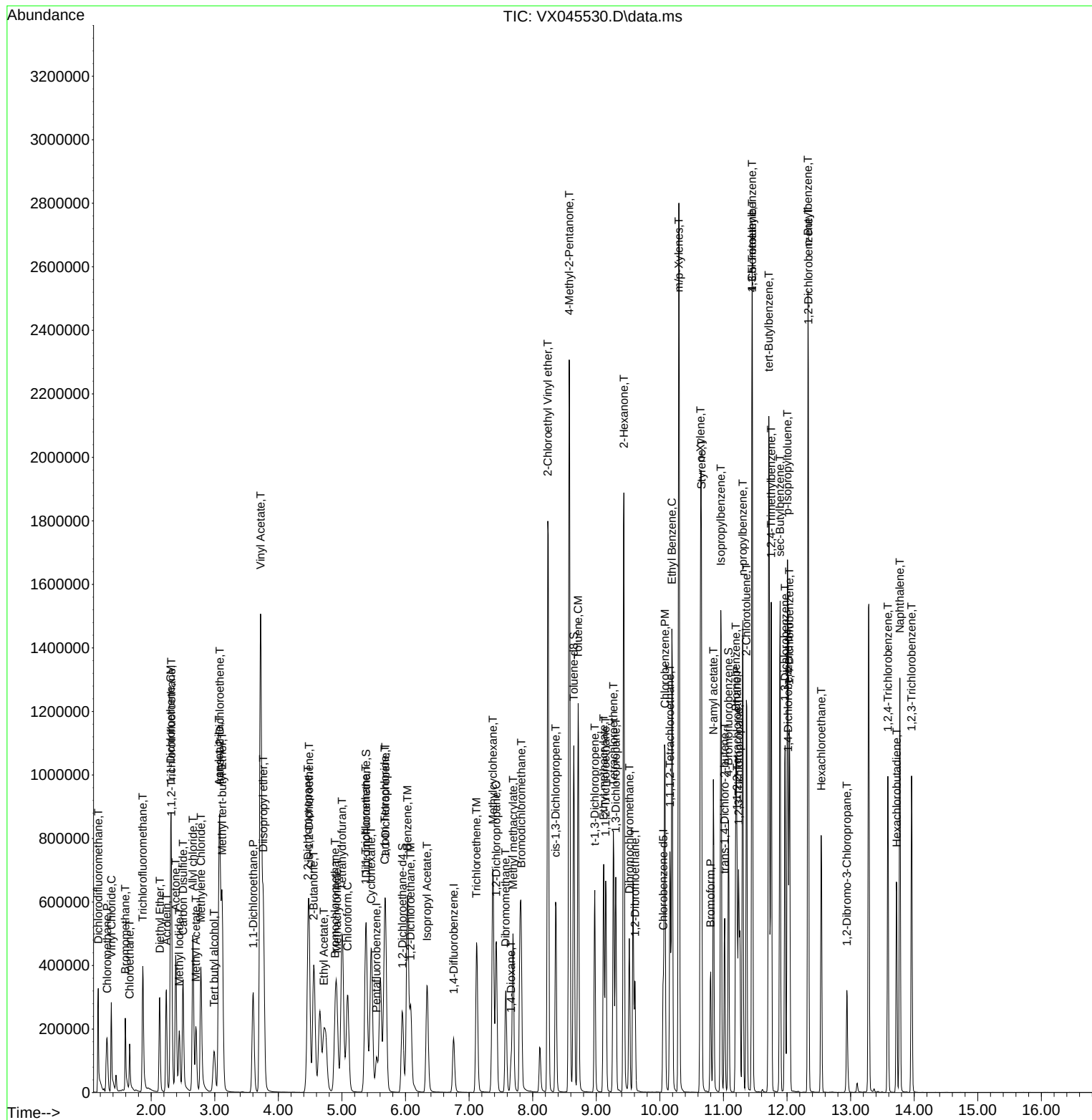
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045530.D
 Acq On : 01 Apr 2025 19:02
 Operator : JC/MD
 Sample : VSTDIC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC150

Quant Time: Apr 02 02:54:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045532.D
 Acq On : 01 Apr 2025 19:48
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX040225

Quant Time: Apr 02 03:14:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.544	168	96972	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	174855	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	152417	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	67633	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	89251	50.329	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.660%			
35) Dibromofluoromethane	5.379	113	61107	49.256	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.520%			
50) Toluene-d8	8.647	98	217200	50.160	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.320%			
62) 4-Bromofluorobenzene	11.079	95	80376	50.959	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.920%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	76070	52.454	ug/l	97
3) Chloromethane	1.301	50	72033	48.349	ug/l	99
4) Vinyl Chloride	1.374	62	66559	48.816	ug/l	99
5) Bromomethane	1.593	94	30379	46.991	ug/l	99
6) Chloroethane	1.672	64	37317	51.586	ug/l	100
7) Trichlorofluoromethane	1.880	101	102379	50.354	ug/l	96
8) Diethyl Ether	2.130	74	33603	49.228	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.325	101	59007	49.528	ug/l	98
10) Methyl Iodide	2.447	142	72261	48.626	ug/l	99
11) Tert butyl alcohol	2.971	59	58774	246.612	ug/l	99
12) 1,1-Dichloroethene	2.313	96	57888	49.726	ug/l	99
13) Acrolein	2.233	56	78156	238.141	ug/l	99
14) Allyl chloride	2.660	41	111636	50.541	ug/l	99
15) Acrylonitrile	3.062	53	186837	248.351	ug/l	100
16) Acetone	2.380	43	176153	241.904	ug/l	99
17) Carbon Disulfide	2.508	76	149677	52.057	ug/l	100
18) Methyl Acetate	2.703	43	81720	48.742	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	207487	50.950	ug/l	100
20) Methylene Chloride	2.782	84	66875	49.055	ug/l	99
21) trans-1,2-Dichloroethene	3.087	96	59229	49.800	ug/l	98
22) Diisopropyl ether	3.757	45	221449	50.895	ug/l	92
23) Vinyl Acetate	3.715	43	1005423	267.449	ug/l	99
24) 1,1-Dichloroethane	3.605	63	122240	49.677	ug/l	99
25) 2-Butanone	4.550	43	271686	254.882	ug/l	97
26) 2,2-Dichloropropane	4.471	77	82704	52.020	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	71072	49.049	ug/l	98
28) Bromochloromethane	4.891	49	57557	48.403	ug/l	99
29) Tetrahydrofuran	5.001	42	172405	249.473	ug/l	100
30) Chloroform	5.086	83	125621	49.614	ug/l	98
31) Cyclohexane	5.458	56	107862	49.583	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	107830	50.330	ug/l	99
36) 1,1-Dichloropropene	5.684	75	83901	50.088	ug/l	99
37) Ethyl Acetate	4.708	43	105095	49.787	ug/l	98
38) Carbon Tetrachloride	5.672	117	91723	50.667	ug/l	100
39) Methylcyclohexane	7.373	83	102919	50.124	ug/l	99
40) Benzene	6.031	78	251758	49.212	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045532.D
 Acq On : 01 Apr 2025 19:48
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX040225

Quant Time: Apr 02 03:14:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	59140	53.098	ug/l	99
42) 1,2-Dichloroethane	6.080	62	103270	48.875	ug/l	100
43) Isopropyl Acetate	6.336	43	164894	51.539	ug/l	100
44) Trichloroethene	7.123	130	57931	47.643	ug/l	92
45) 1,2-Dichloropropane	7.421	63	63210	49.521	ug/l	95
46) Dibromomethane	7.574	93	47564	48.542	ug/l	97
47) Bromodichloromethane	7.818	83	96418	49.273	ug/l	96
48) Methyl methacrylate	7.690	41	85084	51.507	ug/l	99
49) 1,4-Dioxane	7.659	88	28552	955.327	ug/l	99
51) 4-Methyl-2-Pentanone	8.568	43	540822	254.994	ug/l	100
52) Toluene	8.714	92	151664	48.994	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	87744	46.783	ug/l	98
54) cis-1,3-Dichloropropene	8.360	75	99074	53.878	ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	60452	49.007	ug/l	97
56) Ethyl methacrylate	9.116	69	102525	53.705	ug/l	100
57) 1,3-Dichloropropane	9.305	76	107121	49.869	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	251285	260.201	ug/l	99
59) 2-Hexanone	9.427	43	395336	251.710	ug/l	100
60) Dibromochloromethane	9.519	129	68562	50.983	ug/l	99
61) 1,2-Dibromoethane	9.604	107	63301	50.693	ug/l	100
64) Tetrachloroethene	9.269	164	50834	47.239	ug/l	99
65) Chlorobenzene	10.073	112	163518	50.207	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	57096	50.495	ug/l	99
67) Ethyl Benzene	10.189	91	300747	51.558	ug/l	100
68) m/p-Xylenes	10.299	106	217943	102.728	ug/l	99
69) o-Xylene	10.640	106	107947	51.650	ug/l	100
70) Styrene	10.653	104	181524	52.624	ug/l	100
71) Bromoform	10.799	173	44489	52.694	ug/l #	98
73) Isopropylbenzene	10.957	105	286010	52.794	ug/l	100
74) N-amyl acetate	10.842	43	140941	54.387	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	92505	48.608	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	82060m	49.741	ug/l	
77) Bromobenzene	11.195	156	63244	50.525	ug/l	98
78) n-propylbenzene	11.299	91	336753	53.967	ug/l	100
79) 2-Chlorotoluene	11.360	91	203677	51.057	ug/l	99
80) 1,3,5-Trimethylbenzene	11.445	105	239822	53.534	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	25511	52.482	ug/l	98
82) 4-Chlorotoluene	11.451	91	233159	52.422	ug/l	100
83) tert-Butylbenzene	11.713	119	236276	53.274	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	238257	52.990	ug/l	100
85) sec-Butylbenzene	11.890	105	293633	53.903	ug/l	100
86) p-Isopropyltoluene	12.006	119	244031	54.337	ug/l	99
87) 1,3-Dichlorobenzene	11.963	146	115113	50.521	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	113458	49.117	ug/l	97
89) n-Butylbenzene	12.329	91	214931	55.189	ug/l	99
90) Hexachloroethane	12.536	117	41729	54.066	ug/l	98
91) 1,2-Dichlorobenzene	12.329	146	113126	49.938	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	21184	53.226	ug/l	100
93) 1,2,4-Trichlorobenzene	13.585	180	65488	51.935	ug/l	98
94) Hexachlorobutadiene	13.725	225	27147	49.961	ug/l	99
95) Naphthalene	13.774	128	247600	52.765	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	66542	50.396	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045532.D
Acq On : 01 Apr 2025 19:48
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 03:14:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

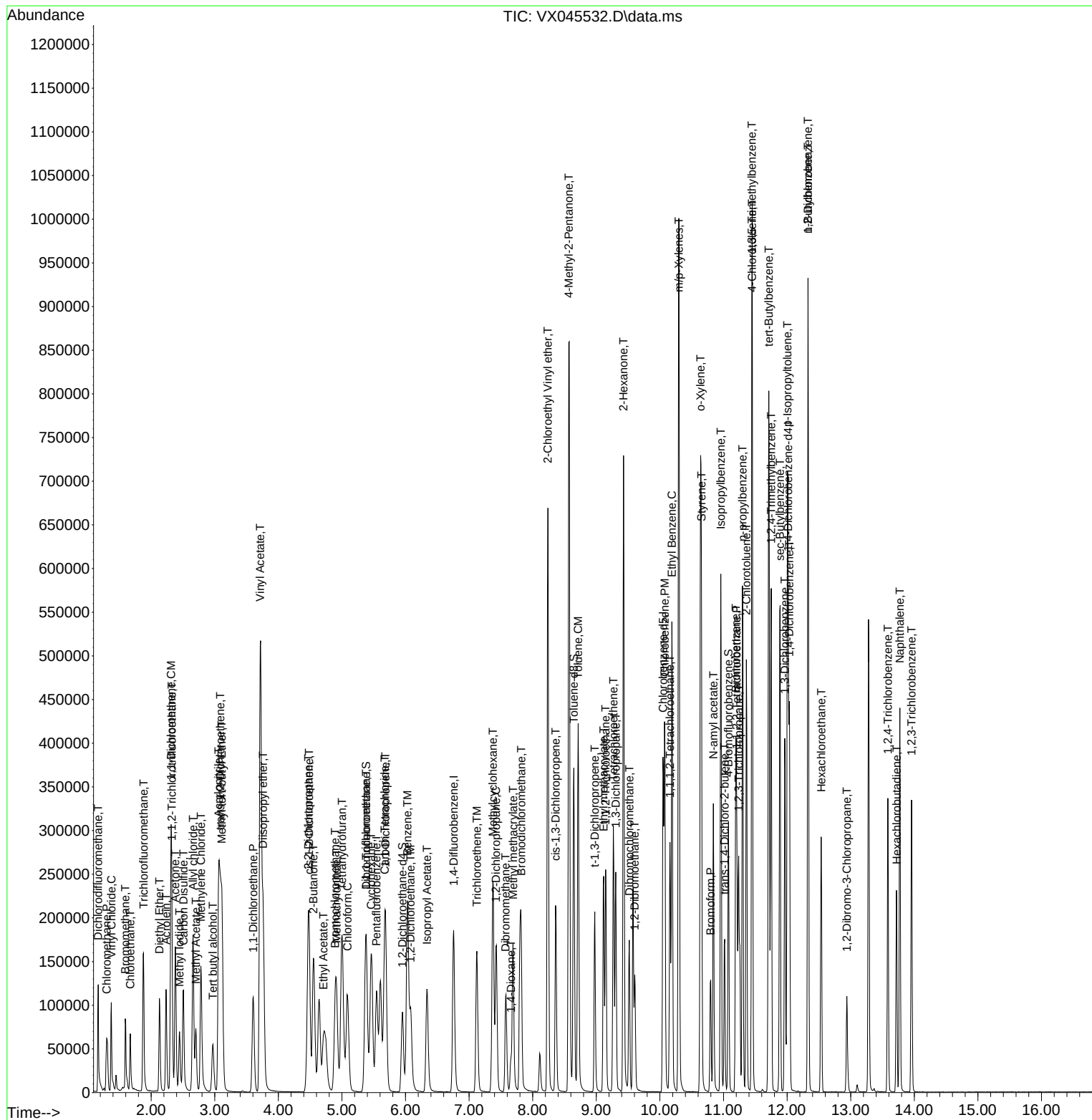
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045532.D
 Acq On : 01 Apr 2025 19:48
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICSVVX040225

Quant Time: Apr 02 03:14:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	101	0.00
2 T	Dichlorodifluoromethane	0.748	0.784	-4.8	97	0.00
3 P	Chloromethane	0.768	0.743	3.3	96	0.00
4 C	Vinyl Chloride	0.703	0.686	2.4#	97	0.00
5 T	Bromomethane	0.333	0.313	6.0	96	0.00
6 T	Chloroethane	0.373	0.385	-3.2	98	0.00
7 T	Trichlorofluoromethane	1.048	1.056	-0.8	99	0.00
8 T	Diethyl Ether	0.352	0.347	1.4	99	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.614	0.608	1.0	99	0.00
10 T	Methyl Iodide	0.766	0.745	2.7	95	0.00
11 T	Tert butyl alcohol	0.123	0.121	1.6	97	0.00
12 CM	1,1-Dichloroethene	0.600	0.597	0.5#	100	0.00
13 T	Acrolein	0.169	0.161	4.7	98	0.00
14 T	Allyl chloride	1.139	1.151	-1.1	100	0.00
15 T	Acrylonitrile	0.388	0.385	0.8	96	0.00
16 T	Acetone	0.375	0.363	3.2	98	0.00
17 T	Carbon Disulfide	1.483	1.544	-4.1	101	0.00
18 T	Methyl Acetate	0.864	0.843	2.4	100	0.00
19 T	Methyl tert-butyl Ether	2.100	2.140	-1.9	102	0.00
20 T	Methylene Chloride	0.703	0.690	1.8	99	0.00
21 T	trans-1,2-Dichloroethene	0.613	0.611	0.3	99	0.00
22 T	Diisopropyl ether	2.243	2.284	-1.8	101	0.00
23 T	Vinyl Acetate	1.938	2.074	-7.0	101	0.00
24 P	1,1-Dichloroethane	1.269	1.261	0.6	101	0.00
25 T	2-Butanone	0.550	0.560	-1.8	97	0.00
26 T	2,2-Dichloropropane	0.820	0.853	-4.0	102	0.00
27 T	cis-1,2-Dichloroethene	0.747	0.733	1.9	99	0.00
28 T	Bromochloromethane	0.613	0.594	3.1	101	0.00
29 T	Tetrahydrofuran	0.356	0.356	0.0	97	0.00
30 C	Chloroform	1.306	1.295	0.8#	100	0.00
31 T	Cyclohexane	1.122	1.112	0.9	100	0.00
32 T	1,1,1-Trichloroethane	1.105	1.112	-0.6	102	0.00
33 S	1,2-Dichloroethane-d4	0.914	0.920	-0.7	107	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	104	0.00
35 S	Dibromofluoromethane	0.355	0.349	1.7	105	0.00
36 T	1,1-Dichloropropene	0.479	0.480	-0.2	103	0.00
37 T	Ethyl Acetate	0.604	0.601	0.5	100	0.00
38 T	Carbon Tetrachloride	0.518	0.525	-1.4	102	0.00
39 T	Methylcyclohexane	0.587	0.589	-0.3	98	0.00
40 TM	Benzene	1.463	1.440	1.6	101	0.00
41 T	Methacrylonitrile	0.318	0.338	-6.3	100	0.00
42 TM	1,2-Dichloroethane	0.604	0.591	2.2	99	0.00
43 T	Isopropyl Acetate	0.915	0.943	-3.1	100	0.00
44 TM	Trichloroethene	0.348	0.331	4.9	98	0.00
45 C	1,2-Dichloropropane	0.365	0.361	1.1#	100	0.00
46 T	Dibromomethane	0.280	0.272	2.9	97	0.00
47 T	Bromodichloromethane	0.560	0.551	1.6	100	0.00
48 T	Methyl methacrylate	0.472	0.487	-3.2	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045532.D
 Acq On : 01 Apr 2025 19:48
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICSVVX040225

Quant Time: Apr 02 03:14:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.009	0.008	11.1	92	0.00
50 S	Toluene-d8	1.238	1.242	-0.3	106	0.00
51 T	4-Methyl-2-Pentanone	0.606	0.619	-2.1	97	0.00
52 CM	Toluene	0.885	0.867	2.0#	99	0.00
53 T	t-1,3-Dichloropropene	0.467	0.502	-7.5	103	0.00
54 T	cis-1,3-Dichloropropene	0.526	0.567	-7.8	104	0.00
55 T	1,1,2-Trichloroethane	0.353	0.346	2.0	100	0.00
56 T	Ethyl methacrylate	0.546	0.586	-7.3	102	0.00
57 T	1,3-Dichloropropane	0.614	0.613	0.2	101	0.00
58 T	2-Chloroethyl Vinyl ether	0.276	0.287	-4.0	100	0.00
59 T	2-Hexanone	0.449	0.452	-0.7	96	0.00
60 T	Dibromochloromethane	0.385	0.392	-1.8	99	0.00
61 T	1,2-Dibromoethane	0.357	0.362	-1.4	101	0.00
62 S	4-Bromofluorobenzene	0.451	0.460	-2.0	105	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
64 T	Tetrachloroethene	0.353	0.334	5.4	97	0.00
65 PM	Chlorobenzene	1.068	1.073	-0.5	100	0.00
66 T	1,1,1,2-Tetrachloroethane	0.371	0.375	-1.1	102	0.00
67 C	Ethyl Benzene	1.914	1.973	-3.1#	100	0.00
68 T	m/p-Xylenes	0.696	0.715	-2.7	100	0.00
69 T	o-Xylene	0.686	0.708	-3.2	100	0.00
70 T	Styrene	1.132	1.191	-5.2	99	0.00
71 P	Bromoform	0.277	0.292	-5.4	100	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
73 T	Isopropylbenzene	4.005	4.229	-5.6	99	0.00
74 T	N-amyl acetate	1.916	2.084	-8.8	100	0.00
75 P	1,1,2,2-Tetrachloroethane	1.407	1.368	2.8	97	0.00
76 T	1,2,3-Trichloropropane	1.220	1.213	0.6	97	0.00
77 T	Bromobenzene	0.925	0.935	-1.1	98	0.00
78 T	n-propylbenzene	4.613	4.979	-7.9	100	0.00
79 T	2-Chlorotoluene	2.949	3.012	-2.1	100	0.00
80 T	1,3,5-Trimethylbenzene	3.312	3.546	-7.1	99	0.00
81 T	trans-1,4-Dichloro-2-butene	0.359	0.377	-5.0	100	0.00
82 T	4-Chlorotoluene	3.288	3.447	-4.8	98	0.00
83 T	tert-Butylbenzene	3.279	3.494	-6.6	100	0.00
84 T	1,2,4-Trimethylbenzene	3.324	3.523	-6.0	98	0.00
85 T	sec-Butylbenzene	4.027	4.342	-7.8	99	0.00
86 T	p-Isopropyltoluene	3.320	3.608	-8.7	101	0.00
87 T	1,3-Dichlorobenzene	1.684	1.702	-1.1	98	0.00
88 T	1,4-Dichlorobenzene	1.708	1.678	1.8	97	0.00
89 T	n-Butylbenzene	2.879	3.178	-10.4	99	0.00
90 T	Hexachloroethane	0.571	0.617	-8.1	102	0.00
91 T	1,2-Dichlorobenzene	1.675	1.673	0.1	98	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.294	0.313	-6.5	98	0.00
93 T	1,2,4-Trichlorobenzene	0.932	0.968	-3.9	101	0.00
94 T	Hexachlorobutadiene	0.402	0.401	0.2	98	0.00
95 T	Naphthalene	3.469	3.661	-5.5	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045532.D
Acq On : 01 Apr 2025 19:48
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Quant Time: Apr 02 03:14:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.976	0.984	-0.8	97	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045532.D
 Acq On : 01 Apr 2025 19:48
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX040225

Quant Time: Apr 02 03:14:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	101	0.00
2 T	Dichlorodifluoromethane	50.000	52.454	-4.9	97	0.00
3 P	Chloromethane	50.000	48.349	3.3	96	0.00
4 C	Vinyl Chloride	50.000	48.816	2.4#	97	0.00
5 T	Bromomethane	50.000	46.991	6.0	96	0.00
6 T	Chloroethane	50.000	51.586	-3.2	98	0.00
7 T	Trichlorofluoromethane	50.000	50.354	-0.7	99	0.00
8 T	Diethyl Ether	50.000	49.228	1.5	99	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	49.528	0.9	99	0.00
10 T	Methyl Iodide	50.000	48.626	2.7	95	0.00
11 T	Tert butyl alcohol	250.000	246.612	1.4	97	0.00
12 CM	1,1-Dichloroethene	50.000	49.726	0.5#	100	0.00
13 T	Acrolein	250.000	238.141	4.7	98	0.00
14 T	Allyl chloride	50.000	50.541	-1.1	100	0.00
15 T	Acrylonitrile	250.000	248.351	0.7	96	0.00
16 T	Acetone	250.000	241.904	3.2	98	0.00
17 T	Carbon Disulfide	50.000	52.057	-4.1	101	0.00
18 T	Methyl Acetate	50.000	48.742	2.5	100	0.00
19 T	Methyl tert-butyl Ether	50.000	50.950	-1.9	102	0.00
20 T	Methylene Chloride	50.000	49.055	1.9	99	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.800	0.4	99	0.00
22 T	Diisopropyl ether	50.000	50.895	-1.8	101	0.00
23 T	Vinyl Acetate	250.000	267.449	-7.0	101	0.00
24 P	1,1-Dichloroethane	50.000	49.677	0.6	101	0.00
25 T	2-Butanone	250.000	254.882	-2.0	97	0.00
26 T	2,2-Dichloropropane	50.000	52.020	-4.0	102	0.00
27 T	cis-1,2-Dichloroethene	50.000	49.049	1.9	99	0.00
28 T	Bromochloromethane	50.000	48.403	3.2	101	0.00
29 T	Tetrahydrofuran	250.000	249.473	0.2	97	0.00
30 C	Chloroform	50.000	49.614	0.8#	100	0.00
31 T	Cyclohexane	50.000	49.583	0.8	100	0.00
32 T	1,1,1-Trichloroethane	50.000	50.330	-0.7	102	0.00
33 S	1,2-Dichloroethane-d4	50.000	50.329	-0.7	107	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	104	0.00
35 S	Dibromofluoromethane	50.000	49.256	1.5	105	0.00
36 T	1,1-Dichloropropene	50.000	50.088	-0.2	103	0.00
37 T	Ethyl Acetate	50.000	49.787	0.4	100	0.00
38 T	Carbon Tetrachloride	50.000	50.667	-1.3	102	0.00
39 T	Methylcyclohexane	50.000	50.124	-0.2	98	0.00
40 TM	Benzene	50.000	49.212	1.6	101	0.00
41 T	Methacrylonitrile	50.000	53.098	-6.2	100	0.00
42 TM	1,2-Dichloroethane	50.000	48.875	2.3	99	0.00
43 T	Isopropyl Acetate	50.000	51.539	-3.1	100	0.00
44 TM	Trichloroethene	50.000	47.643	4.7	98	0.00
45 C	1,2-Dichloropropane	50.000	49.521	1.0#	100	0.00
46 T	Dibromomethane	50.000	48.542	2.9	97	0.00
47 T	Bromodichloromethane	50.000	49.273	1.5	100	0.00
48 T	Methyl methacrylate	50.000	51.507	-3.0	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\WX040225\
 Data File : VX045532.D
 Acq On : 01 Apr 2025 19:48
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICSVX040225

Quant Time: Apr 02 03:14:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	955.327	4.5	92	0.00
50 S	Toluene-d8	50.000	50.160	-0.3	106	0.00
51 T	4-Methyl-2-Pentanone	250.000	254.994	-2.0	97	0.00
52 CM	Toluene	50.000	48.994	2.0#	99	0.00
53 T	t-1,3-Dichloropropene	50.000	46.783	6.4	103	0.00
54 T	cis-1,3-Dichloropropene	50.000	53.878	-7.8	104	0.00
55 T	1,1,2-Trichloroethane	50.000	49.007	2.0	100	0.00
56 T	Ethyl methacrylate	50.000	53.705	-7.4	102	0.00
57 T	1,3-Dichloropropane	50.000	49.869	0.3	101	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	260.201	-4.1	100	0.00
59 T	2-Hexanone	250.000	251.710	-0.7	96	0.00
60 T	Dibromochloromethane	50.000	50.983	-2.0	99	0.00
61 T	1,2-Dibromoethane	50.000	50.693	-1.4	101	0.00
62 S	4-Bromofluorobenzene	50.000	50.959	-1.9	105	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	101	0.00
64 T	Tetrachloroethene	50.000	47.239	5.5	97	0.00
65 PM	Chlorobenzene	50.000	50.207	-0.4	100	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	50.495	-1.0	102	0.00
67 C	Ethyl Benzene	50.000	51.558	-3.1#	100	0.00
68 T	m/p-Xylenes	100.000	102.728	-2.7	100	0.00
69 T	o-Xylene	50.000	51.650	-3.3	100	0.00
70 T	Styrene	50.000	52.624	-5.2	99	0.00
71 P	Bromoform	50.000	52.694	-5.4	100	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	98	0.00
73 T	Isopropylbenzene	50.000	52.794	-5.6	99	0.00
74 T	N-ethyl acetate	50.000	54.387	-8.8	100	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	48.608	2.8	97	0.00
76 T	1,2,3-Trichloropropane	50.000	49.741	0.5	97	0.00
77 T	Bromobenzene	50.000	50.525	-1.0	98	0.00
78 T	n-propylbenzene	50.000	53.967	-7.9	100	0.00
79 T	2-Chlorotoluene	50.000	51.057	-2.1	100	0.00
80 T	1,3,5-Trimethylbenzene	50.000	53.534	-7.1	99	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	52.482	-5.0	100	0.00
82 T	4-Chlorotoluene	50.000	52.422	-4.8	98	0.00
83 T	tert-Butylbenzene	50.000	53.274	-6.5	100	0.00
84 T	1,2,4-Trimethylbenzene	50.000	52.990	-6.0	98	0.00
85 T	sec-Butylbenzene	50.000	53.903	-7.8	99	0.00
86 T	p-Isopropyltoluene	50.000	54.337	-8.7	101	0.00
87 T	1,3-Dichlorobenzene	50.000	50.521	-1.0	98	0.00
88 T	1,4-Dichlorobenzene	50.000	49.117	1.8	97	0.00
89 T	n-Butylbenzene	50.000	55.189	-10.4	99	0.00
90 T	Hexachloroethane	50.000	54.066	-8.1	102	0.00
91 T	1,2-Dichlorobenzene	50.000	49.938	0.1	98	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	53.226	-6.5	98	0.00
93 T	1,2,4-Trichlorobenzene	50.000	51.935	-3.9	101	0.00
94 T	Hexachlorobutadiene	50.000	49.961	0.1	98	0.00
95 T	Naphthalene	50.000	52.765	-5.5	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045532.D
Acq On : 01 Apr 2025 19:48
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Quant Time: Apr 02 03:14:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	50.396	-0.8	97	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746
 Instrument ID: MSVOA_Y Calibration Date(s): 03/27/2025 03/27/2025
 Heated Purge: (Y/N) Y Calibration Time(s): 10:08 12:02
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF005 = VY021656.D		RRF010 = VY021657.D		RRF020 = VY021658.D			
		RRF050 = VY021659.D		RRF100 = VY021660.D		RRF150 = VY021661.D			
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dichlorodifluoromethane	0.602	0.577	0.493	0.506	0.485	0.447	0.518	11.4	
Chloromethane	0.876	0.775	0.713	0.692	0.672	0.644	0.729	11.6	
Vinyl Chloride	0.977	0.886	0.810	0.800	0.758	0.714	0.824	11.5	
Bromomethane	0.709	0.613	0.537	0.513	0.494	0.506	0.562	14.9	
Chloroethane	0.644	0.570	0.544	0.512	0.490	0.476	0.539	11.5	
Trichlorofluoromethane	1.212	1.124	1.104	1.013	0.967	0.914	1.056	10.5	
1,1,2-Trichlorotrifluoroethane	0.668	0.601	0.553	0.536	0.510	0.473	0.557	12.4	
1,1-Dichloroethene	0.589	0.564	0.508	0.514	0.496	0.477	0.524	8.2	
Acetone	0.145	0.123	0.102	0.107	0.087	0.102	0.111	18.3	
Carbon Disulfide	1.956	1.828	1.709	1.696	1.623	1.552	1.727	8.4	
Methyl tert-butyl Ether	1.380	1.335	1.247	1.325	1.256	1.292	1.306	3.9	
Methyl Acetate	0.329	0.286	0.269	0.265	0.243	0.257	0.275	11	
Methylene Chloride	0.870	0.694	0.594	0.564	0.518	0.514	0.626	21.8	
trans-1,2-Dichloroethene	0.634	0.608	0.568	0.567	0.551	0.536	0.577	6.3	
1,1-Dichloroethane	1.178	1.091	1.024	1.040	0.992	0.968	1.049	7.3	
Cyclohexane	1.170	1.032	0.912	0.918	0.886	0.818	0.956	13.1	
2-Butanone	0.181	0.166	0.149	0.159	0.140	0.155	0.158	8.9	
Carbon Tetrachloride	0.637	0.594	0.546	0.564	0.547	0.507	0.566	7.9	
cis-1,2-Dichloroethene	0.700	0.658	0.626	0.652	0.631	0.629	0.649	4.3	
Bromochloromethane	0.513	0.470	0.424	0.426	0.420	0.402	0.442	9.3	
Chloroform	1.235	1.141	1.062	1.081	1.026	1.000	1.091	7.9	
1,1,1-Trichloroethane	1.155	1.013	0.959	0.967	0.929	0.893	0.986	9.3	
Methylcyclohexane	0.593	0.599	0.569	0.619	0.612	0.550	0.590	4.5	
Benzene	1.606	1.527	1.429	1.499	1.445	1.371	1.479	5.6	
1,2-Dichloroethane	0.467	0.445	0.399	0.420	0.392	0.379	0.417	8.1	
Trichloroethene	0.412	0.398	0.362	0.374	0.366	0.348	0.377	6.4	
1,2-Dichloropropane	0.383	0.366	0.334	0.353	0.340	0.325	0.350	6.2	
Bromodichloromethane	0.571	0.546	0.504	0.525	0.508	0.484	0.523	6	
4-Methyl-2-Pentanone	0.232	0.240	0.219	0.241	0.222	0.226	0.230	3.9	
Toluene	0.940	0.943	0.893	0.951	0.928	0.885	0.923	3	

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.



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Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746
 Instrument ID: MSVOA_Y Calibration Date(s): 03/27/2025 03/27/2025
 Heated Purge: (Y/N) Y Calibration Time(s): 10:08 12:02
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF005 = VY021656.D		RRF010 = VY021657.D		RRF020 = VY021658.D			
		RRF050 = VY021659.D		RRF100 = VY021660.D		RRF150 = VY021661.D			
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
t-1,3-Dichloropropene	0.456	0.470	0.439	0.486	0.475	0.461	0.465	3.5	
cis-1,3-Dichloropropene	0.553	0.558	0.528	0.565	0.549	0.534	0.548	2.6	
1,1,2-Trichloroethane	0.280	0.283	0.249	0.261	0.247	0.240	0.260	6.9	
2-Hexanone	0.154	0.154	0.144	0.164	0.148	0.154	0.153	4.2	
Dibromochloromethane	0.371	0.367	0.340	0.364	0.348	0.337	0.355	4.1	
1,2-Dibromoethane	0.267	0.250	0.230	0.254	0.233	0.229	0.244	6.3	
Tetrachloroethene	0.534	0.503	0.453	0.449	0.412	0.382	0.455	12.3	
Chlorobenzene	1.244	1.178	1.110	1.155	1.116	1.073	1.146	5.3	
Ethyl Benzene	1.949	1.916	1.918	2.051	2.023	1.935	1.965	2.9	
m/p-Xylenes	0.726	0.753	0.744	0.787	0.774	0.731	0.753	3.2	
o-Xylene	0.665	0.670	0.676	0.738	0.725	0.694	0.695	4.4	
Styrene	1.064	1.110	1.134	1.232	1.229	1.181	1.158	5.8	
Bromoform	0.241	0.239	0.229	0.237	0.225	0.221	0.232	3.4	
Isopropylbenzene	3.628	3.701	3.582	3.826	3.843	3.702	3.714	2.8	
1,1,2,2-Tetrachloroethane	0.764	0.720	0.616	0.657	0.619	0.631	0.668	9.1	
1,3-Dichlorobenzene	1.895	1.774	1.707	1.748	1.728	1.689	1.757	4.2	
1,4-Dichlorobenzene	1.876	1.794	1.704	1.741	1.673	1.626	1.736	5.2	
1,2-Dichlorobenzene	1.598	1.607	1.496	1.524	1.486	1.465	1.529	3.9	
1,2-Dibromo-3-Chloropropane	0.112	0.111	0.097	0.102	0.096	0.102	0.103	6.6	
1,2,4-Trichlorobenzene	0.771	0.781	0.787	0.878	0.870	0.889	0.829	6.6	
1,2,3-Trichlorobenzene	0.653	0.681	0.673	0.746	0.737	0.753	0.707	6.1	
1,2-Dichloroethane-d4	0.612	0.559	0.502	0.548	0.510	0.520	0.542	7.5	
Dibromofluoromethane	0.357	0.321	0.290	0.339	0.325	0.313	0.324	7	
Toluene-d8	1.277	1.240	1.127	1.306	1.252	1.201	1.234	5.1	
4-Bromofluorobenzene	0.447	0.410	0.378	0.439	0.424	0.407	0.417	6	

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y032725S.M
 Title : SW846 8260
 Last Update : Fri Mar 28 02:30:29 2025
 Response Via : Initial Calibration

Calibration Files

5 =VY021656.D 10 =VY021657.D 20 =VY021658.D 50 =VY021659.D 100 =VY021660.D 150 =VY021661.D

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.602	0.577	0.493	0.506	0.485	0.447	0.518	11.38
3) P	Chloromethane	0.876	0.775	0.713	0.692	0.672	0.644	0.729	11.61
4) C	Vinyl Chloride	0.977	0.886	0.810	0.800	0.758	0.714	0.824	11.48#
5) T	Bromomethane	0.709	0.613	0.537	0.513	0.494	0.506	0.562	14.90
6) T	Chloroethane	0.644	0.570	0.544	0.512	0.490	0.476	0.539	11.46
7) T	Trichlorofluor...	1.212	1.124	1.104	1.013	0.967	0.914	1.056	10.48
8) T	Diethyl Ether	0.332	0.309	0.284	0.275	0.256	0.266	0.287	9.95
9) T	1,1,2-Trichlor...	0.668	0.601	0.553	0.536	0.510	0.473	0.557	12.39
10) T	Methyl Iodide	0.567	0.581	0.610	0.655	0.631	0.620	0.611	5.34
11) T	Tert butyl alc...	0.043	0.038	0.034	0.034	0.029	0.032	0.035	13.48
12) CM	1,1-Dichloroet...	0.589	0.564	0.508	0.514	0.496	0.477	0.524	8.17#
13) T	Acrolein	0.069	0.070	0.064	0.063	0.059	0.061	0.064	7.03
14) T	Allyl chloride	0.897	0.866	0.803	0.837	0.814	0.801	0.836	4.60
15) T	Acrylonitrile	0.132	0.128	0.116	0.121	0.109	0.113	0.120	7.45
16) T	Acetone	0.145	0.123	0.102	0.107	0.087	0.102	0.111	18.31
17) T	Carbon Disulfide	1.956	1.828	1.709	1.696	1.623	1.552	1.727	8.40
18) T	Methyl Acetate	0.329	0.286	0.269	0.265	0.243	0.257	0.275	10.97
19) T	Methyl tert-bu...	1.380	1.335	1.247	1.325	1.256	1.292	1.306	3.90
20) T	Methylene Chlo...	0.870	0.694	0.594	0.564	0.518	0.514	0.626	21.82
21) T	trans-1,2-Dich...	0.634	0.608	0.568	0.567	0.551	0.536	0.577	6.32
22) T	Diisopropyl ether	1.795	1.771	1.732	1.800	1.725	1.701	1.754	2.32
23) T	Vinyl Acetate	1.026	1.036	1.000	1.066	1.004	1.025	1.026	2.33
24) P	1,1-Dichloroet...	1.178	1.091	1.024	1.040	0.992	0.968	1.049	7.26
25) T	2-Butanone	0.181	0.166	0.149	0.159	0.140	0.155	0.158	8.91
26) T	2,2-Dichloropr...	1.063	0.962	0.896	0.920	0.886	0.870	0.933	7.63
27) T	cis-1,2-Dichlo...	0.700	0.658	0.626	0.652	0.631	0.629	0.649	4.34
28) T	Bromochloromet...	0.513	0.470	0.424	0.426	0.420	0.402	0.442	9.32
29) T	Tetrahydrofuran	0.108	0.111	0.096	0.105	0.093	0.097	0.102	7.06
30) C	Chloroform	1.235	1.141	1.062	1.081	1.026	1.000	1.091	7.85#
31) T	Cyclohexane	1.170	1.032	0.912	0.918	0.886	0.818	0.956	13.12
32) T	1,1,1-Trichlor...	1.155	1.013	0.959	0.967	0.929	0.893	0.986	9.31
33) S	1,2-Dichloroet...	0.612	0.559	0.502	0.548	0.510	0.520	0.542	7.53
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.357	0.321	0.290	0.339	0.325	0.313	0.324	7.00
36) T	1,1-Dichloropr...	0.532	0.509	0.487	0.502	0.484	0.450	0.494	5.59
37) T	Ethyl Acetate	0.270	0.256	0.217	0.236	0.211	0.210	0.233	10.82
38) T	Carbon Tetrach...	0.637	0.594	0.546	0.564	0.547	0.507	0.566	7.89
39) T	Methylcyclohexane	0.593	0.599	0.569	0.619	0.612	0.550	0.590	4.50
40) TM	Benzene	1.606	1.527	1.429	1.499	1.445	1.371	1.479	5.58
41) T	Methacrylonitrile	0.134	0.132	0.111	0.137	0.114	0.116	0.124	9.32
42) TM	1,2-Dichloroet...	0.467	0.445	0.399	0.420	0.392	0.379	0.417	8.15
43) T	Isopropyl Acetate	0.471	0.474	0.408	0.451	0.420	0.426	0.442	6.29
44) TM	Trichloroethene	0.412	0.398	0.362	0.374	0.366	0.348	0.377	6.37
45) C	1,2-Dichloropr...	0.383	0.366	0.334	0.353	0.340	0.325	0.350	6.15#
46) T	Dibromomethane	0.225	0.220	0.192	0.198	0.191	0.185	0.202	8.23
47) T	Bromodichlorom...	0.571	0.546	0.504	0.525	0.508	0.484	0.523	6.02
48) T	Methyl methacr...	0.212	0.205	0.179	0.210	0.206	0.203	0.203	5.87
49) T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	3.07
50) S	Toluene-d8	1.277	1.240	1.127	1.306	1.252	1.201	1.234	5.12
51) T	4-Methyl-2-Pen...	0.232	0.240	0.219	0.241	0.222	0.226	0.230	3.93
52) CM	Toluene	0.940	0.943	0.893	0.951	0.928	0.885	0.923	3.01#
53) T	t-1,3-Dichloro...	0.456	0.470	0.439	0.486	0.475	0.461	0.465	3.47
54) T	cis-1,3-Dichlo...	0.553	0.558	0.528	0.565	0.549	0.534	0.548	2.62
55) T	1,1,2-Trichlor...	0.280	0.283	0.249	0.261	0.247	0.240	0.260	6.92
56) T	Ethyl methacry...	0.287	0.309	0.314	0.366	0.356	0.359	0.332	9.82

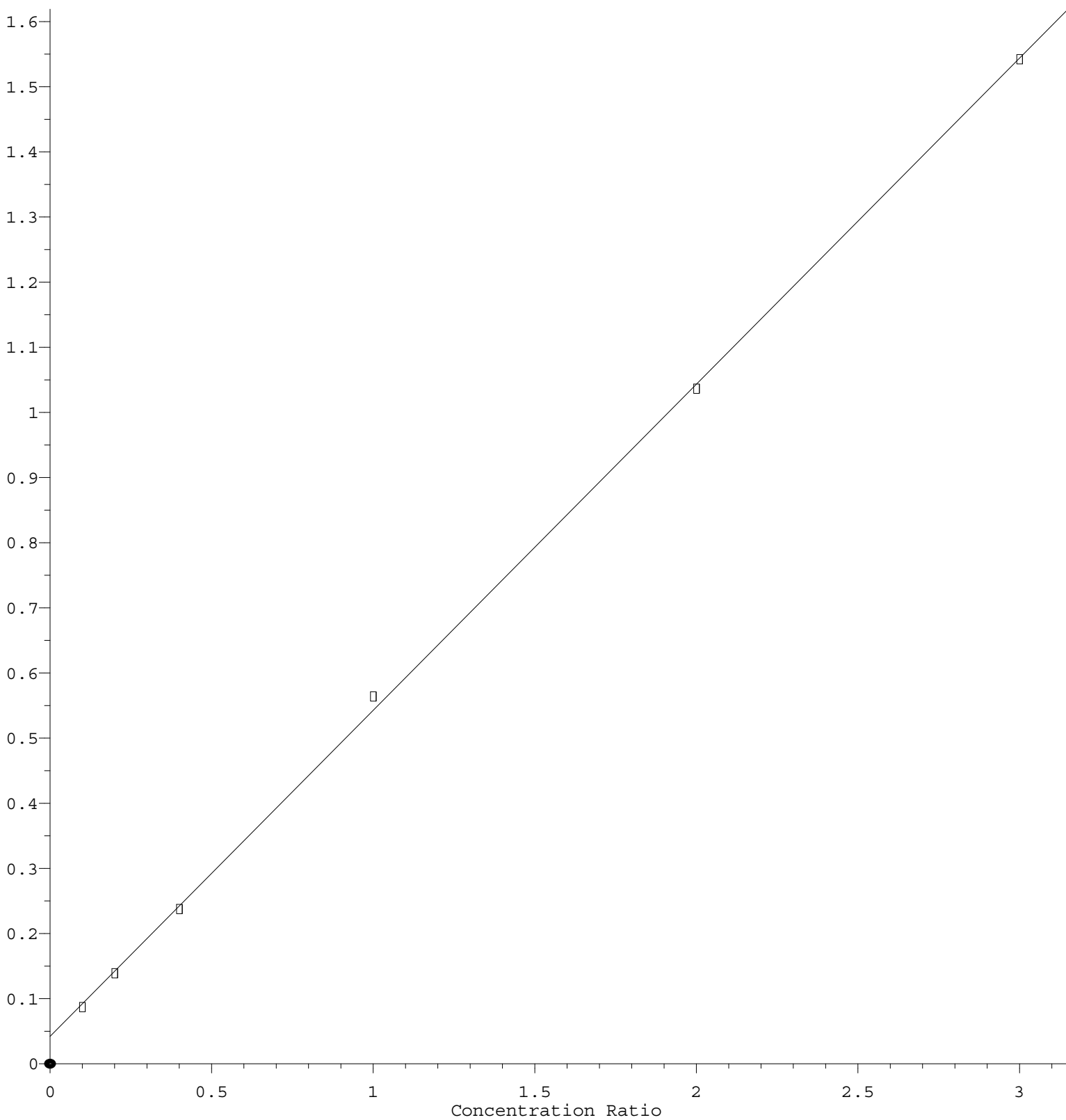
Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y032725S.M

57)	T	1,3-Dichloropr...	0.472	0.470	0.440	0.460	0.432	0.419	0.449	4.84
58)	T	2-Chloroethyl ...	0.142	0.153	0.151	0.180	0.173	0.172	0.162	9.22
59)	T	2-Hexanone	0.154	0.154	0.144	0.164	0.148	0.154	0.153	4.25
60)	T	Dibromochlorom...	0.371	0.367	0.340	0.364	0.348	0.337	0.355	4.10
61)	T	1,2-Dibromoethane	0.267	0.250	0.230	0.254	0.233	0.229	0.244	6.32
62)	S	4-Bromofluorob...	0.447	0.410	0.378	0.439	0.424	0.407	0.417	5.97
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.534	0.503	0.453	0.449	0.412	0.382	0.455	12.28
65)	PM	Chlorobenzene	1.244	1.178	1.110	1.155	1.116	1.073	1.146	5.26
66)	T	1,1,1,2-Tetrac...	0.448	0.409	0.390	0.412	0.400	0.382	0.407	5.67
67)	C	Ethyl Benzene	1.949	1.916	1.918	2.051	2.023	1.935	1.965	2.93#
68)	T	m/p-Xylenes	0.726	0.753	0.744	0.787	0.774	0.731	0.753	3.21
69)	T	o-Xylene	0.665	0.670	0.676	0.738	0.725	0.694	0.695	4.40
70)	T	Styrene	1.064	1.110	1.134	1.232	1.229	1.181	1.158	5.82
71)	P	Bromoform	0.241	0.239	0.229	0.237	0.225	0.221	0.232	3.44
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.628	3.701	3.582	3.825	3.843	3.702	3.714	2.80
74)	T	N-amyl acetate	0.812	0.864	0.800	0.917	0.898	0.938	0.872	6.47
75)	P	1,1,2,2-Tetrac...	0.764	0.720	0.616	0.657	0.619	0.631	0.668	9.14
76)	T	1,2,3-Trichlor...	0.506	0.560	0.487	0.498	0.453	0.470	0.496	7.46
77)	T	Bromobenzene	0.946	0.909	0.852	0.889	0.886	0.867	0.892	3.71
78)	T	n-propylbenzene	4.347	4.457	4.349	4.617	4.612	4.408	4.465	2.75
79)	T	2-Chlorotoluene	2.616	2.634	2.535	2.645	2.603	2.526	2.593	1.96
80)	T	1,3,5-Trimethy...	2.917	3.001	2.982	3.147	3.141	3.023	3.035	3.01
81)	T	trans-1,4-Dich...	0.208	0.227	0.199	0.222	0.212	0.224	0.215	5.06
82)	T	4-Chlorotoluene	2.768	2.746	2.649	2.757	2.695	2.606	2.704	2.42
83)	T	tert-Butylbenzene	2.596	2.674	2.617	2.787	2.832	2.715	2.703	3.46
84)	T	1,2,4-Trimethy...	2.783	2.965	2.960	3.135	3.116	3.040	3.000	4.30
85)	T	sec-Butylbenzene	3.838	3.999	3.860	4.095	4.054	3.858	3.951	2.85
86)	T	p-Isopropyltol...	3.001	3.194	3.195	3.430	3.445	3.328	3.265	5.19
87)	T	1,3-Dichlorobe...	1.895	1.774	1.707	1.748	1.728	1.689	1.757	4.21
88)	T	1,4-Dichlorobe...	1.876	1.794	1.704	1.741	1.673	1.626	1.736	5.16
89)	T	n-Butylbenzene	2.890	2.933	2.932	3.173	3.166	3.025	3.020	4.11
90)	T	Hexachloroethane	0.798	0.720	0.677	0.707	0.709	0.683	0.716	6.06
91)	T	1,2-Dichlorobe...	1.598	1.607	1.496	1.524	1.486	1.465	1.529	3.91
92)	T	1,2-Dibromo-3-...	0.112	0.111	0.097	0.102	0.096	0.102	0.103	6.58
93)	T	1,2,4-Trichlor...	0.771	0.781	0.787	0.878	0.870	0.889	0.829	6.65
94)	T	Hexachlorobuta...	0.568	0.521	0.490	0.525	0.512	0.492	0.518	5.51
95)	T	Naphthalene	1.153	1.208	1.258	1.508	1.505	1.616	1.375	13.94
96)	T	1,2,3-Trichlor...	0.653	0.681	0.673	0.746	0.737	0.753	0.707	6.06

(#) = Out of Range

Methylene Chloride

Response Ratio



$$\text{Response} = 5.006\text{e-}001 * \text{Amt} + 4.197\text{e-}002$$

Coef of Det (r^2) = 0.999666 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y032725S.M

Calibration Table Last Updated: Fri Mar 28 02:30:29 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
 Data File : VY021656.D
 Acq On : 27 Mar 2025 10:08
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 03/28/2025
 Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:13:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:08:57 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.707	168	217101	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	350486	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	301382	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	145682	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	13289	5.650	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	11.300%#		
35) Dibromofluoromethane	7.634	113	12519	5.506	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	11.020%#		
50) Toluene-d8	10.109	98	44774	5.177	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	10.360%#		
62) 4-Bromofluorobenzene	12.408	95	15657	5.352	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	10.700%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.867	85	13065	5.806	ug/l	98
3) Chloromethane	2.074	50	19017	6.010	ug/l	90
4) Vinyl Chloride	2.202	62	21214	5.928	ug/l	93
5) Bromomethane	2.598	94	15395	6.308	ug/l	99
6) Chloroethane	2.733	64	13977	5.969	ug/l	99
7) Trichlorofluoromethane	3.056	101	26311	5.740	ug/l	98
8) Diethyl Ether	3.458	74	7213	5.786	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.824	101	14493	5.995	ug/l	98
10) Methyl Iodide	4.007	142	12311	4.642	ug/l	98
11) Tert butyl alcohol	4.860	59	4636	30.344	ug/l #	85
12) 1,1-Dichloroethene	3.793	96	12778	5.611	ug/l	92
13) Acrolein	3.653	56	7499	26.881	ug/l	93
14) Allyl chloride	4.385	41	19469	5.362	ug/l	97
15) Acrylonitrile	5.061	53	14337	27.546	ug/l #	88
16) Acetone	3.873	43	15736	32.687	ug/l	100
17) Carbon Disulfide	4.110	76	42467	5.662	ug/l	99
18) Methyl Acetate	4.391	43	7141	5.985	ug/l	97
19) Methyl tert-butyl Ether	5.110	73	29969	5.286	ug/l	100
20) Methylene Chloride	4.616	84	18885	4.497	ug/l	96
21) trans-1,2-Dichloroethene	5.116	96	13763	5.489	ug/l	95
22) Diisopropyl ether	6.019	45	38980	5.118	ug/l	95
23) Vinyl Acetate	5.964	43	111357	24.992	ug/l	98
24) 1,1-Dichloroethane	5.915	63	25578	5.616	ug/l #	94
25) 2-Butanone	6.896	43	19664	28.598	ug/l	96
26) 2,2-Dichloropropane	6.884	77	23073	5.695	ug/l	100
27) cis-1,2-Dichloroethene	6.896	96	15197	5.390	ug/l	99
28) Bromochloromethane	7.250	49	11139	5.799	ug/l	99
29) Tetrahydrofuran	7.262	42	11696	26.430	ug/l	99
30) Chloroform	7.421	83	26819	5.662	ug/l	95
31) Cyclohexane	7.707	56	25394	6.117	ug/l #	88
32) 1,1,1-Trichloroethane	7.616	97	25069	5.856	ug/l	97
36) 1,1-Dichloropropene	7.835	75	18659	5.388	ug/l	99
37) Ethyl Acetate	6.988	43	9459	5.788	ug/l #	95
38) Carbon Tetrachloride	7.817	117	22310	5.625	ug/l	95
39) Methylcyclohexane	9.109	83	20781	5.023	ug/l	97
40) Benzene	8.079	78	56287	5.427	ug/l	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
 Data File : VY021656.D
 Acq On : 27 Mar 2025 10:08
 Operator : SY/MD
 Sample : VSTDIC005
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 03/28/2025
 Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:13:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:08:57 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.232	41	4688m	5.402	ug/l	
42) 1,2-Dichloroethane	8.158	62	16381	5.603	ug/l	98
43) Isopropyl Acetate	8.195	43	16504	5.329	ug/l	97
44) Trichloroethene	8.866	130	14453	5.470	ug/l	98
45) 1,2-Dichloropropane	9.146	63	13429	5.470	ug/l	99
46) Dibromomethane	9.231	93	7882	5.571	ug/l	97
47) Bromodichloromethane	9.420	83	20008	5.458	ug/l	92
48) Methyl methacrylate	9.219	41	7427	5.225	ug/l	96
49) 1,4-Dioxane	9.231	88	1573	103.789	ug/l	91
51) 4-Methyl-2-Pentanone	9.999	43	40601	25.191	ug/l	97
52) Toluene	10.176	92	32954	5.093	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	15986	4.909	ug/l	95
54) cis-1,3-Dichloropropene	9.859	75	19395	5.049	ug/l	98
55) 1,1,2-Trichloroethane	10.573	97	9802	5.384	ug/l	94
56) Ethyl methacrylate	10.438	69	10060	4.327	ug/l	93
57) 1,3-Dichloropropane	10.719	76	16534	5.258	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	24903	21.959	ug/l	98
59) 2-Hexanone	10.762	43	26991	25.145	ug/l	92
60) Dibromochloromethane	10.914	129	13002	5.231	ug/l	99
61) 1,2-Dibromoethane	11.018	107	9345	5.472	ug/l	100
64) Tetrachloroethene	10.652	164	16085	5.860	ug/l	93
65) Chlorobenzene	11.444	112	37505	5.429	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.518	131	13496	5.506	ug/l	97
67) Ethyl Benzene	11.524	91	58750	4.959	ug/l	98
68) m/p-Xylenes	11.633	106	43785	9.652	ug/l	97
69) o-Xylene	11.956	106	20041	4.786	ug/l	98
70) Styrene	11.975	104	32075	4.594	ug/l	99
71) Bromoform	12.133	173	7253	5.187	ug/l #	98
73) Isopropylbenzene	12.255	105	52860	4.885	ug/l	99
74) N-amyl acetate	12.072	43	11835	4.660	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.511	83	11133	5.723	ug/l	95
76) 1,2,3-Trichloropropane	12.554	75	7373m	5.106	ug/l	
77) Bromobenzene	12.536	156	13783	5.305	ug/l	97
78) n-propylbenzene	12.597	91	63324	4.868	ug/l	100
79) 2-Chlorotoluene	12.682	91	38107	5.044	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	42499	4.806	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.310	75	3023	4.823	ug/l	88
82) 4-Chlorotoluene	12.779	91	40326	5.119	ug/l	100
83) tert-Butylbenzene	12.999	119	37817	4.801	ug/l	99
84) 1,2,4-Trimethylbenzene	13.048	105	40547	4.639	ug/l	99
85) sec-Butylbenzene	13.176	105	55918	4.858	ug/l	100
86) p-Isopropyltoluene	13.292	119	43714	4.595	ug/l	99
87) 1,3-Dichlorobenzene	13.292	146	27604	5.393	ug/l	98
88) 1,4-Dichlorobenzene	13.371	146	27332	5.405	ug/l	94
89) n-Butylbenzene	13.621	91	42102	4.785	ug/l	96
90) Hexachloroethane	13.883	117	11619	5.573	ug/l	99
91) 1,2-Dichlorobenzene	13.663	146	23277	5.224	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	1634	5.419	ug/l	91
93) 1,2,4-Trichlorobenzene	14.925	180	11228	4.647	ug/l	97
94) Hexachlorobutadiene	15.029	225	8276	5.484	ug/l	96
95) Naphthalene	15.151	128	16796	4.194	ug/l	100
96) 1,2,3-Trichlorobenzene	15.334	180	9518	4.619	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021656.D
Acq On : 27 Mar 2025 10:08
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:13:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

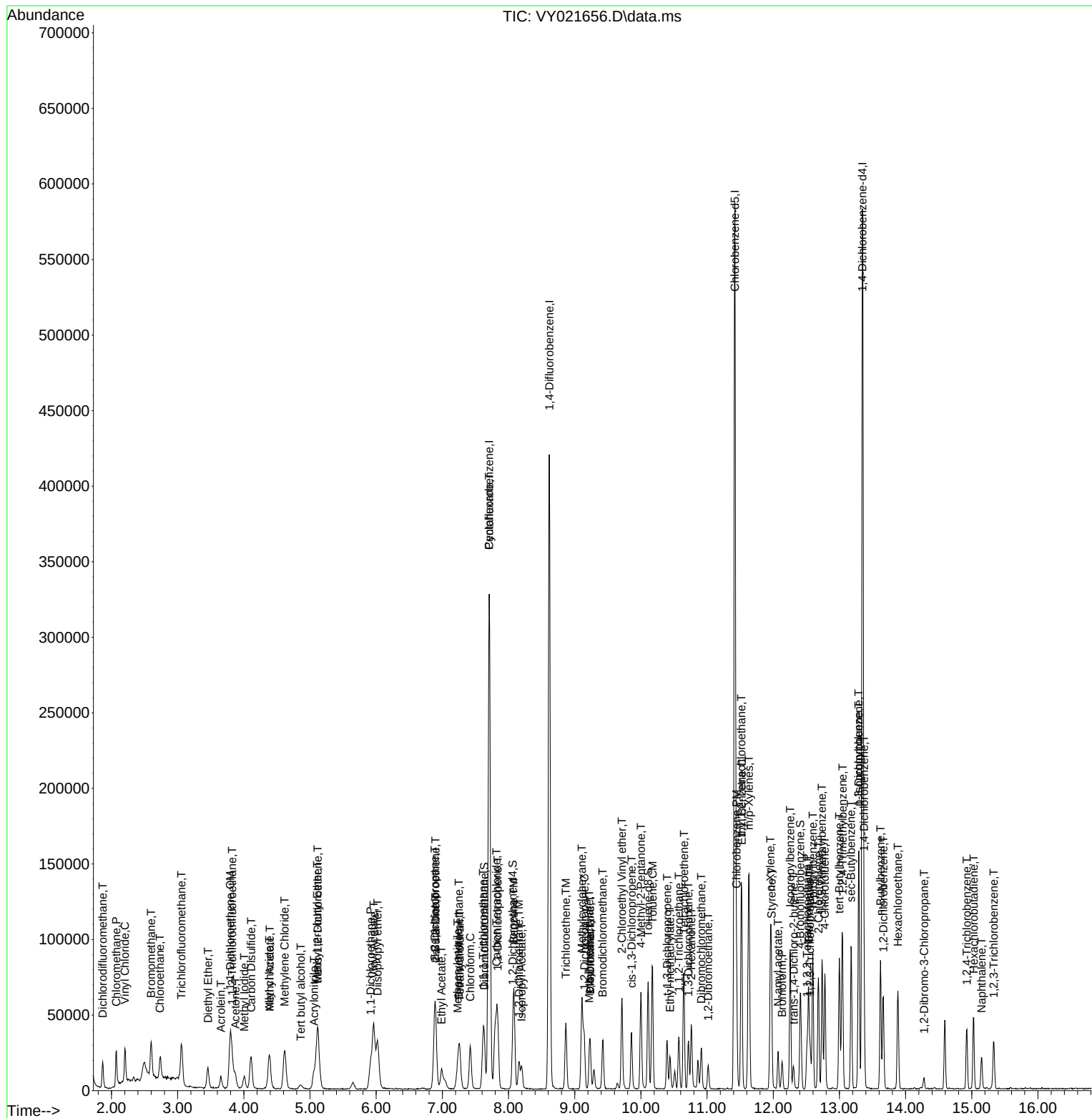
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021656.D
Acq On : 27 Mar 2025 10:08
Operator : SY/MD
Sample : VSTDIC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:13:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
 Data File : VY021657.D
 Acq On : 27 Mar 2025 10:31
 Operator : SY/MD
 Sample : VSTDICC010
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 03/28/2025
 Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:14:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:08:57 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.707	168	225523	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	354785	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	311737	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	152005	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	25195	10.311	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	20.620%#
35) Dibromofluoromethane	7.634	113	22797	9.906	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	19.820%#
50) Toluene-d8	10.103	98	88000	10.051	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	20.100%#
62) 4-Bromofluorobenzene	12.408	95	29125	9.835	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	19.660%#

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	26017	11.130	ug/l	99
3) Chloromethane	2.068	50	34949	10.633	ug/l	99
4) Vinyl Chloride	2.202	62	39982	10.756	ug/l	96
5) Bromomethane	2.592	94	27670	10.914	ug/l	97
6) Chloroethane	2.733	64	25703	10.567	ug/l	98
7) Trichlorofluoromethane	3.056	101	50711	10.650	ug/l	100
8) Diethyl Ether	3.452	74	13940	10.765	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.818	101	27088	10.786	ug/l	98
10) Methyl Iodide	4.001	142	26193	9.507	ug/l	99
11) Tert butyl alcohol	4.860	59	8671	54.634	ug/l #	87
12) 1,1-Dichloroethene	3.793	96	25446	10.757	ug/l	88
13) Acrolein	3.653	56	15799	54.518	ug/l	100
14) Allyl chloride	4.379	41	39045	10.352	ug/l	97
15) Acrylonitrile	5.055	53	28866	53.389	ug/l	98
16) Acetone	3.867	43	27669	55.329	ug/l	99
17) Carbon Disulfide	4.104	76	82458	10.583	ug/l #	94
18) Methyl Acetate	4.385	43	12911	10.417	ug/l	100
19) Methyl tert-butyl Ether	5.110	73	60205	10.223	ug/l	98
20) Methylene Chloride	4.616	84	31313	9.677	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	27407	10.523	ug/l	96
22) Diisopropyl ether	6.012	45	79874	10.095	ug/l	93
23) Vinyl Acetate	5.958	43	233596	50.469	ug/l	98
24) 1,1-Dichloroethane	5.915	63	49217	10.403	ug/l	98
25) 2-Butanone	6.890	43	37356	52.299	ug/l	97
26) 2,2-Dichloropropane	6.884	77	43412	10.316	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	29699	10.140	ug/l	100
28) Bromochloromethane	7.244	49	21186	10.618	ug/l	99
29) Tetrahydrofuran	7.262	42	25111	54.625	ug/l	97
30) Chloroform	7.421	83	51464	10.459	ug/l	98
31) Cyclohexane	7.701	56	46569	10.798	ug/l #	90
32) 1,1,1-Trichloroethane	7.616	97	45673	10.270	ug/l	98
36) 1,1-Dichloropropene	7.835	75	36121	10.304	ug/l	99
37) Ethyl Acetate	6.988	43	18146	10.969	ug/l	98
38) Carbon Tetrachloride	7.817	117	42141	10.496	ug/l	98
39) Methylcyclohexane	9.103	83	42492	10.147	ug/l	98
40) Benzene	8.079	78	108360	10.322	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
 Data File : VY021657.D
 Acq On : 27 Mar 2025 10:31
 Operator : SY/MD
 Sample : VSTDICC010
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 03/28/2025
 Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:14:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:08:57 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	9343m	10.635	ug/l	
42) 1,2-Dichloroethane	8.158	62	31606	10.679	ug/l	100
43) Isopropyl Acetate	8.195	43	33664	10.738	ug/l #	87
44) Trichloroethene	8.866	130	28275	10.571	ug/l	95
45) 1,2-Dichloropropane	9.140	63	25943	10.440	ug/l	99
46) Dibromomethane	9.231	93	15605	10.896	ug/l	94
47) Bromodichloromethane	9.427	83	38737	10.439	ug/l	99
48) Methyl methacrylate	9.219	41	14576	10.130	ug/l	98
49) 1,4-Dioxane	9.231	88	3077	200.565	ug/l	89
51) 4-Methyl-2-Pentanone	10.000	43	85020	52.111	ug/l	98
52) Toluene	10.170	92	66889	10.212	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	33356	10.120	ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	39609	10.186	ug/l	97
55) 1,1,2-Trichloroethane	10.573	97	20050	10.879	ug/l	95
56) Ethyl methacrylate	10.439	69	21901	9.307	ug/l	96
57) 1,3-Dichloropropane	10.713	76	33316	10.467	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	54271	47.274	ug/l	98
59) 2-Hexanone	10.762	43	54649	50.295	ug/l	100
60) Dibromochloromethane	10.914	129	26032	10.346	ug/l	94
61) 1,2-Dibromoethane	11.018	107	17722	10.251	ug/l	97
64) Tetrachloroethene	10.646	164	31334	11.036	ug/l	93
65) Chlorobenzene	11.444	112	73433	10.276	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.518	131	25506	10.060	ug/l	97
67) Ethyl Benzene	11.518	91	119480	9.750	ug/l	98
68) m/p-Xylenes	11.627	106	93887	20.009	ug/l	99
69) o-Xylene	11.957	106	41768	9.643	ug/l	98
70) Styrene	11.969	104	69196	9.581	ug/l	99
71) Bromoform	12.127	173	14887	10.294	ug/l #	98
73) Isopropylbenzene	12.255	105	112512	9.966	ug/l	100
74) N-amyl acetate	12.072	43	26259	9.910	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.505	83	21883	10.781	ug/l	98
76) 1,2,3-Trichloropropane	12.554	75	17026m	11.300	ug/l	
77) Bromobenzene	12.530	156	27648	10.199	ug/l	98
78) n-propylbenzene	12.597	91	135498	9.983	ug/l	99
79) 2-Chlorotoluene	12.682	91	80079	10.158	ug/l	98
80) 1,3,5-Trimethylbenzene	12.737	105	91235	9.888	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	6899	10.550	ug/l	99
82) 4-Chlorotoluene	12.780	91	83484	10.157	ug/l	100
83) tert-Butylbenzene	12.999	119	81296	9.892	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	90142	9.884	ug/l	100
85) sec-Butylbenzene	13.176	105	121575	10.122	ug/l	99
86) p-Isopropyltoluene	13.292	119	97092	9.781	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	53929	10.098	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	54536	10.336	ug/l	95
89) n-Butylbenzene	13.615	91	89162	9.712	ug/l	98
90) Hexachloroethane	13.877	117	21881	10.059	ug/l	98
91) 1,2-Dichlorobenzene	13.657	146	48845	10.506	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	3387	10.766	ug/l	98
93) 1,2,4-Trichlorobenzene	14.919	180	23748	9.419	ug/l	99
94) Hexachlorobutadiene	15.023	225	15844	10.063	ug/l	99
95) Naphthalene	15.145	128	36711	8.785	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	20711	9.633	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021657.D
Acq On : 27 Mar 2025 10:31
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:14:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

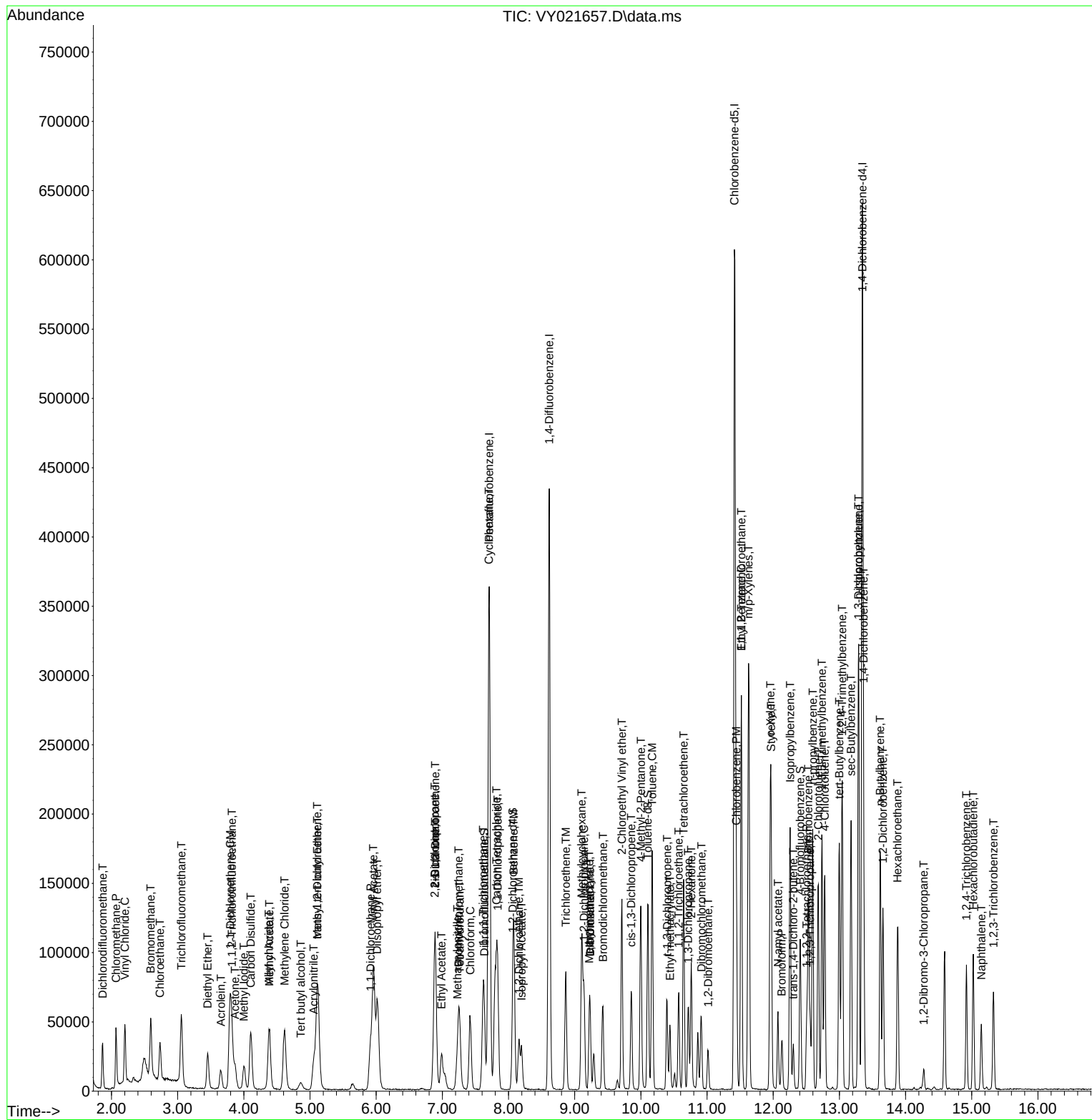
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
 Data File : VY021657.D
 Acq On : 27 Mar 2025 10:31
 Operator : SY/MD
 Sample : VSTDICC010
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC010

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
 Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:14:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:08:57 2025
 Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
 Data File : VY021658.D
 Acq On : 27 Mar 2025 10:54
 Operator : SY/MD
 Sample : VSTDIC020
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 03/28/2025
 Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:15:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:08:57 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.707	168	234060	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	372865	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	325153	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	163591	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	47022	18.542	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	37.080%#		
35) Dibromofluoromethane	7.634	113	43318	17.910	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	35.820%#		
50) Toluene-d8	10.109	98	168040	18.262	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	36.520%#		
62) 4-Bromofluorobenzene	12.408	95	56308	18.092	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	36.180%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.867	85	46121	19.011	ug/l	98
3) Chloromethane	2.068	50	66775	19.575	ug/l	100
4) Vinyl Chloride	2.202	62	75860	19.664	ug/l	98
5) Bromomethane	2.586	94	50238	19.093	ug/l	91
6) Chloroethane	2.733	64	50953	20.184	ug/l	96
7) Trichlorofluoromethane	3.056	101	103348	20.913	ug/l	98
8) Diethyl Ether	3.452	74	26594	19.788	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.818	101	51794	19.871	ug/l	99
10) Methyl Iodide	4.001	142	57115	19.974	ug/l	97
11) Tert butyl alcohol	4.860	59	16115	97.834	ug/l #	89
12) 1,1-Dichloroethene	3.787	96	47534	19.362	ug/l	98
13) Acrolein	3.653	56	29827	99.170	ug/l	99
14) Allyl chloride	4.385	41	75169	19.203	ug/l	98
15) Acrylonitrile	5.061	53	54478	97.084	ug/l	97
16) Acetone	3.866	43	47787	92.073	ug/l	97
17) Carbon Disulfide	4.104	76	159960	19.782	ug/l	98
18) Methyl Acetate	4.385	43	25160	19.560	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	116736	19.099	ug/l	99
20) Methylene Chloride	4.610	84	55574	19.525	ug/l	95
21) trans-1,2-Dichloroethene	5.110	96	53188	19.677	ug/l	96
22) Diisopropyl ether	6.019	45	162151	19.747	ug/l	96
23) Vinyl Acetate	5.958	43	468035	97.433	ug/l	99
24) 1,1-Dichloroethane	5.915	63	95841	19.520	ug/l	98
25) 2-Butanone	6.896	43	69856	94.233	ug/l	97
26) 2,2-Dichloropropane	6.884	77	83932	19.217	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	58567	19.266	ug/l	99
28) Bromochloromethane	7.238	49	39653	19.149	ug/l	99
29) Tetrahydrofuran	7.262	42	45146	94.626	ug/l	100
30) Chloroform	7.415	83	99390	19.462	ug/l	98
31) Cyclohexane	7.701	56	85377	19.075	ug/l	94
32) 1,1,1-Trichloroethane	7.616	97	89818	19.459	ug/l	99
36) 1,1-Dichloropropene	7.835	75	72566	19.697	ug/l	99
37) Ethyl Acetate	6.988	43	32313	18.585	ug/l	97
38) Carbon Tetrachloride	7.817	117	81472	19.308	ug/l	97
39) Methylcyclohexane	9.109	83	84802	19.269	ug/l	97
40) Benzene	8.079	78	213074	19.313	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
 Data File : VY021658.D
 Acq On : 27 Mar 2025 10:54
 Operator : SY/MD
 Sample : VSTDICC020
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 03/28/2025
 Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:15:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:08:57 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	16483	17.853	ug/l #	100
42) 1,2-Dichloroethane	8.158	62	59552	19.146	ug/l	99
43) Isopropyl Acetate	8.195	43	60795	18.451	ug/l #	87
44) Trichloroethene	8.866	130	54015	19.215	ug/l	95
45) 1,2-Dichloropropane	9.140	63	49850	19.088	ug/l	98
46) Dibromomethane	9.231	93	28698	19.067	ug/l	97
47) Bromodichloromethane	9.420	83	75123	19.262	ug/l	99
48) Methyl methacrylate	9.219	41	26759	17.695	ug/l	94
49) 1,4-Dioxane	9.225	88	6260	388.254	ug/l	98
51) 4-Methyl-2-Pentanone	10.000	43	163415	95.304	ug/l	98
52) Toluene	10.170	92	133126	19.340	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	65536	18.919	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	78753	19.271	ug/l	99
55) 1,1,2-Trichloroethane	10.573	97	37073	19.140	ug/l	98
56) Ethyl methacrylate	10.438	69	46833	18.936	ug/l	97
57) 1,3-Dichloropropane	10.719	76	65563	19.600	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	112947	93.615	ug/l	98
59) 2-Hexanone	10.762	43	107618	94.241	ug/l	99
60) Dibromochloromethane	10.908	129	50740	19.187	ug/l	100
61) 1,2-Dibromoethane	11.018	107	34293	18.874	ug/l	97
64) Tetrachloroethene	10.646	164	58923	19.897	ug/l	97
65) Chlorobenzene	11.444	112	144411	19.375	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.518	131	50703	19.173	ug/l	98
67) Ethyl Benzene	11.518	91	249430	19.515	ug/l	98
68) m/p-Xylenes	11.627	106	193566	39.549	ug/l	99
69) o-Xylene	11.957	106	87927	19.462	ug/l	98
70) Styrene	11.969	104	147490	19.580	ug/l	99
71) Bromoform	12.133	173	29726	19.706	ug/l #	100
73) Isopropylbenzene	12.255	105	234386	19.290	ug/l	100
74) N-amyl acetate	12.072	43	52342	18.355	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	40279	18.438	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	31855m	19.644	ug/l	
77) Bromobenzene	12.530	156	55776	19.119	ug/l	99
78) n-propylbenzene	12.597	91	284563	19.480	ug/l	100
79) 2-Chlorotoluene	12.682	91	165911	19.555	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	195141	19.651	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	13021	18.502	ug/l	97
82) 4-Chlorotoluene	12.780	91	173311	19.593	ug/l	100
83) tert-Butylbenzene	12.999	119	171216	19.357	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	193683	19.734	ug/l	99
85) sec-Butylbenzene	13.176	105	252573	19.540	ug/l	100
86) p-Isopropyltoluene	13.292	119	209041	19.567	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	111682	19.431	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	111508	19.636	ug/l	98
89) n-Butylbenzene	13.615	91	191838	19.416	ug/l	99
90) Hexachloroethane	13.877	117	44313	18.928	ug/l	98
91) 1,2-Dichlorobenzene	13.657	146	97912	19.569	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	6369	18.811	ug/l	95
93) 1,2,4-Trichlorobenzene	14.919	180	51474	18.971	ug/l	100
94) Hexachlorobutadiene	15.023	225	32055	18.916	ug/l	99
95) Naphthalene	15.145	128	82325	18.305	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	44047	19.037	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021658.D
Acq On : 27 Mar 2025 10:54
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:15:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

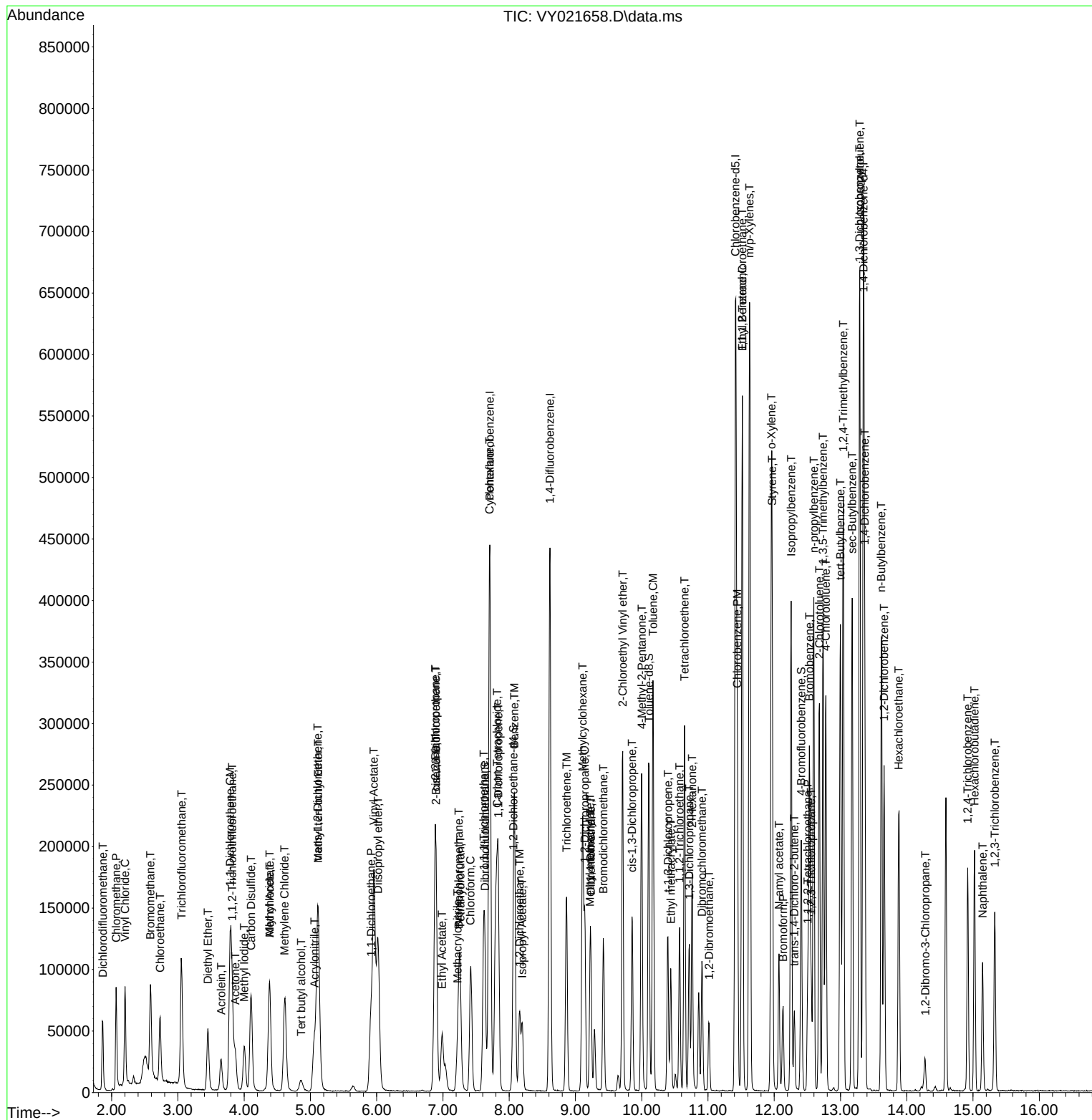
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
 Data File : VY021658.D
 Acq On : 27 Mar 2025 10:54
 Operator : SY/MD
 Sample : VSTDICC020
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC020

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
 Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:15:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:08:57 2025
 Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
 Data File : VY021659.D
 Acq On : 27 Mar 2025 11:16
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 03/28/2025
 Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:16:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:08:57 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.707	168	238234	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	369963	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	329626	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	167924	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	130485	50.552	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.100%			
35) Dibromofluoromethane	7.634	113	125415	52.259	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.520%			
50) Toluene-d8	10.109	98	483058	52.909	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 105.820%			
62) 4-Bromofluorobenzene	12.407	95	162384	52.583	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 105.160%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	120589	48.836	ug/l	100
3) Chloromethane	2.068	50	164961	47.510	ug/l	100
4) Vinyl Chloride	2.202	62	190491	48.513	ug/l	100
5) Bromomethane	2.592	94	122288	45.662	ug/l	100
6) Chloroethane	2.732	64	122027	47.492	ug/l	100
7) Trichlorofluoromethane	3.055	101	241339	47.980	ug/l	100
8) Diethyl Ether	3.452	74	65605	47.960	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.818	101	127763	48.159	ug/l	100
10) Methyl Iodide	4.007	142	156113	53.639	ug/l	100
11) Tert butyl alcohol	4.860	59	40298	240.362	ug/l	100
12) 1,1-Dichloroethene	3.787	96	122422	48.991	ug/l	100
13) Acrolein	3.647	56	75366	246.189	ug/l	100
14) Allyl chloride	4.385	41	199515	50.077	ug/l	100
15) Acrylonitrile	5.061	53	144175	252.430	ug/l	100
16) Acetone	3.872	43	127702	241.737	ug/l	100
17) Carbon Disulfide	4.104	76	404128	49.101	ug/l	100
18) Methyl Acetate	4.385	43	63249	48.309	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	315679	50.742	ug/l	100
20) Methylene Chloride	4.616	84	134344	52.136	ug/l	100
21) trans-1,2-Dichloroethene	5.116	96	135112	49.108	ug/l	100
22) Diisopropyl ether	6.018	45	428881	51.315	ug/l	100
23) Vinyl Acetate	5.957	43	1269853	259.718	ug/l	100
24) 1,1-Dichloroethane	5.915	63	247826	49.589	ug/l	100
25) 2-Butanone	6.896	43	189416	251.037	ug/l	100
26) 2,2-Dichloropropane	6.884	77	219131	49.293	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	155365	50.214	ug/l	100
28) Bromochloromethane	7.244	49	101413	48.116	ug/l	100
29) Tetrahydrofuran	7.262	42	125387	258.206	ug/l	100
30) Chloroform	7.421	83	257511	49.541	ug/l	100
31) Cyclohexane	7.701	56	218689	48.004	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	230441	49.051	ug/l	100
36) 1,1-Dichloropropene	7.835	75	185559	50.763	ug/l	100
37) Ethyl Acetate	6.988	43	87321	50.617	ug/l	100
38) Carbon Tetrachloride	7.823	117	208537	49.810	ug/l	100
39) Methylcyclohexane	9.109	83	229134	52.472	ug/l	100
40) Benzene	8.079	78	554462	50.649	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
 Data File : VY021659.D
 Acq On : 27 Mar 2025 11:16
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 03/28/2025
 Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:16:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:08:57 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.232	41	50658m	55.298	ug/l	
42) 1,2-Dichloroethane	8.158	62	155365	50.343	ug/l	100
43) Isopropyl Acetate	8.195	43	166982	51.076	ug/l	100
44) Trichloroethene	8.865	130	138449	49.637	ug/l	100
45) 1,2-Dichloropropane	9.140	63	130586	50.395	ug/l	100
46) Dibromomethane	9.231	93	73435	49.174	ug/l	100
47) Bromodichloromethane	9.420	83	194399	50.237	ug/l	100
48) Methyl methacrylate	9.219	41	77877	51.902	ug/l	100
49) 1,4-Dioxane	9.225	88	16481	1030.192	ug/l	100
51) 4-Methyl-2-Pentanone	9.999	43	445564	261.893	ug/l	100
52) Toluene	10.170	92	351715	51.496	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	179747	52.296	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	209143	51.579	ug/l	100
55) 1,1,2-Trichloroethane	10.572	97	96578	50.254	ug/l	100
56) Ethyl methacrylate	10.438	69	135272	55.124	ug/l	100
57) 1,3-Dichloropropane	10.719	76	170109	51.252	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	332369	277.643	ug/l	100
59) 2-Hexanone	10.761	43	302538	267.012	ug/l	100
60) Dibromochloromethane	10.908	129	134696	51.334	ug/l	100
61) 1,2-Dibromoethane	11.017	107	93866	52.067	ug/l	100
64) Tetrachloroethene	10.646	164	147971	49.288	ug/l	100
65) Chlorobenzene	11.444	112	380661	50.378	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.517	131	135660	50.602	ug/l	100
67) Ethyl Benzene	11.517	91	676205	52.188	ug/l	100
68) m/p-Xylenes	11.627	106	519154	104.634	ug/l	100
69) o-Xylene	11.956	106	243359	53.135	ug/l	100
70) Styrene	11.969	104	406215	53.195	ug/l	100
71) Bromoform	12.133	173	78206	51.140	ug/l	100
73) Isopropylbenzene	12.255	105	642393	51.505	ug/l	100
74) N-amyl acetate	12.072	43	154054	52.630	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.505	83	110292	49.185	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	83656m	50.257	ug/l	
77) Bromobenzene	12.529	156	149323	49.864	ug/l	100
78) n-propylbenzene	12.596	91	775252	51.702	ug/l	100
79) 2-Chlorotoluene	12.682	91	444178	51.001	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	528425	51.839	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	37240	51.550	ug/l	100
82) 4-Chlorotoluene	12.779	91	463024	50.995	ug/l	100
83) tert-Butylbenzene	12.999	119	467961	51.541	ug/l	100
84) 1,2,4-Trimethylbenzene	13.041	105	526387	52.248	ug/l	100
85) sec-Butylbenzene	13.176	105	687573	51.820	ug/l	100
86) p-Isopropyltoluene	13.291	119	576012	52.525	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	293534	49.752	ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	292315	50.147	ug/l	100
89) n-Butylbenzene	13.615	91	532897	52.544	ug/l	100
90) Hexachloroethane	13.877	117	118708	49.396	ug/l	100
91) 1,2-Dichlorobenzene	13.657	146	255877	49.821	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	17123	49.268	ug/l	100
93) 1,2,4-Trichlorobenzene	14.919	180	147434	52.935	ug/l	100
94) Hexachlorobutadiene	15.023	225	88090	50.642	ug/l	100
95) Naphthalene	15.145	128	253209	54.848	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	125294	52.754	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021659.D
Acq On : 27 Mar 2025 11:16
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:16:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

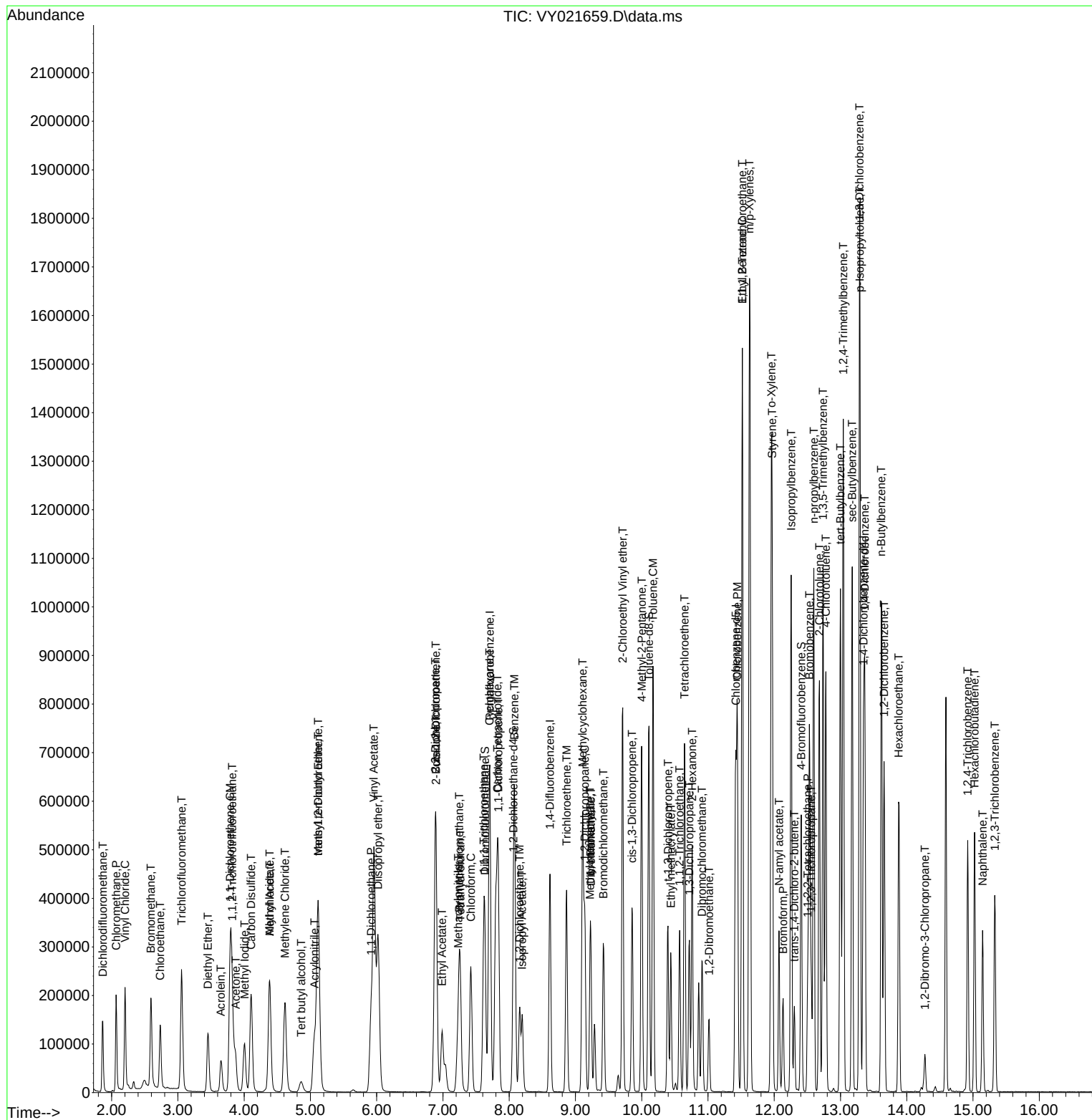
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
 Data File : VY021659.D
 Acq On : 27 Mar 2025 11:16
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
 Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:16:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:08:57 2025
 Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
 Data File : VY021660.D
 Acq On : 27 Mar 2025 11:39
 Operator : SY/MD
 Sample : VSTDICC100
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 03/28/2025
 Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:17:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:08:57 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.707	168	248041	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	380682	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	339201	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	168901	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	252968	94.129	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 188.260%#			
35) Dibromofluoromethane	7.634	113	247380	100.177	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 200.360%#			
50) Toluene-d8	10.103	98	953346	101.480	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 202.960%#			
62) 4-Bromofluorobenzene	12.408	95	322469	101.481	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 202.960%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.861	85	240555	93.569	ug/l	100
3) Chloromethane	2.068	50	333313	92.202	ug/l	100
4) Vinyl Chloride	2.202	62	375853	91.934	ug/l	100
5) Bromomethane	2.586	94	245057	87.885	ug/l	97
6) Chloroethane	2.733	64	242934	90.810	ug/l	97
7) Trichlorofluoromethane	3.056	101	479554	91.568	ug/l	97
8) Diethyl Ether	3.452	74	127148	89.276	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.812	101	252877	91.550	ug/l	100
10) Methyl Iodide	4.001	142	313241	103.371	ug/l	99
11) Tert butyl alcohol	4.854	59	72464	415.131	ug/l	97
12) 1,1-Dichloroethene	3.787	96	245873	94.504	ug/l	98
13) Acrolein	3.647	56	145527	456.581	ug/l	99
14) Allyl chloride	4.379	41	403587	97.292	ug/l	99
15) Acrylonitrile	5.061	53	269979	454.005	ug/l	99
16) Acetone	3.867	43	215263	391.376	ug/l	98
17) Carbon Disulfide	4.104	76	805100	93.952	ug/l	98
18) Methyl Acetate	4.379	43	120373	88.304	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	622864	96.160	ug/l	100
20) Methylene Chloride	4.616	84	257053	99.325	ug/l	97
21) trans-1,2-Dichloroethene	5.116	96	273524	95.485	ug/l	98
22) Diisopropyl ether	6.019	45	855783	98.345	ug/l	97
23) Vinyl Acetate	5.958	43	2490861	489.304	ug/l	99
24) 1,1-Dichloroethane	5.915	63	492205	94.595	ug/l	99
25) 2-Butanone	6.890	43	348017	442.999	ug/l	99
26) 2,2-Dichloropropane	6.884	77	439519	94.960	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	312849	97.115	ug/l	100
28) Bromochloromethane	7.244	49	208162	94.860	ug/l	99
29) Tetrahydrofuran	7.262	42	231439	457.752	ug/l	98
30) Chloroform	7.421	83	509194	94.087	ug/l	98
31) Cyclohexane	7.701	56	439720	92.706	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	460680	94.182	ug/l	99
36) 1,1-Dichloropropene	7.835	75	368741	98.035	ug/l	99
37) Ethyl Acetate	6.982	43	160700	90.529	ug/l	100
38) Carbon Tetrachloride	7.817	117	416779	96.746	ug/l	99
39) Methylcyclohexane	9.110	83	465789	103.663	ug/l	98
40) Benzene	8.079	78	1100425	97.692	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
 Data File : VY021660.D
 Acq On : 27 Mar 2025 11:39
 Operator : SY/MD
 Sample : VSTDICC100
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 03/28/2025
 Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:17:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:08:57 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.213	41	86888	92.176	ug/l	# 100
42) 1,2-Dichloroethane	8.158	62	298349	93.952	ug/l	100
43) Isopropyl Acetate	8.195	43	320092	95.153	ug/l	99
44) Trichloroethene	8.866	130	278937	97.190	ug/l	99
45) 1,2-Dichloropropane	9.140	63	259066	97.163	ug/l	99
46) Dibromomethane	9.231	93	145186	94.482	ug/l	97
47) Bromodichloromethane	9.420	83	386864	97.159	ug/l	99
48) Methyl methacrylate	9.219	41	157046	101.718	ug/l	98
49) 1,4-Dioxane	9.225	88	31647	1922.485	ug/l	92
51) 4-Methyl-2-Pentanone	10.000	43	846126	483.331	ug/l	100
52) Toluene	10.170	92	706197	100.486	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	361283	102.153	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	418099	100.208	ug/l	99
55) 1,1,2-Trichloroethane	10.573	97	187977	95.058	ug/l	97
56) Ethyl methacrylate	10.439	69	271036	107.339	ug/l	98
57) 1,3-Dichloropropane	10.719	76	329063	96.352	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	657953	534.142	ug/l	100
59) 2-Hexanone	10.762	43	565086	484.686	ug/l	99
60) Dibromochloromethane	10.908	129	265151	98.207	ug/l	100
61) 1,2-Dibromoethane	11.012	107	177158	95.501	ug/l	98
64) Tetrachloroethene	10.646	164	279279	90.401	ug/l	98
65) Chlorobenzene	11.438	112	757197	97.381	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.518	131	271119	98.275	ug/l	100
67) Ethyl Benzene	11.518	91	1372249	102.918	ug/l	100
68) m/p-Xylenes	11.627	106	1050156	205.681	ug/l	99
69) o-Xylene	11.957	106	491895	104.369	ug/l	98
70) Styrene	11.969	104	833734	106.098	ug/l	99
71) Bromoform	12.133	173	152683	97.024	ug/l	100
73) Isopropylbenzene	12.255	105	1298221	103.486	ug/l	100
74) N-amyl acetate	12.072	43	303328	103.027	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	209094	92.706	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	152979m	91.372	ug/l	
77) Bromobenzene	12.530	156	299163	99.323	ug/l	98
78) n-propylbenzene	12.597	91	1557825	103.290	ug/l	100
79) 2-Chlorotoluene	12.676	91	879334	100.382	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	1060963	103.480	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	71448	98.330	ug/l	99
82) 4-Chlorotoluene	12.780	91	910295	99.676	ug/l	99
83) tert-Butylbenzene	12.999	119	956705	104.762	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	1052663	103.880	ug/l	100
85) sec-Butylbenzene	13.176	105	1369601	102.624	ug/l	100
86) p-Isopropyltoluene	13.292	119	1163796	105.509	ug/l	100
87) 1,3-Dichlorobenzene	13.286	146	583838	98.384	ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	565293	96.416	ug/l	99
89) n-Butylbenzene	13.615	91	1069356	104.828	ug/l	100
90) Hexachloroethane	13.877	117	239487	99.078	ug/l	100
91) 1,2-Dichlorobenzene	13.657	146	502045	97.186	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	32558	93.136	ug/l	99
93) 1,2,4-Trichlorobenzene	14.919	180	293988	104.943	ug/l	99
94) Hexachlorobutadiene	15.023	225	172909	98.829	ug/l	99
95) Naphthalene	15.145	128	508449	109.498	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	248821	104.158	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021660.D
Acq On : 27 Mar 2025 11:39
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:17:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

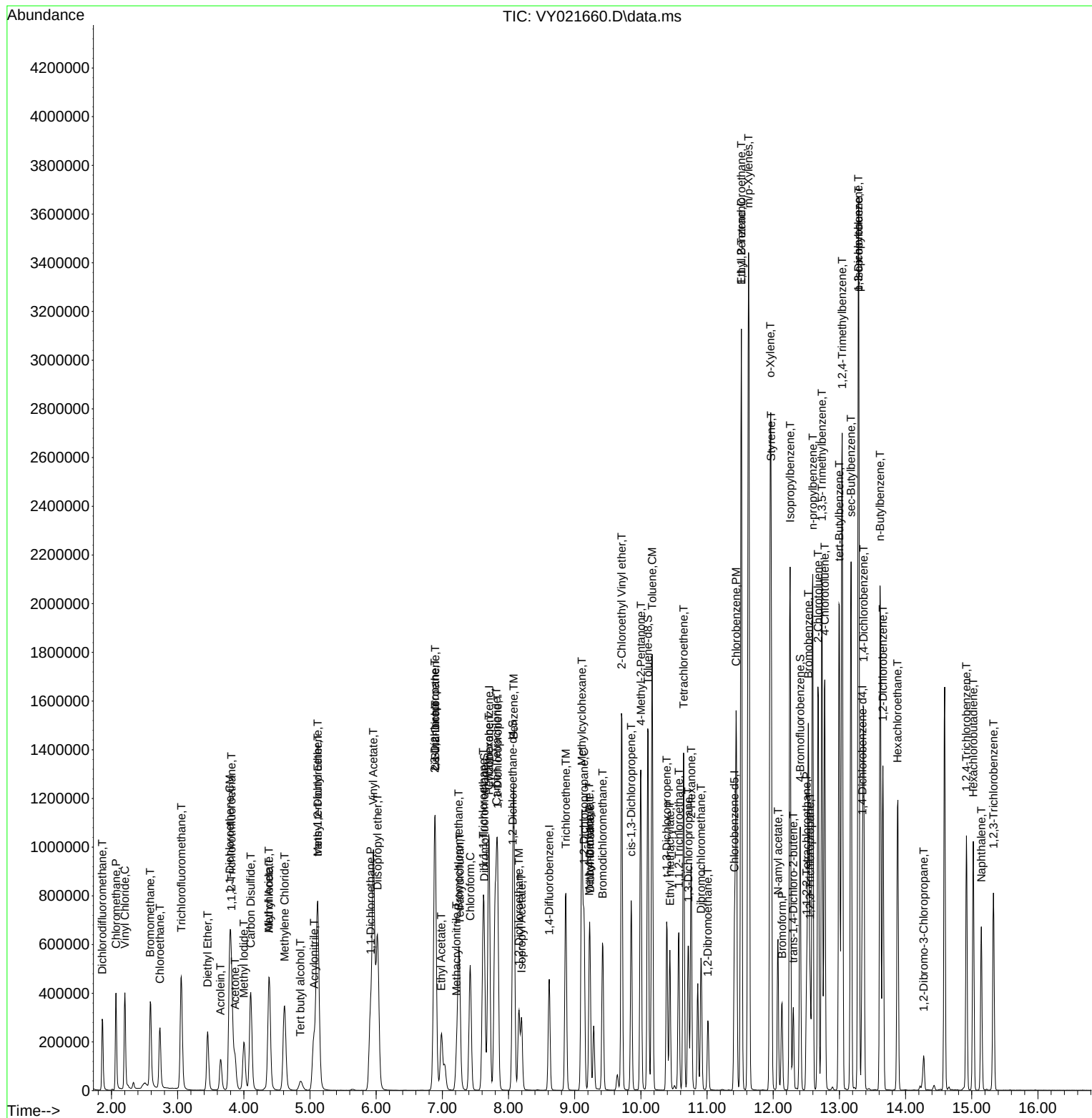
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
 Data File : VY021661.D
 Acq On : 27 Mar 2025 12:02
 Operator : SY/MD
 Sample : VSTDICC150
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 03/28/2025
 Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:18:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:08:57 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.707	168	259676	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	412304	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	367282	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	177289	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	404952	143.931	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 287.860%#	
35) Dibromofluoromethane	7.634	113	387439	144.862	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 289.720%#	
50) Toluene-d8	10.109	98	1485725	146.020	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 292.040%#	
62) 4-Bromofluorobenzene	12.408	95	503406	146.271	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 292.540%#	

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.861	85	348314	129.414	ug/l	99
3) Chloromethane	2.068	50	501654	132.551	ug/l	100
4) Vinyl Chloride	2.202	62	555909	129.884	ug/l	99
5) Bromomethane	2.580	94	394188	135.035	ug/l	99
6) Chloroethane	2.727	64	370633	132.337	ug/l	98
7) Trichlorofluoromethane	3.050	101	712314	129.919	ug/l	99
8) Diethyl Ether	3.452	74	206844	138.727	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.812	101	368788	127.532	ug/l	99
10) Methyl Iodide	4.001	142	483364	152.366	ug/l	99
11) Tert butyl alcohol	4.860	59	126577	692.642	ug/l	97
12) 1,1-Dichloroethene	3.787	96	371412	136.361	ug/l	97
13) Acrolein	3.647	56	236449	708.604	ug/l	99
14) Allyl chloride	4.379	41	623865	143.656	ug/l	100
15) Acrylonitrile	5.055	53	439757	706.375	ug/l	99
16) Acetone	3.867	43	395370	686.626	ug/l	99
17) Carbon Disulfide	4.104	76	1209296	134.797	ug/l	99
18) Methyl Acetate	4.379	43	199951	140.110	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	1006156	148.374	ug/l	98
20) Methylene Chloride	4.616	84	400434	149.840	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	417906	139.351	ug/l	98
22) Diisopropyl ether	6.019	45	1325167	145.463	ug/l	98
23) Vinyl Acetate	5.958	43	3993494	749.332	ug/l	99
24) 1,1-Dichloroethane	5.915	63	753930	138.403	ug/l	100
25) 2-Butanone	6.890	43	603028	733.215	ug/l	99
26) 2,2-Dichloropropane	6.884	77	678134	139.949	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	490349	145.395	ug/l	99
28) Bromochloromethane	7.244	49	313542	136.480	ug/l	99
29) Tetrahydrofuran	7.262	42	379413	716.799	ug/l	98
30) Chloroform	7.421	83	779319	137.548	ug/l	98
31) Cyclohexane	7.701	56	637533	128.388	ug/l	97
32) 1,1,1-Trichloroethane	7.616	97	696016	135.918	ug/l	99
36) 1,1-Dichloropropene	7.835	75	556974	136.722	ug/l	99
37) Ethyl Acetate	6.982	43	259188	134.812	ug/l	100
38) Carbon Tetrachloride	7.817	117	627331	134.452	ug/l	98
39) Methylcyclohexane	9.110	83	679694	139.666	ug/l	99
40) Benzene	8.079	78	1695962	139.014	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
 Data File : VY021661.D
 Acq On : 27 Mar 2025 12:02
 Operator : SY/MD
 Sample : VSTDICC150
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 03/28/2025
 Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:18:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:08:57 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	143387	140.447	ug/l #	100
42) 1,2-Dichloroethane	8.158	62	468317	136.165	ug/l	100
43) Isopropyl Acetate	8.195	43	527316	144.731	ug/l #	87
44) Trichloroethene	8.866	130	430629	138.536	ug/l	99
45) 1,2-Dichloropropane	9.140	63	401955	139.191	ug/l	99
46) Dibromomethane	9.231	93	228287	137.167	ug/l	98
47) Bromodichloromethane	9.420	83	598421	138.764	ug/l	98
48) Methyl methacrylate	9.219	41	251339	150.306	ug/l	99
49) 1,4-Dioxane	9.225	88	53338	2991.658	ug/l	94
51) 4-Methyl-2-Pentanone	10.000	43	1397678	737.160	ug/l	100
52) Toluene	10.170	92	1094229	143.758	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	570388	148.908	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	660476	146.159	ug/l	100
55) 1,1,2-Trichloroethane	10.573	97	296412	138.396	ug/l	99
56) Ethyl methacrylate	10.439	69	443517	162.176	ug/l	98
57) 1,3-Dichloropropane	10.719	76	517706	139.961	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	1061779	795.867	ug/l	100
59) 2-Hexanone	10.762	43	955051	756.341	ug/l	99
60) Dibromochloromethane	10.908	129	417230	142.682	ug/l	99
61) 1,2-Dibromoethane	11.018	107	283453	141.082	ug/l	98
64) Tetrachloroethene	10.646	164	421368	125.966	ug/l	98
65) Chlorobenzene	11.444	112	1182770	140.483	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.518	131	420924	140.910	ug/l	100
67) Ethyl Benzene	11.518	91	2131884	147.665	ug/l	100
68) m/p-Xylenes	11.627	106	1610305	291.277	ug/l	100
69) o-Xylene	11.957	106	764721	149.852	ug/l	98
70) Styrene	11.969	104	1300778	152.877	ug/l	99
71) Bromoform	12.133	173	244045	143.224	ug/l #	99
73) Isopropylbenzene	12.255	105	1969094	149.537	ug/l	99
74) N-amyl acetate	12.072	43	498903	161.437	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	335483	141.706	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	249855m	142.174	ug/l	
77) Bromobenzene	12.530	156	461221	145.881	ug/l	99
78) n-propylbenzene	12.597	91	2344286	148.082	ug/l	100
79) 2-Chlorotoluene	12.682	91	1343328	146.095	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	1607812	149.397	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	119086	156.137	ug/l	99
82) 4-Chlorotoluene	12.780	91	1386233	144.608	ug/l	100
83) tert-Butylbenzene	12.999	119	1444053	150.647	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	1616812	152.003	ug/l	100
85) sec-Butylbenzene	13.176	105	2052157	146.493	ug/l	99
86) p-Isopropyltoluene	13.292	119	1769866	152.863	ug/l	100
87) 1,3-Dichlorobenzene	13.286	146	898070	144.177	ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	864599	140.489	ug/l	99
89) n-Butylbenzene	13.615	91	1609064	150.273	ug/l	99
90) Hexachloroethane	13.883	117	363244	143.167	ug/l	98
91) 1,2-Dichlorobenzene	13.657	146	779021	143.668	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	54066	147.345	ug/l	98
93) 1,2,4-Trichlorobenzene	14.919	180	472845	160.803	ug/l	99
94) Hexachlorobutadiene	15.023	225	261678	142.491	ug/l	98
95) Naphthalene	15.145	128	859499	176.342	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	400315	159.646	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021661.D
Acq On : 27 Mar 2025 12:02
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:18:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

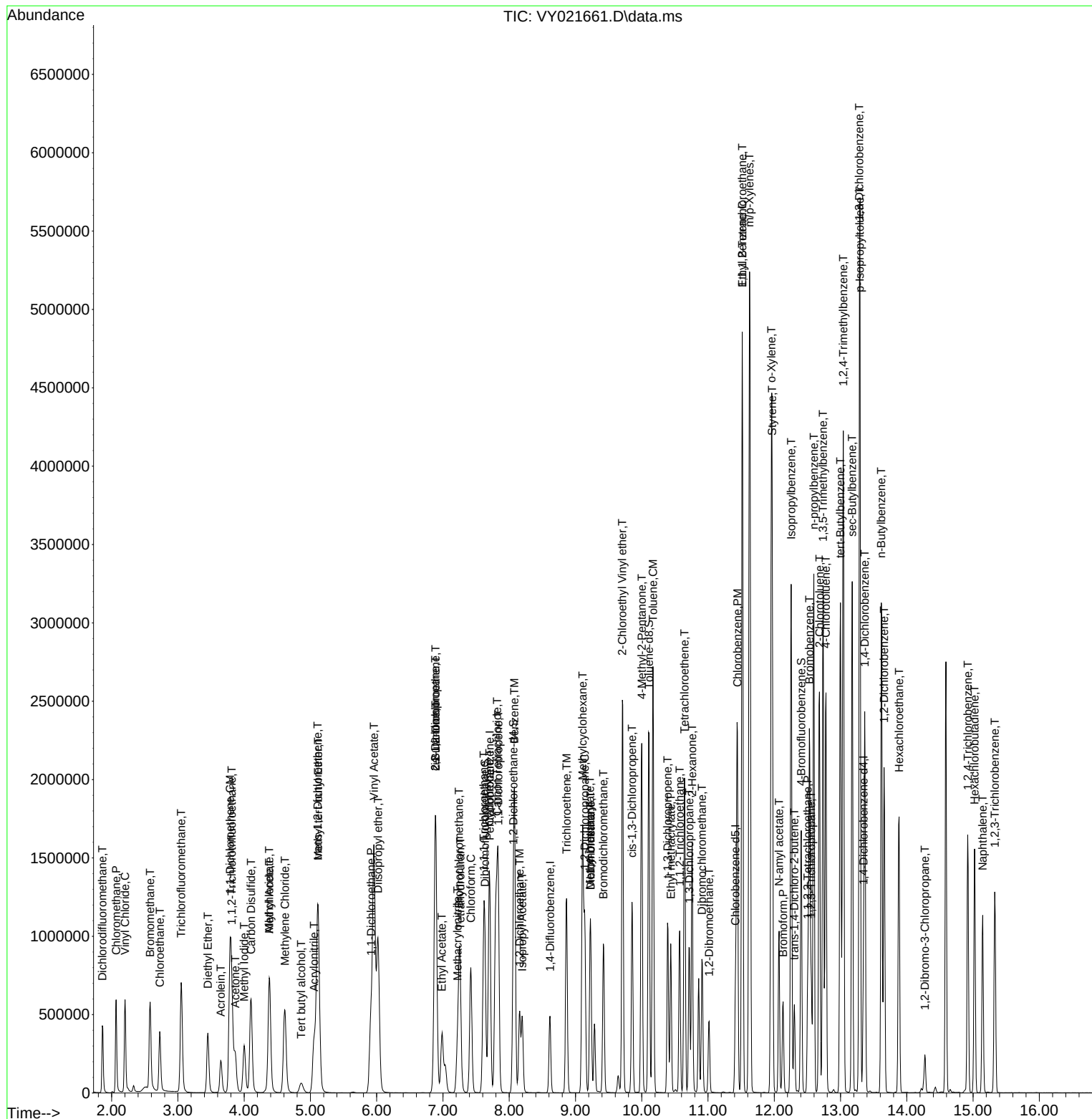
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
 Data File : VY021661.D
 Acq On : 27 Mar 2025 12:02
 Operator : SY/MD
 Sample : VSTDICC150
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC150

Quant Time: Mar 28 02:18:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:08:57 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
 Supervised By :Mahesh Dadoda 03/28/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
 Data File : VY021663.D
 Acq On : 27 Mar 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY032725

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 03/28/2025
 Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 03:48:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.707	168	241281	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	378246	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	335061	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	166949	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	137385	52.553	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 105.100%	
35) Dibromofluoromethane	7.634	113	133092	54.243	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 108.480%	
50) Toluene-d8	10.109	98	514482	55.117	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 110.240%	
62) 4-Bromofluorobenzene	12.407	95	174721	55.339	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 110.680%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	121620	48.632	ug/l	99
3) Chloromethane	2.068	50	178572	50.781	ug/l	99
4) Vinyl Chloride	2.202	62	193909	48.759	ug/l	99
5) Bromomethane	2.592	94	133650	49.274	ug/l	99
6) Chloroethane	2.732	64	131646	50.589	ug/l	98
7) Trichlorofluoromethane	3.055	101	264850	51.989	ug/l	96
8) Diethyl Ether	3.458	74	71773	51.807	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.817	101	129542	48.213	ug/l	97
10) Methyl Iodide	4.006	142	144020	48.859	ug/l	99
11) Tert butyl alcohol	4.860	59	40598	239.093	ug/l	98
12) 1,1-Dichloroethene	3.787	96	123904	48.958	ug/l	99
13) Acrolein	3.653	56	77430	249.738	ug/l	100
14) Allyl chloride	4.384	41	203289	50.380	ug/l	99
15) Acrylonitrile	5.061	53	142349	246.085	ug/l	99
16) Acetone	3.866	43	125654	234.856	ug/l	99
17) Carbon Disulfide	4.104	76	412021	49.428	ug/l	99
18) Methyl Acetate	4.384	43	64580	48.703	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	318579	50.561	ug/l	97
20) Methylene Chloride	4.616	84	139443	53.536	ug/l	95
21) trans-1,2-Dichloroethene	5.116	96	139842	50.186	ug/l	95
22) Diisopropyl ether	6.018	45	434011	51.273	ug/l	98
23) Vinyl Acetate	5.957	43	1270842	256.638	ug/l	98
24) 1,1-Dichloroethane	5.915	63	253080	50.001	ug/l	99
25) 2-Butanone	6.890	43	184108	240.921	ug/l	99
26) 2,2-Dichloropropane	6.884	77	221076	49.103	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	159206	50.806	ug/l	99
28) Bromochloromethane	7.244	49	107500	50.360	ug/l	98
29) Tetrahydrofuran	7.262	42	121613	247.271	ug/l	99
30) Chloroform	7.420	83	260540	49.490	ug/l	100
31) Cyclohexane	7.701	56	220748	47.844	ug/l	97
32) 1,1,1-Trichloroethane	7.615	97	234663	49.319	ug/l	99
36) 1,1-Dichloropropene	7.835	75	188082	50.326	ug/l	100
37) Ethyl Acetate	6.981	43	86681	49.145	ug/l	99
38) Carbon Tetrachloride	7.817	117	213223	49.814	ug/l	99
39) Methylcyclohexane	9.109	83	231457	51.843	ug/l	96
40) Benzene	8.079	78	566027	50.574	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
 Data File : VY021663.D
 Acq On : 27 Mar 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY032725

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 03/28/2025
 Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 03:48:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.219	41	44469	47.475	ug/l #	100
42) 1,2-Dichloroethane	8.158	62	156359	49.556	ug/l	99
43) Isopropyl Acetate	8.195	43	167476	50.106	ug/l #	87
44) Trichloroethene	8.865	130	142392	49.933	ug/l	98
45) 1,2-Dichloropropane	9.140	63	132882	50.158	ug/l	95
46) Dibromomethane	9.231	93	76421	50.052	ug/l	98
47) Bromodichloromethane	9.426	83	199912	50.530	ug/l	99
48) Methyl methacrylate	9.219	41	79887	52.076	ug/l	98
49) 1,4-Dioxane	9.225	88	16464	1006.593	ug/l	90
51) 4-Methyl-2-Pentanone	9.999	43	439879	252.890	ug/l	100
52) Toluene	10.170	92	360002	51.555	ug/l	99
53) t-1,3-Dichloropropene	10.395	75	179752	51.152	ug/l	98
54) cis-1,3-Dichloropropene	9.859	75	212066	51.154	ug/l	98
55) 1,1,2-Trichloroethane	10.572	97	97567	49.656	ug/l	99
56) Ethyl methacrylate	10.438	69	136411	54.371	ug/l	98
57) 1,3-Dichloropropane	10.719	76	171579	50.563	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	338673	276.714	ug/l	99
59) 2-Hexanone	10.761	43	295472	255.065	ug/l	99
60) Dibromochloromethane	10.914	129	135955	50.679	ug/l	100
61) 1,2-Dibromoethane	11.017	107	93947	50.970	ug/l	99
64) Tetrachloroethene	10.645	164	145736	47.757	ug/l	98
65) Chlorobenzene	11.444	112	386987	50.384	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.517	131	138442	50.802	ug/l	99
67) Ethyl Benzene	11.517	91	689434	52.346	ug/l	100
68) m/p-Xylenes	11.627	106	531589	105.402	ug/l	100
69) o-Xylene	11.956	106	247091	53.075	ug/l	99
70) Styrene	11.968	104	416261	53.627	ug/l	99
71) Bromoform	12.133	173	78932	50.778	ug/l #	99
73) Isopropylbenzene	12.255	105	653541	52.705	ug/l	100
74) N-amyl acetate	12.072	43	152268	52.323	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.511	83	109833	49.266	ug/l	99
76) 1,2,3-Trichloropropane	12.560	75	70644m	42.688	ug/l	
77) Bromobenzene	12.535	156	152211	51.125	ug/l	99
78) n-propylbenzene	12.596	91	792814	53.182	ug/l	100
79) 2-Chlorotoluene	12.682	91	447402	51.671	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	539512	53.236	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	35543	49.488	ug/l	97
82) 4-Chlorotoluene	12.779	91	469122	51.969	ug/l	100
83) tert-Butylbenzene	12.999	119	474947	52.616	ug/l	100
84) 1,2,4-Trimethylbenzene	13.041	105	535411	53.454	ug/l	100
85) sec-Butylbenzene	13.175	105	692180	52.471	ug/l	100
86) p-Isopropyltoluene	13.291	119	583069	53.479	ug/l	100
87) 1,3-Dichlorobenzene	13.291	146	299075	50.987	ug/l	100
88) 1,4-Dichlorobenzene	13.371	146	288264	49.741	ug/l	99
89) n-Butylbenzene	13.621	91	533666	52.927	ug/l	100
90) Hexachloroethane	13.883	117	120546	50.454	ug/l	100
91) 1,2-Dichlorobenzene	13.663	146	257071	50.346	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	16750	48.476	ug/l	99
93) 1,2,4-Trichlorobenzene	14.925	180	142409	51.429	ug/l	100
94) Hexachlorobutadiene	15.029	225	86891	50.245	ug/l	96
95) Naphthalene	15.145	128	237561	51.759	ug/l	100
96) 1,2,3-Trichlorobenzene	15.334	180	119575	50.640	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021663.D
Acq On : 27 Mar 2025 13:15
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 03:48:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

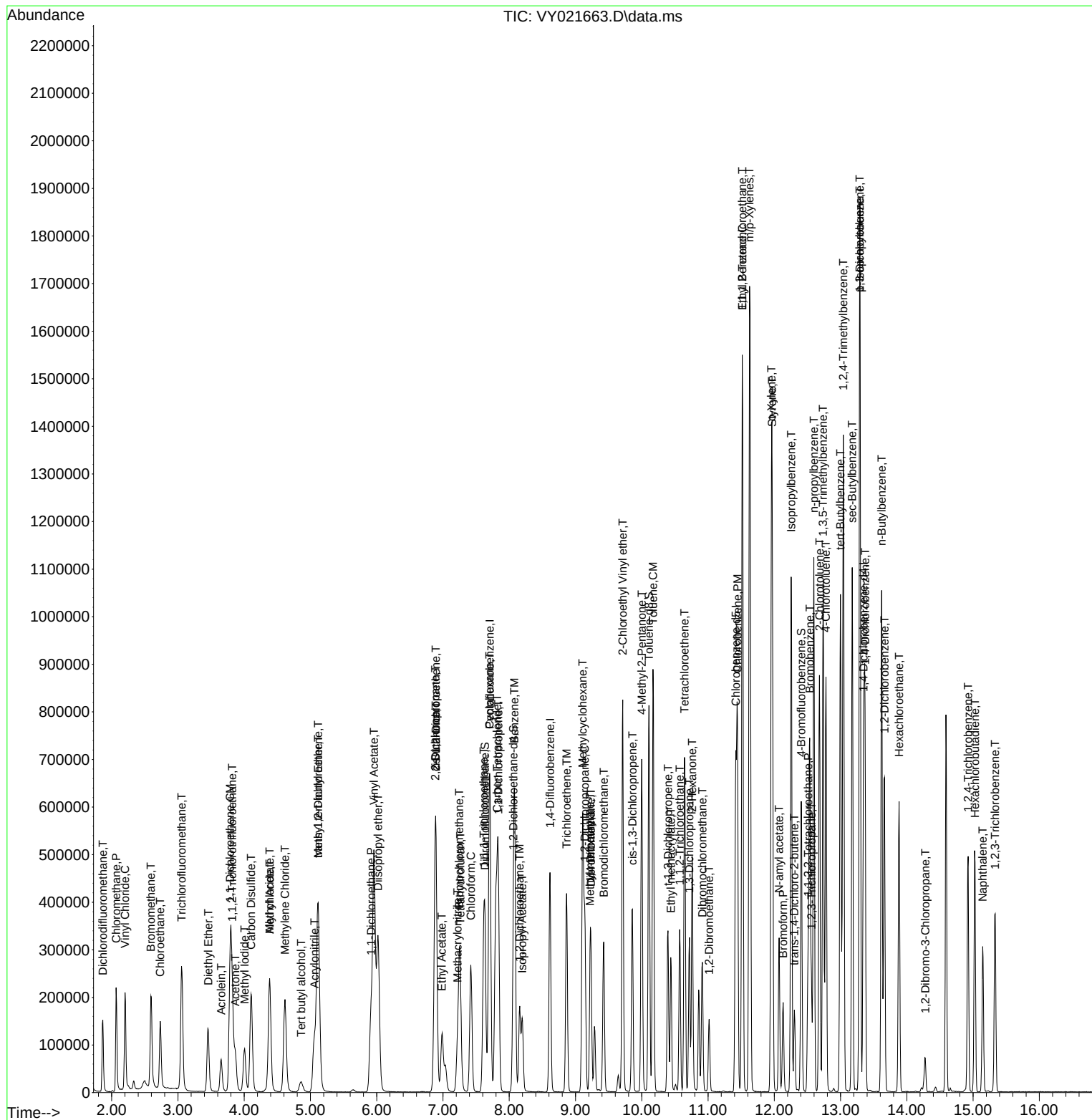
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021663.D
Acq On : 27 Mar 2025 13:15
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
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ClientSampleId :
ICVY032725

Manual Integrations APPROVED

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
 Data File : VY021663.D
 Acq On : 27 Mar 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
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Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY032725

Quant Time: Mar 28 03:48:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	101	0.00
2 T	Dichlorodifluoromethane	0.518	0.504	2.7	101	0.00
3 P	Chloromethane	0.729	0.740	-1.5	108	0.00
4 C	Vinyl Chloride	0.824	0.804	2.4#	102	0.00
5 T	Bromomethane	0.562	0.554	1.4	109	0.00
6 T	Chloroethane	0.539	0.546	-1.3	108	0.00
7 T	Trichlorofluoromethane	1.056	1.098	-4.0	110	0.00
8 T	Diethyl Ether	0.287	0.297	-3.5	109	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.557	0.537	3.6	101	0.00
10 T	Methyl Iodide	0.611	0.597	2.3	92	0.00
11 T	Tert butyl alcohol	0.035	0.034	2.9	101	0.00
12 CM	1,1-Dichloroethene	0.524	0.514	1.9#	101	0.00
13 T	Acrolein	0.064	0.064	0.0	103	0.00
14 T	Allyl chloride	0.836	0.843	-0.8	102	0.00
15 T	Acrylonitrile	0.120	0.118	1.7	99	0.00
16 T	Acetone	0.111	0.104	6.3	98	0.00
17 T	Carbon Disulfide	1.727	1.708	1.1	102	0.00
18 T	Methyl Acetate	0.275	0.268	2.5	102	0.00
19 T	Methyl tert-butyl Ether	1.306	1.320	-1.1	101	0.00
20 T	Methylene Chloride	0.626	0.578	7.7	104	0.00
21 T	trans-1,2-Dichloroethene	0.577	0.580	-0.5	104	0.00
22 T	Diisopropyl ether	1.754	1.799	-2.6	101	0.00
23 T	Vinyl Acetate	1.026	1.053	-2.6	100	0.00
24 P	1,1-Dichloroethane	1.049	1.049	0.0	102	0.00
25 T	2-Butanone	0.158	0.153	3.2	97	0.00
26 T	2,2-Dichloropropane	0.933	0.916	1.8	101	0.00
27 T	cis-1,2-Dichloroethene	0.649	0.660	-1.7	102	0.00
28 T	Bromochloromethane	0.442	0.446	-0.9	106	0.00
29 T	Tetrahydrofuran	0.102	0.101	1.0	97	0.00
30 C	Chloroform	1.091	1.080	1.0#	101	0.00
31 T	Cyclohexane	0.956	0.915	4.3	101	0.00
32 T	1,1,1-Trichloroethane	0.986	0.973	1.3	102	0.00
33 S	1,2-Dichloroethane-d4	0.542	0.569	-5.0	105	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	102	0.00
35 S	Dibromofluoromethane	0.324	0.352	-8.6	106	0.00
36 T	1,1-Dichloropropene	0.494	0.497	-0.6	101	0.00
37 T	Ethyl Acetate	0.233	0.229	1.7	99	0.00
38 T	Carbon Tetrachloride	0.566	0.564	0.4	102	0.00
39 T	Methylcyclohexane	0.590	0.612	-3.7	101	0.00
40 TM	Benzene	1.479	1.496	-1.1	102	0.00
41 T	Methacrylonitrile	0.124	0.118	4.8	88	-0.01
42 TM	1,2-Dichloroethane	0.417	0.413	1.0	101	0.00
43 T	Isopropyl Acetate	0.442	0.443	-0.2	100	0.00
44 TM	Trichloroethene	0.377	0.376	0.3	103	0.00
45 C	1,2-Dichloropropane	0.350	0.351	-0.3#	102	0.00
46 T	Dibromomethane	0.202	0.202	0.0	104	0.00
47 T	Bromodichloromethane	0.523	0.529	-1.1	103	0.00
48 T	Methyl methacrylate	0.203	0.211	-3.9	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
 Data File : VY021663.D
 Acq On : 27 Mar 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICSVY032725

Quant Time: Mar 28 03:48:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.002	0.002	0.0	100	0.00
50 S	Toluene-d8	1.234	1.360	-10.2	107	0.00
51 T	4-Methyl-2-Pentanone	0.230	0.233	-1.3	99	0.00
52 CM	Toluene	0.923	0.952	-3.1#	102	0.00
53 T	t-1,3-Dichloropropene	0.465	0.475	-2.2	100	0.00
54 T	cis-1,3-Dichloropropene	0.548	0.561	-2.4	101	0.00
55 T	1,1,2-Trichloroethane	0.260	0.258	0.8	101	0.00
56 T	Ethyl methacrylate	0.332	0.361	-8.7	101	0.00
57 T	1,3-Dichloropropane	0.449	0.454	-1.1	101	0.00
58 T	2-Chloroethyl Vinyl ether	0.162	0.179	-10.5	102	0.00
59 T	2-Hexanone	0.153	0.156	-2.0	98	0.00
60 T	Dibromochloromethane	0.355	0.359	-1.1	101	0.00
61 T	1,2-Dibromoethane	0.244	0.248	-1.6	100	0.00
62 S	4-Bromofluorobenzene	0.417	0.462	-10.8	108	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00
64 T	Tetrachloroethene	0.455	0.435	4.4	98	0.00
65 PM	Chlorobenzene	1.146	1.155	-0.8	102	0.00
66 T	1,1,1,2-Tetrachloroethane	0.407	0.413	-1.5	102	0.00
67 C	Ethyl Benzene	1.965	2.058	-4.7#	102	0.00
68 T	m/p-Xylenes	0.753	0.793	-5.3	102	0.00
69 T	o-Xylene	0.695	0.737	-6.0	102	0.00
70 T	Styrene	1.158	1.242	-7.3	102	0.00
71 P	Bromoform	0.232	0.236	-1.7	101	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00
73 T	Isopropylbenzene	3.714	3.915	-5.4	102	0.00
74 T	N-amyl acetate	0.872	0.912	-4.6	99	0.00
75 P	1,1,2,2-Tetrachloroethane	0.668	0.658	1.5	100	0.00
76 T	1,2,3-Trichloropropane	0.496	0.423	14.7	84	0.00
77 T	Bromobenzene	0.892	0.912	-2.2	102	0.00
78 T	n-propylbenzene	4.465	4.749	-6.4	102	0.00
79 T	2-Chlorotoluene	2.593	2.680	-3.4	101	0.00
80 T	1,3,5-Trimethylbenzene	3.035	3.232	-6.5	102	0.00
81 T	trans-1,4-Dichloro-2-butene	0.215	0.213	0.9	95	0.00
82 T	4-Chlorotoluene	2.704	2.810	-3.9	101	0.00
83 T	tert-Butylbenzene	2.703	2.845	-5.3	101	0.00
84 T	1,2,4-Trimethylbenzene	3.000	3.207	-6.9	102	0.00
85 T	sec-Butylbenzene	3.951	4.146	-4.9	101	0.00
86 T	p-Isopropyltoluene	3.265	3.492	-7.0	101	0.00
87 T	1,3-Dichlorobenzene	1.757	1.791	-1.9	102	0.00
88 T	1,4-Dichlorobenzene	1.736	1.727	0.5	99	0.00
89 T	n-Butylbenzene	3.020	3.197	-5.9	100	0.00
90 T	Hexachloroethane	0.716	0.722	-0.8	102	0.00
91 T	1,2-Dichlorobenzene	1.529	1.540	-0.7	100	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.103	0.100	2.9	98	0.00
93 T	1,2,4-Trichlorobenzene	0.829	0.853	-2.9	97	0.00
94 T	Hexachlorobutadiene	0.518	0.520	-0.4	99	0.00
95 T	Naphthalene	1.375	1.423	-3.5	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021663.D
Acq On : 27 Mar 2025 13:15
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Quant Time: Mar 28 03:48:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.707	0.716	-1.3	95	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
 Data File : VY021663.D
 Acq On : 27 Mar 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY032725

Quant Time: Mar 28 03:48:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	101	0.00
2 T	Dichlorodifluoromethane	50.000	48.632	2.7	101	0.00
3 P	Chloromethane	50.000	50.781	-1.6	108	0.00
4 C	Vinyl Chloride	50.000	48.759	2.5#	102	0.00
5 T	Bromomethane	50.000	49.274	1.5	109	0.00
6 T	Chloroethane	50.000	50.589	-1.2	108	0.00
7 T	Trichlorofluoromethane	50.000	51.989	-4.0	110	0.00
8 T	Diethyl Ether	50.000	51.807	-3.6	109	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	48.213	3.6	101	0.00
10 T	Methyl Iodide	50.000	48.859	2.3	92	0.00
11 T	Tert butyl alcohol	250.000	239.093	4.4	101	0.00
12 CM	1,1-Dichloroethene	50.000	48.958	2.1#	101	0.00
13 T	Acrolein	250.000	249.738	0.1	103	0.00
14 T	Allyl chloride	50.000	50.380	-0.8	102	0.00
15 T	Acrylonitrile	250.000	246.085	1.6	99	0.00
16 T	Acetone	250.000	234.856	6.1	98	0.00
17 T	Carbon Disulfide	50.000	49.428	1.1	102	0.00
18 T	Methyl Acetate	50.000	48.703	2.6	102	0.00
19 T	Methyl tert-butyl Ether	50.000	50.561	-1.1	101	0.00
20 T	Methylene Chloride	50.000	53.536	-7.1	104	0.00
21 T	trans-1,2-Dichloroethene	50.000	50.186	-0.4	104	0.00
22 T	Diisopropyl ether	50.000	51.273	-2.5	101	0.00
23 T	Vinyl Acetate	250.000	256.638	-2.7	100	0.00
24 P	1,1-Dichloroethane	50.000	50.001	-0.0	102	0.00
25 T	2-Butanone	250.000	240.921	3.6	97	0.00
26 T	2,2-Dichloropropane	50.000	49.103	1.8	101	0.00
27 T	cis-1,2-Dichloroethene	50.000	50.806	-1.6	102	0.00
28 T	Bromochloromethane	50.000	50.360	-0.7	106	0.00
29 T	Tetrahydrofuran	250.000	247.271	1.1	97	0.00
30 C	Chloroform	50.000	49.490	1.0#	101	0.00
31 T	Cyclohexane	50.000	47.844	4.3	101	0.00
32 T	1,1,1-Trichloroethane	50.000	49.319	1.4	102	0.00
33 S	1,2-Dichloroethane-d4	50.000	52.553	-5.1	105	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	102	0.00
35 S	Dibromofluoromethane	50.000	54.243	-8.5	106	0.00
36 T	1,1-Dichloropropene	50.000	50.326	-0.7	101	0.00
37 T	Ethyl Acetate	50.000	49.145	1.7	99	0.00
38 T	Carbon Tetrachloride	50.000	49.814	0.4	102	0.00
39 T	Methylcyclohexane	50.000	51.843	-3.7	101	0.00
40 TM	Benzene	50.000	50.574	-1.1	102	0.00
41 T	Methacrylonitrile	50.000	47.475	5.0	88	-0.01
42 TM	1,2-Dichloroethane	50.000	49.556	0.9	101	0.00
43 T	Isopropyl Acetate	50.000	50.106	-0.2	100	0.00
44 TM	Trichloroethene	50.000	49.933	0.1	103	0.00
45 C	1,2-Dichloropropane	50.000	50.158	-0.3#	102	0.00
46 T	Dibromomethane	50.000	50.052	-0.1	104	0.00
47 T	Bromodichloromethane	50.000	50.530	-1.1	103	0.00
48 T	Methyl methacrylate	50.000	52.076	-4.2	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
 Data File : VY021663.D
 Acq On : 27 Mar 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICSVY032725

Quant Time: Mar 28 03:48:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	1006.593	-0.7	100	0.00
50 S	Toluene-d8	50.000	55.117	-10.2	107	0.00
51 T	4-Methyl-2-Pentanone	250.000	252.890	-1.2	99	0.00
52 CM	Toluene	50.000	51.555	-3.1#	102	0.00
53 T	t-1,3-Dichloropropene	50.000	51.152	-2.3	100	0.00
54 T	cis-1,3-Dichloropropene	50.000	51.154	-2.3	101	0.00
55 T	1,1,2-Trichloroethane	50.000	49.656	0.7	101	0.00
56 T	Ethyl methacrylate	50.000	54.371	-8.7	101	0.00
57 T	1,3-Dichloropropane	50.000	50.563	-1.1	101	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	276.714	-10.7	102	0.00
59 T	2-Hexanone	250.000	255.065	-2.0	98	0.00
60 T	Dibromochloromethane	50.000	50.679	-1.4	101	0.00
61 T	1,2-Dibromoethane	50.000	50.970	-1.9	100	0.00
62 S	4-Bromofluorobenzene	50.000	55.339	-10.7	108	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	102	0.00
64 T	Tetrachloroethene	50.000	47.757	4.5	98	0.00
65 PM	Chlorobenzene	50.000	50.384	-0.8	102	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	50.802	-1.6	102	0.00
67 C	Ethyl Benzene	50.000	52.346	-4.7#	102	0.00
68 T	m/p-Xylenes	100.000	105.402	-5.4	102	0.00
69 T	o-Xylene	50.000	53.075	-6.2	102	0.00
70 T	Styrene	50.000	53.627	-7.3	102	0.00
71 P	Bromoform	50.000	50.778	-1.6	101	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	99	0.00
73 T	Isopropylbenzene	50.000	52.705	-5.4	102	0.00
74 T	N-amyl acetate	50.000	52.323	-4.6	99	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	49.266	1.5	100	0.00
76 T	1,2,3-Trichloropropane	50.000	42.688	14.6	84	0.00
77 T	Bromobenzene	50.000	51.125	-2.3	102	0.00
78 T	n-propylbenzene	50.000	53.182	-6.4	102	0.00
79 T	2-Chlorotoluene	50.000	51.671	-3.3	101	0.00
80 T	1,3,5-Trimethylbenzene	50.000	53.236	-6.5	102	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	49.488	1.0	95	0.00
82 T	4-Chlorotoluene	50.000	51.969	-3.9	101	0.00
83 T	tert-Butylbenzene	50.000	52.616	-5.2	101	0.00
84 T	1,2,4-Trimethylbenzene	50.000	53.454	-6.9	102	0.00
85 T	sec-Butylbenzene	50.000	52.471	-4.9	101	0.00
86 T	p-Isopropyltoluene	50.000	53.479	-7.0	101	0.00
87 T	1,3-Dichlorobenzene	50.000	50.987	-2.0	102	0.00
88 T	1,4-Dichlorobenzene	50.000	49.741	0.5	99	0.00
89 T	n-Butylbenzene	50.000	52.927	-5.9	100	0.00
90 T	Hexachloroethane	50.000	50.454	-0.9	102	0.00
91 T	1,2-Dichlorobenzene	50.000	50.346	-0.7	100	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	48.476	3.0	98	0.00
93 T	1,2,4-Trichlorobenzene	50.000	51.429	-2.9	97	0.00
94 T	Hexachlorobutadiene	50.000	50.245	-0.5	99	0.00
95 T	Naphthalene	50.000	51.759	-3.5	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021663.D
Acq On : 27 Mar 2025 13:15
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Quant Time: Mar 28 03:48:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	50.640	-1.3	95	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: MSVOA_X Calibration Date/Time: 04/07/2025 09:17

Lab File ID: VX045614.D Init. Calib. Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 17:06 19:02

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.748	0.831		11.1	20
Chloromethane	0.768	0.766	0.1	-0.26	20
Vinyl Chloride	0.703	0.707		0.57	20
Bromomethane	0.333	0.313		-6.01	20
Chloroethane	0.373	0.377		1.07	20
Trichlorofluoromethane	1.048	1.067		1.81	20
1,1,2-Trichlorotrifluoroethane	0.614	0.640		4.24	20
1,1-Dichloroethene	0.600	0.585		-2.5	20
Acetone	0.375	0.452		20.53	20
Carbon Disulfide	1.483	1.472		-0.74	20
Methyl tert-butyl Ether	2.100	2.074		-1.24	20
Methyl Acetate	0.864	0.870		0.69	20
Methylene Chloride	0.703	0.671		-4.55	20
trans-1,2-Dichloroethene	0.613	0.591		-3.59	20
1,1-Dichloroethane	1.269	1.210	0.1	-4.65	20
Cyclohexane	1.122	1.080		-3.74	20
2-Butanone	0.550	0.578		5.09	20
Carbon Tetrachloride	0.518	0.538		3.86	20
cis-1,2-Dichloroethene	0.747	0.708		-5.22	20
Bromochloromethane	0.613	0.575		-6.2	20
Chloroform	1.306	1.259		-3.6	20
1,1,1-Trichloroethane	1.105	1.091		-1.27	20
Methylcyclohexane	0.587	0.628		6.99	20
Benzene	1.463	1.436		-1.85	20
1,2-Dichloroethane	0.604	0.605		0.17	20
Trichloroethene	0.348	0.346		-0.57	20
1,2-Dichloropropane	0.365	0.363		-0.55	20
Bromodichloromethane	0.560	0.581		3.75	20
4-Methyl-2-Pentanone	0.606	0.625		3.13	20
Toluene	0.885	0.881		-0.45	20
t-1,3-Dichloropropene	0.467	0.524		12.21	20
cis-1,3-Dichloropropene	0.526	0.578		9.89	20
1,1,2-Trichloroethane	0.353	0.349		-1.13	20
2-Hexanone	0.449	0.466		3.79	20
Dibromochloromethane	0.385	0.410		6.49	20
1,2-Dibromoethane	0.357	0.366		2.52	20
Tetrachloroethene	0.353	0.360		1.98	20
Chlorobenzene	1.068	1.067	0.3	-0.09	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: MSVOA_X Calibration Date/Time: 04/07/2025 09:17

Lab File ID: VX045614.D Init. Calib. Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 17:06 19:02

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.914	1.954		2.09	20
m/p-Xylenes	0.696	0.718		3.16	20
o-Xylene	0.686	0.706		2.91	20
Styrene	1.132	1.199		5.92	20
Bromoform	0.277	0.297	0.1	7.22	20
Isopropylbenzene	4.005	4.042		0.92	20
1,1,2,2-Tetrachloroethane	1.407	1.289	0.3	-8.39	20
1,3-Dichlorobenzene	1.684	1.681		-0.18	20
1,4-Dichlorobenzene	1.708	1.647		-3.57	20
1,2-Dichlorobenzene	1.675	1.648		-1.61	20
1,2-Dibromo-3-Chloropropane	0.294	0.311		5.78	20
1,2,4-Trichlorobenzene	0.932	0.991		6.33	20
1,2,3-Trichlorobenzene	0.976	1.015		4	20
1,2-Dichloroethane-d4	0.914	0.904		-1.09	20
Dibromofluoromethane	0.355	0.366		3.1	20
Toluene-d8	1.238	1.255		1.37	20
4-Bromofluorobenzene	0.451	0.480		6.43	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
 Data File : VX045614.D
 Acq On : 07 Apr 2025 09:17
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :John Carlone 04/08/2025
 Supervised By :Mahesh Dadoda 04/08/2025

Quant Time: Apr 08 01:33:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.538	168	104243	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.751	114	177492	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	157116	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	73594	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	94254	49.443	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.880%		
35) Dibromofluoromethane	5.379	113	64970	51.592	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	103.180%		
50) Toluene-d8	8.641	98	222665	50.658	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	101.320%		
62) 4-Bromofluorobenzene	11.079	95	85194	53.211	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	106.420%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	86584	55.540	ug/l	100
3) Chloromethane	1.307	50	79882	49.877	ug/l	99
4) Vinyl Chloride	1.374	62	73660	50.256	ug/l	99
5) Bromomethane	1.593	94	32649	46.980	ug/l	99
6) Chloroethane	1.660	64	39253	50.478	ug/l	98
7) Trichlorofluoromethane	1.867	101	111225	50.889	ug/l	100
8) Diethyl Ether	2.130	74	36037	49.111	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	66695	52.076	ug/l	98
10) Methyl Iodide	2.441	142	79791	49.948	ug/l	97
11) Tert butyl alcohol	2.977	59	64541	251.921	ug/l	99
12) 1,1-Dichloroethene	2.306	96	61015	48.756	ug/l	99
13) Acrolein	2.233	56	58537	165.921	ug/l	99
14) Allyl chloride	2.654	41	118904	50.076	ug/l	99
15) Acrylonitrile	3.062	53	196504	242.982	ug/l	99
16) Acetone	2.380	43	235381	300.693	ug/l	98
17) Carbon Disulfide	2.502	76	153475	49.655	ug/l	100
18) Methyl Acetate	2.703	43	90670	50.309	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	216183	49.382	ug/l	99
20) Methylene Chloride	2.782	84	69933	47.720	ug/l	95
21) trans-1,2-Dichloroethene	3.081	96	61608	48.187	ug/l	97
22) Diisopropyl ether	3.757	45	226624	48.452	ug/l	99
23) Vinyl Acetate	3.715	43	1018875	252.123	ug/l	99
24) 1,1-Dichloroethane	3.599	63	126177	47.700	ug/l	100
25) 2-Butanone	4.550	43	301049	262.730	ug/l	98
26) 2,2-Dichloropropane	4.458	77	98828	57.826	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	73761	47.355	ug/l	97
28) Bromochloromethane	4.885	49	59900	46.860	ug/l	97
29) Tetrahydrofuran	4.995	42	175733	236.552	ug/l	99
30) Chloroform	5.080	83	131279	48.232	ug/l	99
31) Cyclohexane	5.458	56	112556	48.132	ug/l	95
32) 1,1,1-Trichloroethane	5.373	97	113722	49.377	ug/l	99
36) 1,1-Dichloropropene	5.678	75	85301	50.168	ug/l	98
37) Ethyl Acetate	4.708	43	106911	49.894	ug/l	99
38) Carbon Tetrachloride	5.666	117	95420	51.926	ug/l	99
39) Methylcyclohexane	7.373	83	111471	53.483	ug/l	98
40) Benzene	6.025	78	254875	49.081	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
 Data File : VX045614.D
 Acq On : 07 Apr 2025 09:17
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/08/2025
 Supervised By : Mahesh Dadoda 04/08/2025

Quant Time: Apr 08 01:33:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.910	41	59241	52.399	ug/l	99
42) 1,2-Dichloroethane	6.080	62	107343	50.048	ug/l	100
43) Isopropyl Acetate	6.330	43	166101	51.145	ug/l	99
44) Trichloroethene	7.117	130	61500	49.827	ug/l	98
45) 1,2-Dichloropropane	7.421	63	64374	49.683	ug/l	99
46) Dibromomethane	7.574	93	49916	50.186	ug/l	98
47) Bromodichloromethane	7.812	83	103188	51.949	ug/l	98
48) Methyl methacrylate	7.690	41	87167	51.984	ug/l	99
49) 1,4-Dioxane	7.653	88	33084	1090.518	ug/l	99
51) 4-Methyl-2-Pentanone	8.568	43	554818	257.706	ug/l	100
52) Toluene	8.714	92	156451	49.789	ug/l	98
53) t-1,3-Dichloropropene	8.976	75	92990	48.743	ug/l	99
54) cis-1,3-Dichloropropene	8.360	75	102648	54.992	ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	62014	49.526	ug/l	97
56) Ethyl methacrylate	9.116	69	102307	52.794	ug/l	99
57) 1,3-Dichloropropane	9.305	76	109205	50.084	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	259683	264.902	ug/l	100
59) 2-Hexanone	9.427	43	413888	259.607	ug/l	99
60) Dibromochloromethane	9.519	129	72717	53.270	ug/l	99
61) 1,2-Dibromoethane	9.604	107	64982	51.266	ug/l	99
64) Tetrachloroethene	9.269	164	56640	51.060	ug/l	98
65) Chlorobenzene	10.073	112	167704	49.952	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	58489	50.179	ug/l	100
67) Ethyl Benzene	10.189	91	306928	51.044	ug/l	99
68) m/p-Xylenes	10.299	106	225755	103.227	ug/l	100
69) o-Xylene	10.640	106	110931	51.491	ug/l	100
70) Styrene	10.653	104	188342	52.968	ug/l	100
71) Bromoform	10.799	173	46614	53.560	ug/l #	97
73) Isopropylbenzene	10.957	105	297453	50.459	ug/l	100
74) N-amyl acetate	10.841	43	141548	50.197	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.207	83	94897	45.826	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	84561m	47.106	ug/l	
77) Bromobenzene	11.195	156	67447	49.519	ug/l	99
78) n-propylbenzene	11.299	91	352421	51.903	ug/l	100
79) 2-Chlorotoluene	11.360	91	214755	49.474	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	251615	51.617	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	27832	52.619	ug/l	100
82) 4-Chlorotoluene	11.451	91	245372	50.699	ug/l	99
83) tert-Butylbenzene	11.713	119	244934	50.753	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	253240	51.760	ug/l	100
85) sec-Butylbenzene	11.890	105	313700	52.923	ug/l	100
86) p-Isopropyltoluene	12.006	119	258241	52.844	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	123697	49.891	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	121216	48.225	ug/l	98
89) n-Butylbenzene	12.329	91	237301	55.998	ug/l	99
90) Hexachloroethane	12.536	117	45082	53.679	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	121280	49.201	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	22906	52.891	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	72928	53.151	ug/l	97
94) Hexachlorobutadiene	13.719	225	32018	54.153	ug/l	97
95) Naphthalene	13.774	128	258746	50.674	ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	74671	51.972	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045614.D
Acq On : 07 Apr 2025 09:17
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By : John Carlone 04/08/2025
Supervised By : Mahesh Dadoda 04/08/2025

Quant Time: Apr 08 01:33:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

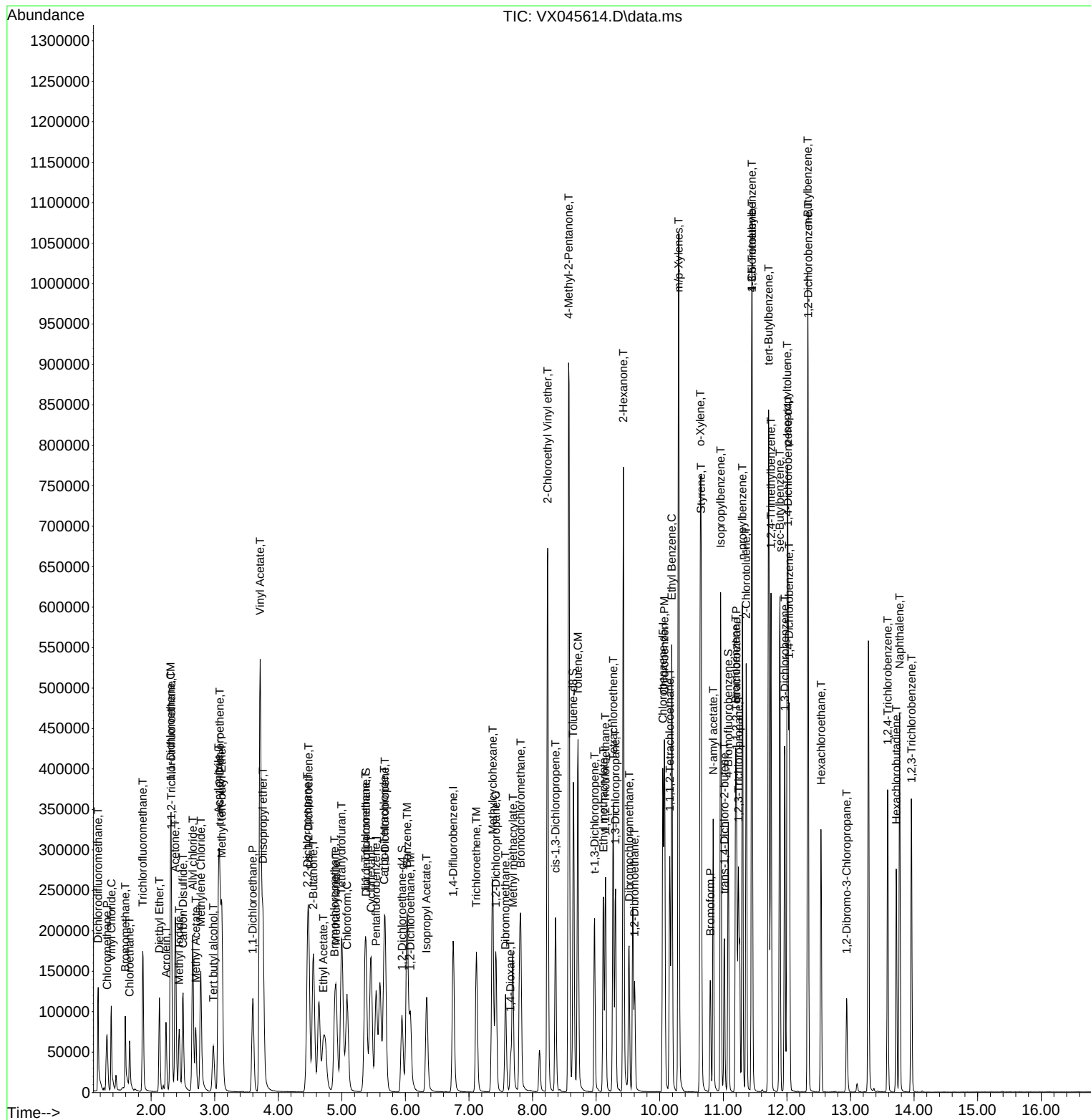
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045614.D
Acq On : 07 Apr 2025 09:17
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 04/08/2025
Supervised By :Mahesh Dadoda 04/08/2025

Quant Time: Apr 08 01:33:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
 Data File : VX045614.D
 Acq On : 07 Apr 2025 09:17
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
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Instrument :
 MSVOA_X
 LabSampleId :
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Quant Time: Apr 08 01:33:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	109	-0.01
2 T	Dichlorodifluoromethane	0.748	0.831	-11.1	110	0.00
3 P	Chloromethane	0.768	0.766	0.3	106	0.00
4 C	Vinyl Chloride	0.703	0.707	-0.6#	108	0.00
5 T	Bromomethane	0.333	0.313	6.0	103	0.00
6 T	Chloroethane	0.373	0.377	-1.1	103	0.00
7 T	Trichlorofluoromethane	1.048	1.067	-1.8	107	0.00
8 T	Diethyl Ether	0.352	0.346	1.7	106	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.614	0.640	-4.2	112	0.00
10 T	Methyl Iodide	0.766	0.765	0.1	104	0.00
11 T	Tert butyl alcohol	0.123	0.124	-0.8	106	0.00
12 CM	1,1-Dichloroethene	0.600	0.585	2.5#	106	0.00
13 T	Acrolein	0.169	0.112	33.7#	73	0.00
14 T	Allyl chloride	1.139	1.141	-0.2	106	0.00
15 T	Acrylonitrile	0.388	0.377	2.8	101	0.00
16 T	Acetone	0.375	0.452	-20.5	130	0.00
17 T	Carbon Disulfide	1.483	1.472	0.7	103	0.00
18 T	Methyl Acetate	0.864	0.870	-0.7	111	0.00
19 T	Methyl tert-butyl Ether	2.100	2.074	1.2	107	0.00
20 T	Methylene Chloride	0.703	0.671	4.6	103	0.00
21 T	trans-1,2-Dichloroethene	0.613	0.591	3.6	103	0.00
22 T	Diisopropyl ether	2.243	2.174	3.1	103	0.00
23 T	Vinyl Acetate	1.938	1.955	-0.9	102	0.00
24 P	1,1-Dichloroethane	1.269	1.210	4.6	104	0.00
25 T	2-Butanone	0.550	0.578	-5.1	107	0.00
26 T	2,2-Dichloropropane	0.820	0.948	-15.6	122	-0.01
27 T	cis-1,2-Dichloroethene	0.747	0.708	5.2	103	0.00
28 T	Bromochloromethane	0.613	0.575	6.2	105	-0.01
29 T	Tetrahydrofuran	0.356	0.337	5.3	99	0.00
30 C	Chloroform	1.306	1.259	3.6#	104	0.00
31 T	Cyclohexane	1.122	1.080	3.7	105	0.00
32 T	1,1,1-Trichloroethane	1.105	1.091	1.3	107	0.00
33 S	1,2-Dichloroethane-d4	0.914	0.904	1.1	113	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	105	0.00
35 S	Dibromofluoromethane	0.355	0.366	-3.1	112	0.00
36 T	1,1-Dichloropropene	0.479	0.481	-0.4	105	0.00
37 T	Ethyl Acetate	0.604	0.602	0.3	102	0.00
38 T	Carbon Tetrachloride	0.518	0.538	-3.9	106	0.00
39 T	Methylcyclohexane	0.587	0.628	-7.0	106	0.00
40 TM	Benzene	1.463	1.436	1.8	102	0.00
41 T	Methacrylonitrile	0.318	0.334	-5.0	100	-0.01
42 TM	1,2-Dichloroethane	0.604	0.605	-0.2	103	0.00
43 T	Isopropyl Acetate	0.915	0.936	-2.3	101	0.00
44 TM	Trichloroethene	0.348	0.346	0.6	104	0.00
45 C	1,2-Dichloropropane	0.365	0.363	0.5#	102	0.00
46 T	Dibromomethane	0.280	0.281	-0.4	102	0.00
47 T	Bromodichloromethane	0.560	0.581	-3.7	107	0.00
48 T	Methyl methacrylate	0.472	0.491	-4.0	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
 Data File : VX045614.D
 Acq On : 07 Apr 2025 09:17
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Apr 08 01:33:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.009	0.009	0.0	106	0.00
50 S	Toluene-d8	1.238	1.255	-1.4	109	0.00
51 T	4-Methyl-2-Pentanone	0.606	0.625	-3.1	99	0.00
52 CM	Toluene	0.885	0.881	0.5#	102	0.00
53 T	t-1,3-Dichloropropene	0.467	0.524	-12.2	109	0.00
54 T	cis-1,3-Dichloropropene	0.526	0.578	-9.9	107	0.00
55 T	1,1,2-Trichloroethane	0.353	0.349	1.1	103	0.00
56 T	Ethyl methacrylate	0.546	0.576	-5.5	101	0.00
57 T	1,3-Dichloropropane	0.614	0.615	-0.2	102	0.00
58 T	2-Chloroethyl Vinyl ether	0.276	0.293	-6.2	104	0.00
59 T	2-Hexanone	0.449	0.466	-3.8	100	0.00
60 T	Dibromochloromethane	0.385	0.410	-6.5	105	0.00
61 T	1,2-Dibromoethane	0.357	0.366	-2.5	103	0.00
62 S	4-Bromofluorobenzene	0.451	0.480	-6.4	112	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00
64 T	Tetrachloroethene	0.353	0.360	-2.0	109	0.00
65 PM	Chlorobenzene	1.068	1.067	0.1	103	0.00
66 T	1,1,1,2-Tetrachloroethane	0.371	0.372	-0.3	104	0.00
67 C	Ethyl Benzene	1.914	1.954	-2.1#	102	0.00
68 T	m/p-Xylenes	0.696	0.718	-3.2	103	0.00
69 T	o-Xylene	0.686	0.706	-2.9	103	0.00
70 T	Styrene	1.132	1.199	-5.9	103	0.00
71 P	Bromoform	0.277	0.297	-7.2	105	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00
73 T	Isopropylbenzene	4.005	4.042	-0.9	103	0.00
74 T	N-amyl acetate	1.916	1.923	-0.4	100	0.00
75 P	1,1,2,2-Tetrachloroethane	1.407	1.289	8.4	100	0.00
76 T	1,2,3-Trichloropropane	1.220	1.149	5.8	100	0.00
77 T	Bromobenzene	0.925	0.916	1.0	105	0.00
78 T	n-propylbenzene	4.613	4.789	-3.8	105	0.00
79 T	2-Chlorotoluene	2.949	2.918	1.1	105	0.00
80 T	1,3,5-Trimethylbenzene	3.312	3.419	-3.2	104	0.00
81 T	trans-1,4-Dichloro-2-butene	0.359	0.378	-5.3	109	0.00
82 T	4-Chlorotoluene	3.288	3.334	-1.4	103	0.00
83 T	tert-Butylbenzene	3.279	3.328	-1.5	104	0.00
84 T	1,2,4-Trimethylbenzene	3.324	3.441	-3.5	105	0.00
85 T	sec-Butylbenzene	4.027	4.263	-5.9	106	0.00
86 T	p-Isopropyltoluene	3.320	3.509	-5.7	107	0.00
87 T	1,3-Dichlorobenzene	1.684	1.681	0.2	106	0.00
88 T	1,4-Dichlorobenzene	1.708	1.647	3.6	103	0.00
89 T	n-Butylbenzene	2.879	3.224	-12.0	109	0.00
90 T	Hexachloroethane	0.571	0.613	-7.4	110	0.00
91 T	1,2-Dichlorobenzene	1.675	1.648	1.6	105	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.294	0.311	-5.8	105	0.00
93 T	1,2,4-Trichlorobenzene	0.932	0.991	-6.3	112	0.00
94 T	Hexachlorobutadiene	0.402	0.435	-8.2	115	0.00
95 T	Naphthalene	3.469	3.516	-1.4	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045614.D
Acq On : 07 Apr 2025 09:17
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Apr 08 01:33:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.976	1.015	-4.0	109	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
 Data File : VX045614.D
 Acq On : 07 Apr 2025 09:17
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Apr 08 01:33:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	109	-0.01
2 T	Dichlorodifluoromethane	50.000	55.540	-11.1	110	0.00
3 P	Chloromethane	50.000	49.877	0.2	106	0.00
4 C	Vinyl Chloride	50.000	50.256	-0.5#	108	0.00
5 T	Bromomethane	50.000	46.980	6.0	103	0.00
6 T	Chloroethane	50.000	50.478	-1.0	103	0.00
7 T	Trichlorofluoromethane	50.000	50.889	-1.8	107	0.00
8 T	Diethyl Ether	50.000	49.111	1.8	106	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	52.076	-4.2	112	0.00
10 T	Methyl Iodide	50.000	49.948	0.1	104	0.00
11 T	Tert butyl alcohol	250.000	251.921	-0.8	106	0.00
12 CM	1,1-Dichloroethene	50.000	48.756	2.5#	106	0.00
13 T	Acrolein	250.000	165.921	33.6#	73	0.00
14 T	Allyl chloride	50.000	50.076	-0.2	106	0.00
15 T	Acrylonitrile	250.000	242.982	2.8	101	0.00
16 T	Acetone	250.000	300.693	-20.3	130	0.00
17 T	Carbon Disulfide	50.000	49.655	0.7	103	0.00
18 T	Methyl Acetate	50.000	50.309	-0.6	111	0.00
19 T	Methyl tert-butyl Ether	50.000	49.382	1.2	107	0.00
20 T	Methylene Chloride	50.000	47.720	4.6	103	0.00
21 T	trans-1,2-Dichloroethene	50.000	48.187	3.6	103	0.00
22 T	Diisopropyl ether	50.000	48.452	3.1	103	0.00
23 T	Vinyl Acetate	250.000	252.123	-0.8	102	0.00
24 P	1,1-Dichloroethane	50.000	47.700	4.6	104	0.00
25 T	2-Butanone	250.000	262.730	-5.1	107	0.00
26 T	2,2-Dichloropropane	50.000	57.826	-15.7	122	-0.01
27 T	cis-1,2-Dichloroethene	50.000	47.355	5.3	103	0.00
28 T	Bromochloromethane	50.000	46.860	6.3	105	-0.01
29 T	Tetrahydrofuran	250.000	236.552	5.4	99	0.00
30 C	Chloroform	50.000	48.232	3.5#	104	0.00
31 T	Cyclohexane	50.000	48.132	3.7	105	0.00
32 T	1,1,1-Trichloroethane	50.000	49.377	1.2	107	0.00
33 S	1,2-Dichloroethane-d4	50.000	49.443	1.1	113	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	105	0.00
35 S	Dibromofluoromethane	50.000	51.592	-3.2	112	0.00
36 T	1,1-Dichloropropene	50.000	50.168	-0.3	105	0.00
37 T	Ethyl Acetate	50.000	49.894	0.2	102	0.00
38 T	Carbon Tetrachloride	50.000	51.926	-3.9	106	0.00
39 T	Methylcyclohexane	50.000	53.483	-7.0	106	0.00
40 TM	Benzene	50.000	49.081	1.8	102	0.00
41 T	Methacrylonitrile	50.000	52.399	-4.8	100	-0.01
42 TM	1,2-Dichloroethane	50.000	50.048	-0.1	103	0.00
43 T	Isopropyl Acetate	50.000	51.145	-2.3	101	0.00
44 TM	Trichloroethene	50.000	49.827	0.3	104	0.00
45 C	1,2-Dichloropropane	50.000	49.683	0.6#	102	0.00
46 T	Dibromomethane	50.000	50.186	-0.4	102	0.00
47 T	Bromodichloromethane	50.000	51.949	-3.9	107	0.00
48 T	Methyl methacrylate	50.000	51.984	-4.0	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
 Data File : VX045614.D
 Acq On : 07 Apr 2025 09:17
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Apr 08 01:33:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	1090.518	-9.1	106	0.00
50 S	Toluene-d8	50.000	50.658	-1.3	109	0.00
51 T	4-Methyl-2-Pentanone	250.000	257.706	-3.1	99	0.00
52 CM	Toluene	50.000	49.789	0.4#	102	0.00
53 T	t-1,3-Dichloropropene	50.000	48.743	2.5	109	0.00
54 T	cis-1,3-Dichloropropene	50.000	54.992	-10.0	107	0.00
55 T	1,1,2-Trichloroethane	50.000	49.526	0.9	103	0.00
56 T	Ethyl methacrylate	50.000	52.794	-5.6	101	0.00
57 T	1,3-Dichloropropane	50.000	50.084	-0.2	102	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	264.902	-6.0	104	0.00
59 T	2-Hexanone	250.000	259.607	-3.8	100	0.00
60 T	Dibromochloromethane	50.000	53.270	-6.5	105	0.00
61 T	1,2-Dibromoethane	50.000	51.266	-2.5	103	0.00
62 S	4-Bromofluorobenzene	50.000	53.211	-6.4	112	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	105	0.00
64 T	Tetrachloroethene	50.000	51.060	-2.1	109	0.00
65 PM	Chlorobenzene	50.000	49.952	0.1	103	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	50.179	-0.4	104	0.00
67 C	Ethyl Benzene	50.000	51.044	-2.1#	102	0.00
68 T	m/p-Xylenes	100.000	103.227	-3.2	103	0.00
69 T	o-Xylene	50.000	51.491	-3.0	103	0.00
70 T	Styrene	50.000	52.968	-5.9	103	0.00
71 P	Bromoform	50.000	53.560	-7.1	105	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	107	0.00
73 T	Isopropylbenzene	50.000	50.459	-0.9	103	0.00
74 T	N-ethyl acetate	50.000	50.197	-0.4	100	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	45.826	8.3	100	0.00
76 T	1,2,3-Trichloropropane	50.000	47.106	5.8	100	0.00
77 T	Bromobenzene	50.000	49.519	1.0	105	0.00
78 T	n-propylbenzene	50.000	51.903	-3.8	105	0.00
79 T	2-Chlorotoluene	50.000	49.474	1.1	105	0.00
80 T	1,3,5-Trimethylbenzene	50.000	51.617	-3.2	104	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	52.619	-5.2	109	0.00
82 T	4-Chlorotoluene	50.000	50.699	-1.4	103	0.00
83 T	tert-Butylbenzene	50.000	50.753	-1.5	104	0.00
84 T	1,2,4-Trimethylbenzene	50.000	51.760	-3.5	105	0.00
85 T	sec-Butylbenzene	50.000	52.923	-5.8	106	0.00
86 T	p-Isopropyltoluene	50.000	52.844	-5.7	107	0.00
87 T	1,3-Dichlorobenzene	50.000	49.891	0.2	106	0.00
88 T	1,4-Dichlorobenzene	50.000	48.225	3.5	103	0.00
89 T	n-Butylbenzene	50.000	55.998	-12.0	109	0.00
90 T	Hexachloroethane	50.000	53.679	-7.4	110	0.00
91 T	1,2-Dichlorobenzene	50.000	49.201	1.6	105	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	52.891	-5.8	105	0.00
93 T	1,2,4-Trichlorobenzene	50.000	53.151	-6.3	112	0.00
94 T	Hexachlorobutadiene	50.000	54.153	-8.3	115	0.00
95 T	Naphthalene	50.000	50.674	-1.3	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045614.D
Acq On : 07 Apr 2025 09:17
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Apr 08 01:33:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	51.972	-3.9	109	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: MSVOA_X Calibration Date/Time: 04/08/2025 08:24

Lab File ID: VX045635.D Init. Calib. Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 17:06 19:02

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.748	0.803		7.35	20
Chloromethane	0.768	0.726	0.1	-5.47	20
Vinyl Chloride	0.703	0.685		-2.56	20
Bromomethane	0.333	0.308		-7.51	20
Chloroethane	0.373	0.385		3.22	20
Trichlorofluoromethane	1.048	1.069		2	20
1,1,2-Trichlorotrifluoroethane	0.614	0.634		3.26	20
1,1-Dichloroethene	0.600	0.591		-1.5	20
Acetone	0.375	0.439		17.07	20
Carbon Disulfide	1.483	1.421		-4.18	20
Methyl tert-butyl Ether	2.100	2.026		-3.52	20
Methyl Acetate	0.864	0.892		3.24	20
Methylene Chloride	0.703	0.663		-5.69	20
trans-1,2-Dichloroethene	0.613	0.583		-4.89	20
1,1-Dichloroethane	1.269	1.210	0.1	-4.65	20
Cyclohexane	1.122	1.066		-4.99	20
2-Butanone	0.550	0.562		2.18	20
Carbon Tetrachloride	0.518	0.541		4.44	20
cis-1,2-Dichloroethene	0.747	0.702		-6.02	20
Bromochloromethane	0.613	0.603		-1.63	20
Chloroform	1.306	1.256		-3.83	20
1,1,1-Trichloroethane	1.105	1.080		-2.26	20
Methylcyclohexane	0.587	0.616		4.94	20
Benzene	1.463	1.424		-2.67	20
1,2-Dichloroethane	0.604	0.606		0.33	20
Trichloroethene	0.348	0.339		-2.59	20
1,2-Dichloropropane	0.365	0.359		-1.64	20
Bromodichloromethane	0.560	0.571		1.96	20
4-Methyl-2-Pentanone	0.606	0.614		1.32	20
Toluene	0.885	0.857		-3.16	20
t-1,3-Dichloropropene	0.467	0.506		8.35	20
cis-1,3-Dichloropropene	0.526	0.557		5.89	20
1,1,2-Trichloroethane	0.353	0.344		-2.55	20
2-Hexanone	0.449	0.458		2	20
Dibromochloromethane	0.385	0.403		4.68	20
1,2-Dibromoethane	0.357	0.357		0	20
Tetrachloroethene	0.353	0.350		-0.85	20
Chlorobenzene	1.068	1.057	0.3	-1.03	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: MSVOA_X Calibration Date/Time: 04/08/2025 08:24

Lab File ID: VX045635.D Init. Calib. Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 17:06 19:02

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.914	1.939		1.31	20
m/p-Xylenes	0.696	0.706		1.44	20
o-Xylene	0.686	0.688		0.29	20
Styrene	1.132	1.173		3.62	20
Bromoform	0.277	0.296	0.1	6.86	20
Isopropylbenzene	4.005	3.896		-2.72	20
1,1,2,2-Tetrachloroethane	1.407	1.242	0.3	-11.73	20
1,3-Dichlorobenzene	1.684	1.602		-4.87	20
1,4-Dichlorobenzene	1.708	1.593		-6.73	20
1,2-Dichlorobenzene	1.675	1.554		-7.22	20
1,2-Dibromo-3-Chloropropane	0.294	0.291		-1.02	20
1,2,4-Trichlorobenzene	0.932	0.923		-0.97	20
1,2,3-Trichlorobenzene	0.976	0.932		-4.51	20
1,2-Dichloroethane-d4	0.914	0.864		-5.47	20
Dibromofluoromethane	0.355	0.347		-2.25	20
Toluene-d8	1.238	1.189		-3.96	20
4-Bromofluorobenzene	0.451	0.456		1.11	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
 Data File : VX045635.D
 Acq On : 08 Apr 2025 08:24
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/09/2025
 Supervised By : Mahesh Dadoda 04/09/2025

Quant Time: Apr 09 01:30:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.538	168	102556	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.751	114	175513	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	152677	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	73644	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	88628	47.256	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.520%		
35) Dibromofluoromethane	5.379	113	60947	48.943	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.880%		
50) Toluene-d8	8.641	98	208767	48.031	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	96.060%		
62) 4-Bromofluorobenzene	11.079	95	80074	50.577	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	101.160%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	82377	53.710	ug/l	99
3) Chloromethane	1.301	50	74414	47.227	ug/l	99
4) Vinyl Chloride	1.374	62	70200	48.683	ug/l	98
5) Bromomethane	1.593	94	31611	46.234	ug/l	96
6) Chloroethane	1.666	64	39458	51.576	ug/l	99
7) Trichlorofluoromethane	1.874	101	109606	50.974	ug/l	99
8) Diethyl Ether	2.130	74	34611	47.944	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	65045	51.623	ug/l	99
10) Methyl Iodide	2.447	142	74792	47.589	ug/l	98
11) Tert butyl alcohol	2.971	59	60403	239.647	ug/l	100
12) 1,1-Dichloroethene	2.313	96	60648	49.260	ug/l	93
13) Acrolein	2.233	56	62884	181.175	ug/l	98
14) Allyl chloride	2.654	41	114629	49.070	ug/l	98
15) Acrylonitrile	3.056	53	191988	241.303	ug/l	99
16) Acetone	2.380	43	225342	292.604	ug/l	98
17) Carbon Disulfide	2.502	76	145753	47.932	ug/l	100
18) Methyl Acetate	2.703	43	91430	51.565	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	207770	48.241	ug/l	98
20) Methylene Chloride	2.782	84	67962	47.138	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	59834	47.570	ug/l	99
22) Diisopropyl ether	3.757	45	222069	48.259	ug/l	97
23) Vinyl Acetate	3.715	43	984228	247.556	ug/l	100
24) 1,1-Dichloroethane	3.599	63	124046	47.666	ug/l	99
25) 2-Butanone	4.550	43	288293	255.736	ug/l	99
26) 2,2-Dichloropropane	4.465	77	96168	57.195	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	71964	46.961	ug/l	97
28) Bromochloromethane	4.885	49	61879	49.204	ug/l	99
29) Tetrahydrofuran	4.995	42	170707	233.567	ug/l	99
30) Chloroform	5.080	83	128762	48.085	ug/l	96
31) Cyclohexane	5.458	56	109356	47.533	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	110738	48.873	ug/l	99
36) 1,1-Dichloropropene	5.684	75	83600	49.722	ug/l	98
37) Ethyl Acetate	4.708	43	102926	48.576	ug/l	100
38) Carbon Tetrachloride	5.666	117	95023	52.293	ug/l	96
39) Methylcyclohexane	7.373	83	108177	52.487	ug/l	98
40) Benzene	6.025	78	249998	48.685	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
 Data File : VX045635.D
 Acq On : 08 Apr 2025 08:24
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :John Carlone 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025

Quant Time: Apr 09 01:30:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.910	41	58849	52.639	ug/l	99
42) 1,2-Dichloroethane	6.074	62	106419	50.176	ug/l	100
43) Isopropyl Acetate	6.330	43	160785	50.067	ug/l	100
44) Trichloroethene	7.117	130	59501	48.751	ug/l	94
45) 1,2-Dichloropropane	7.421	63	63077	49.231	ug/l	97
46) Dibromomethane	7.574	93	48368	49.178	ug/l	98
47) Bromodichloromethane	7.812	83	100153	50.990	ug/l	97
48) Methyl methacrylate	7.684	41	83311	50.245	ug/l	100
49) 1,4-Dioxane	7.653	88	30947	1031.580	ug/l	98
51) 4-Methyl-2-Pentanone	8.567	43	538521	252.957	ug/l	99
52) Toluene	8.714	92	150361	48.391	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	88771	47.135	ug/l	99
54) cis-1,3-Dichloropropene	8.360	75	97741	52.954	ug/l	97
55) 1,1,2-Trichloroethane	9.147	97	60362	48.750	ug/l	98
56) Ethyl methacrylate	9.110	69	97374	50.815	ug/l	100
57) 1,3-Dichloropropane	9.305	76	104882	48.644	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.232	63	256466	264.570	ug/l	100
59) 2-Hexanone	9.427	43	401824	254.882	ug/l	99
60) Dibromochloromethane	9.519	129	70772	52.429	ug/l	98
61) 1,2-Dibromoethane	9.604	107	62585	49.932	ug/l	99
64) Tetrachloroethene	9.269	164	53406	49.544	ug/l	99
65) Chlorobenzene	10.073	112	161428	49.480	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	56924	50.257	ug/l	100
67) Ethyl Benzene	10.189	91	296077	50.671	ug/l	100
68) m/p-Xylenes	10.299	106	215524	101.415	ug/l	99
69) o-Xylene	10.640	106	105095	50.200	ug/l	98
70) Styrene	10.652	104	179022	51.811	ug/l	98
71) Bromoform	10.799	173	45129	53.361	ug/l #	99
73) Isopropylbenzene	10.957	105	286927	48.640	ug/l	99
74) N-amyl acetate	10.841	43	134335	47.607	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	91434	44.124	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	82126m	45.718	ug/l	
77) Bromobenzene	11.195	156	64594	47.392	ug/l	99
78) n-propylbenzene	11.299	91	336735	49.559	ug/l	100
79) 2-Chlorotoluene	11.360	91	203560	46.863	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	240058	49.213	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	26492	50.052	ug/l	98
82) 4-Chlorotoluene	11.451	91	237649	49.070	ug/l	99
83) tert-Butylbenzene	11.713	119	238454	49.376	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	241409	49.308	ug/l	98
85) sec-Butylbenzene	11.890	105	298302	50.291	ug/l	100
86) p-Isopropyltoluene	12.006	119	245321	50.166	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	117998	47.560	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	117319	46.643	ug/l	98
89) n-Butylbenzene	12.329	91	226244	53.352	ug/l	100
90) Hexachloroethane	12.536	117	44911	53.439	ug/l	97
91) 1,2-Dichlorobenzene	12.335	146	114467	46.406	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	21429	49.447	ug/l	97
93) 1,2,4-Trichlorobenzene	13.585	180	67975	49.507	ug/l	98
94) Hexachlorobutadiene	13.725	225	29863	50.474	ug/l	99
95) Naphthalene	13.774	128	242437	47.448	ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	68602	47.715	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045635.D
Acq On : 08 Apr 2025 08:24
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

Quant Time: Apr 09 01:30:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

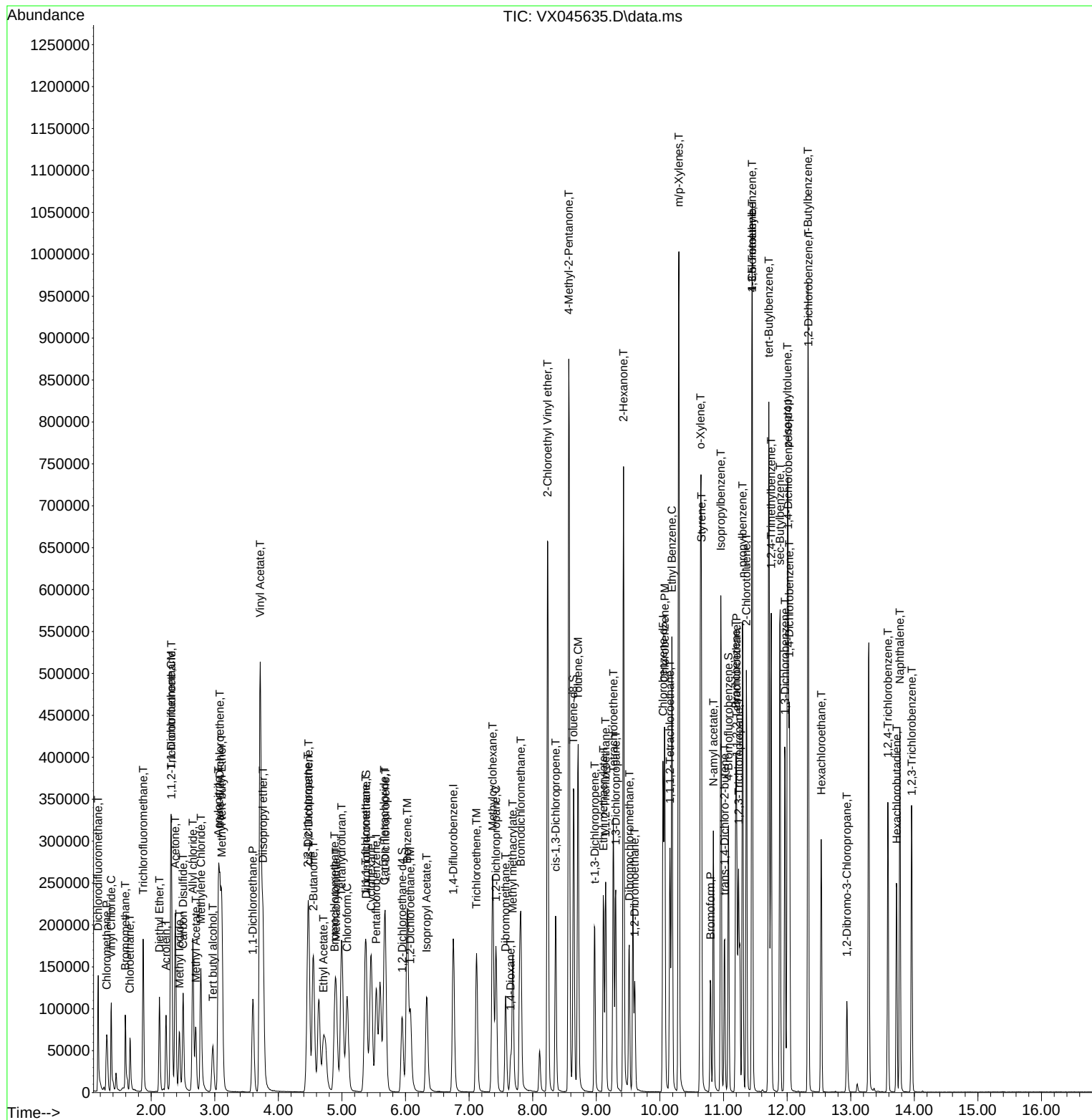
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045635.D
Acq On : 08 Apr 2025 08:24
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	107	-0.01
2 T	Dichlorodifluoromethane	0.748	0.803	-7.4	105	0.00
3 P	Chloromethane	0.768	0.726	5.5	99	0.00
4 C	Vinyl Chloride	0.703	0.685	2.6#	102	0.00
5 T	Bromomethane	0.333	0.308	7.5	100	0.00
6 T	Chloroethane	0.373	0.385	-3.2	104	0.00
7 T	Trichlorofluoromethane	1.048	1.069	-2.0	106	0.00
8 T	Diethyl Ether	0.352	0.337	4.3	102	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.614	0.634	-3.3	109	0.00
10 T	Methyl Iodide	0.766	0.729	4.8	98	0.00
11 T	Tert butyl alcohol	0.123	0.118	4.1	100	0.00
12 CM	1,1-Dichloroethene	0.600	0.591	1.5#	105	0.00
13 T	Acrolein	0.169	0.123	27.2#	79	0.00
14 T	Allyl chloride	1.139	1.118	1.8	102	0.00
15 T	Acrylonitrile	0.388	0.374	3.6	99	0.00
16 T	Acetone	0.375	0.439	-17.1	125	0.00
17 T	Carbon Disulfide	1.483	1.421	4.2	98	0.00
18 T	Methyl Acetate	0.864	0.892	-3.2	112	0.00
19 T	Methyl tert-butyl Ether	2.100	2.026	3.5	103	0.00
20 T	Methylene Chloride	0.703	0.663	5.7	100	0.00
21 T	trans-1,2-Dichloroethene	0.613	0.583	4.9	100	0.00
22 T	Diisopropyl ether	2.243	2.165	3.5	101	0.00
23 T	Vinyl Acetate	1.938	1.919	1.0	99	0.00
24 P	1,1-Dichloroethane	1.269	1.210	4.6	102	0.00
25 T	2-Butanone	0.550	0.562	-2.2	103	0.00
26 T	2,2-Dichloropropane	0.820	0.938	-14.4	119	0.00
27 T	cis-1,2-Dichloroethene	0.747	0.702	6.0	100	0.00
28 T	Bromochloromethane	0.613	0.603	1.6	108	-0.01
29 T	Tetrahydrofuran	0.356	0.333	6.5	96	0.00
30 C	Chloroform	1.306	1.256	3.8#	102	0.00
31 T	Cyclohexane	1.122	1.066	5.0	102	0.00
32 T	1,1,1-Trichloroethane	1.105	1.080	2.3	104	0.00
33 S	1,2-Dichloroethane-d4	0.914	0.864	5.5	107	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	104	0.00
35 S	Dibromofluoromethane	0.355	0.347	2.3	105	0.00
36 T	1,1-Dichloropropene	0.479	0.476	0.6	102	0.00
37 T	Ethyl Acetate	0.604	0.586	3.0	98	0.00
38 T	Carbon Tetrachloride	0.518	0.541	-4.4	105	0.00
39 T	Methylcyclohexane	0.587	0.616	-4.9	103	0.00
40 TM	Benzene	1.463	1.424	2.7	100	0.00
41 T	Methacrylonitrile	0.318	0.335	-5.3	100	-0.01
42 TM	1,2-Dichloroethane	0.604	0.606	-0.3	102	0.00
43 T	Isopropyl Acetate	0.915	0.916	-0.1	98	0.00
44 TM	Trichloroethene	0.348	0.339	2.6	101	0.00
45 C	1,2-Dichloropropane	0.365	0.359	1.6#	100	0.00
46 T	Dibromomethane	0.280	0.276	1.4	98	0.00
47 T	Bromodichloromethane	0.560	0.571	-2.0	104	0.00
48 T	Methyl methacrylate	0.472	0.475	-0.6	97	0.00

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 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.009	0.009	0.0	99	0.00
50 S	Toluene-d8	1.238	1.189	4.0	102	0.00
51 T	4-Methyl-2-Pentanone	0.606	0.614	-1.3	97	0.00
52 CM	Toluene	0.885	0.857	3.2#	98	0.00
53 T	t-1,3-Dichloropropene	0.467	0.506	-8.4	104	0.00
54 T	cis-1,3-Dichloropropene	0.526	0.557	-5.9	102	0.00
55 T	1,1,2-Trichloroethane	0.353	0.344	2.5	100	0.00
56 T	Ethyl methacrylate	0.546	0.555	-1.6	96	0.00
57 T	1,3-Dichloropropane	0.614	0.598	2.6	98	0.00
58 T	2-Chloroethyl Vinyl ether	0.276	0.292	-5.8	102	0.00
59 T	2-Hexanone	0.449	0.458	-2.0	97	0.00
60 T	Dibromochloromethane	0.385	0.403	-4.7	102	0.00
61 T	1,2-Dibromoethane	0.357	0.357	0.0	100	0.00
62 S	4-Bromofluorobenzene	0.451	0.456	-1.1	105	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00
64 T	Tetrachloroethene	0.353	0.350	0.8	102	0.00
65 PM	Chlorobenzene	1.068	1.057	1.0	99	0.00
66 T	1,1,1,2-Tetrachloroethane	0.371	0.373	-0.5	102	0.00
67 C	Ethyl Benzene	1.914	1.939	-1.3#	98	0.00
68 T	m/p-Xylenes	0.696	0.706	-1.4	99	0.00
69 T	o-Xylene	0.686	0.688	-0.3	97	0.00
70 T	Styrene	1.132	1.173	-3.6	98	0.00
71 P	Bromoform	0.277	0.296	-6.9	102	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00
73 T	Isopropylbenzene	4.005	3.896	2.7	100	0.00
74 T	N-amyl acetate	1.916	1.824	4.8	95	0.00
75 P	1,1,2,2-Tetrachloroethane	1.407	1.242	11.7	96	0.00
76 T	1,2,3-Trichloropropane	1.220	1.115	8.6	97	0.00
77 T	Bromobenzene	0.925	0.877	5.2	100	0.00
78 T	n-propylbenzene	4.613	4.572	0.9	100	0.00
79 T	2-Chlorotoluene	2.949	2.764	6.3	100	0.00
80 T	1,3,5-Trimethylbenzene	3.312	3.260	1.6	99	0.00
81 T	trans-1,4-Dichloro-2-butene	0.359	0.360	-0.3	104	0.00
82 T	4-Chlorotoluene	3.288	3.227	1.9	100	0.00
83 T	tert-Butylbenzene	3.279	3.238	1.3	101	0.00
84 T	1,2,4-Trimethylbenzene	3.324	3.278	1.4	100	0.00
85 T	sec-Butylbenzene	4.027	4.051	-0.6	101	0.00
86 T	p-Isopropyltoluene	3.320	3.331	-0.3	101	0.00
87 T	1,3-Dichlorobenzene	1.684	1.602	4.9	101	0.00
88 T	1,4-Dichlorobenzene	1.708	1.593	6.7	100	0.00
89 T	n-Butylbenzene	2.879	3.072	-6.7	104	0.00
90 T	Hexachloroethane	0.571	0.610	-6.8	109	0.00
91 T	1,2-Dichlorobenzene	1.675	1.554	7.2	99	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.294	0.291	1.0	99	0.00
93 T	1,2,4-Trichlorobenzene	0.932	0.923	1.0	104	0.00
94 T	Hexachlorobutadiene	0.402	0.406	-1.0	107	0.00
95 T	Naphthalene	3.469	3.292	5.1	95	0.00

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Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.976	0.932	4.5	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

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 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	107	-0.01
2 T	Dichlorodifluoromethane	50.000	53.710	-7.4	105	0.00
3 P	Chloromethane	50.000	47.227	5.5	99	0.00
4 C	Vinyl Chloride	50.000	48.683	2.6#	102	0.00
5 T	Bromomethane	50.000	46.234	7.5	100	0.00
6 T	Chloroethane	50.000	51.576	-3.2	104	0.00
7 T	Trichlorofluoromethane	50.000	50.974	-1.9	106	0.00
8 T	Diethyl Ether	50.000	47.944	4.1	102	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	51.623	-3.2	109	0.00
10 T	Methyl Iodide	50.000	47.589	4.8	98	0.00
11 T	Tert butyl alcohol	250.000	239.647	4.1	100	0.00
12 CM	1,1-Dichloroethene	50.000	49.260	1.5#	105	0.00
13 T	Acrolein	250.000	181.175	27.5#	79	0.00
14 T	Allyl chloride	50.000	49.070	1.9	102	0.00
15 T	Acrylonitrile	250.000	241.303	3.5	99	0.00
16 T	Acetone	250.000	292.604	-17.0	125	0.00
17 T	Carbon Disulfide	50.000	47.932	4.1	98	0.00
18 T	Methyl Acetate	50.000	51.565	-3.1	112	0.00
19 T	Methyl tert-butyl Ether	50.000	48.241	3.5	103	0.00
20 T	Methylene Chloride	50.000	47.138	5.7	100	0.00
21 T	trans-1,2-Dichloroethene	50.000	47.570	4.9	100	0.00
22 T	Diisopropyl ether	50.000	48.259	3.5	101	0.00
23 T	Vinyl Acetate	250.000	247.556	1.0	99	0.00
24 P	1,1-Dichloroethane	50.000	47.666	4.7	102	0.00
25 T	2-Butanone	250.000	255.736	-2.3	103	0.00
26 T	2,2-Dichloropropane	50.000	57.195	-14.4	119	0.00
27 T	cis-1,2-Dichloroethene	50.000	46.961	6.1	100	0.00
28 T	Bromochloromethane	50.000	49.204	1.6	108	-0.01
29 T	Tetrahydrofuran	250.000	233.567	6.6	96	0.00
30 C	Chloroform	50.000	48.085	3.8#	102	0.00
31 T	Cyclohexane	50.000	47.533	4.9	102	0.00
32 T	1,1,1-Trichloroethane	50.000	48.873	2.3	104	0.00
33 S	1,2-Dichloroethane-d4	50.000	47.256	5.5	107	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	104	0.00
35 S	Dibromofluoromethane	50.000	48.943	2.1	105	0.00
36 T	1,1-Dichloropropene	50.000	49.722	0.6	102	0.00
37 T	Ethyl Acetate	50.000	48.576	2.8	98	0.00
38 T	Carbon Tetrachloride	50.000	52.293	-4.6	105	0.00
39 T	Methylcyclohexane	50.000	52.487	-5.0	103	0.00
40 TM	Benzene	50.000	48.685	2.6	100	0.00
41 T	Methacrylonitrile	50.000	52.639	-5.3	100	-0.01
42 TM	1,2-Dichloroethane	50.000	50.176	-0.4	102	0.00
43 T	Isopropyl Acetate	50.000	50.067	-0.1	98	0.00
44 TM	Trichloroethene	50.000	48.751	2.5	101	0.00
45 C	1,2-Dichloropropane	50.000	49.231	1.5#	100	0.00
46 T	Dibromomethane	50.000	49.178	1.6	98	0.00
47 T	Bromodichloromethane	50.000	50.990	-2.0	104	0.00
48 T	Methyl methacrylate	50.000	50.245	-0.5	97	0.00

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 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	1031.580	-3.2	99	0.00
50 S	Toluene-d8	50.000	48.031	3.9	102	0.00
51 T	4-Methyl-2-Pentanone	250.000	252.957	-1.2	97	0.00
52 CM	Toluene	50.000	48.391	3.2#	98	0.00
53 T	t-1,3-Dichloropropene	50.000	47.135	5.7	104	0.00
54 T	cis-1,3-Dichloropropene	50.000	52.954	-5.9	102	0.00
55 T	1,1,2-Trichloroethane	50.000	48.750	2.5	100	0.00
56 T	Ethyl methacrylate	50.000	50.815	-1.6	96	0.00
57 T	1,3-Dichloropropane	50.000	48.644	2.7	98	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	264.570	-5.8	102	0.00
59 T	2-Hexanone	250.000	254.882	-2.0	97	0.00
60 T	Dibromochloromethane	50.000	52.429	-4.9	102	0.00
61 T	1,2-Dibromoethane	50.000	49.932	0.1	100	0.00
62 S	4-Bromofluorobenzene	50.000	50.577	-1.2	105	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	102	0.00
64 T	Tetrachloroethene	50.000	49.544	0.9	102	0.00
65 PM	Chlorobenzene	50.000	49.480	1.0	99	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	50.257	-0.5	102	0.00
67 C	Ethyl Benzene	50.000	50.671	-1.3#	98	0.00
68 T	m/p-Xylenes	100.000	101.415	-1.4	99	0.00
69 T	o-Xylene	50.000	50.200	-0.4	97	0.00
70 T	Styrene	50.000	51.811	-3.6	98	0.00
71 P	Bromoform	50.000	53.361	-6.7	102	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	107	0.00
73 T	Isopropylbenzene	50.000	48.640	2.7	100	0.00
74 T	N-ethyl acetate	50.000	47.607	4.8	95	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	44.124	11.8	96	0.00
76 T	1,2,3-Trichloropropane	50.000	45.718	8.6	97	0.00
77 T	Bromobenzene	50.000	47.392	5.2	100	0.00
78 T	n-propylbenzene	50.000	49.559	0.9	100	0.00
79 T	2-Chlorotoluene	50.000	46.863	6.3	100	0.00
80 T	1,3,5-Trimethylbenzene	50.000	49.213	1.6	99	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	50.052	-0.1	104	0.00
82 T	4-Chlorotoluene	50.000	49.070	1.9	100	0.00
83 T	tert-Butylbenzene	50.000	49.376	1.2	101	0.00
84 T	1,2,4-Trimethylbenzene	50.000	49.308	1.4	100	0.00
85 T	sec-Butylbenzene	50.000	50.291	-0.6	101	0.00
86 T	p-Isopropyltoluene	50.000	50.166	-0.3	101	0.00
87 T	1,3-Dichlorobenzene	50.000	47.560	4.9	101	0.00
88 T	1,4-Dichlorobenzene	50.000	46.643	6.7	100	0.00
89 T	n-Butylbenzene	50.000	53.352	-6.7	104	0.00
90 T	Hexachloroethane	50.000	53.439	-6.9	109	0.00
91 T	1,2-Dichlorobenzene	50.000	46.406	7.2	99	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.447	1.1	99	0.00
93 T	1,2,4-Trichlorobenzene	50.000	49.507	1.0	104	0.00
94 T	Hexachlorobutadiene	50.000	50.474	-0.9	107	0.00
95 T	Naphthalene	50.000	47.448	5.1	95	0.00

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	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	47.715	4.6	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: MSVOA_Y Calibration Date/Time: 04/10/2025 09:51

Lab File ID: VY021826.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:08 12:02

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.518	0.473		-8.69	20
Chloromethane	0.729	0.722	0.1	-0.96	20
Vinyl Chloride	0.824	0.777		-5.7	20
Bromomethane	0.562	0.510		-9.25	20
Chloroethane	0.539	0.515		-4.45	20
Trichlorofluoromethane	1.056	0.995		-5.78	20
1,1,2-Trichlorotrifluoroethane	0.557	0.548		-1.62	20
1,1-Dichloroethene	0.524	0.521		-0.57	20
Acetone	0.111	0.105		-5.41	20
Carbon Disulfide	1.727	1.642		-4.92	20
Methyl tert-butyl Ether	1.306	1.226		-6.13	20
Methyl Acetate	0.275	0.298		8.36	20
Methylene Chloride	0.626	0.577		-7.83	20
trans-1,2-Dichloroethene	0.577	0.585		1.39	20
1,1-Dichloroethane	1.049	1.074	0.1	2.38	20
Cyclohexane	0.956	0.885		-7.43	20
2-Butanone	0.158	0.140		-11.39	20
Carbon Tetrachloride	0.566	0.596		5.3	20
cis-1,2-Dichloroethene	0.649	0.671		3.39	20
Bromochloromethane	0.442	0.448		1.36	20
Chloroform	1.091	1.115		2.2	20
1,1,1-Trichloroethane	0.986	1.001		1.52	20
Methylcyclohexane	0.590	0.615		4.24	20
Benzene	1.479	1.589		7.44	20
1,2-Dichloroethane	0.417	0.422		1.2	20
Trichloroethene	0.377	0.407		7.96	20
1,2-Dichloropropane	0.350	0.377		7.71	20
Bromodichloromethane	0.523	0.551		5.35	20
4-Methyl-2-Pentanone	0.230	0.211		-8.26	20
Toluene	0.923	1.022		10.73	20
t-1,3-Dichloropropene	0.465	0.471		1.29	20
cis-1,3-Dichloropropene	0.548	0.564		2.92	20
1,1,2-Trichloroethane	0.260	0.265		1.92	20
2-Hexanone	0.153	0.145		-5.23	20
Dibromochloromethane	0.355	0.370		4.22	20
1,2-Dibromoethane	0.244	0.244		0	20
Tetrachloroethene	0.455	0.482		5.93	20
Chlorobenzene	1.146	1.216	0.3	6.11	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: MSVOA_Y Calibration Date/Time: 04/10/2025 09:51

Lab File ID: VY021826.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:08 12:02

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.965	2.166		10.23	20
m/p-Xylenes	0.753	0.846		12.35	20
o-Xylene	0.695	0.776		11.65	20
Styrene	1.158	1.305		12.69	20
Bromoform	0.232	0.227	0.1	-2.15	20
Isopropylbenzene	3.714	3.986		7.32	20
1,1,2,2-Tetrachloroethane	0.668	0.605	0.3	-9.43	20
1,3-Dichlorobenzene	1.757	1.868		6.32	20
1,4-Dichlorobenzene	1.736	1.812		4.38	20
1,2-Dichlorobenzene	1.529	1.605		4.97	20
1,2-Dibromo-3-Chloropropane	0.103	0.091		-11.65	20
1,2,4-Trichlorobenzene	0.829	0.913		10.13	20
1,2,3-Trichlorobenzene	0.707	0.777		9.9	20
1,2-Dichloroethane-d4	0.542	0.533		-1.66	20
Dibromofluoromethane	0.324	0.356		9.88	20
Toluene-d8	1.234	1.384		12.16	20
4-Bromofluorobenzene	0.417	0.462		10.79	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
 Data File : VY021826.D
 Acq On : 10 Apr 2025 09:51
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/11/2025
 Supervised By :Semsettin Yesilyurt 04/11/2025

Quant Time: Apr 11 01:48:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.713	168	208417	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	315600	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	284701	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	147243	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.067	65	111113	49.206	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	98.420%
35) Dibromofluoromethane	7.640	113	112354	54.881	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	109.760%
50) Toluene-d8	10.109	98	436882	56.094	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	112.180%
62) 4-Bromofluorobenzene	12.408	95	145955	55.404	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	110.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	98532	45.613	ug/l	99
3) Chloromethane	2.074	50	150388	49.510	ug/l	97
4) Vinyl Chloride	2.208	62	161932	47.139	ug/l	100
5) Bromomethane	2.605	94	106209	45.332	ug/l	100
6) Chloroethane	2.739	64	107256	47.715	ug/l	99
7) Trichlorofluoromethane	3.062	101	207328	47.115	ug/l	96
8) Diethyl Ether	3.464	74	54477	45.523	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.824	101	114300	49.248	ug/l	99
10) Methyl Iodide	4.013	142	154749	60.777	ug/l	99
11) Tert butyl alcohol	4.885	59	26187	178.541	ug/l	100
12) 1,1-Dichloroethene	3.799	96	108689	49.718	ug/l	97
13) Acrolein	3.659	56	17198	64.216	ug/l	98
14) Allyl chloride	4.391	41	173906	49.894	ug/l	99
15) Acrylonitrile	5.068	53	112828	225.807	ug/l	98
16) Acetone	3.873	43	109229	236.349	ug/l	94
17) Carbon Disulfide	4.110	76	342301	47.539	ug/l	98
18) Methyl Acetate	4.391	43	62162	54.271	ug/l	98
19) Methyl tert-butyl Ether	5.122	73	255447	46.934	ug/l	99
20) Methylene Chloride	4.622	84	120325	53.476	ug/l	97
21) trans-1,2-Dichloroethene	5.122	96	122021	50.695	ug/l	98
22) Diisopropyl ether	6.025	45	377364	51.611	ug/l	97
23) Vinyl Acetate	5.964	43	977082	228.429	ug/l	99
24) 1,1-Dichloroethane	5.927	63	223759	51.179	ug/l	98
25) 2-Butanone	6.903	43	145621	220.606	ug/l	99
26) 2,2-Dichloropropane	6.890	77	200181	51.473	ug/l	99
27) cis-1,2-Dichloroethene	6.896	96	139904	51.686	ug/l	99
28) Bromochloromethane	7.250	49	93389	50.649	ug/l	97
29) Tetrahydrofuran	7.268	42	90343	212.656	ug/l	99
30) Chloroform	7.427	83	232484	51.125	ug/l	97
31) Cyclohexane	7.707	56	184475	46.287	ug/l	97
32) 1,1,1-Trichloroethane	7.622	97	208666	50.770	ug/l	100
36) 1,1-Dichloropropene	7.841	75	164638	52.798	ug/l	99
37) Ethyl Acetate	6.988	43	62896	42.738	ug/l	98
38) Carbon Tetrachloride	7.823	117	188128	52.675	ug/l	98
39) Methylcyclohexane	9.116	83	194212	52.136	ug/l	98
40) Benzene	8.085	78	501413	53.693	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
 Data File : VY021826.D
 Acq On : 10 Apr 2025 09:51
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/11/2025

Supervised By :Semsettin Yesilyurt 04/11/2025

Quant Time: Apr 11 01:48:41 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M

Quant Title : SW846 8260

QLast Update : Fri Mar 28 02:30:29 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	33929	43.413	ug/l #	100
42) 1,2-Dichloroethane	8.165	62	133088	50.553	ug/l	99
43) Isopropyl Acetate	8.201	43	124046	44.479	ug/l	100
44) Trichloroethene	8.872	130	128316	53.929	ug/l	96
45) 1,2-Dichloropropane	9.146	63	119126	53.892	ug/l	99
46) Dibromomethane	9.231	93	64243	50.428	ug/l	97
47) Bromodichloromethane	9.427	83	173801	52.651	ug/l	98
48) Methyl methacrylate	9.225	41	59911	46.806	ug/l	99
49) 1,4-Dioxane	9.238	88	12222	895.567	ug/l	99
51) 4-Methyl-2-Pentanone	10.000	43	333294	229.648	ug/l	99
52) Toluene	10.176	92	322657	55.379	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	148534	50.659	ug/l	100
54) cis-1,3-Dichloropropene	9.859	75	177943	51.443	ug/l	99
55) 1,1,2-Trichloroethane	10.573	97	83588	50.986	ug/l	99
56) Ethyl methacrylate	10.445	69	105379	50.340	ug/l	99
57) 1,3-Dichloropropane	10.719	76	144923	51.185	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	262347	256.900	ug/l	99
59) 2-Hexanone	10.762	43	228630	236.540	ug/l	99
60) Dibromochloromethane	10.914	129	116641	52.111	ug/l	98
61) 1,2-Dibromoethane	11.018	107	77155	50.169	ug/l	99
64) Tetrachloroethene	10.652	164	137294	52.948	ug/l	97
65) Chlorobenzene	11.444	112	346329	53.067	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.518	131	123394	53.290	ug/l	98
67) Ethyl Benzene	11.524	91	616627	55.100	ug/l	99
68) m/p-Xylenes	11.633	106	481618	112.386	ug/l	99
69) o-Xylene	11.957	106	221057	55.882	ug/l	100
70) Styrene	11.975	104	371659	56.350	ug/l	100
71) Bromoform	12.133	173	64686	48.974	ug/l #	100
73) Isopropylbenzene	12.261	105	586895	53.665	ug/l	99
74) N-amyl acetate	12.072	43	114664	44.675	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.511	83	89104	45.317	ug/l	100
76) 1,2,3-Trichloropropane	12.560	75	62332m	42.706	ug/l	
77) Bromobenzene	12.536	156	136533	51.997	ug/l	97
78) n-propylbenzene	12.597	91	721133	54.847	ug/l	99
79) 2-Chlorotoluene	12.682	91	408141	53.445	ug/l	100
80) 1,3,5-Trimethylbenzene	12.743	105	485142	54.278	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	26773	42.266	ug/l	99
82) 4-Chlorotoluene	12.780	91	422172	53.027	ug/l	99
83) tert-Butylbenzene	12.999	119	435251	54.672	ug/l	99
84) 1,2,4-Trimethylbenzene	13.048	105	488158	55.258	ug/l	99
85) sec-Butylbenzene	13.182	105	630341	54.179	ug/l	99
86) p-Isopropyltoluene	13.298	119	532622	55.390	ug/l	100
87) 1,3-Dichlorobenzene	13.292	146	275041	53.165	ug/l	100
88) 1,4-Dichlorobenzene	13.371	146	266758	52.190	ug/l	99
89) n-Butylbenzene	13.621	91	489471	55.040	ug/l	100
90) Hexachloroethane	13.883	117	107148	50.848	ug/l	96
91) 1,2-Dichlorobenzene	13.664	146	236343	52.481	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.279	75	13445	44.118	ug/l	99
93) 1,2,4-Trichlorobenzene	14.926	180	134414	55.039	ug/l	100
94) Hexachlorobutadiene	15.029	225	82343	53.987	ug/l	98
95) Naphthalene	15.151	128	213787	52.813	ug/l	100
96) 1,2,3-Trichlorobenzene	15.334	180	114353	54.910	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021826.D
Acq On : 10 Apr 2025 09:51
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 04/11/2025
Supervised By :Semsettin Yesilyurt 04/11/2025

Quant Time: Apr 11 01:48:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

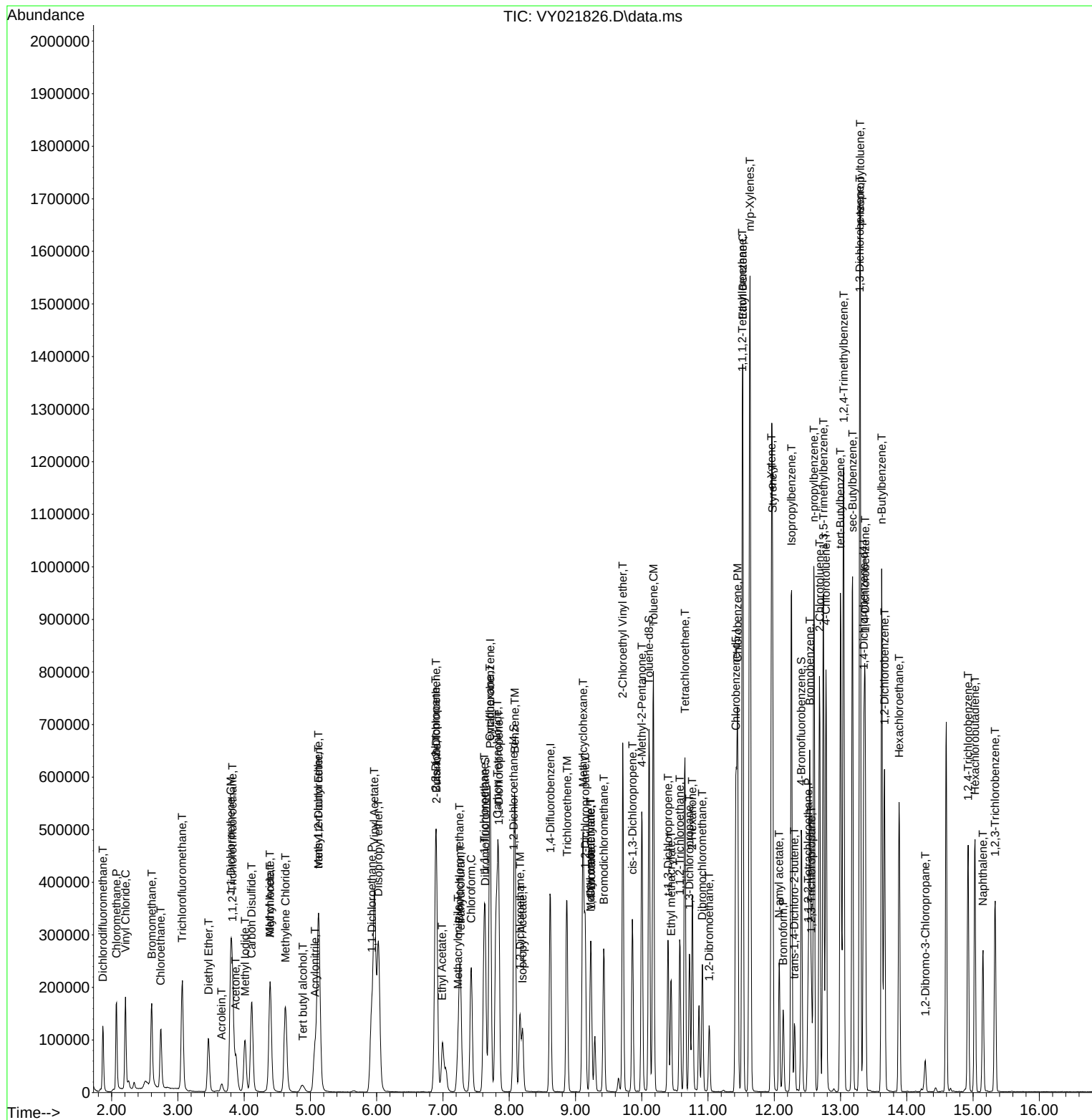
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
 Data File : VY021826.D
 Acq On : 10 Apr 2025 09:51
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/soil
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Quant Time: Apr 11 01:48:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Mahesh Dadoda 04/11/2025
 Supervised By : Semsettin Yesilyurt 04/11/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
 Data File : VY021826.D
 Acq On : 10 Apr 2025 09:51
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Apr 11 01:48:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	87	0.00
2 T	Dichlorodifluoromethane	0.518	0.473	8.7	82	0.00
3 P	Chloromethane	0.729	0.722	1.0	91	0.00
4 C	Vinyl Chloride	0.824	0.777	5.7#	85	0.00
5 T	Bromomethane	0.562	0.510	9.3	87	0.01
6 T	Chloroethane	0.539	0.515	4.5	88	0.00
7 T	Trichlorofluoromethane	1.056	0.995	5.8	86	0.00
8 T	Diethyl Ether	0.287	0.261	9.1	83	0.01
9 T	1,1,2-Trichlorotrifluoroeth	0.557	0.548	1.6	89	0.00
10 T	Methyl Iodide	0.611	0.742	-21.4	99	0.00
11 T	Tert butyl alcohol	0.035	0.025	28.6#	65	0.02
12 CM	1,1-Dichloroethene	0.524	0.521	0.6#	89	0.01
13 T	Acrolein	0.064	0.017	73.4#	23#	0.01
14 T	Allyl chloride	0.836	0.834	0.2	87	0.00
15 T	Acrylonitrile	0.120	0.108	10.0	78	0.00
16 T	Acetone	0.111	0.105	5.4	86	0.00
17 T	Carbon Disulfide	1.727	1.642	4.9	85	0.00
18 T	Methyl Acetate	0.275	0.298	-8.4	98	0.00
19 T	Methyl tert-butyl Ether	1.306	1.226	6.1	81	0.00
20 T	Methylene Chloride	0.626	0.577	7.8	90	0.00
21 T	trans-1,2-Dichloroethene	0.577	0.585	-1.4	90	0.00
22 T	Diisopropyl ether	1.754	1.811	-3.2	88	0.00
23 T	Vinyl Acetate	1.026	0.938	8.6	77	0.00
24 P	1,1-Dichloroethane	1.049	1.074	-2.4	90	0.01
25 T	2-Butanone	0.158	0.140	11.4	77	0.00
26 T	2,2-Dichloropropane	0.933	0.960	-2.9	91	0.00
27 T	cis-1,2-Dichloroethene	0.649	0.671	-3.4	90	0.00
28 T	Bromochloromethane	0.442	0.448	-1.4	92	0.00
29 T	Tetrahydrofuran	0.102	0.087	14.7	72	0.00
30 C	Chloroform	1.091	1.115	-2.2#	90	0.00
31 T	Cyclohexane	0.956	0.885	7.4	84	0.00
32 T	1,1,1-Trichloroethane	0.986	1.001	-1.5	91	0.00
33 S	1,2-Dichloroethane-d4	0.542	0.533	1.7	85	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	85	0.00
35 S	Dibromofluoromethane	0.324	0.356	-9.9	90	0.00
36 T	1,1-Dichloropropene	0.494	0.522	-5.7	89	0.00
37 T	Ethyl Acetate	0.233	0.199	14.6	72	0.00
38 T	Carbon Tetrachloride	0.566	0.596	-5.3	90	0.00
39 T	Methylcyclohexane	0.590	0.615	-4.2	85	0.00
40 TM	Benzene	1.479	1.589	-7.4	90	0.00
41 T	Methacrylonitrile	0.124	0.108	12.9	67	0.00
42 TM	1,2-Dichloroethane	0.417	0.422	-1.2	86	0.00
43 T	Isopropyl Acetate	0.442	0.393	11.1	74	0.00
44 TM	Trichloroethene	0.377	0.407	-8.0	93	0.00
45 C	1,2-Dichloropropane	0.350	0.377	-7.7#	91	0.00
46 T	Dibromomethane	0.202	0.204	-1.0	87	0.00
47 T	Bromodichloromethane	0.523	0.551	-5.4	89	0.00
48 T	Methyl methacrylate	0.203	0.190	6.4	77	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
 Data File : VY021826.D
 Acq On : 10 Apr 2025 09:51
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Apr 11 01:48:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.002	0.002	0.0	74	0.01
50 S	Toluene-d8	1.234	1.384	-12.2	90	0.00
51 T	4-Methyl-2-Pentanone	0.230	0.211	8.3	75	0.00
52 CM	Toluene	0.923	1.022	-10.7#	92	0.00
53 T	t-1,3-Dichloropropene	0.465	0.471	-1.3	83	0.00
54 T	cis-1,3-Dichloropropene	0.548	0.564	-2.9	85	0.00
55 T	1,1,2-Trichloroethane	0.260	0.265	-1.9	87	0.00
56 T	Ethyl methacrylate	0.332	0.334	-0.6	78	0.00
57 T	1,3-Dichloropropane	0.449	0.459	-2.2	85	0.00
58 T	2-Chloroethyl Vinyl ether	0.162	0.166	-2.5	79	0.00
59 T	2-Hexanone	0.153	0.145	5.2	76	0.00
60 T	Dibromochloromethane	0.355	0.370	-4.2	87	0.00
61 T	1,2-Dibromoethane	0.244	0.244	0.0	82	0.00
62 S	4-Bromofluorobenzene	0.417	0.462	-10.8	90	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	86	0.00
64 T	Tetrachloroethene	0.455	0.482	-5.9	93	0.00
65 PM	Chlorobenzene	1.146	1.216	-6.1	91	0.00
66 T	1,1,1,2-Tetrachloroethane	0.407	0.433	-6.4	91	0.00
67 C	Ethyl Benzene	1.965	2.166	-10.2#	91	0.00
68 T	m/p-Xylenes	0.753	0.846	-12.4	93	0.00
69 T	o-Xylene	0.695	0.776	-11.7	91	0.00
70 T	Styrene	1.158	1.305	-12.7	91	0.00
71 P	Bromoform	0.232	0.227	2.2	83	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	88	0.00
73 T	Isopropylbenzene	3.714	3.986	-7.3	91	0.00
74 T	N-amyl acetate	0.872	0.779	10.7	74	0.00
75 P	1,1,2,2-Tetrachloroethane	0.668	0.605	9.4	81	0.00
76 T	1,2,3-Trichloropropane	0.496	0.423	14.7	75	0.00
77 T	Bromobenzene	0.892	0.927	-3.9	91	0.00
78 T	n-propylbenzene	4.465	4.898	-9.7	93	0.00
79 T	2-Chlorotoluene	2.593	2.772	-6.9	92	0.00
80 T	1,3,5-Trimethylbenzene	3.035	3.295	-8.6	92	0.00
81 T	trans-1,4-Dichloro-2-butene	0.215	0.182	15.3	72	0.00
82 T	4-Chlorotoluene	2.704	2.867	-6.0	91	0.00
83 T	tert-Butylbenzene	2.703	2.956	-9.4	93	0.00
84 T	1,2,4-Trimethylbenzene	3.000	3.315	-10.5	93	0.00
85 T	sec-Butylbenzene	3.951	4.281	-8.4	92	0.00
86 T	p-Isopropyltoluene	3.265	3.617	-10.8	92	0.00
87 T	1,3-Dichlorobenzene	1.757	1.868	-6.3	94	0.00
88 T	1,4-Dichlorobenzene	1.736	1.812	-4.4	91	0.00
89 T	n-Butylbenzene	3.020	3.324	-10.1	92	0.00
90 T	Hexachloroethane	0.716	0.728	-1.7	90	0.00
91 T	1,2-Dichlorobenzene	1.529	1.605	-5.0	92	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.103	0.091	11.7	79	0.00
93 T	1,2,4-Trichlorobenzene	0.829	0.913	-10.1	91	0.00
94 T	Hexachlorobutadiene	0.518	0.559	-7.9	93	0.00
95 T	Naphthalene	1.375	1.452	-5.6	84	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021826.D
Acq On : 10 Apr 2025 09:51
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Apr 11 01:48:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.707	0.777	-9.9	91	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
 Data File : VY021826.D
 Acq On : 10 Apr 2025 09:51
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Apr 11 01:48:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	87	0.00
2 T	Dichlorodifluoromethane	50.000	45.613	8.8	82	0.00
3 P	Chloromethane	50.000	49.510	1.0	91	0.00
4 C	Vinyl Chloride	50.000	47.139	5.7#	85	0.00
5 T	Bromomethane	50.000	45.332	9.3	87	0.01
6 T	Chloroethane	50.000	47.715	4.6	88	0.00
7 T	Trichlorofluoromethane	50.000	47.115	5.8	86	0.00
8 T	Diethyl Ether	50.000	45.523	9.0	83	0.01
9 T	1,1,2-Trichlorotrifluoroeth	50.000	49.248	1.5	89	0.00
10 T	Methyl Iodide	50.000	60.777	-21.6	99	0.00
11 T	Tert butyl alcohol	250.000	178.541	28.6#	65	0.02
12 CM	1,1-Dichloroethene	50.000	49.718	0.6#	89	0.01
13 T	Acrolein	250.000	64.216	74.3#	23	0.01
14 T	Allyl chloride	50.000	49.894	0.2	87	0.00
15 T	Acrylonitrile	250.000	225.807	9.7	78	0.00
16 T	Acetone	250.000	236.349	5.5	86	0.00
17 T	Carbon Disulfide	50.000	47.539	4.9	85	0.00
18 T	Methyl Acetate	50.000	54.271	-8.5	98	0.00
19 T	Methyl tert-butyl Ether	50.000	46.934	6.1	81	0.00
20 T	Methylene Chloride	50.000	53.476	-7.0	90	0.00
21 T	trans-1,2-Dichloroethene	50.000	50.695	-1.4	90	0.00
22 T	Diisopropyl ether	50.000	51.611	-3.2	88	0.00
23 T	Vinyl Acetate	250.000	228.429	8.6	77	0.00
24 P	1,1-Dichloroethane	50.000	51.179	-2.4	90	0.01
25 T	2-Butanone	250.000	220.606	11.8	77	0.00
26 T	2,2-Dichloropropane	50.000	51.473	-2.9	91	0.00
27 T	cis-1,2-Dichloroethene	50.000	51.686	-3.4	90	0.00
28 T	Bromochloromethane	50.000	50.649	-1.3	92	0.00
29 T	Tetrahydrofuran	250.000	212.656	14.9	72	0.00
30 C	Chloroform	50.000	51.125	-2.3#	90	0.00
31 T	Cyclohexane	50.000	46.287	7.4	84	0.00
32 T	1,1,1-Trichloroethane	50.000	50.770	-1.5	91	0.00
33 S	1,2-Dichloroethane-d4	50.000	49.206	1.6	85	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	85	0.00
35 S	Dibromofluoromethane	50.000	54.881	-9.8	90	0.00
36 T	1,1-Dichloropropene	50.000	52.798	-5.6	89	0.00
37 T	Ethyl Acetate	50.000	42.738	14.5	72	0.00
38 T	Carbon Tetrachloride	50.000	52.675	-5.3	90	0.00
39 T	Methylcyclohexane	50.000	52.136	-4.3	85	0.00
40 TM	Benzene	50.000	53.693	-7.4	90	0.00
41 T	Methacrylonitrile	50.000	43.413	13.2	67	0.00
42 TM	1,2-Dichloroethane	50.000	50.553	-1.1	86	0.00
43 T	Isopropyl Acetate	50.000	44.479	11.0	74	0.00
44 TM	Trichloroethene	50.000	53.929	-7.9	93	0.00
45 C	1,2-Dichloropropane	50.000	53.892	-7.8#	91	0.00
46 T	Dibromomethane	50.000	50.428	-0.9	87	0.00
47 T	Bromodichloromethane	50.000	52.651	-5.3	89	0.00
48 T	Methyl methacrylate	50.000	46.806	6.4	77	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
 Data File : VY021826.D
 Acq On : 10 Apr 2025 09:51
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Apr 11 01:48:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	895.567	10.4	74	0.01
50 S	Toluene-d8	50.000	56.094	-12.2	90	0.00
51 T	4-Methyl-2-Pentanone	250.000	229.648	8.1	75	0.00
52 CM	Toluene	50.000	55.379	-10.8#	92	0.00
53 T	t-1,3-Dichloropropene	50.000	50.659	-1.3	83	0.00
54 T	cis-1,3-Dichloropropene	50.000	51.443	-2.9	85	0.00
55 T	1,1,2-Trichloroethane	50.000	50.986	-2.0	87	0.00
56 T	Ethyl methacrylate	50.000	50.340	-0.7	78	0.00
57 T	1,3-Dichloropropane	50.000	51.185	-2.4	85	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	256.900	-2.8	79	0.00
59 T	2-Hexanone	250.000	236.540	5.4	76	0.00
60 T	Dibromochloromethane	50.000	52.111	-4.2	87	0.00
61 T	1,2-Dibromoethane	50.000	50.169	-0.3	82	0.00
62 S	4-Bromofluorobenzene	50.000	55.404	-10.8	90	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	86	0.00
64 T	Tetrachloroethene	50.000	52.948	-5.9	93	0.00
65 PM	Chlorobenzene	50.000	53.067	-6.1	91	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	53.290	-6.6	91	0.00
67 C	Ethyl Benzene	50.000	55.100	-10.2#	91	0.00
68 T	m/p-Xylenes	100.000	112.386	-12.4	93	0.00
69 T	o-Xylene	50.000	55.882	-11.8	91	0.00
70 T	Styrene	50.000	56.350	-12.7	91	0.00
71 P	Bromoform	50.000	48.974	2.1	83	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	88	0.00
73 T	Isopropylbenzene	50.000	53.665	-7.3	91	0.00
74 T	N-amyl acetate	50.000	44.675	10.7	74	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	45.317	9.4	81	0.00
76 T	1,2,3-Trichloropropane	50.000	42.706	14.6	75	0.00
77 T	Bromobenzene	50.000	51.997	-4.0	91	0.00
78 T	n-propylbenzene	50.000	54.847	-9.7	93	0.00
79 T	2-Chlorotoluene	50.000	53.445	-6.9	92	0.00
80 T	1,3,5-Trimethylbenzene	50.000	54.278	-8.6	92	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	42.266	15.5	72	0.00
82 T	4-Chlorotoluene	50.000	53.027	-6.1	91	0.00
83 T	tert-Butylbenzene	50.000	54.672	-9.3	93	0.00
84 T	1,2,4-Trimethylbenzene	50.000	55.258	-10.5	93	0.00
85 T	sec-Butylbenzene	50.000	54.179	-8.4	92	0.00
86 T	p-Isopropyltoluene	50.000	55.390	-10.8	92	0.00
87 T	1,3-Dichlorobenzene	50.000	53.165	-6.3	94	0.00
88 T	1,4-Dichlorobenzene	50.000	52.190	-4.4	91	0.00
89 T	n-Butylbenzene	50.000	55.040	-10.1	92	0.00
90 T	Hexachloroethane	50.000	50.848	-1.7	90	0.00
91 T	1,2-Dichlorobenzene	50.000	52.481	-5.0	92	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	44.118	11.8	79	0.00
93 T	1,2,4-Trichlorobenzene	50.000	55.039	-10.1	91	0.00
94 T	Hexachlorobutadiene	50.000	53.987	-8.0	93	0.00
95 T	Naphthalene	50.000	52.813	-5.6	84	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021826.D
Acq On : 10 Apr 2025 09:51
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Apr 11 01:48:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	54.910	-9.8	91	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



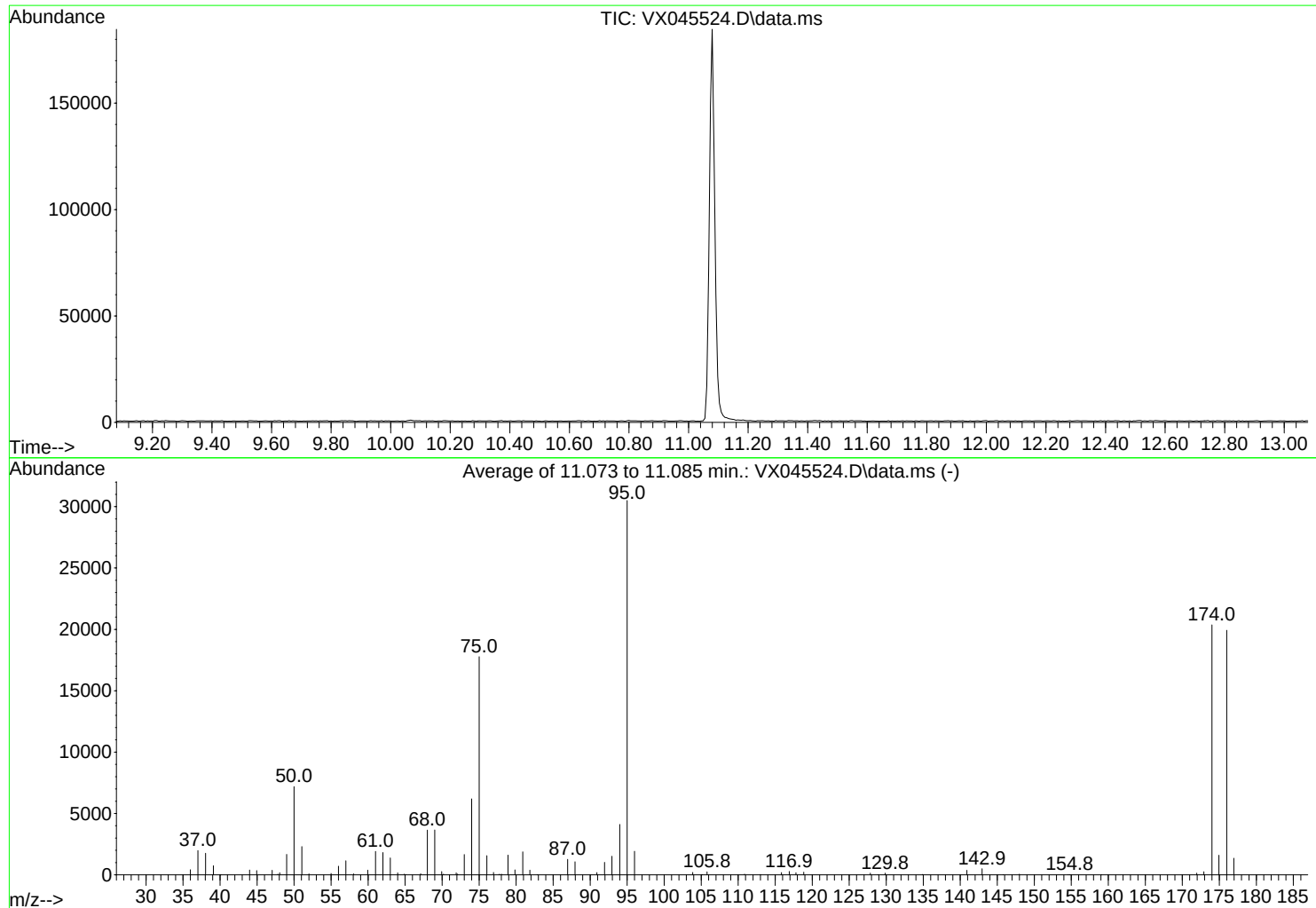
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045524.D
Acq On : 01 Apr 2025 16:15
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Title : SW846 8260
Last Update : Wed Apr 02 03:11:43 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

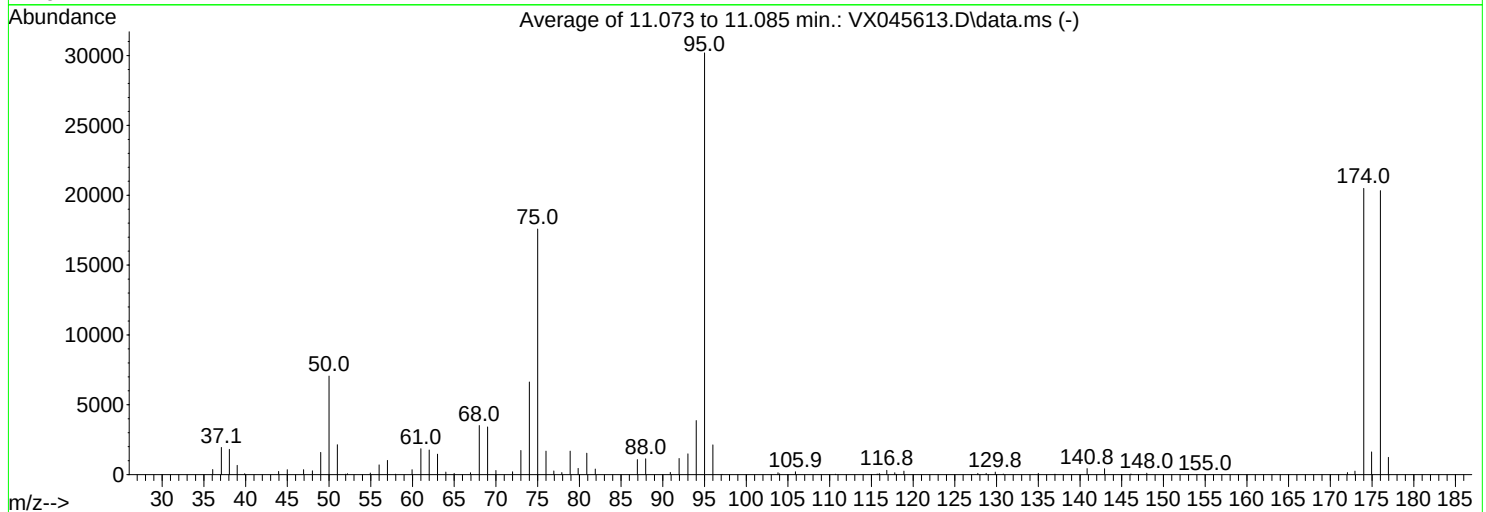
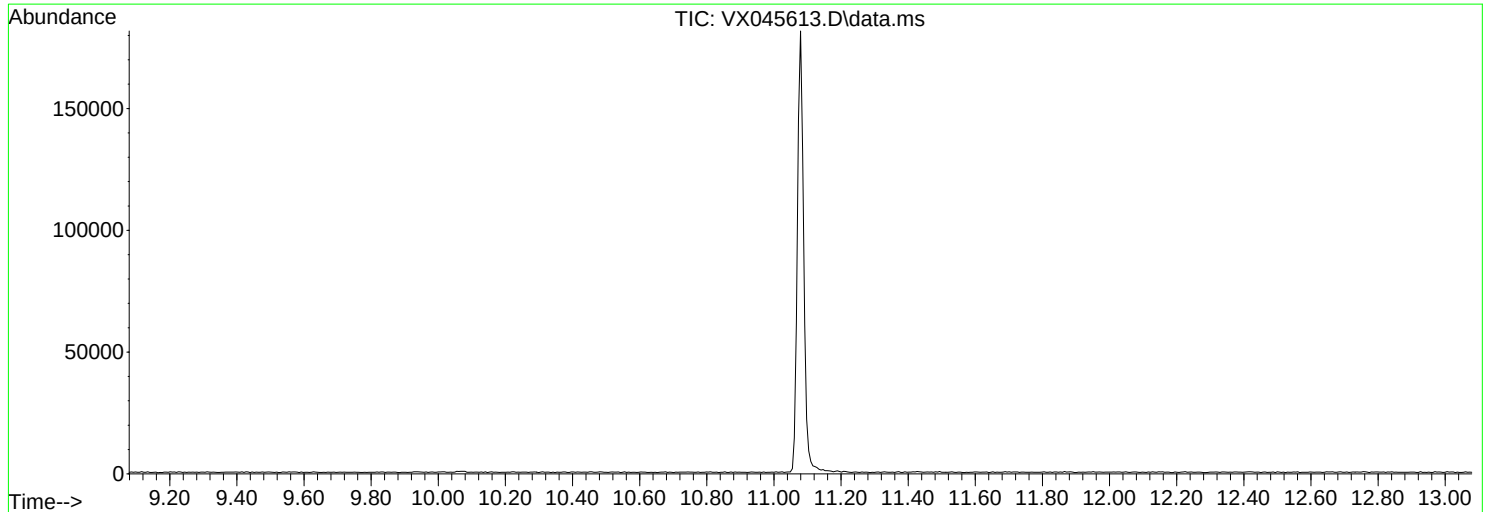
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.6	7184	PASS
75	95	30	60	58.2	17768	PASS
95	95	100	100	100.0	30504	PASS
96	95	5	9	6.3	1916	PASS
173	174	0.00	2	1.2	253	PASS
174	95	50	100	66.8	20365	PASS
175	174	5	9	7.8	1596	PASS
176	174	95	101	97.8	19923	PASS
177	176	5	9	6.8	1352	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045613.D
Acq On : 07 Apr 2025 08:34
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Title : SW846 8260
Last Update : Wed Apr 02 03:11:43 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

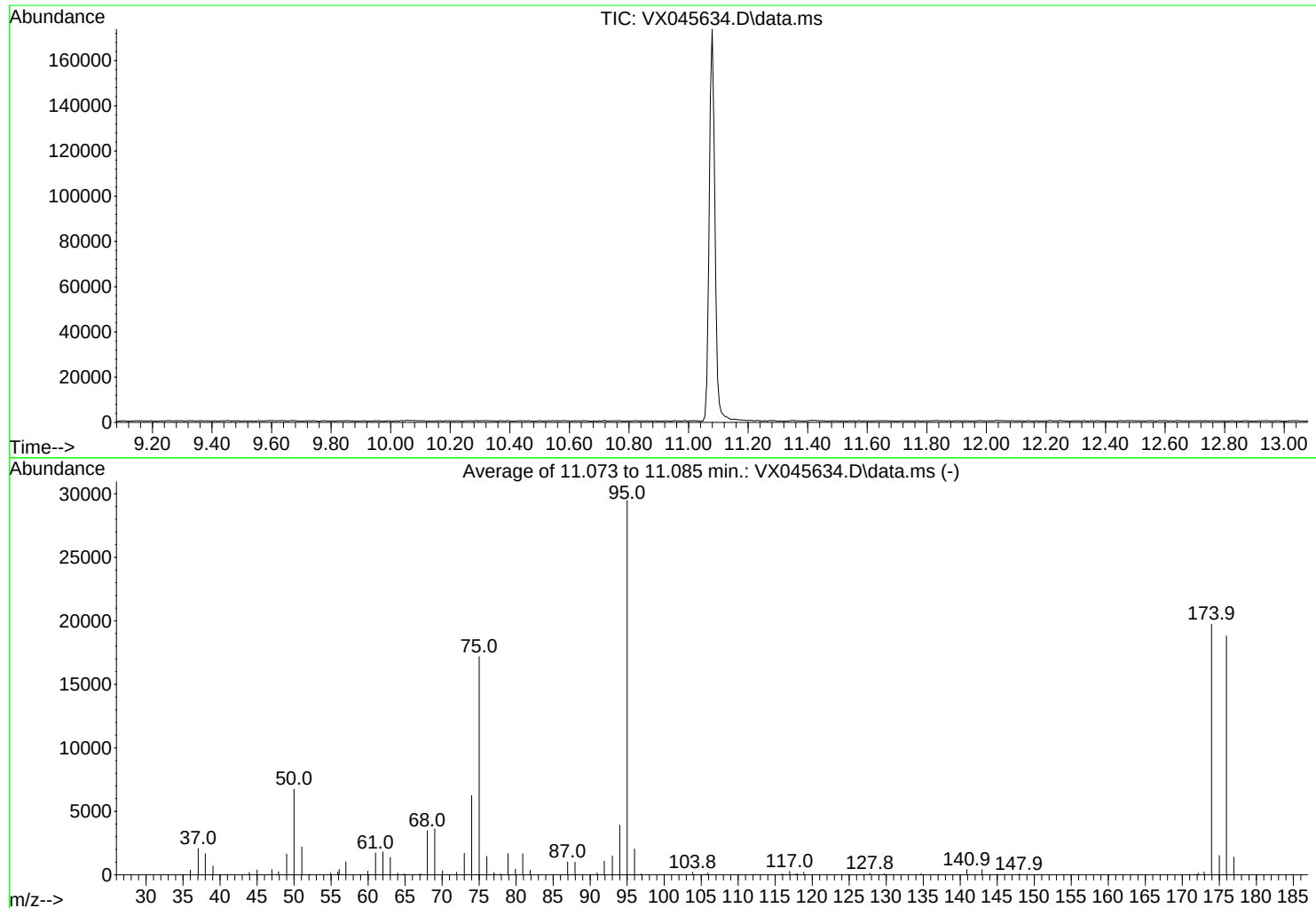
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.4	7056	PASS
75	95	30	60	58.2	17581	PASS
95	95	100	100	100.0	30192	PASS
96	95	5	9	7.1	2129	PASS
173	174	0.00	2	1.2	253	PASS
174	95	50	100	67.9	20491	PASS
175	174	5	9	8.0	1630	PASS
176	174	95	101	99.2	20331	PASS
177	176	5	9	6.1	1237	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045634.D
Acq On : 08 Apr 2025 07:49
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Title : SW846 8260
Last Update : Wed Apr 02 03:11:43 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

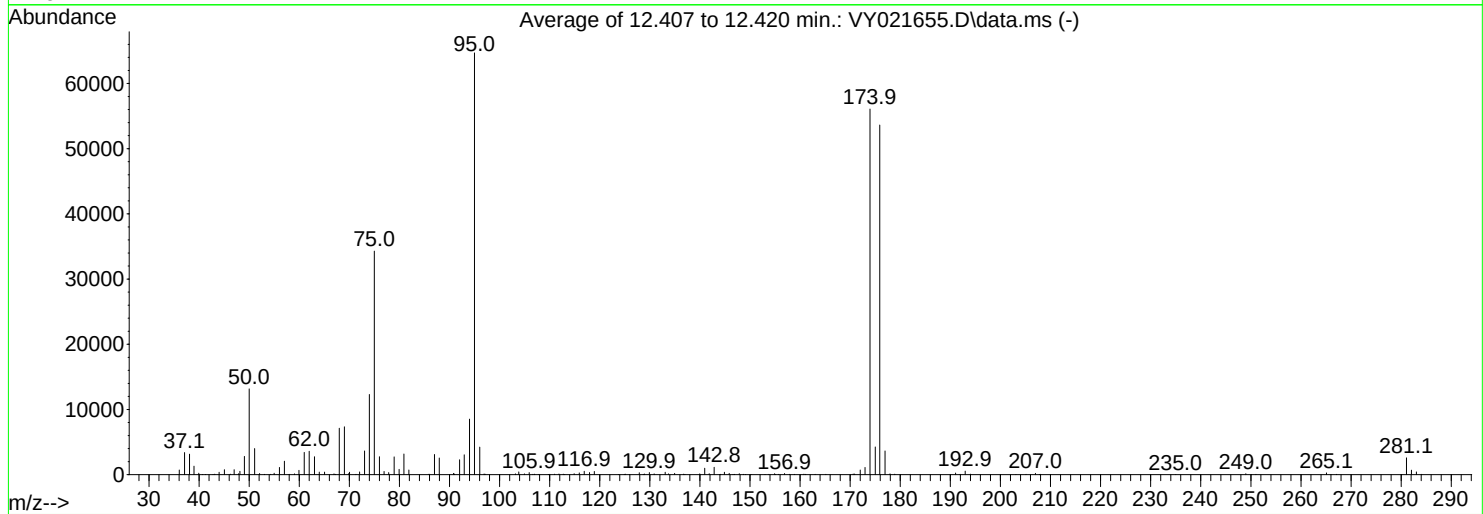
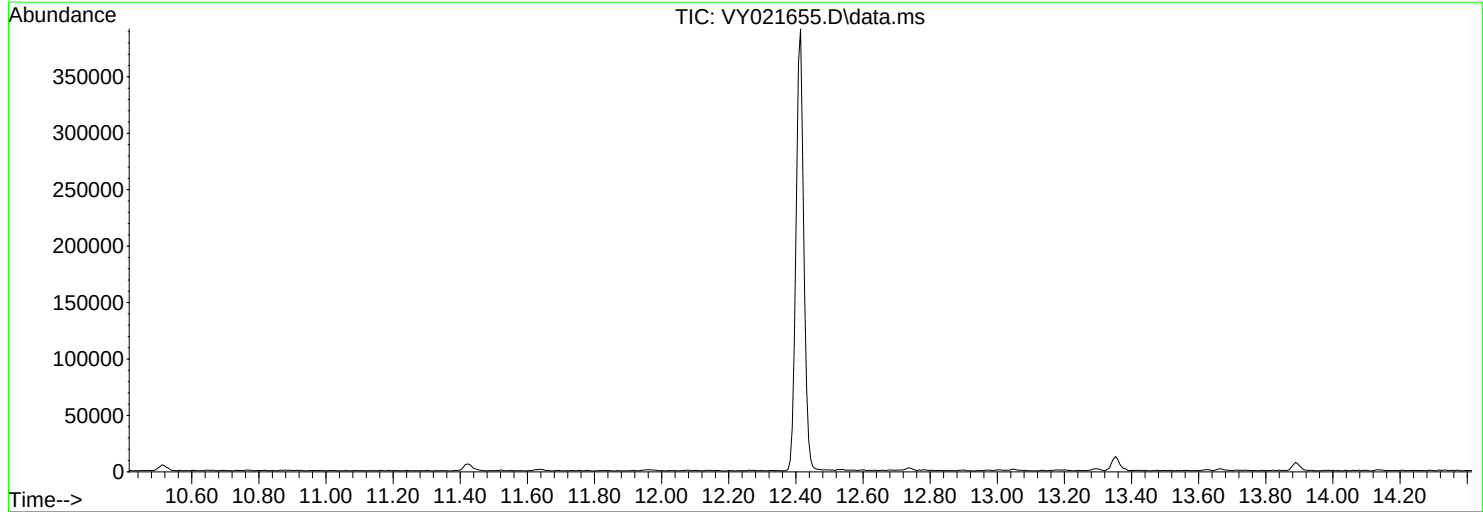
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.9	6760	PASS
75	95	30	60	58.3	17193	PASS
95	95	100	100	100.0	29480	PASS
96	95	5	9	6.9	2038	PASS
173	174	0.00	2	1.2	233	PASS
174	95	50	100	66.9	19731	PASS
175	174	5	9	7.7	1522	PASS
176	174	95	101	95.3	18808	PASS
177	176	5	9	7.5	1402	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021655.D
Acq On : 27 Mar 2025 09:23
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Title : SW846 8260
Last Update : Fri Mar 28 02:30:29 2025



AutoFind: Scans 1753, 1754, 1755; Background Corrected with Scan 1744

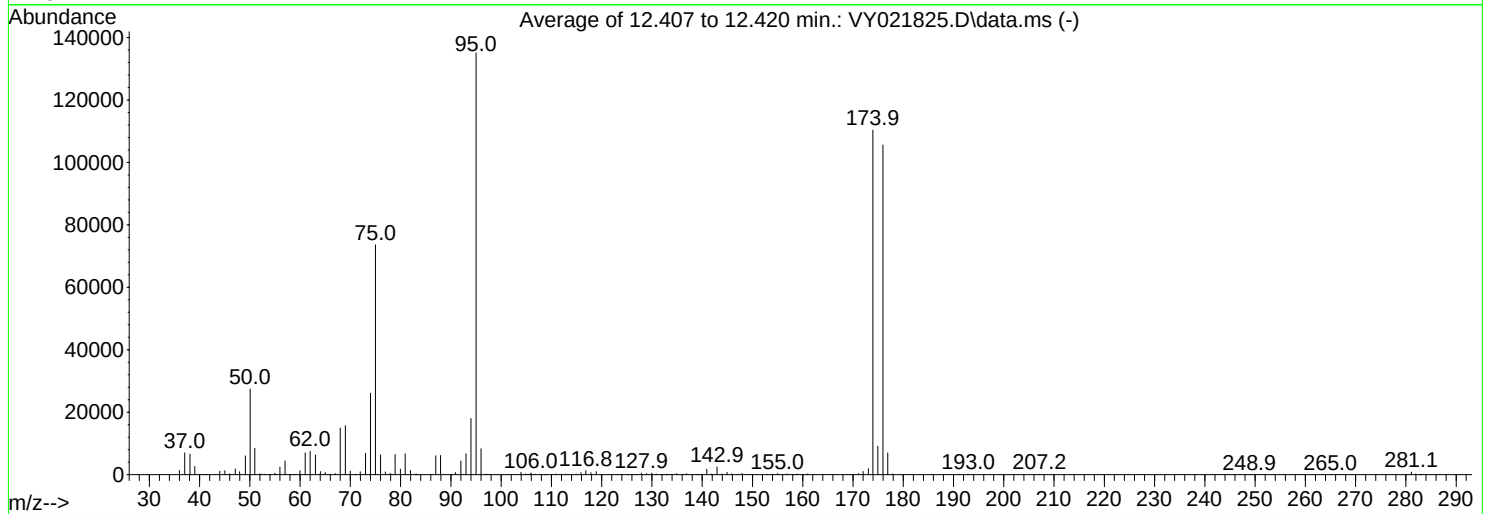
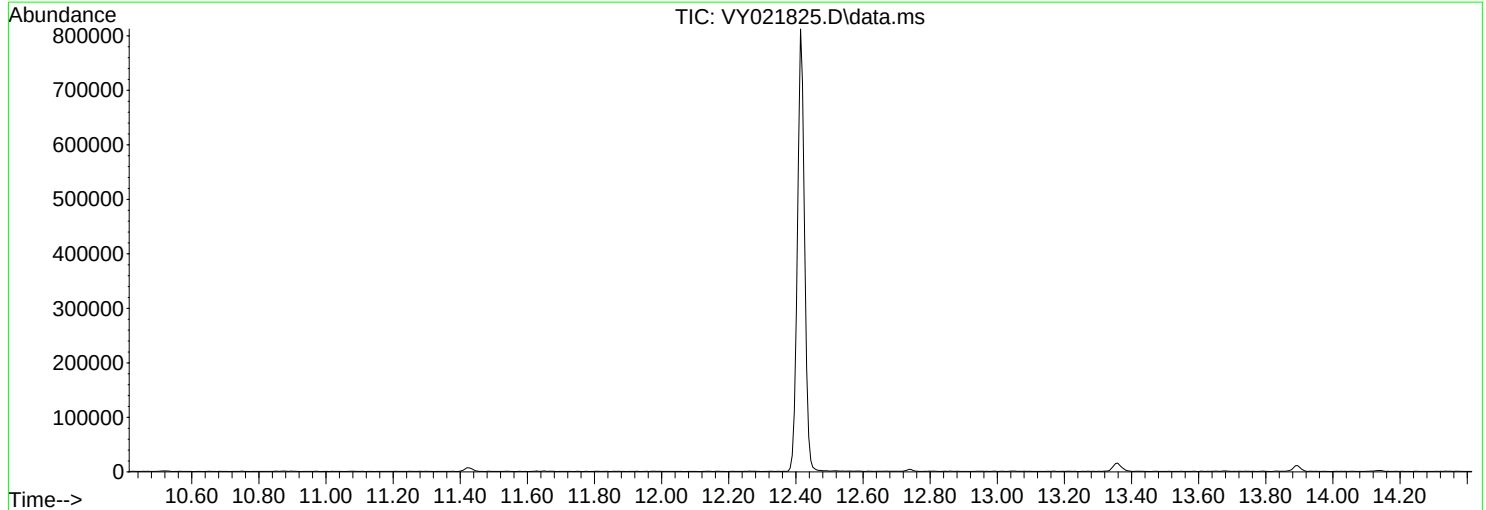
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	20.4	13171	PASS
75	95	30	60	53.0	34296	PASS
95	95	100	100	100.0	64701	PASS
96	95	5	9	6.5	4216	PASS
173	174	0.00	2	2.0	1112	PASS
174	95	50	100	86.7	56080	PASS
175	174	5	9	7.6	4256	PASS
176	174	95	101	95.6	53624	PASS
177	176	5	9	6.8	3635	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021825.D
Acq On : 10 Apr 2025 08:34
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Title : SW846 8260
Last Update : Fri Mar 28 02:30:29 2025



AutoFind: Scans 1753, 1754, 1755; Background Corrected with Scan 1745

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	20.3	27437	PASS
75	95	30	60	54.5	73621	PASS
95	95	100	100	100.0	135104	PASS
96	95	5	9	6.2	8311	PASS
173	174	0.00	2	1.7	1916	PASS
174	95	50	100	81.7	110355	PASS
175	174	5	9	8.2	9093	PASS
176	174	95	101	95.7	105587	PASS
177	176	5	9	6.6	6951	PASS

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0407WBL01	SDG No.:	Q1746
Lab Sample ID:	VX0407WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045616.D	1		04/07/25 10:11	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025		Date Received:	
Client Sample ID:	VX0407WBL01		SDG No.:	Q1746
Lab Sample ID:	VX0407WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045616.D	1		04/07/25 10:11	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.0		70 (74) - 130 (125)	112%	SPK: 50
1868-53-7	Dibromofluoromethane	52.1		70 (75) - 130 (124)	104%	SPK: 50
2037-26-5	Toluene-d8	51.0		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.6		70 (77) - 130 (121)	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	67500	5.544			
540-36-3	1,4-Difluorobenzene	133000	6.757			
3114-55-4	Chlorobenzene-d5	124000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	49900	12.018			

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	VX0407WBL01			SDG No.:	Q1746
Lab Sample ID:	VX0407WBL01			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI	ID :	0.18	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045616.D	1		04/07/25 10:11	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045616.D
Acq On : 07 Apr 2025 10:11
Operator : JC/MD
Sample : VX0407WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0407WBL01

Quant Time: Apr 08 01:34:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.544	168	67505	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	132975	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	123601	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	49926	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	69079	55.957	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	111.920%
35) Dibromofluoromethane	5.385	113	49178	52.125	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	104.260%
50) Toluene-d8	8.647	98	167958	51.004	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.000%
62) 4-Bromofluorobenzene	11.079	95	61925	51.626	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	103.260%

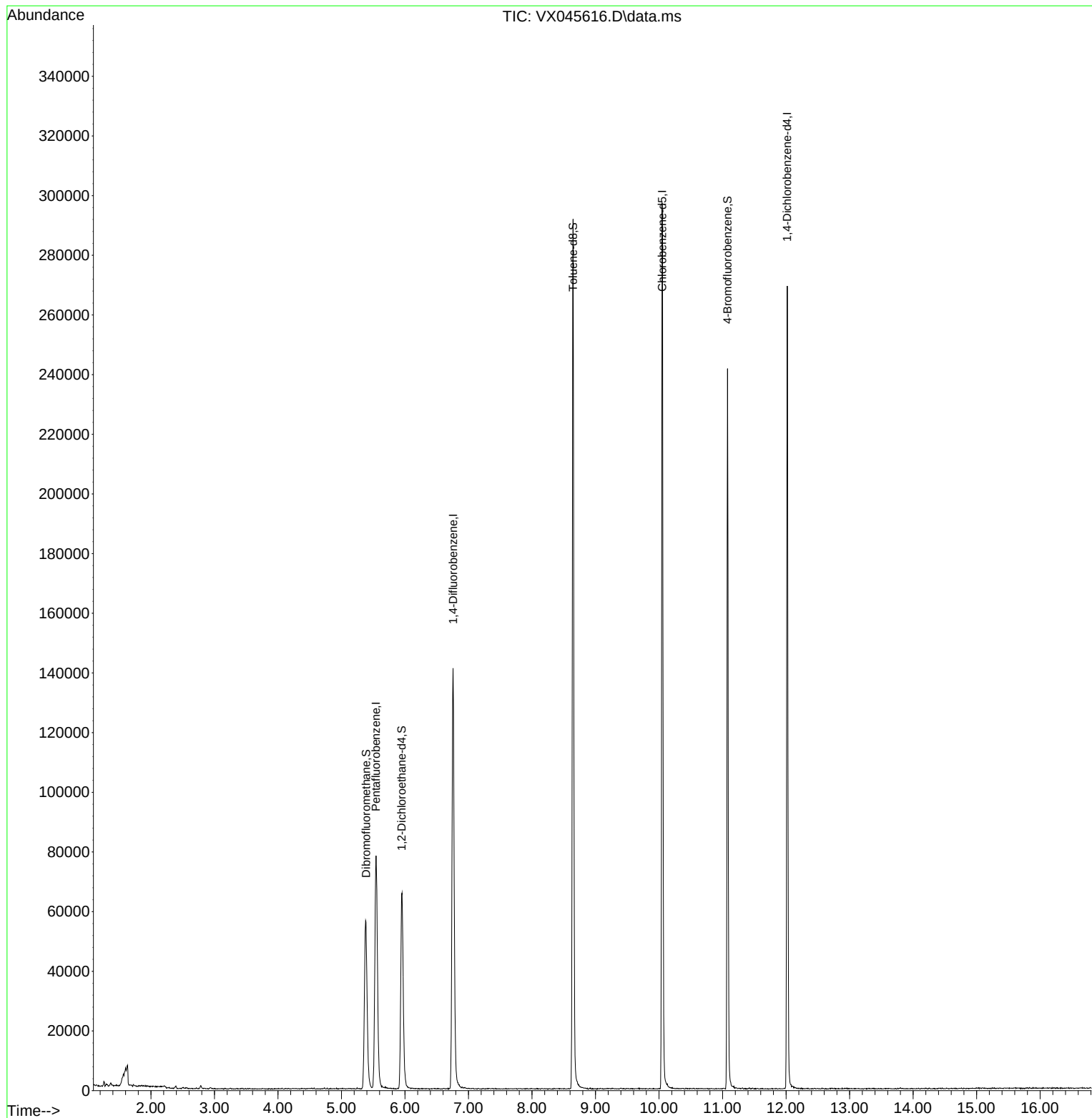
Target Compounds	Qvalue

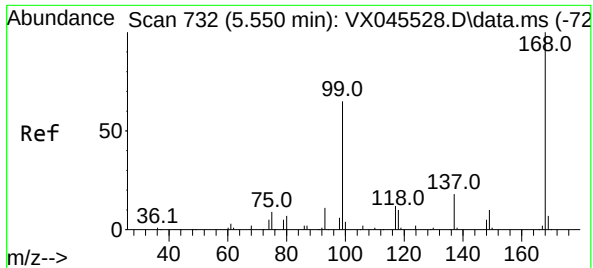
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045616.D
Acq On : 07 Apr 2025 10:11
Operator : JC/MD
Sample : VX0407WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0407WBL01

Quant Time: Apr 08 01:34:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

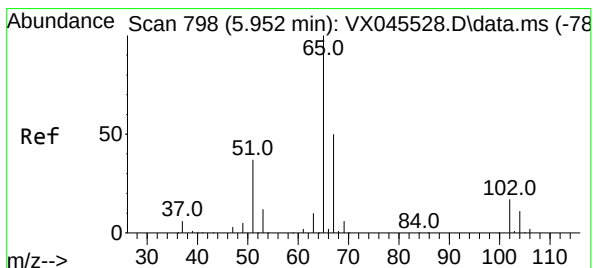
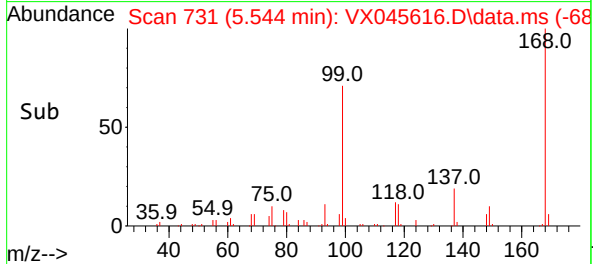
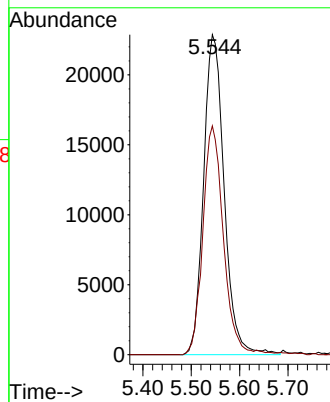
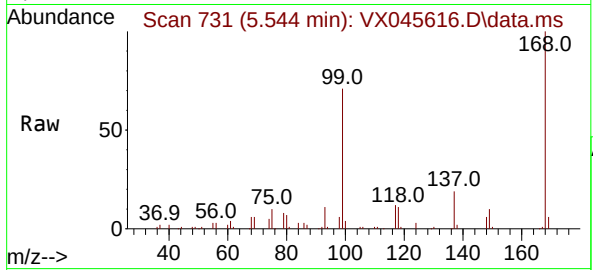




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045616.D
Acq: 07 Apr 2025 10:11

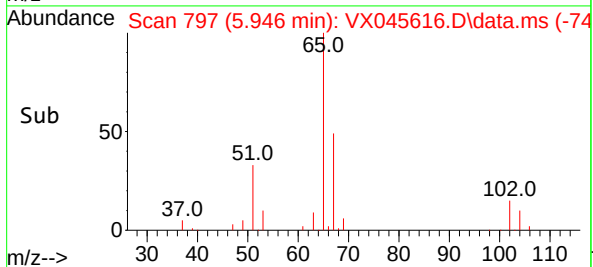
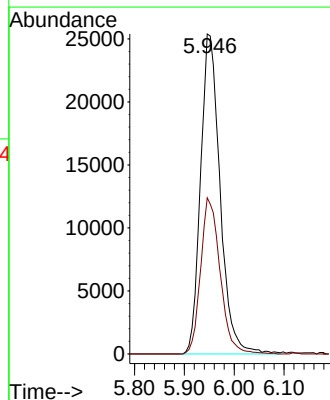
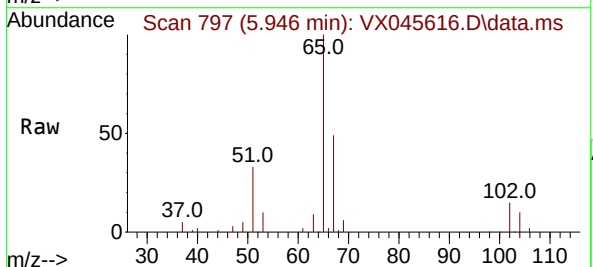
Instrument :
MSVOA_X
ClientSampleId :
VX0407WBL01

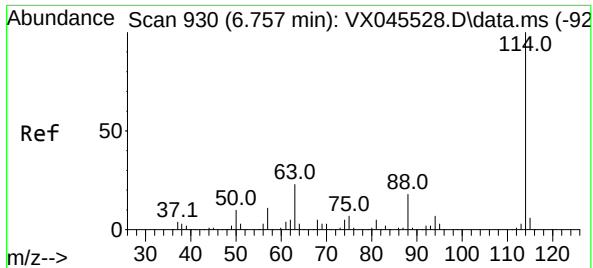
Tgt Ion:168 Resp: 67505
Ion Ratio Lower Upper
168 100
99 71.5 52.3 78.5



#33
1,2-Dichloroethane-d4
Concen: 55.957 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.006 min
Lab File: VX045616.D
Acq: 07 Apr 2025 10:11

Tgt Ion: 65 Resp: 69079
Ion Ratio Lower Upper
65 100
67 48.6 0.0 99.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX045616.D

Acq: 07 Apr 2025 10:11

Instrument :

MSVOA_X

ClientSampleId :

VX0407WBL01

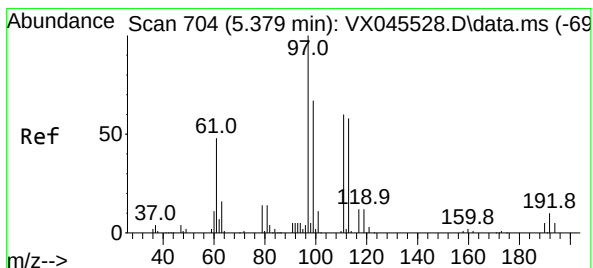
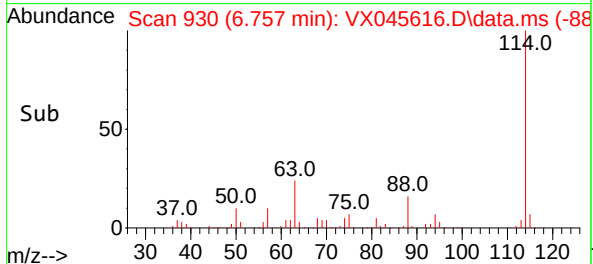
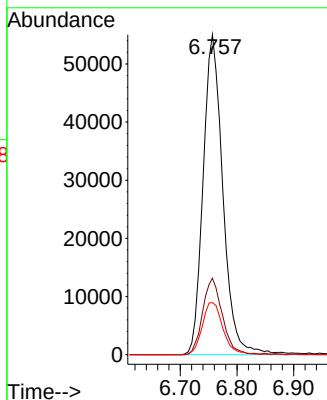
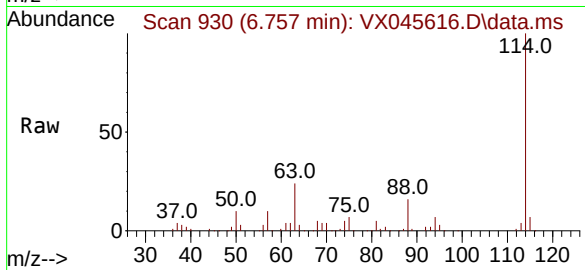
Tgt Ion:114 Resp: 132975

Ion Ratio Lower Upper

114 100

63 23.9 0.0 46.8

88 16.2 0.0 35.4



#35

Dibromofluoromethane

Concen: 52.125 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.006 min

Lab File: VX045616.D

Acq: 07 Apr 2025 10:11

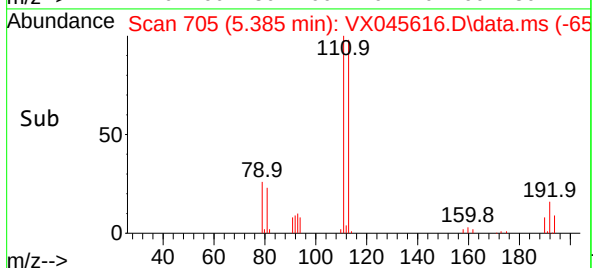
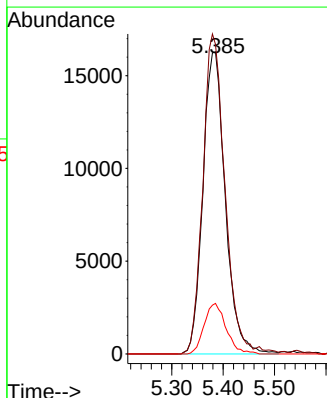
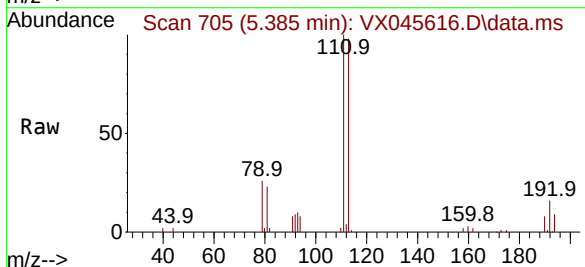
Tgt Ion:113 Resp: 49178

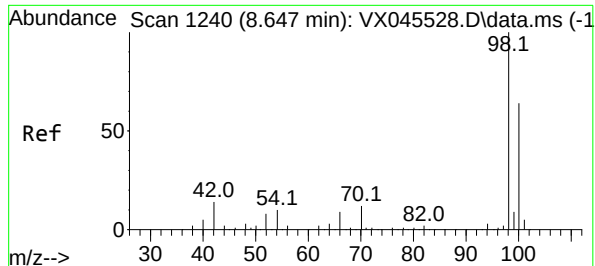
Ion Ratio Lower Upper

113 100

111 105.0 81.8 122.6

192 16.4 13.8 20.6





#50

Toluene-d8

Concen: 51.004 ug/l

RT: 8.647 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX045616.D

Acq: 07 Apr 2025 10:11

Instrument :

MSVOA_X

ClientSampleId :

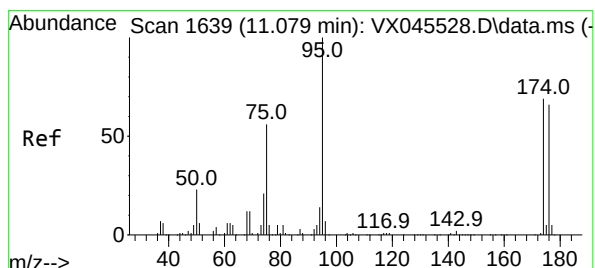
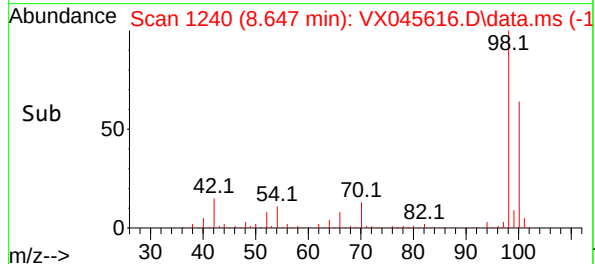
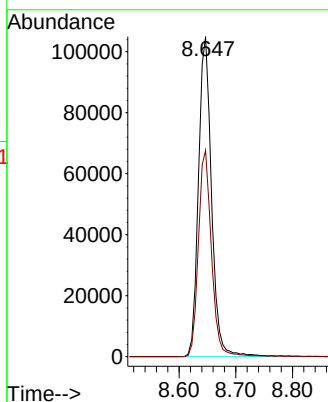
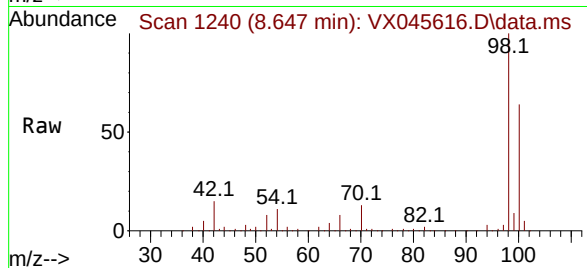
VX0407WBL01

Tgt Ion: 98 Resp: 167958

Ion Ratio Lower Upper

98 100

100 64.8 52.2 78.4



#62

4-Bromofluorobenzene

Concen: 51.626 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX045616.D

Acq: 07 Apr 2025 10:11

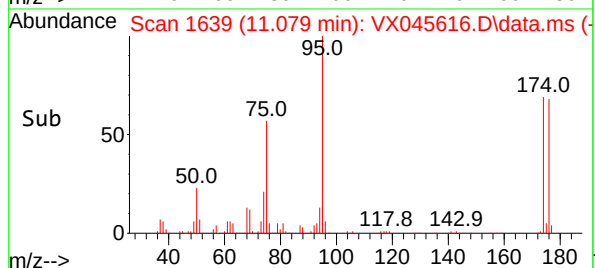
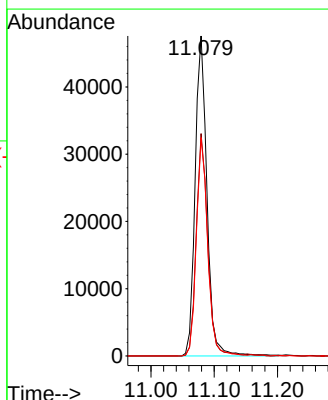
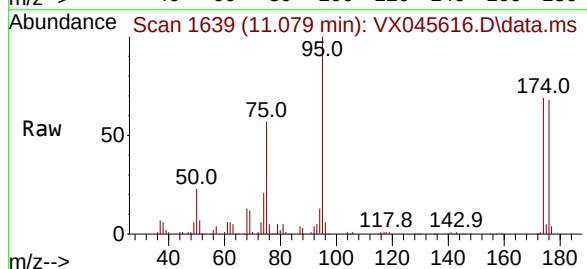
Tgt Ion: 95 Resp: 61925

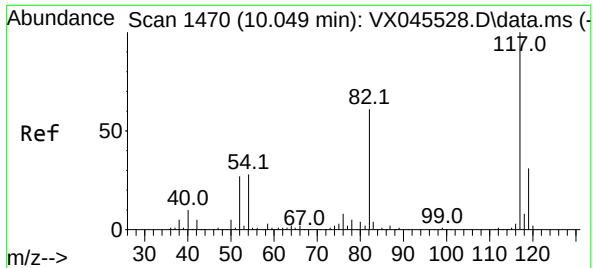
Ion Ratio Lower Upper

95 100

174 67.3 0.0 135.8

176 65.4 0.0 131.4

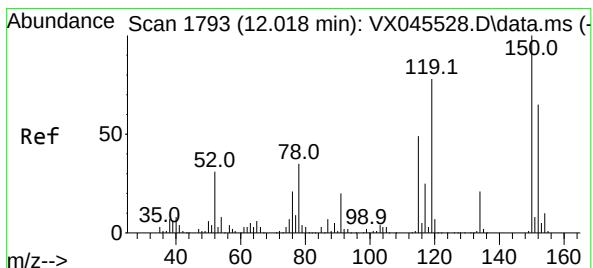
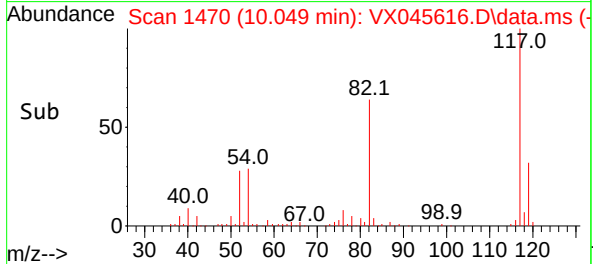
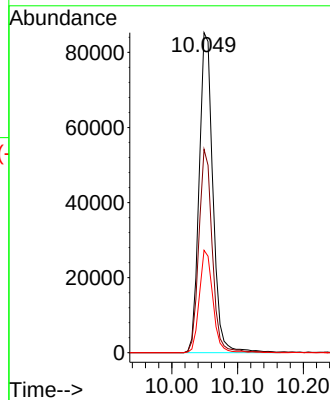
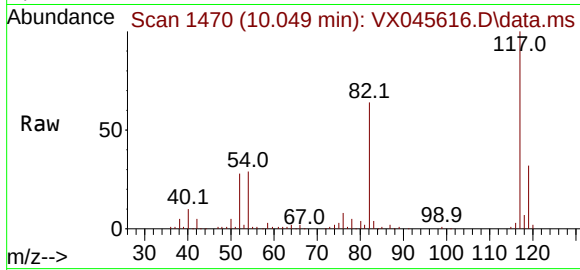




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045616.D
Acq: 07 Apr 2025 10:11

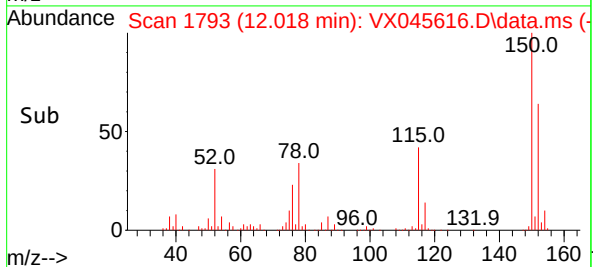
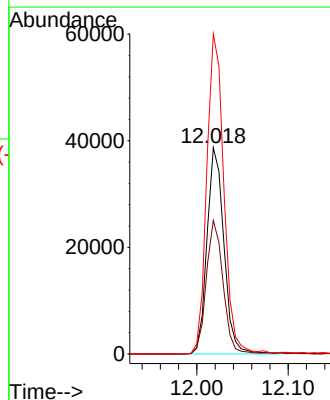
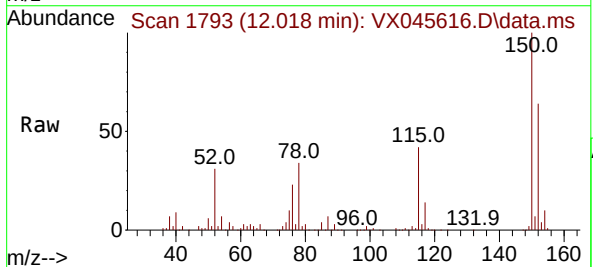
Instrument :
MSVOA_X
ClientSampleId :
VX0407WBL01

Tgt Ion:117 Resp: 123601
Ion Ratio Lower Upper
117 100
82 63.5 49.2 73.8
119 32.0 25.1 37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045616.D
Acq: 07 Apr 2025 10:11

Tgt Ion:152 Resp: 49926
Ion Ratio Lower Upper
152 100
115 64.5 46.9 140.7
150 156.2 0.0 349.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
 Data File : VX045616.D
 Acq On : 07 Apr 2025 10:11
 Operator : JC/MD
 Sample : VX0407WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0407WBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M

Title : SW846 8260

Signal : TIC: VX045616.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.569	68	79	80	rBV3	4016	9062	1.93%	0.365%
2	1.599	80	84	86	rVV5	5888	11080	2.36%	0.447%
3	1.630	86	89	93	rVB3	6782	9179	1.96%	0.370%
4	5.379	693	704	720	rBV	56454	168857	35.97%	6.810%
5	5.544	721	731	745	rVV	77738	223369	47.58%	9.009%
6	5.952	789	798	818	rBV2	65657	179851	38.31%	7.254%
7	6.757	921	930	945	rBV	140908	340483	72.53%	13.732%
8	8.647	1234	1240	1260	rBV	291366	469416	100.00%	18.932%
9	10.049	1465	1470	1482	rBV	297022	421347	89.76%	16.993%
10	11.079	1634	1639	1650	rBV	241438	307193	65.44%	12.389%
11	12.018	1788	1793	1802	rBV	268939	339633	72.35%	13.698%

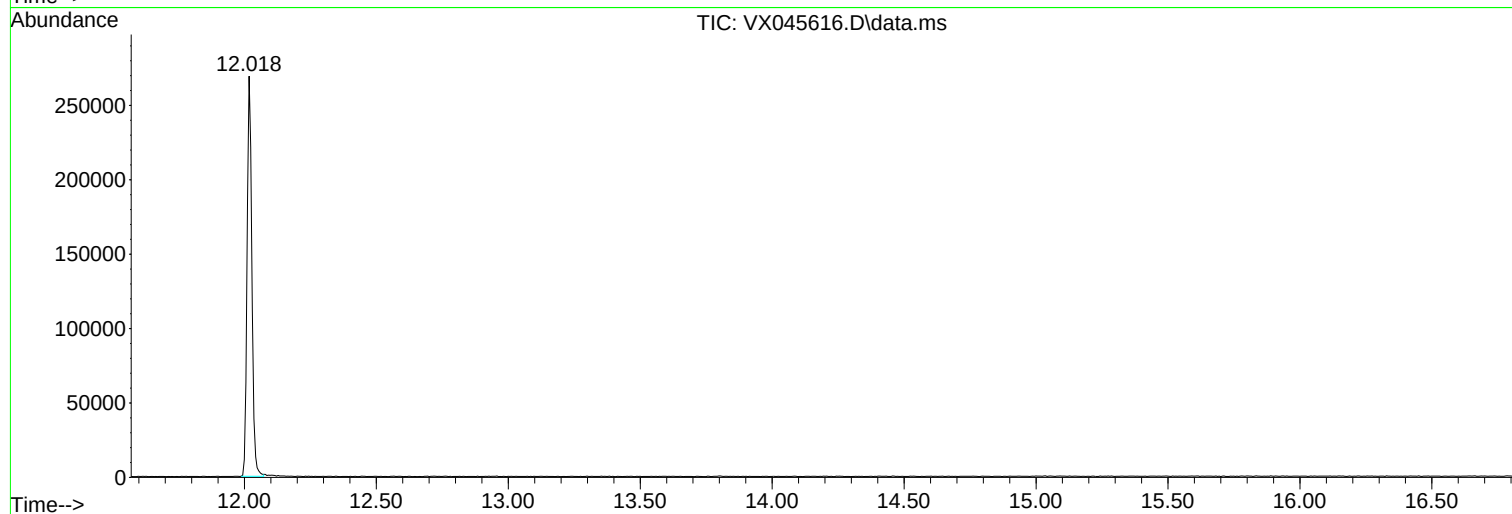
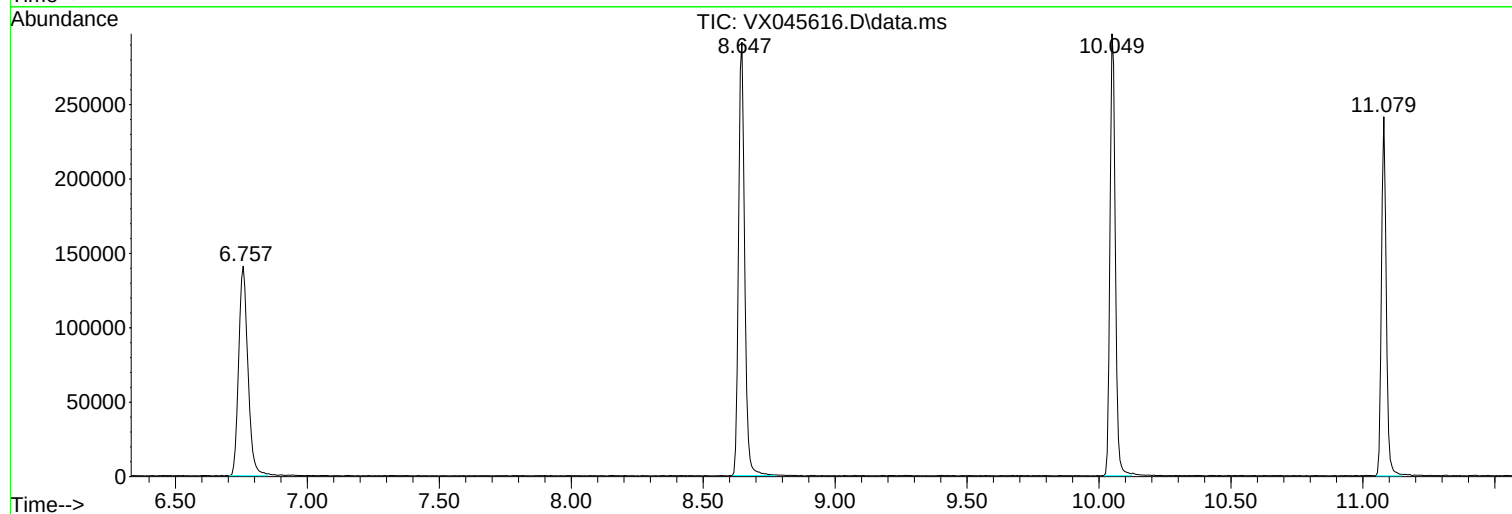
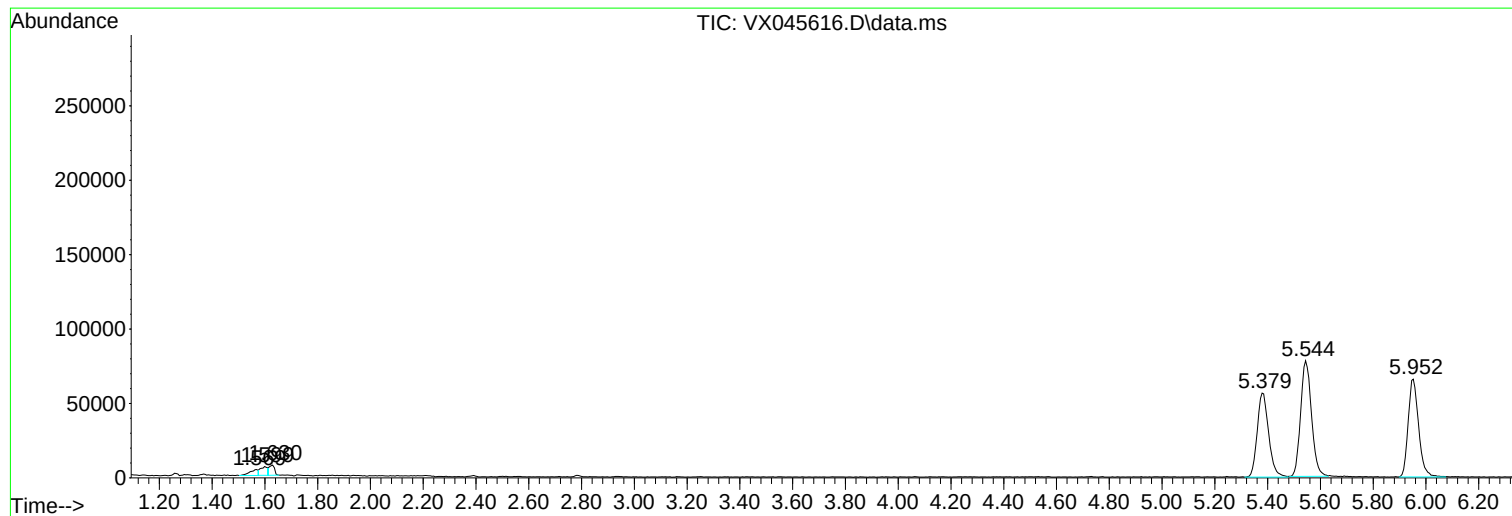
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045616.D
Acq On : 07 Apr 2025 10:11
Operator : JC/MD
Sample : VX0407WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0407WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045616.D
Acq On : 07 Apr 2025 10:11
Operator : JC/MD
Sample : VX0407WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0407WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045616.D
Acq On : 07 Apr 2025 10:11
Operator : JC/MD
Sample : VX0407WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0407WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0408WBL01	SDG No.:	Q1746
Lab Sample ID:	VX0408WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045637.D	1		04/08/25 09:12	VX040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0408WBL01	SDG No.:	Q1746
Lab Sample ID:	VX0408WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045637.D	1		04/08/25 09:12	VX040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.5		70 (74) - 130 (125)	111%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	51.3		70 (86) - 130 (113)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.9		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	66500	5.549			
540-36-3	1,4-Difluorobenzene	130000	6.757			
3114-55-4	Chlorobenzene-d5	123000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	51600	12.018			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0408WBL01	SDG No.:	Q1746
Lab Sample ID:	VX0408WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045637.D	1		04/08/25 09:12	VX040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
 Data File : VX045637.D
 Acq On : 08 Apr 2025 09:12
 Operator : JC/MD
 Sample : VX0408WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0408BWL01

Quant Time: Apr 09 01:31:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.549	168	66539	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	129800	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	123174	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	51559	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	67529	55.496	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	111.000%
35) Dibromofluoromethane	5.379	113	48500	52.664	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	105.320%
50) Toluene-d8	8.646	98	165054	51.348	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.700%
62) 4-Bromofluorobenzene	11.079	95	60782	51.913	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	103.820%

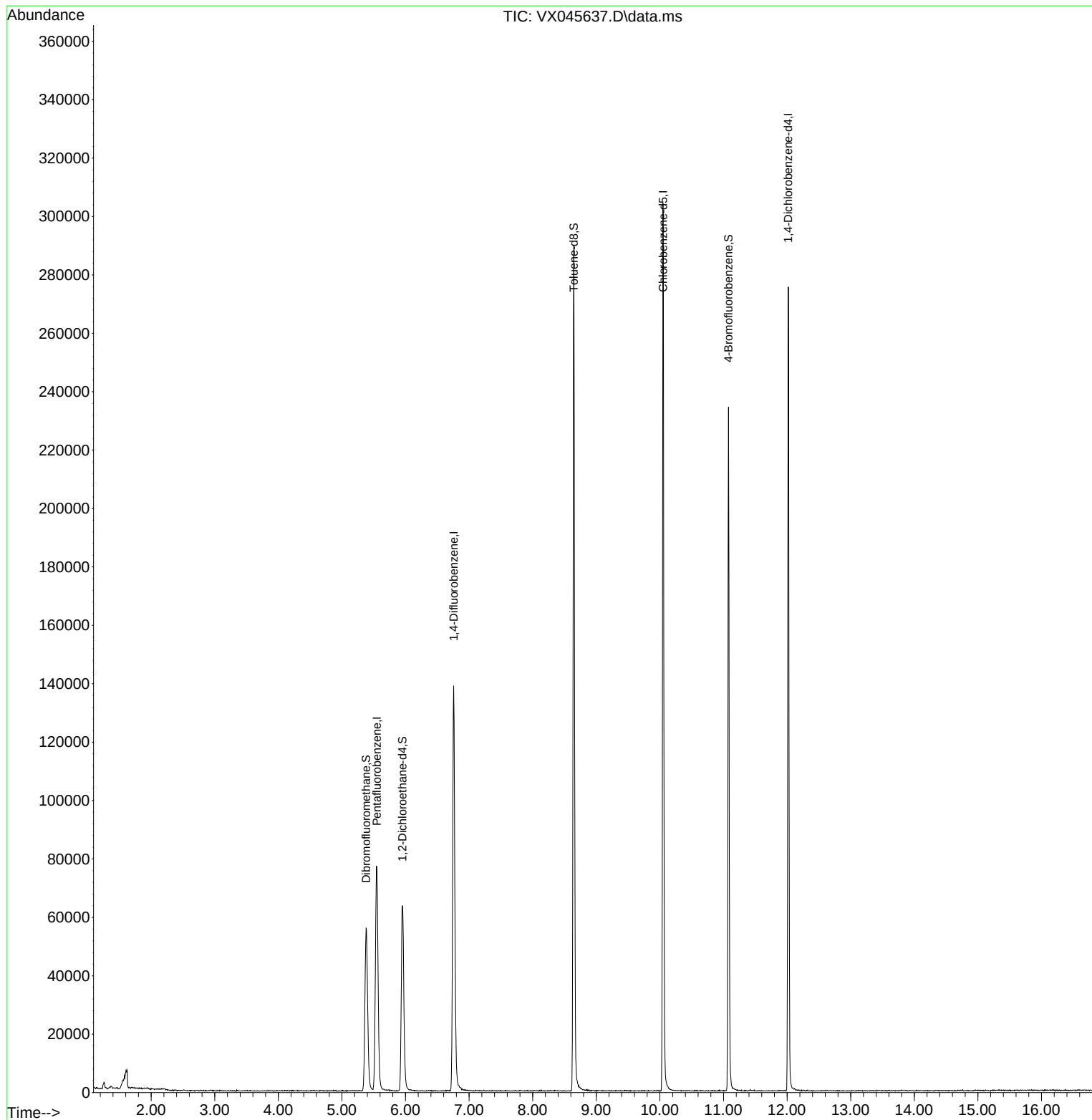
Target Compounds	Qvalue

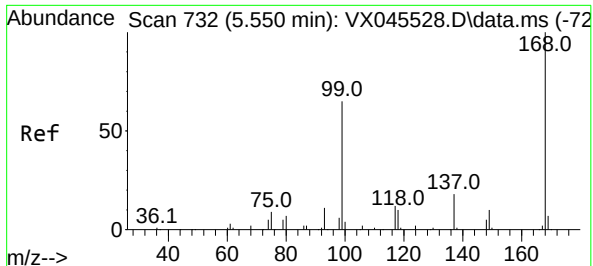
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045637.D
Acq On : 08 Apr 2025 09:12
Operator : JC/MD
Sample : VX0408WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0408WBL01

Quant Time: Apr 09 01:31:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

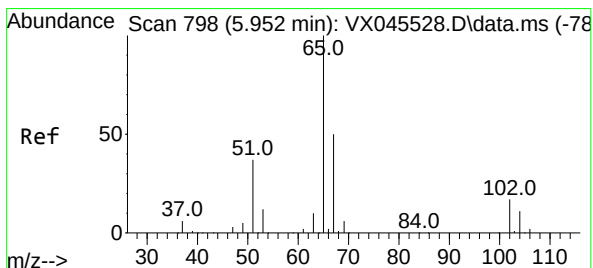
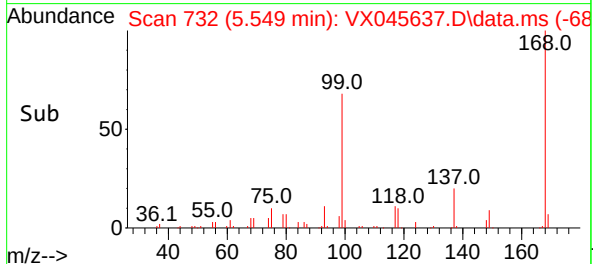
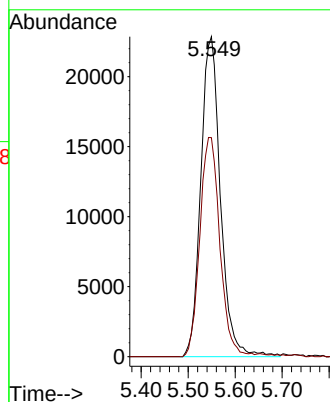
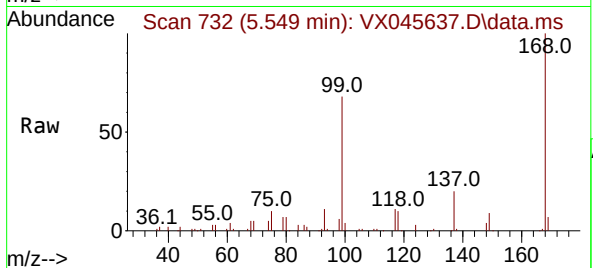




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.549 min Scan# 71
Delta R.T. -0.001 min
Lab File: VX045637.D
Acq: 08 Apr 2025 09:12

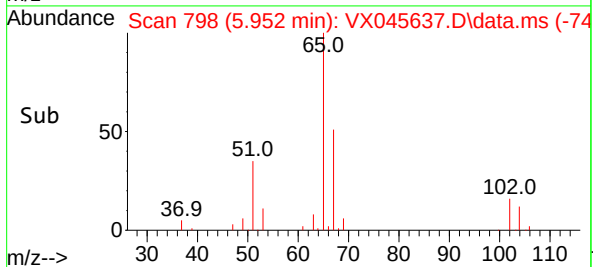
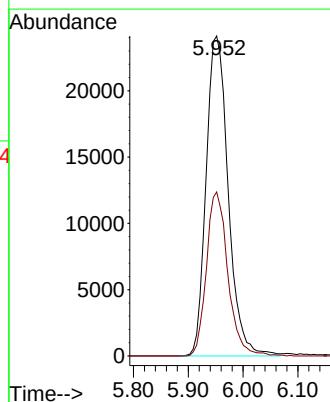
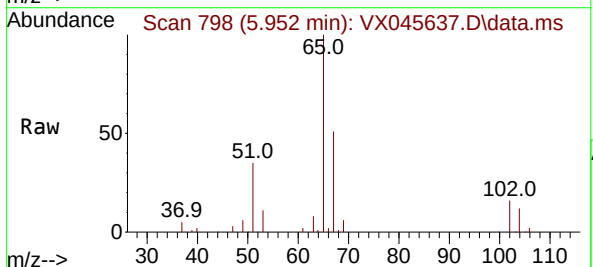
Instrument :
MSVOA_X
ClientSampleId :
VX0408BWL01

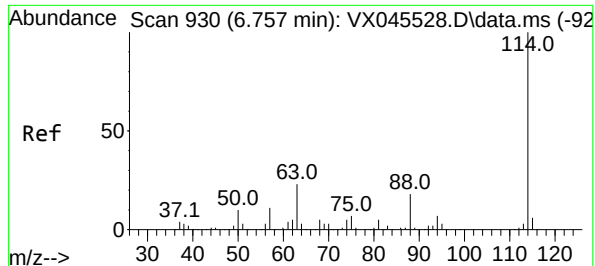
Tgt Ion:168 Resp: 66539
Ion Ratio Lower Upper
168 100
99 68.5 52.3 78.5



#33
1,2-Dichloroethane-d4
Concen: 55.496 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045637.D
Acq: 08 Apr 2025 09:12

Tgt Ion: 65 Resp: 67529
Ion Ratio Lower Upper
65 100
67 49.7 0.0 99.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX045637.D

Acq: 08 Apr 2025 09:12

Instrument :

MSVOA_X

ClientSampleId :

VX0408BWL01

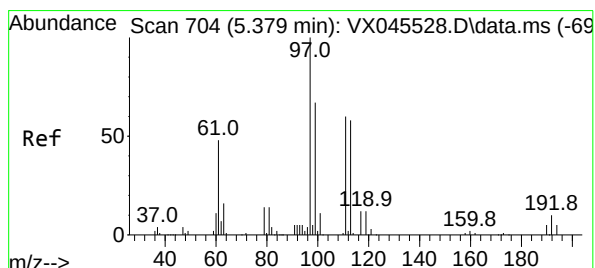
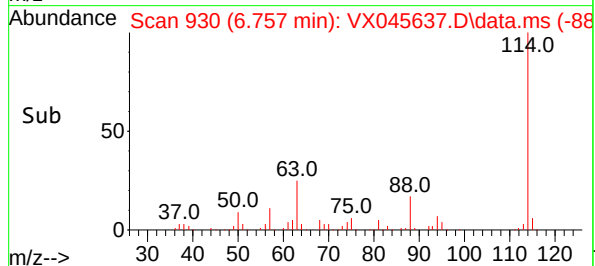
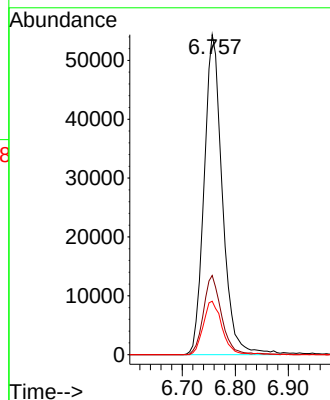
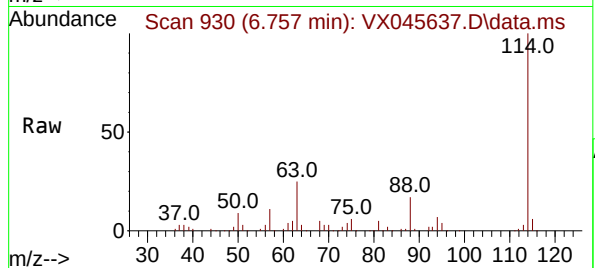
Tgt Ion:114 Resp: 129800

Ion Ratio Lower Upper

114 100

63 24.8 0.0 46.8

88 16.7 0.0 35.4



#35

Dibromofluoromethane

Concen: 52.664 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.000 min

Lab File: VX045637.D

Acq: 08 Apr 2025 09:12

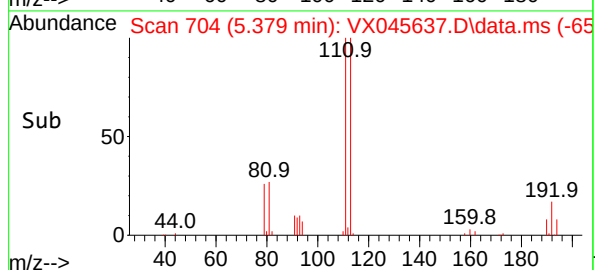
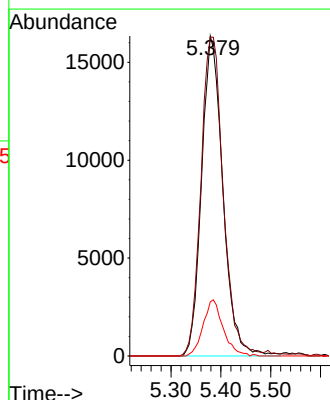
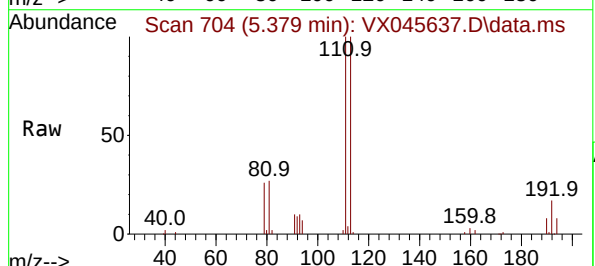
Tgt Ion:113 Resp: 48500

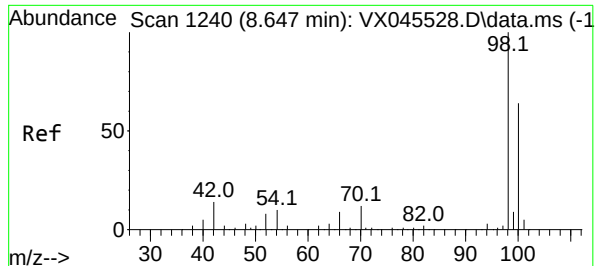
Ion Ratio Lower Upper

113 100

111 103.9 81.8 122.6

192 16.5 13.8 20.6





#50

Toluene-d8

Concen: 51.348 ug/l

RT: 8.646 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX045637.D

Acq: 08 Apr 2025 09:12

Instrument :

MSVOA_X

ClientSampleId :

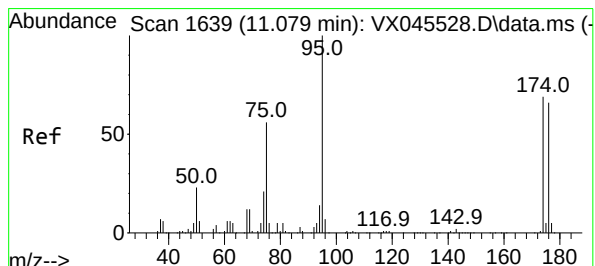
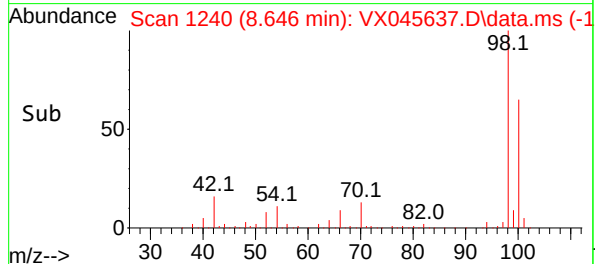
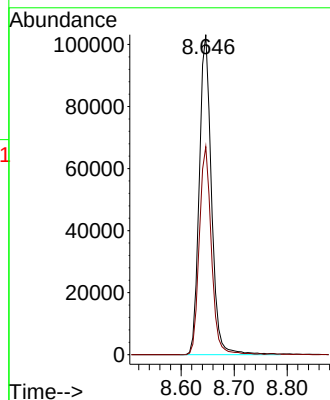
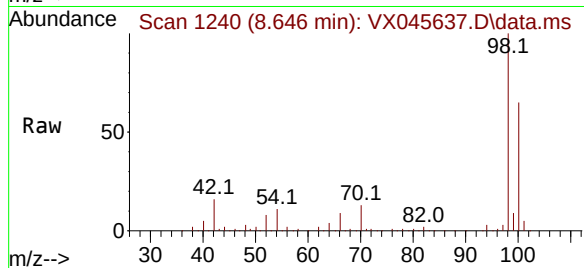
VX0408BWL01

Tgt Ion: 98 Resp: 165054

Ion Ratio Lower Upper

98 100

100 64.5 52.2 78.4



#62

4-Bromofluorobenzene

Concen: 51.913 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX045637.D

Acq: 08 Apr 2025 09:12

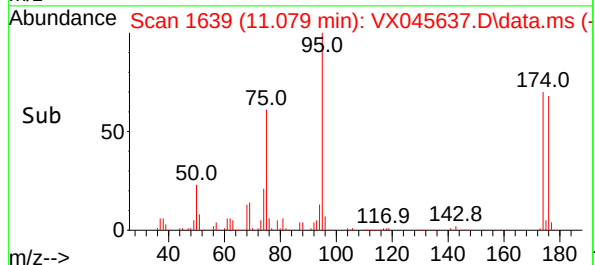
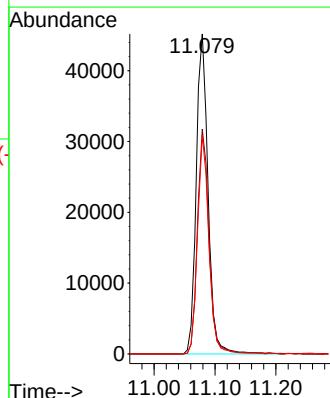
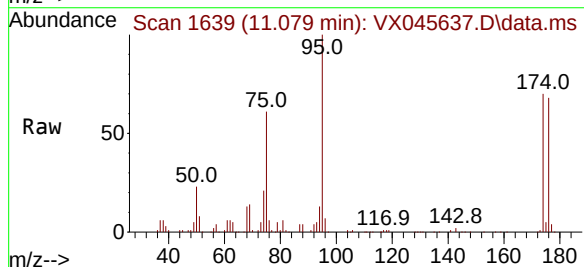
Tgt Ion: 95 Resp: 60782

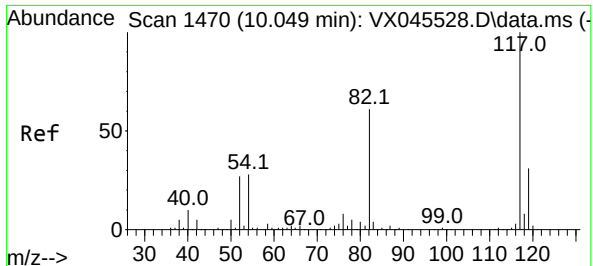
Ion Ratio Lower Upper

95 100

174 69.3 0.0 135.8

176 66.0 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. -0.000 min

Lab File: VX045637.D

Acq: 08 Apr 2025 09:12

Instrument :

MSVOA_X

ClientSampleId :

VX0408BWL01

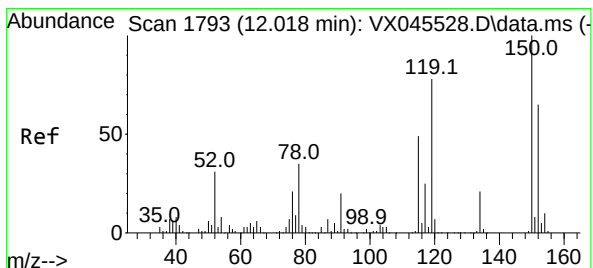
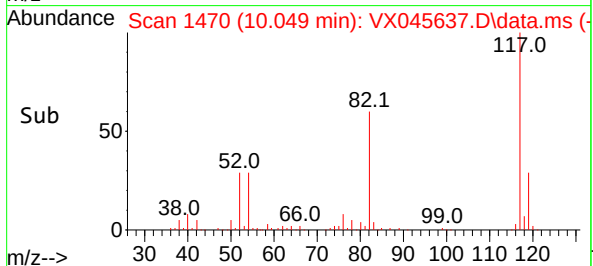
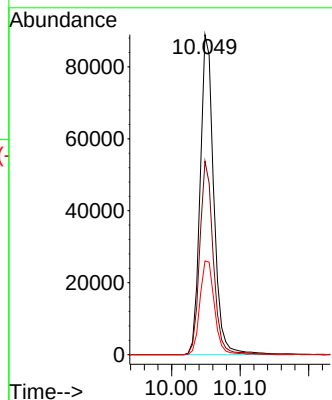
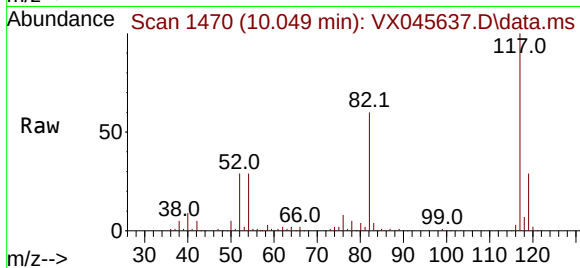
Tgt Ion:117 Resp: 123174

Ion Ratio Lower Upper

117 100

82 60.4 49.2 73.8

119 29.3 25.1 37.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VX045637.D

Acq: 08 Apr 2025 09:12

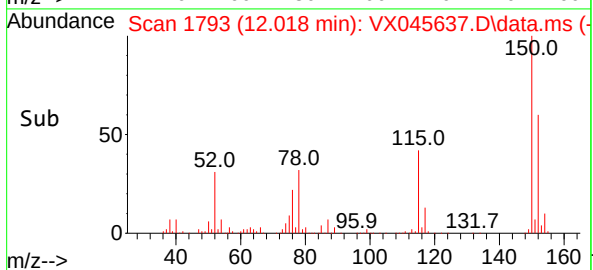
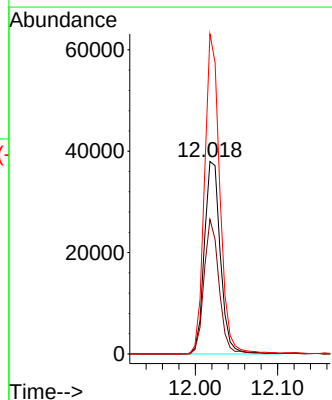
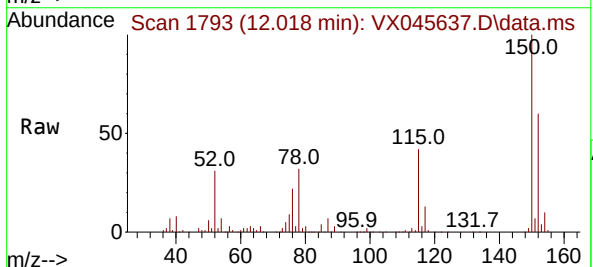
Tgt Ion:152 Resp: 51559

Ion Ratio Lower Upper

152 100

115 65.5 46.9 140.7

150 157.9 0.0 349.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045637.D
Acq On : 08 Apr 2025 09:12
Operator : JC/MD
Sample : VX0408WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0408WBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M

Title : SW846 8260

Signal : TIC: VX045637.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.556	69	77	78	rBV3	2971	5721	1.23%	0.233%
2	1.605	79	85	87	rVV4	2999	5114	1.10%	0.208%
3	5.379	694	704	722	rBV	55856	167410	35.88%	6.807%
4	5.543	722	731	747	rVV	76622	220279	47.21%	8.957%
5	5.952	785	798	816	rBV	63432	178462	38.25%	7.256%
6	6.757	921	930	951	rBV	138693	335523	71.91%	13.643%
7	8.646	1233	1240	1255	rBV	289533	466613	100.00%	18.973%
8	10.049	1465	1470	1485	rBV	304050	418138	89.61%	17.002%
9	11.079	1634	1639	1651	rBV	234026	306164	65.61%	12.449%
10	12.018	1788	1793	1804	rBV	275317	355919	76.28%	14.472%

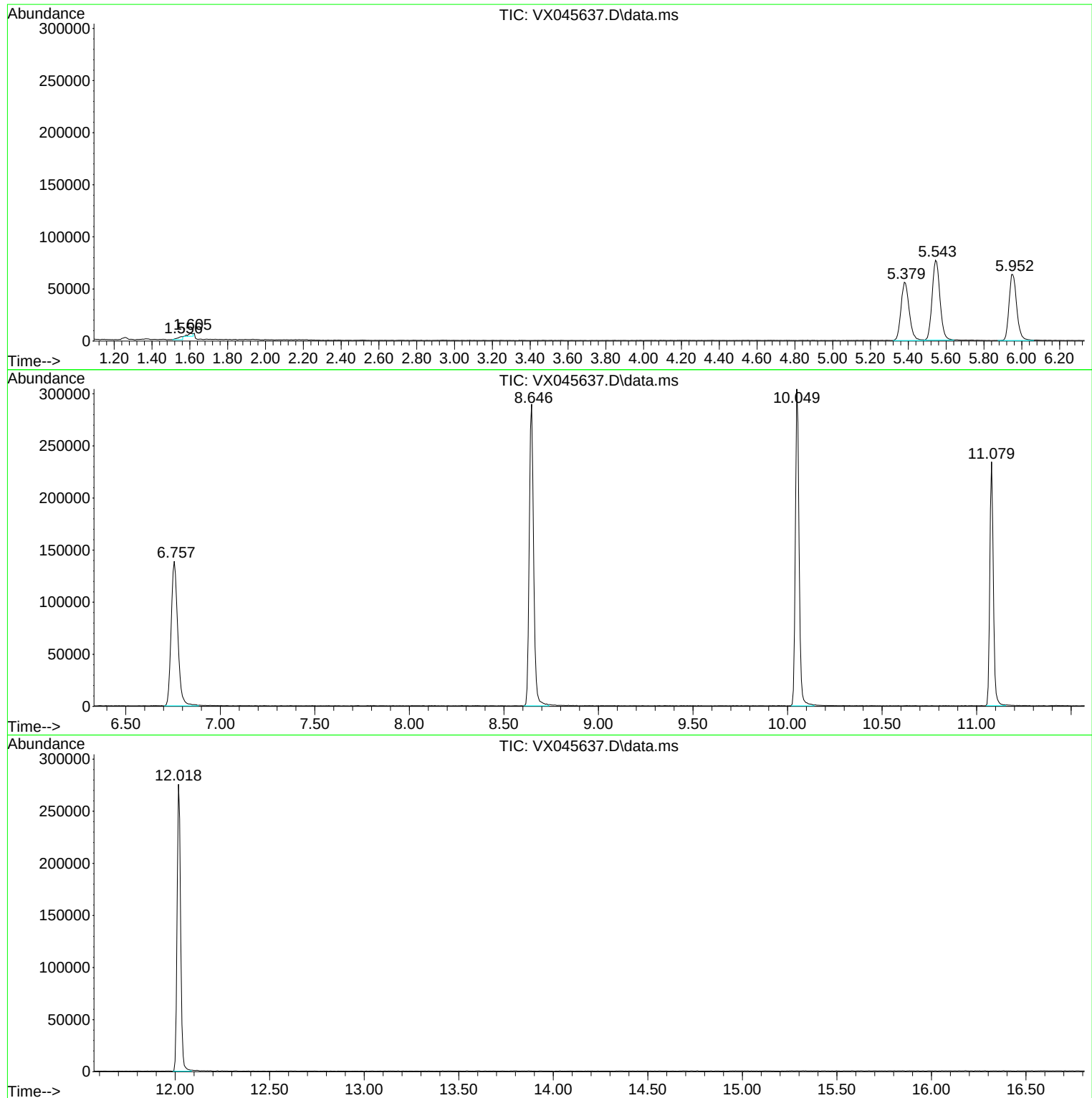
Sum of corrected areas: 2459343

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045637.D
Acq On : 08 Apr 2025 09:12
Operator : JC/MD
Sample : VX0408WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0408WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045637.D
Acq On : 08 Apr 2025 09:12
Operator : JC/MD
Sample : VX0408WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0408BWL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045637.D
Acq On : 08 Apr 2025 09:12
Operator : JC/MD
Sample : VX0408WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0408BWL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0410SBL01	SDG No.:	Q1746
Lab Sample ID:	VY0410SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
Prep Method :	ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021827.D	1		04/10/25 10:28	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	5.00	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.79	U	0.79	5.00	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.00	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.00	ug/Kg
67-64-1	Acetone	4.70	U	4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.86	U	0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	5.00	ug/Kg
110-82-7	Cyclohexane	0.79	U	0.79	5.00	ug/Kg
78-93-3	2-Butanone	6.50	U	6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.97	U	0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.00	ug/Kg
67-66-3	Chloroform	0.84	U	0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.91	U	0.91	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.91	U	0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.78	U	0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.0	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0410SBL01	SDG No.:	Q1746
Lab Sample ID:	VY0410SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
Prep Method :	ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021827.D	1		04/10/25 10:28	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.6		70 (63) - 130 (155)	93%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		70 (70) - 130 (134)	100%	SPK: 50
2037-26-5	Toluene-d8	48.5		70 (74) - 130 (123)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	38.3		70 (38) - 130 (136)	77%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	242000	7.713			
540-36-3	1,4-Difluorobenzene	437000	8.616			
3114-55-4	Chlorobenzene-d5	362000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	132000	13.352			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025		Date Received:	
Client Sample ID:	VY0410SBL01		SDG No.:	Q1746
Lab Sample ID:	VY0410SBL01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021827.D	1		04/10/25 10:28	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
 Data File : VY021827.D
 Acq On : 10 Apr 2025 10:28
 Operator : SY/MD
 Sample : VY0410SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0410SBL01

Quant Time: Apr 11 01:49:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.713	168	241941	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	436661	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	362482	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	131635	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	122060	46.564	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	93.120%
35) Dibromofluoromethane	7.640	113	141417	49.926	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	99.860%
50) Toluene-d8	10.109	98	522401	48.479	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	96.960%
62) 4-Bromofluorobenzene	12.408	95	139589	38.297	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	76.600%

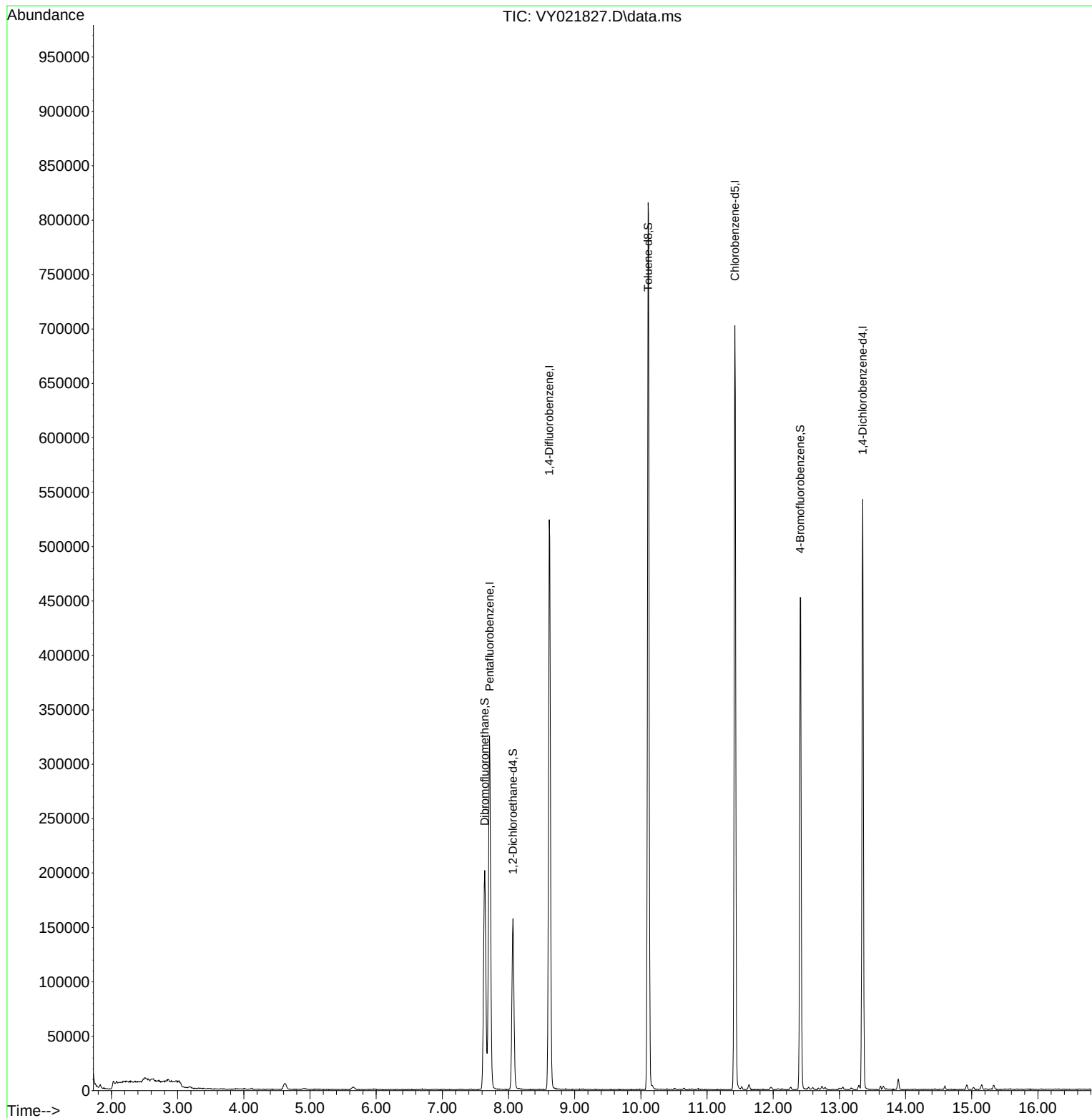
Target Compounds	Qvalue

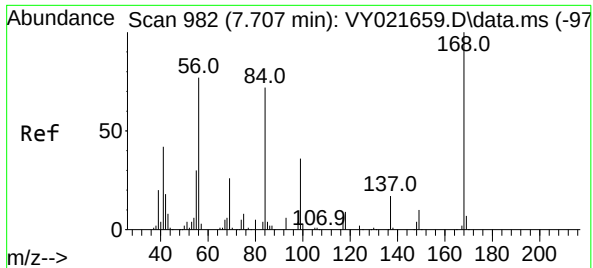
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021827.D
Acq On : 10 Apr 2025 10:28
Operator : SY/MD
Sample : VY0410SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBL01

Quant Time: Apr 11 01:49:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

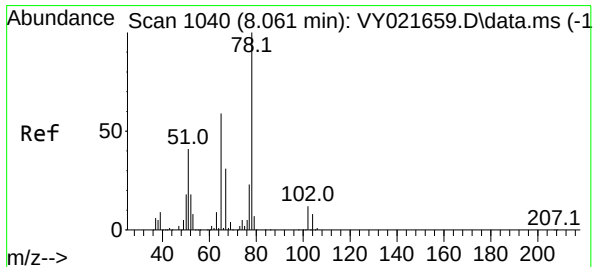
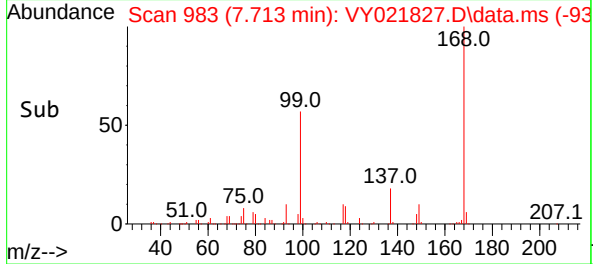
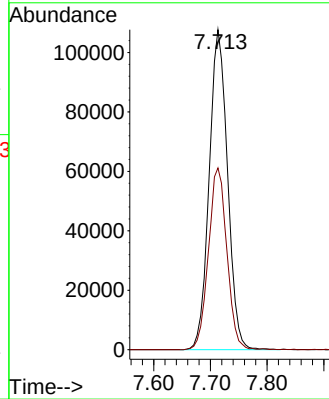
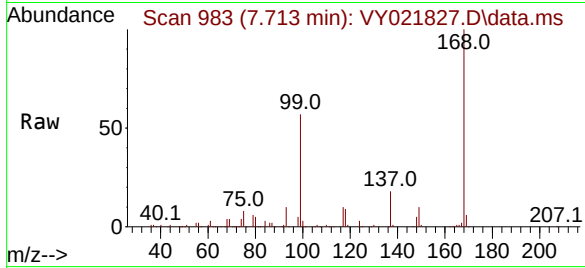




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 99
Delta R.T. 0.006 min
Lab File: VY021827.D
Acq: 10 Apr 2025 10:28

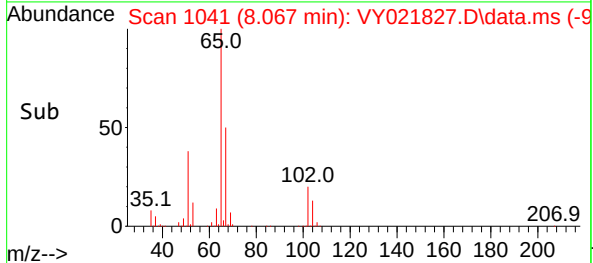
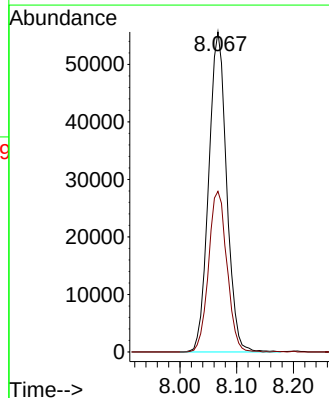
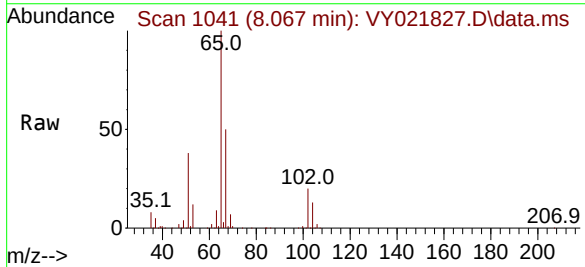
Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBL01

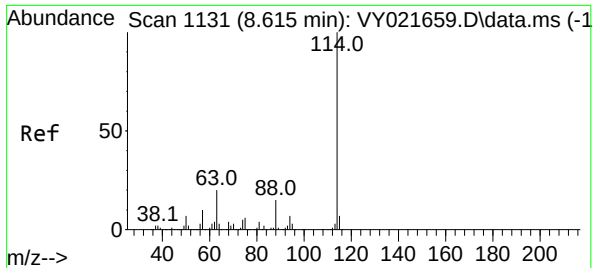
Tgt Ion:168 Resp: 241941
Ion Ratio Lower Upper
168 100
99 56.8 46.7 70.1



#33
1,2-Dichloroethane-d4
Concen: 46.564 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY021827.D
Acq: 10 Apr 2025 10:28

Tgt Ion: 65 Resp: 122060
Ion Ratio Lower Upper
65 100
67 51.5 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY021827.D

Acq: 10 Apr 2025 10:28

Instrument :

MSVOA_Y

ClientSampleId :

VY0410SBL01

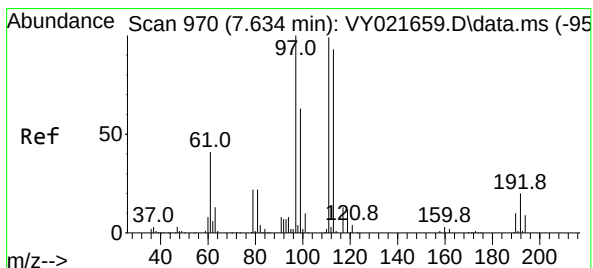
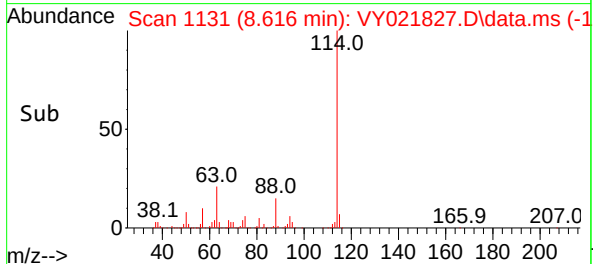
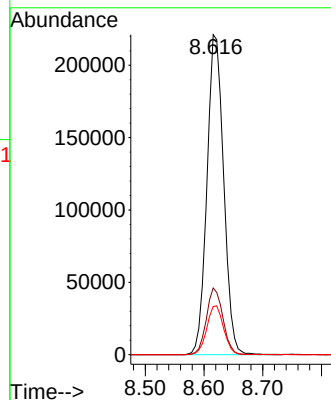
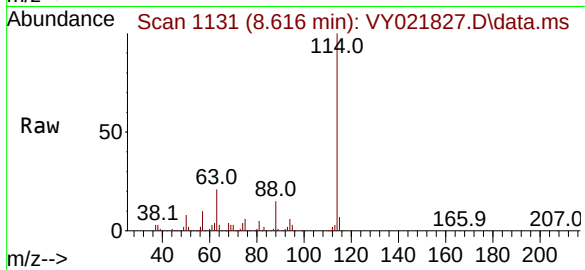
Tgt Ion:114 Resp: 436661

Ion Ratio Lower Upper

114 100

63 20.8 0.0 40.2

88 15.0 0.0 29.8



#35

Dibromofluoromethane

Concen: 49.926 ug/l

RT: 7.640 min Scan# 971

Delta R.T. 0.006 min

Lab File: VY021827.D

Acq: 10 Apr 2025 10:28

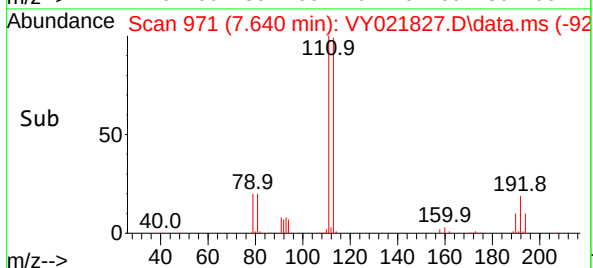
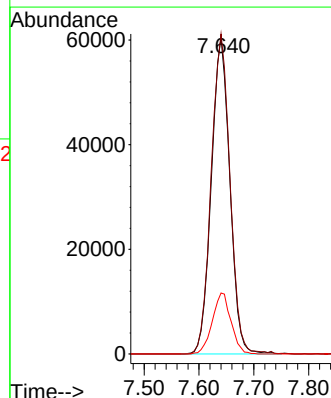
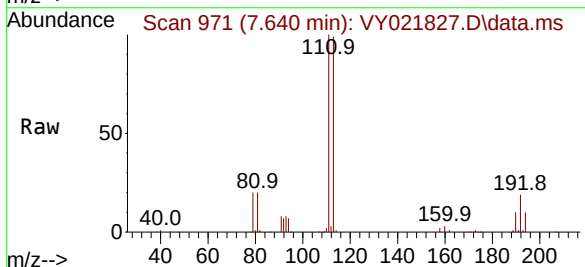
Tgt Ion:113 Resp: 141417

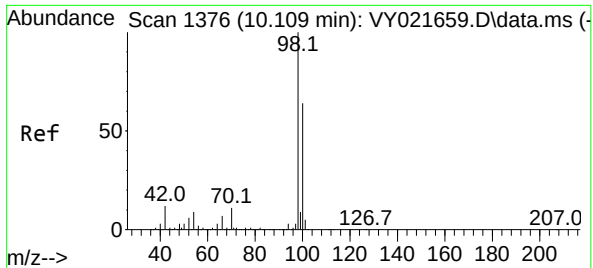
Ion Ratio Lower Upper

113 100

111 102.9 82.6 123.8

192 19.4 16.2 24.4

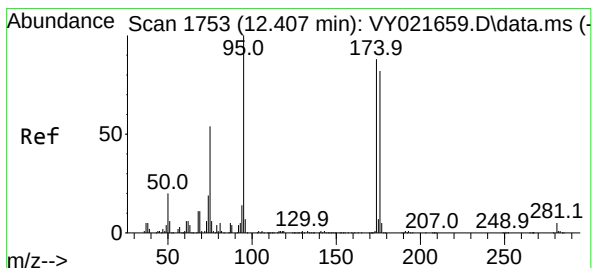
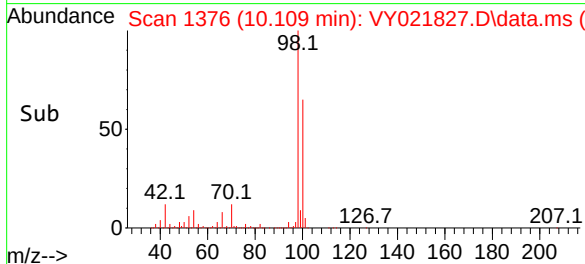
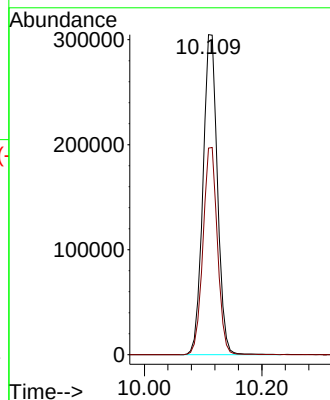
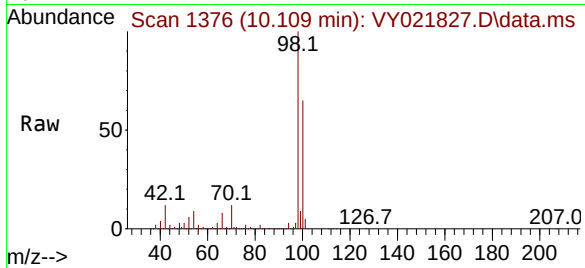




#50
Toluene-d8
Concen: 48.479 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY021827.D
Acq: 10 Apr 2025 10:28

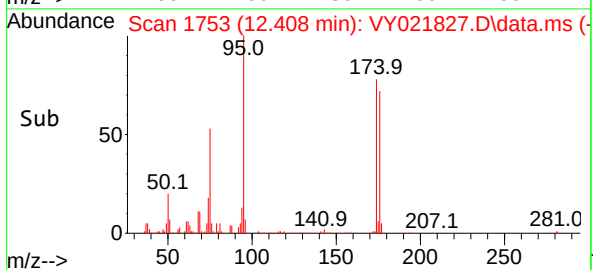
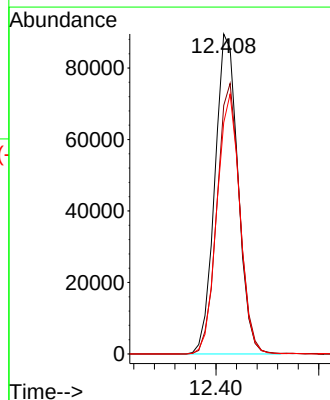
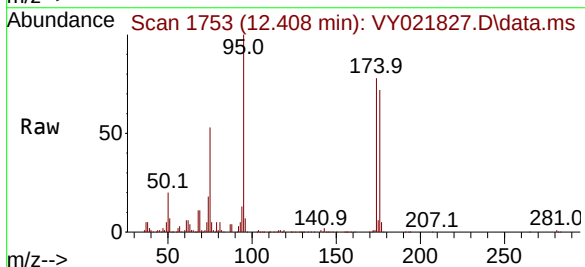
Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBL01

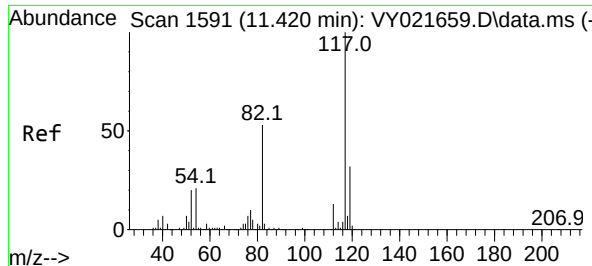
Tgt Ion: 98 Resp: 522401
Ion Ratio Lower Upper
98 100
100 64.6 52.1 78.1



#62
4-Bromofluorobenzene
Concen: 38.297 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021827.D
Acq: 10 Apr 2025 10:28

Tgt Ion: 95 Resp: 139589
Ion Ratio Lower Upper
95 100
174 83.3 0.0 170.8
176 80.5 0.0 162.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY021827.D

Acq: 10 Apr 2025 10:28

Instrument :

MSVOA_Y

ClientSampleId :

VY0410SBL01

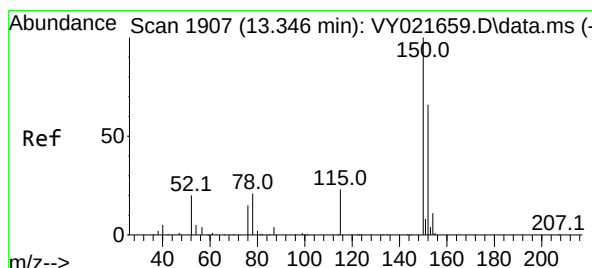
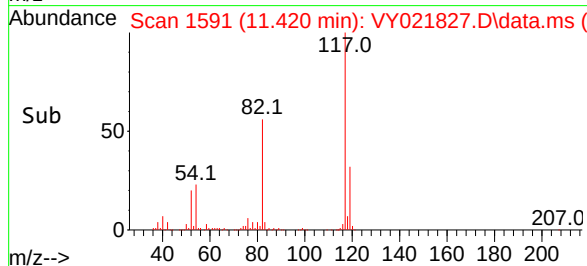
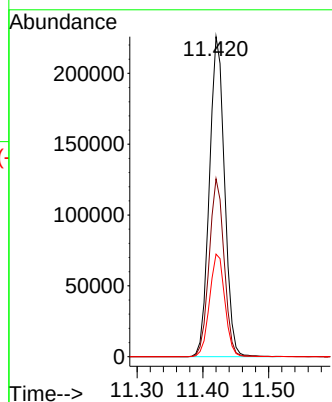
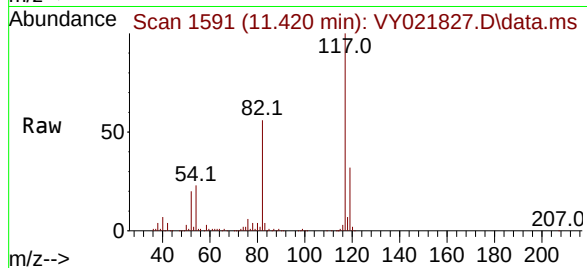
Tgt Ion:117 Resp: 362482

Ion Ratio Lower Upper

117 100

82 55.6 42.8 64.2

119 32.1 25.7 38.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.352 min Scan# 1908

Delta R.T. 0.006 min

Lab File: VY021827.D

Acq: 10 Apr 2025 10:28

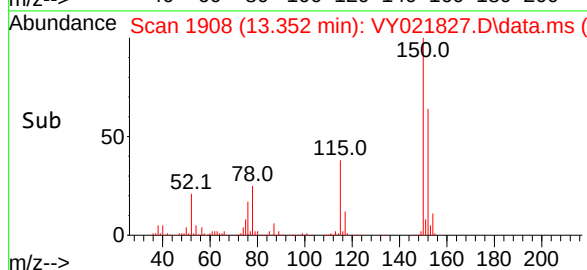
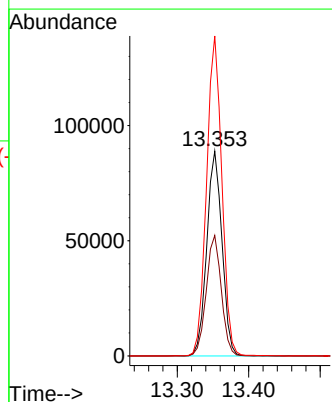
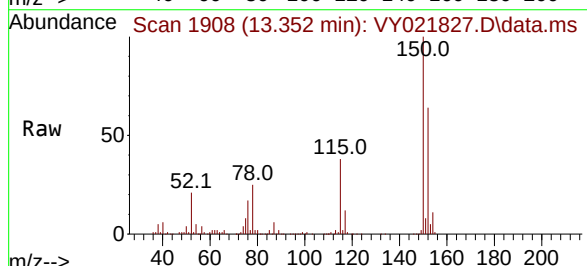
Tgt Ion:152 Resp: 131635

Ion Ratio Lower Upper

152 100

115 58.3 28.8 86.5

150 157.0 0.0 348.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021827.D
Acq On : 10 Apr 2025 10:28
Operator : SY/MD
Sample : VY0410SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M

Title : SW846 8260

Signal : TIC: VY021827.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.031	44	51	54	rBV2	7198	15307	1.09%	0.228%
2	4.616	467	475	487	rBV4	5587	18418	1.32%	0.274%
3	7.640	961	971	977	rBV2	201212	482255	34.47%	7.170%
4	7.713	977	983	998	rVB	324739	729522	52.14%	10.846%
5	8.067	1031	1041	1054	rBV	157406	345294	24.68%	5.134%
6	8.616	1122	1131	1146	rBV	523823	1036542	74.08%	15.411%
7	10.109	1369	1376	1385	rBV	815279	1399248	100.00%	20.804%
8	11.420	1584	1591	1605	rBV	702355	1135945	81.18%	16.889%
9	12.408	1747	1753	1763	rBV	452170	733514	52.42%	10.906%
10	13.353	1902	1908	1922	rVB	542232	814033	58.18%	12.103%
11	13.889	1991	1996	2005	rVB3	9424	15827	1.13%	0.235%

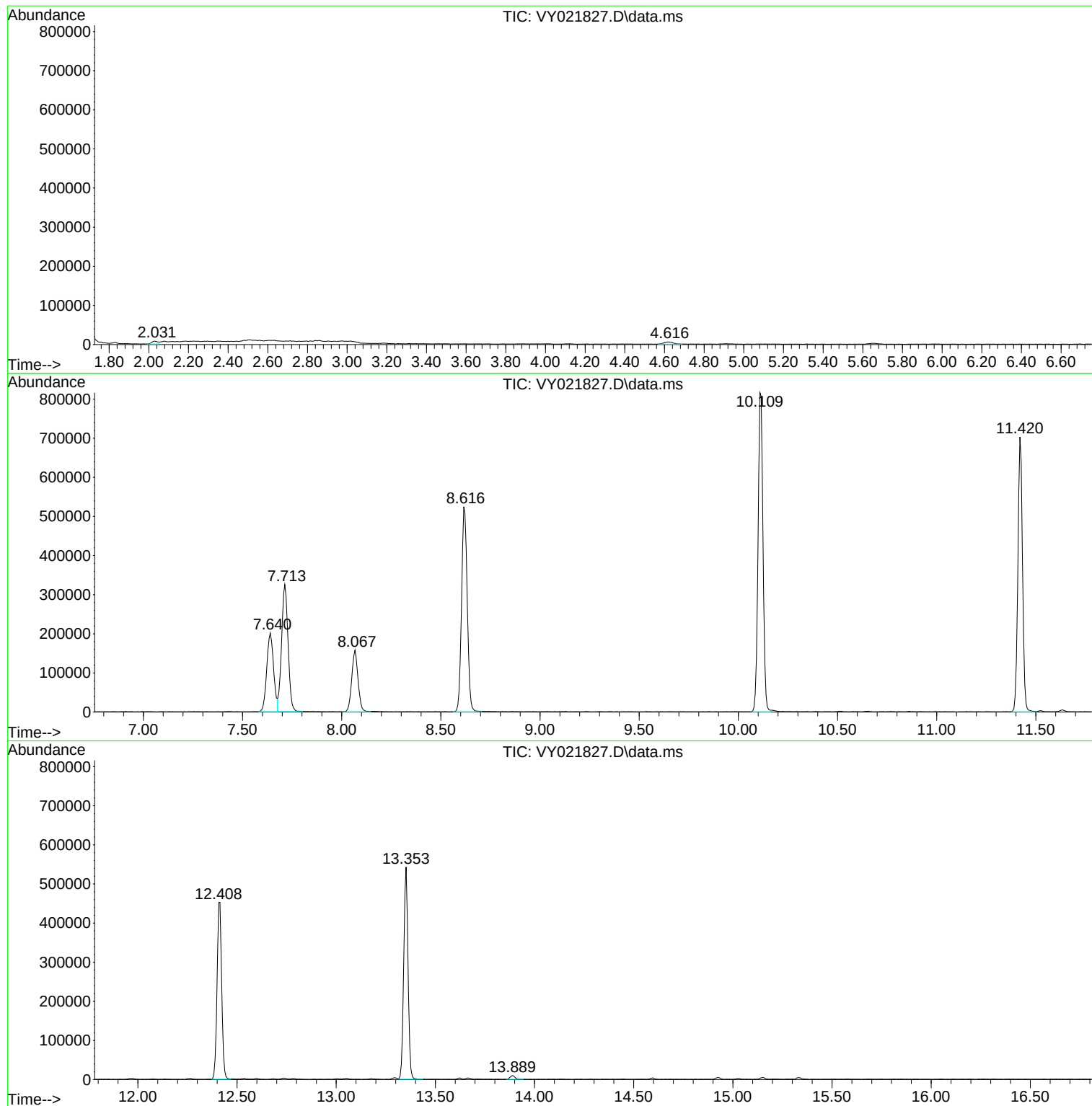
Sum of corrected areas: 6725905

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021827.D
Acq On : 10 Apr 2025 10:28
Operator : SY/MD
Sample : VY0410SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021827.D
Acq On : 10 Apr 2025 10:28
Operator : SY/MD
Sample : VY0410SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021827.D
Acq On : 10 Apr 2025 10:28
Operator : SY/MD
Sample : VY0410SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025		Date Received:	
Client Sample ID:	VX0407WBS01		SDG No.:	Q1746
Lab Sample ID:	VX0407WBS01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045617.D	1		04/07/25 10:34	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.8		0.22	1.00	ug/L
74-87-3	Chloromethane	17.5		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	18.0		0.26	1.00	ug/L
74-83-9	Bromomethane	17.6		1.40	5.00	ug/L
75-00-3	Chloroethane	19.5		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.6		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.5		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.5		0.23	1.00	ug/L
67-64-1	Acetone	90.4		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	16.7		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.6		0.16	1.00	ug/L
79-20-9	Methyl Acetate	19.3		0.27	1.00	ug/L
75-09-2	Methylene Chloride	17.7		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.6		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	17.8		0.23	1.00	ug/L
110-82-7	Cyclohexane	17.2		1.50	5.00	ug/L
78-93-3	2-Butanone	91.2		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.8		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	17.5		0.19	1.00	ug/L
74-97-5	Bromochloromethane	20.1		0.22	1.00	ug/L
67-66-3	Chloroform	18.3		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.0		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	17.7		0.16	1.00	ug/L
71-43-2	Benzene	18.0		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.7		0.22	1.00	ug/L
79-01-6	Trichloroethene	18.0		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.2		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	18.2		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	94.1		0.68	5.00	ug/L
108-88-3	Toluene	17.8		0.14	1.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0407WBS01	SDG No.:	Q1746
Lab Sample ID:	VX0407WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045617.D	1		04/07/25 10:34	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	16.9		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.6		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	18.2		0.21	1.00	ug/L
591-78-6	2-Hexanone	91.7		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	18.6		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	18.3		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	19.3		0.23	1.00	ug/L
108-90-7	Chlorobenzene	18.2		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	18.2		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	36.2		0.24	2.00	ug/L
95-47-6	o-Xylene	18.3		0.12	1.00	ug/L
100-42-5	Styrene	18.3		0.15	1.00	ug/L
75-25-2	Bromoform	18.4		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	17.8		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	17.6		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	17.3		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	16.9		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	17.5		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	17.8		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	16.4		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	16.6		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.8		70 (74) - 130 (125)	102%	SPK: 50
1868-53-7	Dibromofluoromethane	50.0		70 (75) - 130 (124)	100%	SPK: 50
2037-26-5	Toluene-d8	49.7		70 (86) - 130 (113)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.4		70 (77) - 130 (121)	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	89700	5.544			
540-36-3	1,4-Difluorobenzene	159000	6.757			
3114-55-4	Chlorobenzene-d5	139000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	64900	12.018			

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	VX0407WBS01			SDG No.:	Q1746
Lab Sample ID:	VX0407WBS01			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI	ID :	0.18	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045617.D	1		04/07/25 10:34	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
 Data File : VX045617.D
 Acq On : 07 Apr 2025 10:34
 Operator : JC/MD
 Sample : VX0407WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0407WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/08/2025
 Supervised By : Mahesh Dadoda 04/08/2025

Quant Time: Apr 08 01:34:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.544	168	89694	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	158717	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	138981	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	64861	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	83331	50.803	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.600%			
35) Dibromofluoromethane	5.379	113	56342	50.033	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.060%			
50) Toluene-d8	8.647	98	195538	49.749	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.500%			
62) 4-Bromofluorobenzene	11.079	95	72106	50.364	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.720%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	26539	19.785	ug/l	96
3) Chloromethane	1.307	50	24082	17.476	ug/l	98
4) Vinyl Chloride	1.374	62	22749	18.039	ug/l	96
5) Bromomethane	1.593	94	10531	17.611	ug/l	95
6) Chloroethane	1.666	64	13064	19.525	ug/l	95
7) Trichlorofluoromethane	1.874	101	35064	18.645	ug/l	98
8) Diethyl Ether	2.130	74	10899	17.262	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.319	101	20363	18.479	ug/l	99
10) Methyl Iodide	2.447	142	23748	17.277	ug/l	98
11) Tert butyl alcohol	2.977	59	19430	88.142	ug/l	99
12) 1,1-Dichloroethene	2.313	96	18864	17.519	ug/l	96
13) Acrolein	2.233	56	32886	108.334	ug/l	98
14) Allyl chloride	2.654	41	37227	18.221	ug/l	99
15) Acrylonitrile	3.062	53	64059	92.059	ug/l	98
16) Acetone	2.380	43	60898	90.415	ug/l	96
17) Carbon Disulfide	2.502	76	44530	16.744	ug/l	100
18) Methyl Acetate	2.703	43	29937	19.305	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	66392	17.626	ug/l	99
20) Methylene Chloride	2.782	84	22301	17.686	ug/l	95
21) trans-1,2-Dichloroethene	3.087	96	19342	17.583	ug/l	96
22) Diisopropyl ether	3.764	45	70517	17.522	ug/l	90
23) Vinyl Acetate	3.721	43	307639	88.474	ug/l	98
24) 1,1-Dichloroethane	3.605	63	40491	17.790	ug/l	99
25) 2-Butanone	4.556	43	89883	91.166	ug/l	100
26) 2,2-Dichloropropane	4.465	77	29308	19.930	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	23391	17.453	ug/l	96
28) Bromochloromethane	4.897	49	22119	20.110	ug/l	99
29) Tetrahydrofuran	5.007	42	57774	90.384	ug/l	99
30) Chloroform	5.093	83	42943	18.336	ug/l	99
31) Cyclohexane	5.458	56	34529	17.161	ug/l	96
32) 1,1,1-Trichloroethane	5.379	97	35642	17.986	ug/l	99
36) 1,1-Dichloropropene	5.684	75	27361	17.995	ug/l	99
37) Ethyl Acetate	4.721	43	32485	16.954	ug/l	98
38) Carbon Tetrachloride	5.672	117	30822	18.757	ug/l	97
39) Methylcyclohexane	7.373	83	32996	17.704	ug/l	97
40) Benzene	6.031	78	83405	17.961	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
 Data File : VX045617.D
 Acq On : 07 Apr 2025 10:34
 Operator : JC/MD
 Sample : VX0407WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0407WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/08/2025
 Supervised By : Mahesh Dadoda 04/08/2025

Quant Time: Apr 08 01:34:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	18930	18.724	ug/l	99
42) 1,2-Dichloroethane	6.086	62	35769	18.650	ug/l	100
43) Isopropyl Acetate	6.342	43	52567	18.101	ug/l	99
44) Trichloroethene	7.123	130	19895	18.025	ug/l	98
45) 1,2-Dichloropropane	7.428	63	21087	18.200	ug/l	100
46) Dibromomethane	7.580	93	16073	18.071	ug/l	97
47) Bromodichloromethane	7.818	83	32271	18.168	ug/l	97
48) Methyl methacrylate	7.696	41	27006	18.011	ug/l	99
49) 1,4-Dioxane	7.659	88	10577	389.882	ug/l	98
51) 4-Methyl-2-Pentanone	8.574	43	181149	94.095	ug/l	98
52) Toluene	8.714	92	50130	17.841	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	26146	16.895	ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	30988	18.565	ug/l	99
55) 1,1,2-Trichloroethane	9.153	97	20414	18.232	ug/l	92
56) Ethyl methacrylate	9.116	69	30029	17.329	ug/l	96
57) 1,3-Dichloropropane	9.305	76	35623	18.270	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	69612	79.411	ug/l	100
59) 2-Hexanone	9.427	43	130780	91.734	ug/l	100
60) Dibromochloromethane	9.519	129	22685	18.584	ug/l	99
61) 1,2-Dibromoethane	9.610	107	20690	18.254	ug/l	99
64) Tetrachloroethene	9.269	164	18965	19.327	ug/l	93
65) Chlorobenzene	10.079	112	54159	18.237	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	18533	17.975	ug/l	100
67) Ethyl Benzene	10.189	91	96615	18.164	ug/l	98
68) m/p-Xylenes	10.299	106	70049	36.210	ug/l	98
69) o-Xylene	10.640	106	34794	18.258	ug/l	98
70) Styrene	10.653	104	57575	18.305	ug/l	99
71) Bromoform	10.799	173	14155	18.386	ug/l #	98
73) Isopropylbenzene	10.963	105	92499	17.804	ug/l	99
74) N-amyl acetate	10.842	43	42430	17.073	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	32065	17.569	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	27650m	17.477	ug/l	
77) Bromobenzene	11.195	156	21356	17.790	ug/l	98
78) n-propylbenzene	11.305	91	105538	17.636	ug/l	100
79) 2-Chlorotoluene	11.360	91	67251	17.579	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	76216	17.740	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	7803	16.739	ug/l	96
82) 4-Chlorotoluene	11.451	91	75042	17.593	ug/l	100
83) tert-Butylbenzene	11.713	119	74797	17.585	ug/l	97
84) 1,2,4-Trimethylbenzene	11.750	105	76620	17.769	ug/l	99
85) sec-Butylbenzene	11.890	105	92241	17.657	ug/l	100
86) p-Isopropyltoluene	12.006	119	75592	17.551	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	37807	17.302	ug/l	99
88) 1,4-Dichlorobenzene	12.043	146	37519	16.936	ug/l	97
89) n-Butylbenzene	12.329	91	64350	17.230	ug/l	98
90) Hexachloroethane	12.536	117	13254	17.906	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	38002	17.492	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	6802	17.821	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	19889	16.447	ug/l	98
94) Hexachlorobutadiene	13.719	225	9339	17.922	ug/l	96
95) Naphthalene	13.774	128	73854	16.411	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	21009	16.591	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045617.D
Acq On : 07 Apr 2025 10:34
Operator : JC/MD
Sample : VX0407WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0407WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/08/2025
Supervised By :Mahesh Dadoda 04/08/2025

Quant Time: Apr 08 01:34:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

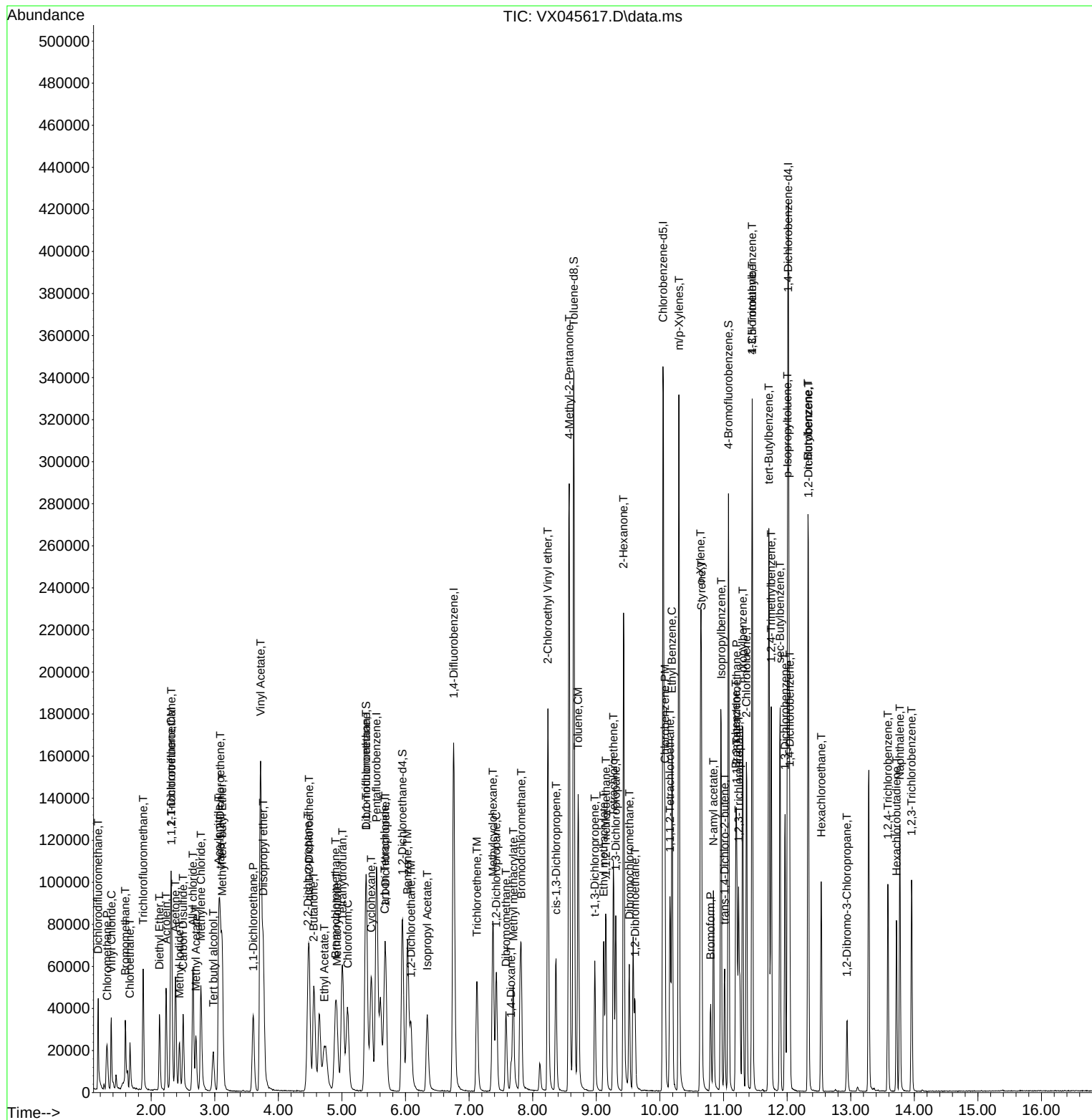
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045617.D
Acq On : 07 Apr 2025 10:34
Operator : JC/MD
Sample : VX0407WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0407WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/08/2025
Supervised By :Mahesh Dadoda 04/08/2025

Quant Time: Apr 08 01:34:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0408WBS01	SDG No.:	Q1746
Lab Sample ID:	VX0408WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045638.D	1		04/08/25 09:43	VX040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.9		0.22	1.00	ug/L
74-87-3	Chloromethane	16.8		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	17.3		0.26	1.00	ug/L
74-83-9	Bromomethane	16.2		1.40	5.00	ug/L
75-00-3	Chloroethane	18.2		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.1		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.3		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.2		0.23	1.00	ug/L
67-64-1	Acetone	100		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	16.2		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	16.9		0.16	1.00	ug/L
79-20-9	Methyl Acetate	18.6		0.27	1.00	ug/L
75-09-2	Methylene Chloride	16.9		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	16.7		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	16.9		0.23	1.00	ug/L
110-82-7	Cyclohexane	16.8		1.50	5.00	ug/L
78-93-3	2-Butanone	92.0		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.5		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	16.9		0.19	1.00	ug/L
74-97-5	Bromochloromethane	17.2		0.22	1.00	ug/L
67-66-3	Chloroform	17.6		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.1		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	18.7		0.16	1.00	ug/L
71-43-2	Benzene	17.6		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.2		0.22	1.00	ug/L
79-01-6	Trichloroethene	17.6		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	17.6		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	18.2		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	90.9		0.68	5.00	ug/L
108-88-3	Toluene	17.4		0.14	1.00	ug/L

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	16.8		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.1		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	18.0		0.21	1.00	ug/L
591-78-6	2-Hexanone	90.9		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	18.2		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	18.0		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	17.8		0.23	1.00	ug/L
108-90-7	Chlorobenzene	17.9		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	17.9		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	36.8		0.24	2.00	ug/L
95-47-6	o-Xylene	18.2		0.12	1.00	ug/L
100-42-5	Styrene	18.3		0.15	1.00	ug/L
75-25-2	Bromoform	17.5		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	18.0		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	17.1		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	18.0		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	17.5		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	17.7		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	17.7		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	17.1		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.1		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.7		70 (74) - 130 (125)	95%	SPK: 50
1868-53-7	Dibromofluoromethane	47.4		70 (75) - 130 (124)	95%	SPK: 50
2037-26-5	Toluene-d8	47.7		70 (86) - 130 (113)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.7		70 (77) - 130 (121)	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	106000	5.538			
540-36-3	1,4-Difluorobenzene	183000	6.751			
3114-55-4	Chlorobenzene-d5	162000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	74700	12.018			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0408WBS01	SDG No.:	Q1746
Lab Sample ID:	VX0408WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045638.D	1		04/08/25 09:43	VX040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
 Data File : VX045638.D
 Acq On : 08 Apr 2025 09:43
 Operator : JC/MD
 Sample : VX0408WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0408WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/09/2025
 Supervised By : Mahesh Dadoda 04/09/2025

Quant Time: Apr 09 01:31:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.538	168	106087	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.751	114	183473	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	162323	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	74710	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	92530	47.695	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	95.380%		
35) Dibromofluoromethane	5.373	113	61662	47.369	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.740%		
50) Toluene-d8	8.641	98	216926	47.743	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	95.480%		
62) 4-Bromofluorobenzene	11.079	95	80611	48.707	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	97.420%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	29914	18.855	ug/l	99
3) Chloromethane	1.307	50	27322	16.763	ug/l	98
4) Vinyl Chloride	1.374	62	25746	17.260	ug/l	100
5) Bromomethane	1.593	94	11482	16.235	ug/l	96
6) Chloroethane	1.666	64	14395	18.190	ug/l	95
7) Trichlorofluoromethane	1.874	101	40244	18.093	ug/l	97
8) Diethyl Ether	2.130	74	12439	16.657	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.319	101	23844	18.294	ug/l	97
10) Methyl Iodide	2.441	142	26769	16.466	ug/l	98
11) Tert butyl alcohol	2.971	59	21638	82.991	ug/l	97
12) 1,1-Dichloroethene	2.313	96	21916	17.208	ug/l	95
13) Acrolein	2.233	56	36556	101.816	ug/l	98
14) Allyl chloride	2.654	41	42463	17.572	ug/l	99
15) Acrylonitrile	3.062	53	70851	86.086	ug/l	99
16) Acetone	2.380	43	81335	102.097	ug/l	100
17) Carbon Disulfide	2.502	76	51049	16.229	ug/l	97
18) Methyl Acetate	2.703	43	34096	18.589	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	75408	16.926	ug/l	98
20) Methylene Chloride	2.782	84	25221	16.911	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	21749	16.716	ug/l	99
22) Diisopropyl ether	3.757	45	81207	17.060	ug/l	92
23) Vinyl Acetate	3.715	43	348840	84.821	ug/l	99
24) 1,1-Dichloroethane	3.599	63	45621	16.947	ug/l	99
25) 2-Butanone	4.550	43	107323	92.034	ug/l	98
26) 2,2-Dichloropropane	4.465	77	33325	19.160	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	26725	16.859	ug/l	98
28) Bromochloromethane	4.891	49	22375	17.200	ug/l	99
29) Tetrahydrofuran	5.001	42	62452	82.605	ug/l	98
30) Chloroform	5.080	83	48636	17.558	ug/l	98
31) Cyclohexane	5.464	56	39885	16.759	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	40095	17.106	ug/l	99
36) 1,1-Dichloropropene	5.684	75	31193	17.747	ug/l	99
37) Ethyl Acetate	4.709	43	38472	17.369	ug/l	99
38) Carbon Tetrachloride	5.666	117	35214	18.538	ug/l	98
39) Methylcyclohexane	7.373	83	40391	18.747	ug/l	99
40) Benzene	6.025	78	94288	17.565	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
 Data File : VX045638.D
 Acq On : 08 Apr 2025 09:43
 Operator : JC/MD
 Sample : VX0408WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0408WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/09/2025
 Supervised By : Mahesh Dadoda 04/09/2025

Quant Time: Apr 09 01:31:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	21289	18.216	ug/l	99
42) 1,2-Dichloroethane	6.080	62	40303	18.178	ug/l	99
43) Isopropyl Acetate	6.336	43	57663	17.177	ug/l	99
44) Trichloroethene	7.117	130	22414	17.568	ug/l	93
45) 1,2-Dichloropropane	7.421	63	23615	17.632	ug/l	100
46) Dibromomethane	7.574	93	18014	17.521	ug/l	99
47) Bromodichloromethane	7.818	83	37430	18.230	ug/l	99
48) Methyl methacrylate	7.690	41	30543	17.621	ug/l	99
49) 1,4-Dioxane	7.659	88	11370	362.562	ug/l	98
51) 4-Methyl-2-Pentanone	8.568	43	202243	90.877	ug/l	99
52) Toluene	8.714	92	56640	17.438	ug/l	98
53) t-1,3-Dichloropropene	8.976	75	29965	16.770	ug/l	98
54) cis-1,3-Dichloropropene	8.360	75	34907	18.091	ug/l	92
55) 1,1,2-Trichloroethane	9.147	97	23346	18.037	ug/l	96
56) Ethyl methacrylate	9.116	69	34568	17.257	ug/l	99
57) 1,3-Dichloropropane	9.305	76	40917	18.154	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	85635	84.508	ug/l	100
59) 2-Hexanone	9.427	43	149739	90.861	ug/l	99
60) Dibromochloromethane	9.519	129	25744	18.244	ug/l	99
61) 1,2-Dibromoethane	9.604	107	23565	17.985	ug/l	99
64) Tetrachloroethene	9.269	164	20355	17.761	ug/l	99
65) Chlorobenzene	10.073	112	62155	17.919	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	20950	17.397	ug/l	98
67) Ethyl Benzene	10.189	91	111490	17.947	ug/l	100
68) m/p-Xylenes	10.299	106	83112	36.784	ug/l	100
69) o-Xylene	10.640	106	40448	18.172	ug/l	100
70) Styrene	10.653	104	67373	18.340	ug/l	99
71) Bromoform	10.799	173	15756	17.523	ug/l #	99
73) Isopropylbenzene	10.957	105	107684	17.994	ug/l	100
74) N-amyl acetate	10.842	43	47535	16.605	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.207	83	35893	17.074	ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	31468m	17.268	ug/l	
77) Bromobenzene	11.195	156	24173	17.482	ug/l	98
78) n-propylbenzene	11.299	91	124284	18.031	ug/l	99
79) 2-Chlorotoluene	11.360	91	78306	17.770	ug/l	98
80) 1,3,5-Trimethylbenzene	11.445	105	91086	18.407	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	8668	16.143	ug/l	92
82) 4-Chlorotoluene	11.451	91	88617	18.037	ug/l	99
83) tert-Butylbenzene	11.713	119	89150	18.197	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	90268	18.174	ug/l	100
85) sec-Butylbenzene	11.890	105	112118	18.632	ug/l	100
86) p-Isopropyltoluene	12.006	119	91838	18.512	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	45298	17.997	ug/l	98
88) 1,4-Dichlorobenzene	12.036	146	44628	17.490	ug/l	98
89) n-Butylbenzene	12.329	91	79354	18.446	ug/l	100
90) Hexachloroethane	12.536	117	15692	18.405	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	44340	17.719	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	7797	17.735	ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	23843	17.118	ug/l	98
94) Hexachlorobutadiene	13.725	225	11570	19.276	ug/l	98
95) Naphthalene	13.774	128	86898	16.764	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	24888	17.064	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045638.D
Acq On : 08 Apr 2025 09:43
Operator : JC/MD
Sample : VX0408WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0408WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

Quant Time: Apr 09 01:31:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

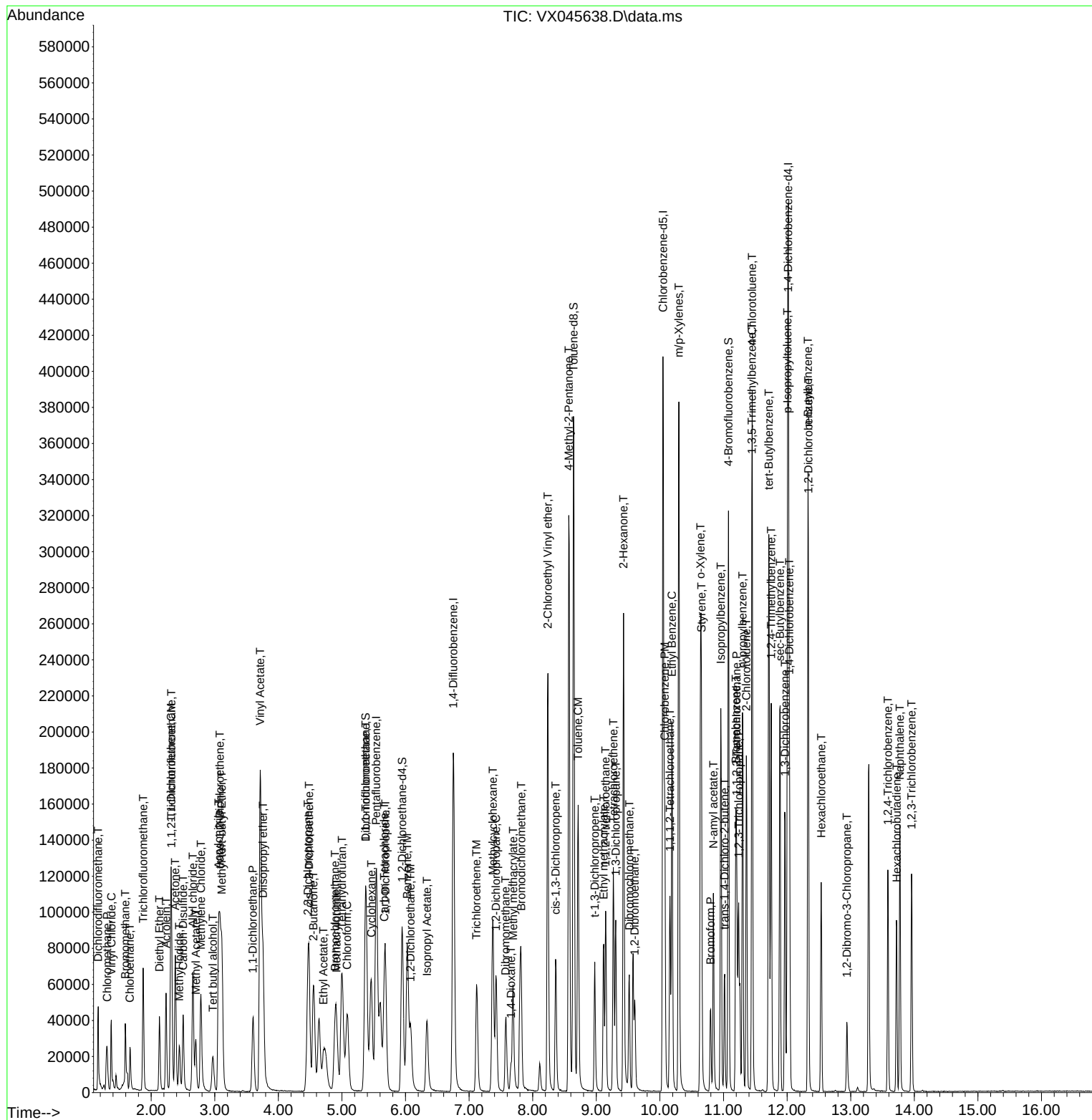
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045638.D
Acq On : 08 Apr 2025 09:43
Operator : JC/MD
Sample : VX0408WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0408WBS01

Manual Integrations
APPROVED

Reviewed By : John Carlone 04/09/2025
Supervised By : Mahesh Dadoda 04/09/2025

Quant Time: Apr 09 01:31:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0410SBS01	SDG No.:	Q1746
Lab Sample ID:	VY0410SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021828.D	1		04/10/25 10:59	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	18.4		1.10	5.00	ug/Kg
74-87-3	Chloromethane	19.9		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.2		0.79	5.00	ug/Kg
74-83-9	Bromomethane	19.0		1.10	5.00	ug/Kg
75-00-3	Chloroethane	19.3		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.4		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.6		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.0		1.00	5.00	ug/Kg
67-64-1	Acetone	92.0		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.6		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	17.4		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	18.0		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	20.7		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.6		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.3		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	18.4		0.79	5.00	ug/Kg
78-93-3	2-Butanone	87.3		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.6		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.7		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	19.5		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.0		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.1		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.6		0.91	5.00	ug/Kg
71-43-2	Benzene	20.4		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.1		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.6		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.7		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.4		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	85.8		3.60	25.0	ug/Kg
108-88-3	Toluene	21.0		0.78	5.00	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0410SBS01	SDG No.:	Q1746
Lab Sample ID:	VY0410SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021828.D	1		04/10/25 10:59	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.2		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.5		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.0		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	86.4		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.1		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.0		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.9		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.6		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.5		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	42.1		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.4		0.82	5.00	ug/Kg
100-42-5	Styrene	20.5		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.5		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.7		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.2		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.6		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.5		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.3		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	17.6		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.1		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.6		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.2		70 (63) - 130 (155)	98%	SPK: 50
1868-53-7	Dibromofluoromethane	53.4		70 (70) - 130 (134)	107%	SPK: 50
2037-26-5	Toluene-d8	54.3		70 (74) - 130 (123)	109%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.3		70 (38) - 130 (136)	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	203000	7.713			
540-36-3	1,4-Difluorobenzene	310000	8.616			
3114-55-4	Chlorobenzene-d5	276000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	144000	13.353			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0410SBS01	SDG No.:	Q1746
Lab Sample ID:	VY0410SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021828.D	1		04/10/25 10:59	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
 Data File : VY021828.D
 Acq On : 10 Apr 2025 10:59
 Operator : SY/MD
 Sample : VY0410SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0410SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/11/2025
 Supervised By :Semsettin Yesilyurt 04/11/2025

Quant Time: Apr 11 01:49:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.713	168	202932	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	310477	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	276303	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	144045	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	108092	49.162	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	98.320%		
35) Dibromofluoromethane	7.634	113	107537	53.394	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	106.780%		
50) Toluene-d8	10.109	98	416120	54.310	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	108.620%		
62) 4-Bromofluorobenzene	12.408	95	138064	53.273	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	106.540%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	38628	18.365	ug/l	99
3) Chloromethane	2.068	50	58925	19.923	ug/l	96
4) Vinyl Chloride	2.208	62	64218	19.200	ug/l	98
5) Bromomethane	2.592	94	43240	18.954	ug/l	99
6) Chloroethane	2.739	64	42301	19.327	ug/l	99
7) Trichlorofluoromethane	3.062	101	83189	19.415	ug/l	99
8) Diethyl Ether	3.458	74	21206	18.199	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.824	101	46562	20.604	ug/l	99
10) Methyl Iodide	4.007	142	53784	21.694	ug/l	98
11) Tert butyl alcohol	4.879	59	10132	70.946	ug/l	95
12) 1,1-Dichloroethene	3.793	96	42528	19.980	ug/l	99
13) Acrolein	3.653	56	11686	44.814	ug/l	94
14) Allyl chloride	4.385	41	65088	19.178	ug/l	99
15) Acrylonitrile	5.068	53	43512	89.436	ug/l	98
16) Acetone	3.873	43	41416	92.038	ug/l	96
17) Carbon Disulfide	4.110	76	130398	18.599	ug/l	97
18) Methyl Acetate	4.397	43	20074	17.999	ug/l	99
19) Methyl tert-butyl Ether	5.122	73	92229	17.404	ug/l	98
20) Methylene Chloride	4.622	84	50670	20.749	ug/l	95
21) trans-1,2-Dichloroethene	5.116	96	45867	19.571	ug/l	97
22) Diisopropyl ether	6.019	45	141226	19.837	ug/l	96
23) Vinyl Acetate	5.964	43	365289	87.708	ug/l	100
24) 1,1-Dichloroethane	5.921	63	86526	20.326	ug/l	97
25) 2-Butanone	6.896	43	56134	87.338	ug/l	96
26) 2,2-Dichloropropane	6.890	77	75531	19.946	ug/l	99
27) cis-1,2-Dichloroethene	6.896	96	51999	19.730	ug/l	98
28) Bromochloromethane	7.250	49	34985	19.487	ug/l	99
29) Tetrahydrofuran	7.262	42	32784	79.255	ug/l	99
30) Chloroform	7.427	83	88600	20.010	ug/l	96
31) Cyclohexane	7.701	56	71321	18.379	ug/l	93
32) 1,1,1-Trichloroethane	7.622	97	80250	20.053	ug/l	99
36) 1,1-Dichloropropene	7.841	75	62612	20.410	ug/l	98
37) Ethyl Acetate	6.982	43	24672	17.041	ug/l	97
38) Carbon Tetrachloride	7.823	117	72409	20.609	ug/l	96
39) Methylcyclohexane	9.116	83	71676	19.559	ug/l	98
40) Benzene	8.085	78	187821	20.444	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
 Data File : VY021828.D
 Acq On : 10 Apr 2025 10:59
 Operator : SY/MD
 Sample : VY0410SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0410SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/11/2025
 Supervised By :Semsettin Yesilyurt 04/11/2025

Quant Time: Apr 11 01:49:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	14459m	18.806	ug/l	
42) 1,2-Dichloroethane	8.165	62	51955	20.061	ug/l	99
43) Isopropyl Acetate	8.201	43	49178	17.925	ug/l	98
44) Trichloroethene	8.872	130	48276	20.624	ug/l	95
45) 1,2-Dichloropropane	9.146	63	45055	20.719	ug/l	96
46) Dibromomethane	9.238	93	24846	19.825	ug/l	96
47) Bromodichloromethane	9.426	83	66235	20.396	ug/l	96
48) Methyl methacrylate	9.225	41	22658	17.994	ug/l	96
49) 1,4-Dioxane	9.244	88	4766	354.991	ug/l	91
51) 4-Methyl-2-Pentanone	10.000	43	122559	85.840	ug/l	100
52) Toluene	10.176	92	120366	21.000	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	55243	19.152	ug/l	98
54) cis-1,3-Dichloropropene	9.859	75	66307	19.486	ug/l	98
55) 1,1,2-Trichloroethane	10.573	97	32227	19.982	ug/l	99
56) Ethyl methacrylate	10.445	69	37122	18.026	ug/l	98
57) 1,3-Dichloropropane	10.719	76	55701	19.997	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	94741	94.305	ug/l	99
59) 2-Hexanone	10.768	43	82164	86.409	ug/l	99
60) Dibromochloromethane	10.914	129	44255	20.098	ug/l	97
61) 1,2-Dibromoethane	11.018	107	30322	20.042	ug/l	98
64) Tetrachloroethene	10.652	164	52581	20.895	ug/l	99
65) Chlorobenzene	11.444	112	130234	20.562	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.518	131	46518	20.700	ug/l	100
67) Ethyl Benzene	11.524	91	222629	20.498	ug/l	100
68) m/p-Xylenes	11.633	106	174884	42.050	ug/l	99
69) o-Xylene	11.957	106	78381	20.417	ug/l	99
70) Styrene	11.975	104	131308	20.514	ug/l	100
71) Bromoform	12.133	173	24956	19.469	ug/l #	98
73) Isopropylbenzene	12.261	105	211237	19.744	ug/l	100
74) N-amyl acetate	12.072	43	42471	16.915	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.511	83	34921	18.155	ug/l	99
76) 1,2,3-Trichloropropane	12.560	75	28984m	20.299	ug/l	
77) Bromobenzene	12.536	156	50775	19.766	ug/l	97
78) n-propylbenzene	12.597	91	263112	20.456	ug/l	100
79) 2-Chlorotoluene	12.682	91	150601	20.159	ug/l	100
80) 1,3,5-Trimethylbenzene	12.743	105	176133	20.143	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	10119	16.329	ug/l	98
82) 4-Chlorotoluene	12.780	91	156256	20.062	ug/l	98
83) tert-Butylbenzene	12.999	119	151289	19.425	ug/l	97
84) 1,2,4-Trimethylbenzene	13.048	105	178636	20.670	ug/l	99
85) sec-Butylbenzene	13.176	105	233001	20.471	ug/l	100
86) p-Isopropyltoluene	13.298	119	192832	20.499	ug/l	99
87) 1,3-Dichlorobenzene	13.292	146	104101	20.569	ug/l	99
88) 1,4-Dichlorobenzene	13.371	146	102343	20.468	ug/l	98
89) n-Butylbenzene	13.621	91	177878	20.446	ug/l	100
90) Hexachloroethane	13.883	117	41809	20.281	ug/l	99
91) 1,2-Dichlorobenzene	13.664	146	89555	20.328	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5251	17.613	ug/l	100
93) 1,2,4-Trichlorobenzene	14.926	180	47966	20.077	ug/l	100
94) Hexachlorobutadiene	15.029	225	32148	21.546	ug/l	97
95) Naphthalene	15.145	128	69458	17.539	ug/l	99
96) 1,2,3-Trichlorobenzene	15.334	180	39920	19.594	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021828.D
Acq On : 10 Apr 2025 10:59
Operator : SY/MD
Sample : VY0410SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 04/11/2025
Supervised By :Semsettin Yesilyurt 04/11/2025

Quant Time: Apr 11 01:49:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

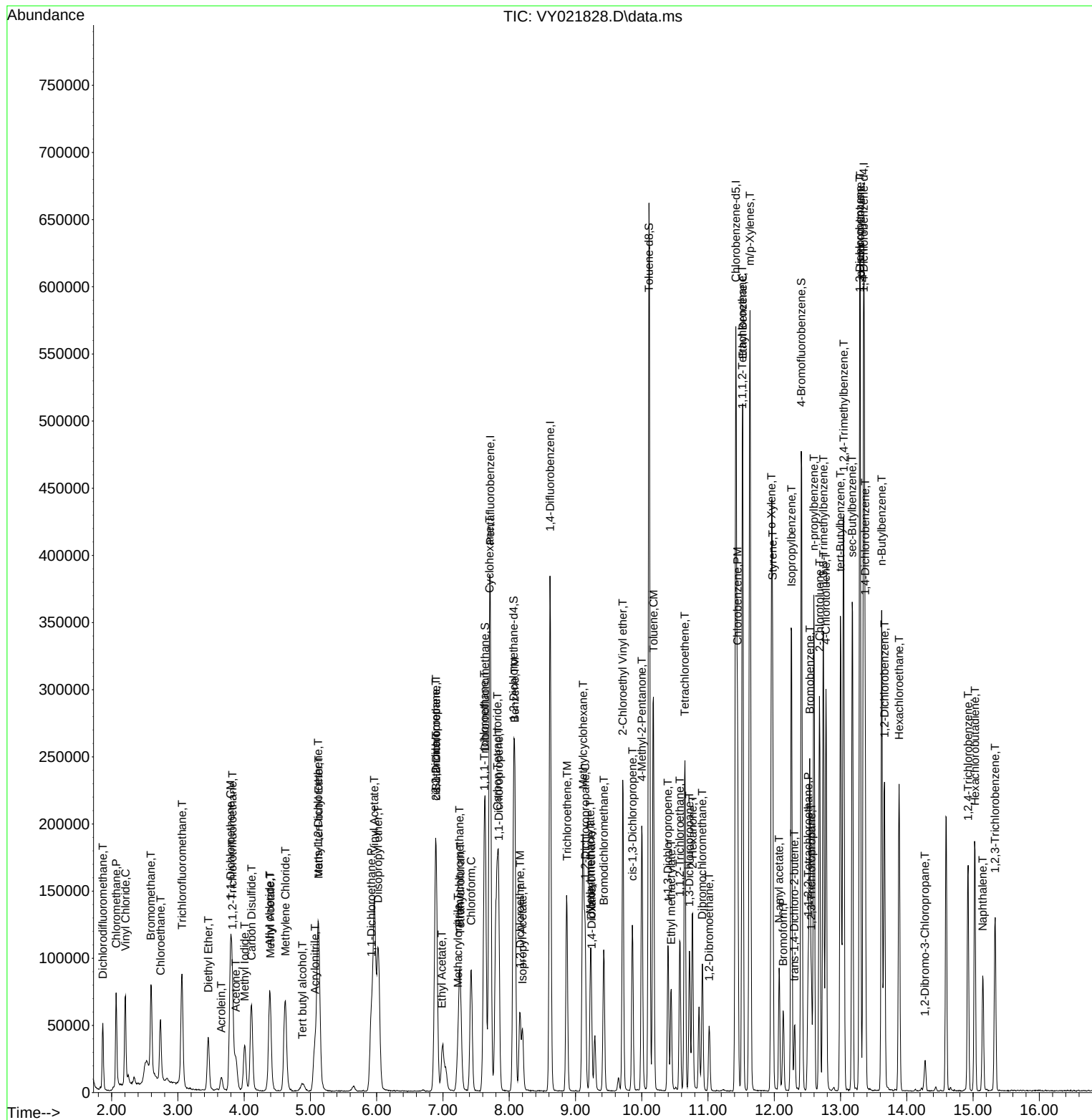
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021828.D
Acq On : 10 Apr 2025 10:59
Operator : SY/MD
Sample : VY0410SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 04/11/2025
Supervised By :Semsettin Yesilyurt 04/11/2025

Quant Time: Apr 11 01:49:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0407WBSD01	SDG No.:	Q1746
Lab Sample ID:	VX0407WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045618.D	1		04/07/25 11:00	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.2		0.22	1.00	ug/L
74-87-3	Chloromethane	18.4		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	18.6		0.26	1.00	ug/L
74-83-9	Bromomethane	18.4		1.40	5.00	ug/L
75-00-3	Chloroethane	19.3		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.4		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.8		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.9		0.23	1.00	ug/L
67-64-1	Acetone	97.2		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	17.6		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.4		0.16	1.00	ug/L
79-20-9	Methyl Acetate	21.5		0.27	1.00	ug/L
75-09-2	Methylene Chloride	19.4		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.5		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.7		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.5		1.50	5.00	ug/L
78-93-3	2-Butanone	100		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.8		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.6		0.19	1.00	ug/L
74-97-5	Bromochloromethane	20.0		0.22	1.00	ug/L
67-66-3	Chloroform	19.5		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.2		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	20.0		0.16	1.00	ug/L
71-43-2	Benzene	19.2		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.3		0.22	1.00	ug/L
79-01-6	Trichloroethene	19.2		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.0		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	20.1		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.68	5.00	ug/L
108-88-3	Toluene	19.4		0.14	1.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025		Date Received:	
Client Sample ID:	VX0407WBSD01		SDG No.:	Q1746
Lab Sample ID:	VX0407WBSD01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045618.D	1		04/07/25 11:00	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.2		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.1		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.2		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	20.8		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.2		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	20.1		0.23	1.00	ug/L
108-90-7	Chlorobenzene	19.6		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	19.4		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	39.9		0.24	2.00	ug/L
95-47-6	o-Xylene	19.8		0.12	1.00	ug/L
100-42-5	Styrene	19.7		0.15	1.00	ug/L
75-25-2	Bromoform	20.1		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	19.1		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.4		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.1		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.6		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.9		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.5		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.2		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.2		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.7		70 (74) - 130 (125)	101%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	51.0		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.6		70 (77) - 130 (121)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	93500	5.544			
540-36-3	1,4-Difluorobenzene	163000	6.757			
3114-55-4	Chlorobenzene-d5	145000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	67300	12.018			

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	VX0407WBSD01			SDG No.:	Q1746
Lab Sample ID:	VX0407WBSD01			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI	ID :	0.18	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045618.D	1		04/07/25 11:00	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
 Data File : VX045618.D
 Acq On : 07 Apr 2025 11:00
 Operator : JC/MD
 Sample : VX0407WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0407WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/08/2025
 Supervised By : Mahesh Dadoda 04/08/2025

Quant Time: Apr 08 01:34:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.544	168	93507	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	162585	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	145391	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	67274	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	86754	50.733	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.460%			
35) Dibromofluoromethane	5.379	113	58627	50.823	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.640%			
50) Toluene-d8	8.647	98	205510	51.042	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.080%			
62) 4-Bromofluorobenzene	11.079	95	77176	52.623	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.240%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	28256	20.206	ug/l	97
3) Chloromethane	1.307	50	26379	18.362	ug/l	98
4) Vinyl Chloride	1.374	62	24396	18.556	ug/l	99
5) Bromomethane	1.593	94	11442	18.355	ug/l	100
6) Chloroethane	1.666	64	13473	19.315	ug/l	98
7) Trichlorofluoromethane	1.874	101	37936	19.350	ug/l	96
8) Diethyl Ether	2.130	74	12915	19.621	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	22715	19.772	ug/l	98
10) Methyl Iodide	2.447	142	26869	18.751	ug/l	97
11) Tert butyl alcohol	2.971	59	22868	99.508	ug/l	97
12) 1,1-Dichloroethene	2.306	96	21168	18.857	ug/l	99
13) Acrolein	2.233	56	35924	113.516	ug/l	100
14) Allyl chloride	2.654	41	40789	19.151	ug/l	98
15) Acrylonitrile	3.062	53	73196	100.900	ug/l	99
16) Acetone	2.380	43	68241	97.185	ug/l	98
17) Carbon Disulfide	2.502	76	48814	17.606	ug/l	98
18) Methyl Acetate	2.703	43	34680	21.452	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	76336	19.439	ug/l	98
20) Methylene Chloride	2.782	84	25518	19.412	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	21273	18.549	ug/l	100
22) Diisopropyl ether	3.764	45	80682	19.230	ug/l	98
23) Vinyl Acetate	3.715	43	356046	98.220	ug/l	99
24) 1,1-Dichloroethane	3.605	63	44356	18.694	ug/l	97
25) 2-Butanone	4.556	43	104492	101.662	ug/l	98
26) 2,2-Dichloropropane	4.465	77	31982	20.862	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	26011	18.616	ug/l	97
28) Bromochloromethane	4.891	49	22978	20.040	ug/l	98
29) Tetrahydrofuran	5.001	42	65156	97.776	ug/l	99
30) Chloroform	5.086	83	47624	19.506	ug/l	96
31) Cyclohexane	5.464	56	38905	18.547	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	39618	19.177	ug/l	100
36) 1,1-Dichloropropene	5.684	75	30465	19.560	ug/l	100
37) Ethyl Acetate	4.721	43	38899	19.818	ug/l	99
38) Carbon Tetrachloride	5.666	117	33248	19.752	ug/l	98
39) Methylcyclohexane	7.373	83	38177	19.996	ug/l	96
40) Benzene	6.031	78	91150	19.162	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
 Data File : VX045618.D
 Acq On : 07 Apr 2025 11:00
 Operator : JC/MD
 Sample : VX0407WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0407WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/08/2025
 Supervised By : Mahesh Dadoda 04/08/2025

Quant Time: Apr 08 01:34:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	21271	20.539	ug/l	99
42) 1,2-Dichloroethane	6.080	62	39959	20.339	ug/l	100
43) Isopropyl Acetate	6.342	43	58786	19.761	ug/l	99
44) Trichloroethene	7.123	130	21729	19.219	ug/l	88
45) 1,2-Dichloropropane	7.421	63	23702	19.970	ug/l	98
46) Dibromomethane	7.580	93	18716	20.542	ug/l	99
47) Bromodichloromethane	7.818	83	36649	20.142	ug/l	99
48) Methyl methacrylate	7.690	41	31907	20.773	ug/l	97
49) 1,4-Dioxane	7.659	88	11975	430.912	ug/l	97
51) 4-Methyl-2-Pentanone	8.568	43	211251	107.120	ug/l	98
52) Toluene	8.714	92	55720	19.358	ug/l	98
53) t-1,3-Dichloropropene	8.976	75	31005	19.198	ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	34423	20.132	ug/l	94
55) 1,1,2-Trichloroethane	9.147	97	23192	20.220	ug/l	98
56) Ethyl methacrylate	9.116	69	35299	19.886	ug/l	97
57) 1,3-Dichloropropane	9.305	76	40797	20.426	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	87486	97.427	ug/l	100
59) 2-Hexanone	9.427	43	153590	105.171	ug/l	99
60) Dibromochloromethane	9.519	129	26035	20.821	ug/l	97
61) 1,2-Dibromoethane	9.604	107	23509	20.247	ug/l	98
64) Tetrachloroethene	9.269	164	20605	20.073	ug/l	94
65) Chlorobenzene	10.079	112	60863	19.590	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	20941	19.415	ug/l	100
67) Ethyl Benzene	10.189	91	107790	19.372	ug/l	96
68) m/p-Xylenes	10.299	106	80662	39.857	ug/l	99
69) o-Xylene	10.640	106	39467	19.797	ug/l	100
70) Styrene	10.653	104	64968	19.745	ug/l	98
71) Bromoform	10.799	173	16188	20.100	ug/l #	99
73) Isopropylbenzene	10.957	105	103110	19.134	ug/l	99
74) N-amyl acetate	10.842	43	48934	18.984	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	36638	19.355	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	31763m	19.356	ug/l	
77) Bromobenzene	11.195	156	23480	18.858	ug/l	98
78) n-propylbenzene	11.299	91	121267	19.537	ug/l	100
79) 2-Chlorotoluene	11.360	91	75840	19.113	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	87725	19.687	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	8584	17.754	ug/l	89
82) 4-Chlorotoluene	11.451	91	85085	19.232	ug/l	99
83) tert-Butylbenzene	11.713	119	84926	19.251	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	88466	19.780	ug/l	99
85) sec-Butylbenzene	11.890	105	107778	19.891	ug/l	99
86) p-Isopropyltoluene	12.006	119	88276	19.761	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	43318	19.113	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	42759	18.610	ug/l	97
89) n-Butylbenzene	12.329	91	74035	19.112	ug/l	99
90) Hexachloroethane	12.536	117	15028	19.575	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	42539	18.878	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	8100	20.460	ug/l	97
93) 1,2,4-Trichlorobenzene	13.585	180	22882	18.243	ug/l	99
94) Hexachlorobutadiene	13.725	225	10556	19.531	ug/l	98
95) Naphthalene	13.774	128	86377	18.506	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	23845	18.156	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045618.D
Acq On : 07 Apr 2025 11:00
Operator : JC/MD
Sample : VX0407WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0407WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/08/2025
Supervised By :Mahesh Dadoda 04/08/2025

Quant Time: Apr 08 01:34:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

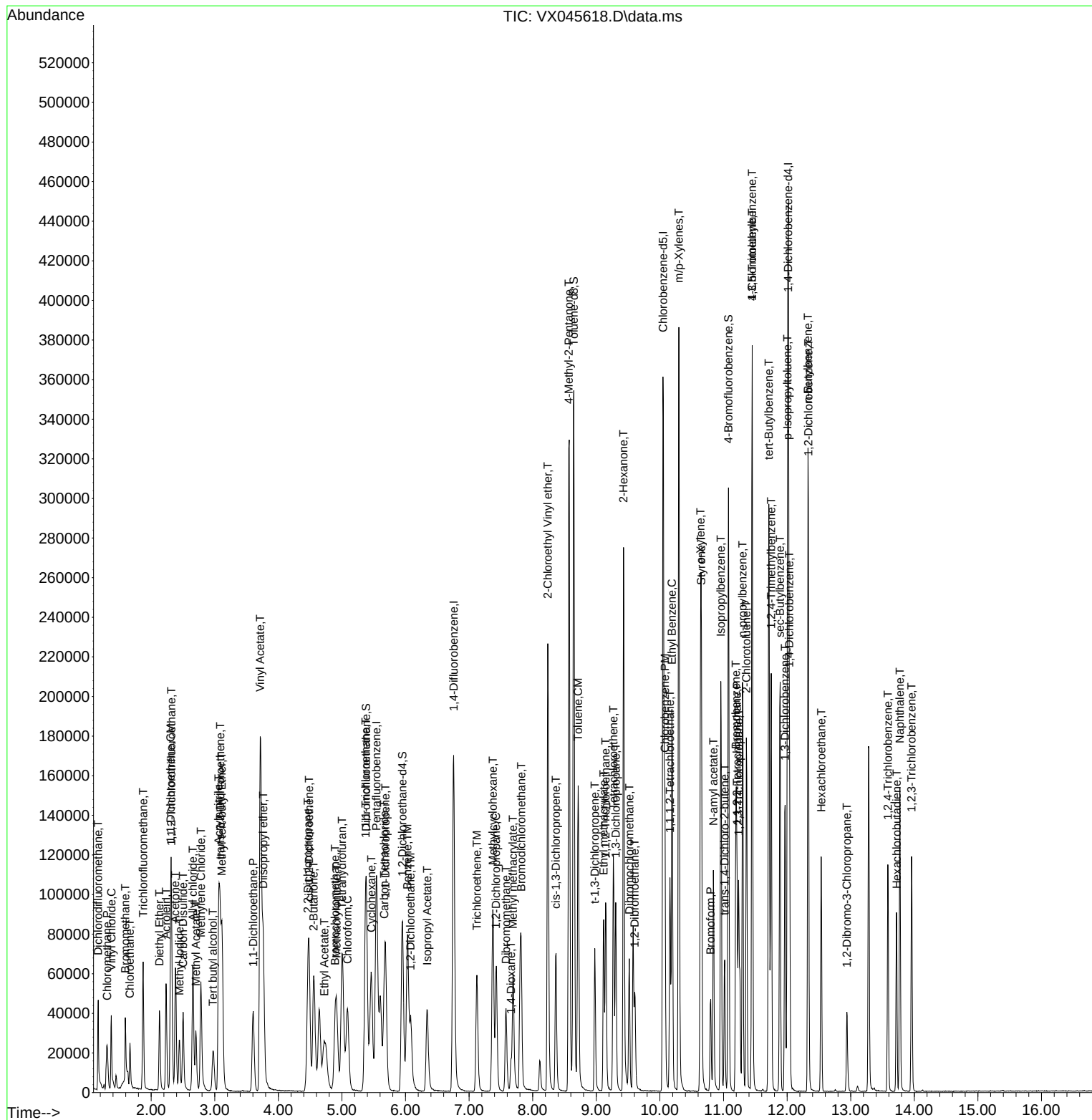

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045618.D
Acq On    : 07 Apr 2025  11:00
Operator  : JC/MD
Sample    : VX0407WBSD01
Misc      : 5.0mL/MSVOA_X/WATER
ALS Vial  : 6   Sample Multiplier: 1
```

Instrument :
MSVOA_X
ClientSampleId :
VX0407WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/08/2025
Supervised By :Mahesh Dadoda 04/08/2025

Quant Time: Apr 08 01:34:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0410SBSD01	SDG No.:	Q1746
Lab Sample ID:	VY0410SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021829.D	1		04/10/25 11:22	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	18.2		1.10	5.00	ug/Kg
74-87-3	Chloromethane	19.7		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	18.6		0.79	5.00	ug/Kg
74-83-9	Bromomethane	18.7		1.10	5.00	ug/Kg
75-00-3	Chloroethane	19.1		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.3		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.0		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	18.8		1.00	5.00	ug/Kg
67-64-1	Acetone	94.7		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.3		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	18.7		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	20.8		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	20.0		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.3		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.9		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	18.1		0.79	5.00	ug/Kg
78-93-3	2-Butanone	92.4		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.1		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.3		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	19.3		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.1		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.7		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.1		0.91	5.00	ug/Kg
71-43-2	Benzene	20.3		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.0		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.5		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.3		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.6		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	96.0		3.60	25.0	ug/Kg
108-88-3	Toluene	20.7		0.78	5.00	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0410SBSD01	SDG No.:	Q1746
Lab Sample ID:	VY0410SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021829.D	1		04/10/25 11:22	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.3		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.1		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.7		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	94.7		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.8		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.9		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.6		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.1		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.9		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.6		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.2		0.82	5.00	ug/Kg
100-42-5	Styrene	20.3		0.71	5.00	ug/Kg
75-25-2	Bromoform	20.2		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.1		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.6		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.9		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.1		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.1		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.5		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.7		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	21.0		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.5		70 (63) - 130 (155)	97%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		70 (70) - 130 (134)	102%	SPK: 50
2037-26-5	Toluene-d8	51.3		70 (74) - 130 (123)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		70 (38) - 130 (136)	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	208000	7.707			
540-36-3	1,4-Difluorobenzene	319000	8.615			
3114-55-4	Chlorobenzene-d5	284000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	149000	13.346			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0410SBSD01	SDG No.:	Q1746
Lab Sample ID:	VY0410SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021829.D	1		04/10/25 11:22	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
 Data File : VY021829.D
 Acq On : 10 Apr 2025 11:22
 Operator : SY/MD
 Sample : VY0410SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0410SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/11/2025
 Supervised By :Semsettin Yesilyurt 04/11/2025

Quant Time: Apr 11 01:49:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.707	168	207811	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	318832	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	284393	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	148690	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	109229	48.512	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	97.020%		
35) Dibromofluoromethane	7.634	113	105361	50.943	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	101.880%		
50) Toluene-d8	10.109	98	404007	51.348	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	102.700%		
62) 4-Bromofluorobenzene	12.407	95	134999	50.726	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	101.460%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	39252	18.224	ug/l	100
3) Chloromethane	2.068	50	59786	19.740	ug/l	97
4) Vinyl Chloride	2.202	62	63877	18.649	ug/l	98
5) Bromomethane	2.592	94	43697	18.705	ug/l	98
6) Chloroethane	2.732	64	42704	19.053	ug/l	97
7) Trichlorofluoromethane	3.055	101	84703	19.305	ug/l	96
8) Diethyl Ether	3.458	74	22632	18.967	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.811	101	46252	19.986	ug/l	99
10) Methyl Iodide	4.007	142	55133	21.716	ug/l	100
11) Tert butyl alcohol	4.872	59	12367	84.563	ug/l #	88
12) 1,1-Dichloroethene	3.793	96	40908	18.767	ug/l	93
13) Acrolein	3.659	56	13077	48.971	ug/l	98
14) Allyl chloride	4.384	41	64598	18.587	ug/l	98
15) Acrylonitrile	5.067	53	47442	95.225	ug/l	99
16) Acetone	3.878	43	43633	94.688	ug/l	98
17) Carbon Disulfide	4.104	76	131412	18.304	ug/l	98
18) Methyl Acetate	4.391	43	23701	20.753	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	101520	18.707	ug/l	97
20) Methylene Chloride	4.616	84	50284	19.978	ug/l	97
21) trans-1,2-Dichloroethene	5.116	96	46410	19.338	ug/l	96
22) Diisopropyl ether	6.018	45	143976	19.749	ug/l	97
23) Vinyl Acetate	5.963	43	388600	91.114	ug/l	99
24) 1,1-Dichloroethane	5.921	63	86621	19.870	ug/l	99
25) 2-Butanone	6.902	43	60799	92.375	ug/l	98
26) 2,2-Dichloropropane	6.884	77	75992	19.597	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	52039	19.281	ug/l	99
28) Bromochloromethane	7.244	49	35396	19.253	ug/l	99
29) Tetrahydrofuran	7.268	42	38098	89.940	ug/l	99
30) Chloroform	7.421	83	91139	20.100	ug/l	98
31) Cyclohexane	7.707	56	71948	18.105	ug/l	92
32) 1,1,1-Trichloroethane	7.622	97	80786	19.713	ug/l	100
36) 1,1-Dichloropropene	7.835	75	63772	20.244	ug/l	99
37) Ethyl Acetate	6.988	43	28649	19.270	ug/l	99
38) Carbon Tetrachloride	7.817	117	72496	20.093	ug/l	97
39) Methylcyclohexane	9.109	83	71764	19.070	ug/l	96
40) Benzene	8.079	78	191172	20.264	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
 Data File : VY021829.D
 Acq On : 10 Apr 2025 11:22
 Operator : SY/MD
 Sample : VY0410SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0410SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/11/2025
 Supervised By :Semsettin Yesilyurt 04/11/2025

Quant Time: Apr 11 01:49:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.225	41	13035	16.509	ug/l #	100
42) 1,2-Dichloroethane	8.158	62	53226	20.013	ug/l	100
43) Isopropyl Acetate	8.195	43	52654	18.689	ug/l	97
44) Trichloroethene	8.865	130	49203	20.469	ug/l	99
45) 1,2-Dichloropropane	9.140	63	45352	20.309	ug/l	97
46) Dibromomethane	9.231	93	26214	20.368	ug/l	96
47) Bromodichloromethane	9.426	83	68651	20.586	ug/l	97
48) Methyl methacrylate	9.219	41	24785	19.167	ug/l	99
49) 1,4-Dioxane	9.231	88	5304	384.711	ug/l	92
51) 4-Methyl-2-Pentanone	9.999	43	140723	95.979	ug/l	99
52) Toluene	10.170	92	122020	20.730	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	57294	19.343	ug/l	98
54) cis-1,3-Dichloropropene	9.859	75	66901	19.145	ug/l	96
55) 1,1,2-Trichloroethane	10.572	97	34280	20.698	ug/l	97
56) Ethyl methacrylate	10.438	69	40341	19.076	ug/l	98
57) 1,3-Dichloropropane	10.719	76	58064	20.300	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	104087	100.892	ug/l	99
59) 2-Hexanone	10.761	43	92479	94.709	ug/l	100
60) Dibromochloromethane	10.914	129	46927	20.753	ug/l	100
61) 1,2-Dibromoethane	11.017	107	30845	19.853	ug/l	99
64) Tetrachloroethene	10.646	164	53276	20.569	ug/l	98
65) Chlorobenzene	11.444	112	130948	20.086	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.517	131	47375	20.482	ug/l	99
67) Ethyl Benzene	11.517	91	222087	19.866	ug/l	99
68) m/p-Xylenes	11.627	106	173922	40.629	ug/l	99
69) o-Xylene	11.956	106	79796	20.194	ug/l	99
70) Styrene	11.969	104	133731	20.298	ug/l	99
71) Bromoform	12.133	173	26634	20.187	ug/l #	99
73) Isopropylbenzene	12.255	105	210811	19.089	ug/l	100
74) N-amyl acetate	12.072	43	45971	17.737	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	37011	18.640	ug/l	99
76) 1,2,3-Trichloropropane	12.560	75	29935m	20.310	ug/l	
77) Bromobenzene	12.535	156	51940	19.588	ug/l	99
78) n-propylbenzene	12.596	91	262187	19.747	ug/l	99
79) 2-Chlorotoluene	12.682	91	150997	19.580	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	176431	19.547	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	10813	16.904	ug/l	96
82) 4-Chlorotoluene	12.779	91	158350	19.696	ug/l	100
83) tert-Butylbenzene	12.999	119	153070	19.040	ug/l	99
84) 1,2,4-Trimethylbenzene	13.041	105	178830	20.046	ug/l	100
85) sec-Butylbenzene	13.176	105	232616	19.799	ug/l	100
86) p-Isopropyltoluene	13.291	119	193062	19.882	ug/l	100
87) 1,3-Dichlorobenzene	13.291	146	103726	19.855	ug/l	99
88) 1,4-Dichlorobenzene	13.371	146	103913	20.132	ug/l	98
89) n-Butylbenzene	13.621	91	175553	19.549	ug/l	99
90) Hexachloroethane	13.883	117	41979	19.728	ug/l	98
91) 1,2-Dichlorobenzene	13.657	146	91313	20.079	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5989	19.461	ug/l	96
93) 1,2,4-Trichlorobenzene	14.919	180	51079	20.712	ug/l	99
94) Hexachlorobutadiene	15.023	225	32403	21.038	ug/l	99
95) Naphthalene	15.145	128	81360	19.903	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	44068	20.955	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021829.D
Acq On : 10 Apr 2025 11:22
Operator : SY/MD
Sample : VY0410SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 04/11/2025
Supervised By :Semsettin Yesilyurt 04/11/2025

Quant Time: Apr 11 01:49:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

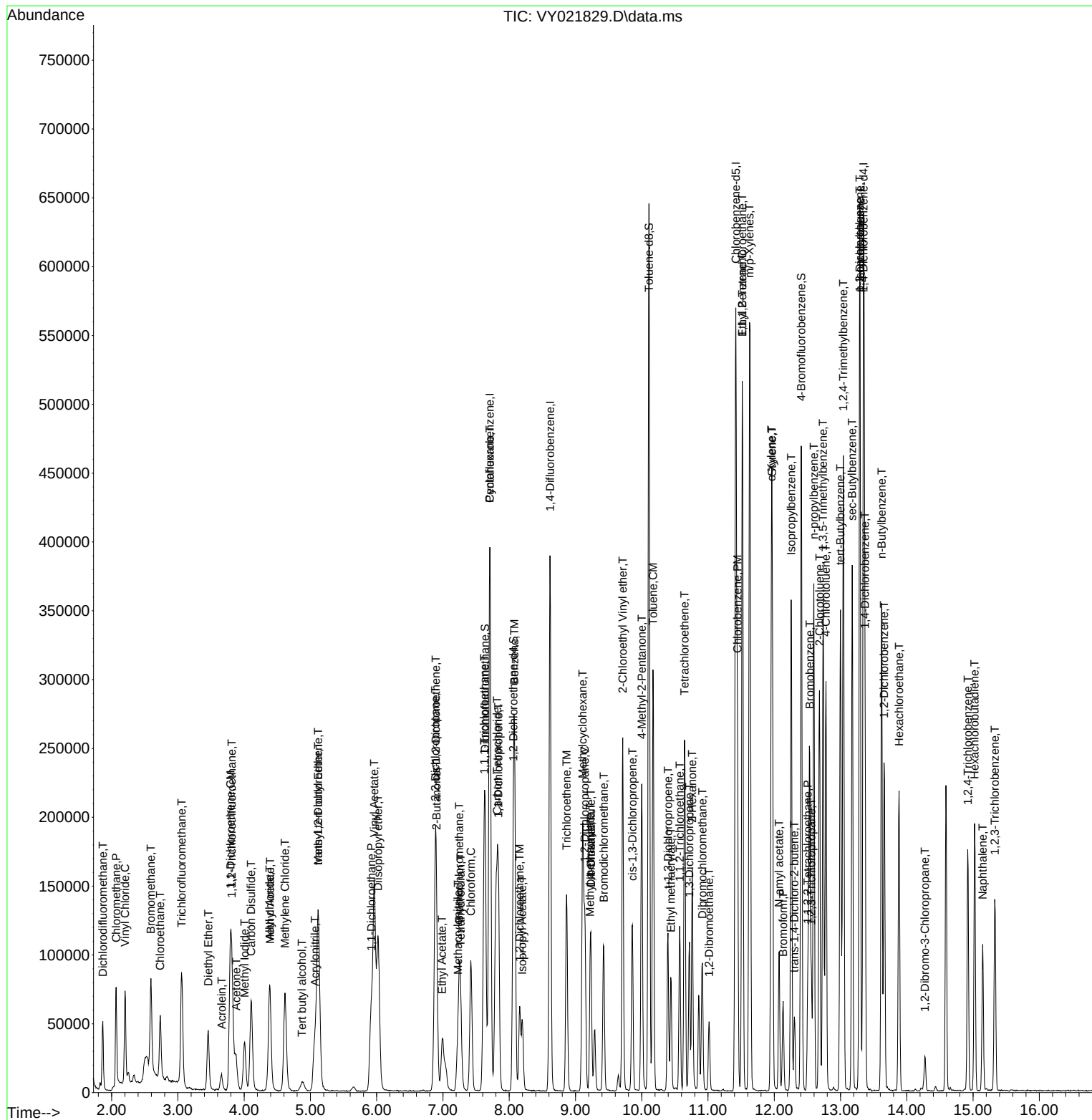
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
 Data File : VY021829.D
 Acq On : 10 Apr 2025 11:22
 Operator : SY/MD
 Sample : VY0410SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0410SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 04/11/2025
 Supervised By :Semsettin Yesilyurt 04/11/2025

Quant Time: Apr 11 01:49:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration



Manual Integration Report

Sequence:	VX040225	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC001	VX045525.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDIC001	VX045525.D	1,4-Dichlorobenzene	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDIC001	VX045525.D	1,4-Dioxane	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDIC001	VX045525.D	Ethyl methacrylate	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDIC001	VX045525.D	Methacrylonitrile	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDIC005	VX045526.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:22 PM	MMDadoda	4/2/2025 2:16:07 PM	Peak Integrated by Software
VSTDIC020	VX045527.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:25 PM	MMDadoda	4/2/2025 2:16:09 PM	Peak Integrated by Software
VSTDIC050	VX045528.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:26 PM	MMDadoda	4/2/2025 2:16:11 PM	Peak Integrated by Software
VSTDIC100	VX045529.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:28 PM	MMDadoda	4/2/2025 2:16:15 PM	Peak Integrated by Software
VSTDIC150	VX045530.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:30 PM	MMDadoda	4/2/2025 2:16:46 PM	Peak Integrated by Software
VSTDICV050	VX045532.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:32 PM	MMDadoda	4/2/2025 2:17:50 PM	Peak Integrated by Software
VSTDCCC050	VX045534.D	1,2,3-Trichloropropane	JOHN	4/3/2025 10:04:10 AM	MMDadoda	4/3/2025 1:12:02 PM	Peak Integrated by Software
VSTDCCC050	VX045557.D	1,2,3-Trichloropropane	JOHN	4/3/2025 10:04:58 AM	MMDadoda	4/3/2025 1:12:08 PM	Peak Integrated by Software



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:

VX040225

Instrument

MSVOA_x

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:

vx040725

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX045614.D	1,2,3-Trichloropropane	JOHN	4/8/2025 9:58:15 AM	MMDadoda	4/8/2025 2:05:07 PM	Peak Integrated by Software
VX0407WBS01	VX045617.D	1,2,3-Trichloropropane	JOHN	4/8/2025 9:58:20 AM	MMDadoda	4/8/2025 2:05:09 PM	Peak Integrated by Software
VX0407WBSD01	VX045618.D	1,2,3-Trichloropropane	JOHN	4/8/2025 9:58:24 AM	MMDadoda	4/8/2025 2:05:10 PM	Peak Integrated by Software
VSTDCCC050	VX045633.D	1,2,3-Trichloropropane	JOHN	4/8/2025 9:58:32 AM	MMDadoda	4/8/2025 2:05:14 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

vx040825

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX045635.D	1,2,3-Trichloropropane	JOHN	4/9/2025 9:10:37 AM	MMDadoda	4/9/2025 11:41:11 AM	Peak Integrated by Software
VX0408WBS01	VX045638.D	1,2,3-Trichloropropane	JOHN	4/9/2025 9:10:42 AM	MMDadoda	4/9/2025 11:41:13 AM	Peak Integrated by Software
VSTDCCC050	VX045662.D	1,2,3-Trichloropropane	JOHN	4/9/2025 9:10:53 AM	MMDadoda	4/9/2025 11:41:16 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	vy032725	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY021656.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:14:28 AM	MMDadoda	3/28/2025 9:32:34 AM	Peak Integrated by Software
VSTDICC005	VY021656.D	Methacrylonitrile	Romaben	3/28/2025 9:14:28 AM	MMDadoda	3/28/2025 9:32:34 AM	Peak Integrated by Software
VSTDICC010	VY021657.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:14:32 AM	MMDadoda	3/28/2025 9:32:37 AM	Peak Integrated by Software
VSTDICC010	VY021657.D	Methacrylonitrile	Romaben	3/28/2025 9:14:32 AM	MMDadoda	3/28/2025 9:32:37 AM	Peak Integrated by Software
VSTDICC020	VY021658.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:15:20 AM	MMDadoda	3/28/2025 9:32:41 AM	Peak Integrated by Software
VSTDICCC050	VY021659.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:14:38 AM	MMDadoda	3/28/2025 9:32:45 AM	Peak Integrated by Software
VSTDICCC050	VY021659.D	Methacrylonitrile	Romaben	3/28/2025 9:14:38 AM	MMDadoda	3/28/2025 9:32:45 AM	Peak Integrated by Software
VSTDICC100	VY021660.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:15:15 AM	MMDadoda	3/28/2025 9:32:49 AM	Peak Integrated by Software
VSTDICC150	VY021661.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:14:43 AM	MMDadoda	3/28/2025 9:32:53 AM	Peak Integrated by Software
VSTDICV050	VY021663.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:15:11 AM	MMDadoda	3/28/2025 9:32:04 AM	Peak Integrated by Software
VSTDCCC050	VY021680.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:14:58 AM	MMDadoda	3/28/2025 9:32:15 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VY041025	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY021826.D	1,2,3-Trichloropropane	MMDadoda	4/11/2025 1:58:51 PM	SAM	4/11/2025 2:00:34 PM	Peak Integrated by Software
VY0410SBS01	VY021828.D	1,2,3-Trichloropropane	MMDadoda	4/11/2025 1:58:53 PM	SAM	4/11/2025 2:00:35 PM	Peak Integrated by Software
VY0410SBS01	VY021828.D	Methacrylonitrile	MMDadoda	4/11/2025 1:58:53 PM	SAM	4/11/2025 2:00:35 PM	Peak Integrated by Software
VY0410SBSD01	VY021829.D	1,2,3-Trichloropropane	MMDadoda	4/11/2025 1:58:55 PM	SAM	4/11/2025 2:00:37 PM	Peak Integrated by Software

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM
SubDirectory	VX040225	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133559,VP133563		
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574		
CCC	VP133564,VP133565		
Internal Standard/PEM			
ICV/I.BLK	VP133575		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045524.D	01 Apr 2025 16:15	JC/MD	Ok
2	VSTDICCC001	VX045525.D	01 Apr 2025 17:06	JC/MD	Ok,M
3	VSTDICCC005	VX045526.D	01 Apr 2025 17:29	JC/MD	Ok,M
4	VSTDICCC020	VX045527.D	01 Apr 2025 17:52	JC/MD	Ok,M
5	VSTDICCC050	VX045528.D	01 Apr 2025 18:15	JC/MD	Ok,M
6	VSTDICCC100	VX045529.D	01 Apr 2025 18:38	JC/MD	Ok,M
7	VSTDICCC150	VX045530.D	01 Apr 2025 19:02	JC/MD	Ok,M
8	IBLK	VX045531.D	01 Apr 2025 19:25	JC/MD	Ok
9	VSTDICV050	VX045532.D	01 Apr 2025 19:48	JC/MD	Ok,M
10	BFB	VX045533.D	02 Apr 2025 09:30	JC/MD	Ok
11	VSTDICCC050	VX045534.D	02 Apr 2025 10:02	JC/MD	Ok,M
12	VX0402MBL01	VX045535.D	02 Apr 2025 10:30	JC/MD	Ok
13	VX0402WBL01	VX045536.D	02 Apr 2025 10:53	JC/MD	Ok
14	VX0402WBS01	VX045537.D	02 Apr 2025 11:16	JC/MD	Ok,M
15	VX0402WBSD01	VX045538.D	02 Apr 2025 11:44	JC/MD	Ok,M
16	Q1697-01	VX045539.D	02 Apr 2025 12:07	JC/MD	Dilution
17	Q1697-02	VX045540.D	02 Apr 2025 12:30	JC/MD	Dilution
18	IBLK	VX045541.D	02 Apr 2025 12:54	JC/MD	Ok
19	Q1697-01DL	VX045542.D	02 Apr 2025 13:21	JC/MD	Ok
20	Q1697-02DL	VX045543.D	02 Apr 2025 13:44	JC/MD	Ok
21	Q1697-03	VX045544.D	02 Apr 2025 14:07	JC/MD	Not Ok

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM
SubDirectory	VX040225	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133559,VP133563		
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574		
CCC	VP133564,VP133565		
Internal Standard/PEM			
ICV/I.BLK	VP133575		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q1697-04	VX045545.D	02 Apr 2025 14:31	JC/MD	Not Ok
23	Q1697-05	VX045546.D	02 Apr 2025 14:54	JC/MD	Not Ok
24	Q1697-07	VX045547.D	02 Apr 2025 15:18	JC/MD	Not Ok
25	IBLK	VX045548.D	02 Apr 2025 15:41	JC/MD	Ok
26	Q1697-03	VX045549.D	02 Apr 2025 16:04	JC/MD	Ok
27	Q1697-04	VX045550.D	02 Apr 2025 16:27	JC/MD	Ok
28	Q1697-05	VX045551.D	02 Apr 2025 16:51	JC/MD	Ok
29	Q1697-06	VX045552.D	02 Apr 2025 17:14	JC/MD	ReRun
30	Q1623-01	VX045553.D	02 Apr 2025 17:37	JC/MD	Ok
31	Q1623-02	VX045554.D	02 Apr 2025 18:01	JC/MD	Ok
32	Q1623-03	VX045555.D	02 Apr 2025 18:24	JC/MD	Ok
33	Q1623-04	VX045556.D	02 Apr 2025 18:47	JC/MD	Ok
34	VSTDCCC050	VX045557.D	02 Apr 2025 19:10	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX040725

Review By	John Carlone	Review On	4/8/2025 10:03:01 AM
Supervise By	Maresh Dadoda	Supervise On	4/8/2025 2:05:33 PM
SubDirectory	VX040725	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133600		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133601,VP133602		

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045613.D	07 Apr 2025 08:34	JC/MD	Ok
2	VSTDCCC050	VX045614.D	07 Apr 2025 09:17	JC/MD	Ok,M
3	VX0407MBL01	VX045615.D	07 Apr 2025 09:47	JC/MD	Ok
4	VX0407WBL01	VX045616.D	07 Apr 2025 10:11	JC/MD	Ok
5	VX0407WBS01	VX045617.D	07 Apr 2025 10:34	JC/MD	Ok,M
6	VX0407WBSD01	VX045618.D	07 Apr 2025 11:00	JC/MD	Ok,M
7	Q1731-04	VX045619.D	07 Apr 2025 11:23	JC/MD	Ok
8	Q1731-01	VX045620.D	07 Apr 2025 11:46	JC/MD	Ok,M
9	Q1731-02	VX045621.D	07 Apr 2025 12:09	JC/MD	Ok
10	Q1731-03	VX045622.D	07 Apr 2025 12:33	JC/MD	Ok
11	Q1741-03	VX045623.D	07 Apr 2025 12:56	JC/MD	Ok
12	Q1741-04	VX045624.D	07 Apr 2025 13:19	JC/MD	Ok
13	Q1741-01	VX045625.D	07 Apr 2025 13:43	JC/MD	Not Ok
14	Q1741-02	VX045626.D	07 Apr 2025 14:06	JC/MD	Not Ok
15	IBLK	VX045627.D	07 Apr 2025 14:35	JC/MD	Ok
16	Q1741-02	VX045628.D	07 Apr 2025 14:58	JC/MD	Ok
17	Q1746-08	VX045629.D	07 Apr 2025 15:21	JC/MD	Ok
18	Q1746-07	VX045630.D	07 Apr 2025 15:45	JC/MD	ReRun
19	Q1746-05	VX045631.D	07 Apr 2025 16:08	JC/MD	Ok
20	Q1746-06	VX045632.D	07 Apr 2025 16:31	JC/MD	Ok
21	VSTDCCC050	VX045633.D	07 Apr 2025 16:55	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX040825

Review By	John Carlone	Review On	4/9/2025 9:21:19 AM
Supervise By	Mahesh Dadoda	Supervise On	4/9/2025 11:41:10 AM
SubDirectory	VX040825	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133619		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133620,VP133621		

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045634.D	08 Apr 2025 07:49	JC/MD	Ok
2	VSTDCCC050	VX045635.D	08 Apr 2025 08:24	JC/MD	Ok,M
3	VX0408MBL01	VX045636.D	08 Apr 2025 08:49	JC/MD	Ok
4	VX0408WBL01	VX045637.D	08 Apr 2025 09:12	JC/MD	Ok
5	VX0408WBS01	VX045638.D	08 Apr 2025 09:43	JC/MD	Ok,M
6	VX0408WBSD01	VX045639.D	08 Apr 2025 10:08	JC/MD	Ok,M
7	Q1741-01	VX045640.D	08 Apr 2025 10:32	JC/MD	Ok
8	Q1746-07	VX045641.D	08 Apr 2025 10:55	JC/MD	Ok
9	Q1702-03	VX045642.D	08 Apr 2025 11:18	JC/MD	Ok
10	PB167492ZHE01	VX045643.D	08 Apr 2025 11:41	JC/MD	Ok
11	PB167492ZHE02	VX045644.D	08 Apr 2025 12:05	JC/MD	Ok
12	Q1737-02	VX045645.D	08 Apr 2025 12:28	JC/MD	Ok
13	PB167492ZHE04	VX045646.D	08 Apr 2025 12:51	JC/MD	Ok
14	PB167492ZHE05	VX045647.D	08 Apr 2025 13:14	JC/MD	Ok
15	PB167492ZHE06	VX045648.D	08 Apr 2025 13:38	JC/MD	Ok
16	PB167492ZHE07	VX045649.D	08 Apr 2025 14:01	JC/MD	Ok
17	PB167492ZHE08	VX045650.D	08 Apr 2025 14:24	JC/MD	Ok
18	PB167492ZHE09	VX045651.D	08 Apr 2025 14:47	JC/MD	Ok
19	PB167492ZHE10	VX045652.D	08 Apr 2025 15:11	JC/MD	Ok
20	PB167492ZHE11	VX045653.D	08 Apr 2025 15:34	JC/MD	Ok
21	PB167492ZHE03	VX045654.D	08 Apr 2025 15:58	JC/MD	Ok

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX040825

Review By	John Carlone	Review On	4/9/2025 9:21:19 AM
Supervise By	Mahesh Dadoda	Supervise On	4/9/2025 11:41:10 AM
SubDirectory	VX040825	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133619		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133620,VP133621		

22	Q1745-04	VX045655.D	08 Apr 2025 16:21	JC/MD	Ok
23	Q1732-04	VX045656.D	08 Apr 2025 16:44	JC/MD	Ok
24	Q1740-04	VX045657.D	08 Apr 2025 17:07	JC/MD	Ok
25	Q1745-12	VX045658.D	08 Apr 2025 17:31	JC/MD	Ok
26	Q1743-04	VX045659.D	08 Apr 2025 17:54	JC/MD	Ok
27	Q1744-02	VX045660.D	08 Apr 2025 18:17	JC/MD	Ok
28	Q1744-04	VX045661.D	08 Apr 2025 18:40	JC/MD	Ok
29	VSTDCCC050	VX045662.D	08 Apr 2025 19:04	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY032725

Review By	Maresh Dadoda	Review On	3/28/2025 3:29:57 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/28/2025 3:30:48 PM		
SubDirectory	VY032725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m
STD. NAME	STD REF.#				
Tune/Reschk	VP133499				
Initial Calibration Stds	VP133500,VP133501,VP133502,VP133503,VP133505,VP133508				
CCC	VP133510				
Internal Standard/PEM	VP131783				
ICV/I.BLK	VP133509				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021655.D	27 Mar 2025 09:23	SY/MD	Ok
2	VSTDICC005	VY021656.D	27 Mar 2025 10:08	SY/MD	Ok,M
3	VSTDICC010	VY021657.D	27 Mar 2025 10:31	SY/MD	Ok,M
4	VSTDICC020	VY021658.D	27 Mar 2025 10:54	SY/MD	Ok,M
5	VSTDICCC050	VY021659.D	27 Mar 2025 11:16	SY/MD	Ok,M
6	VSTDICC100	VY021660.D	27 Mar 2025 11:39	SY/MD	Ok,M
7	VSTDICC150	VY021661.D	27 Mar 2025 12:02	SY/MD	Ok,M
8	VIBLK	VY021662.D	27 Mar 2025 12:35	SY/MD	Ok
9	VSTDICV050	VY021663.D	27 Mar 2025 13:15	SY/MD	Ok,M
10	VY0327SBL01	VY021664.D	27 Mar 2025 13:59	SY/MD	Ok
11	VY0327SBS01	VY021665.D	27 Mar 2025 14:38	SY/MD	Ok,M
12	VY0327SBSD01	VY021666.D	27 Mar 2025 15:00	SY/MD	Ok,M
13	Q1661-02	VY021667.D	27 Mar 2025 15:24	SY/MD	Not Ok
14	Q1645-03RE	VY021668.D	27 Mar 2025 15:48	SY/MD	Confirms
15	Q1662-03	VY021669.D	27 Mar 2025 16:11	SY/MD	Not Ok
16	Q1662-07	VY021670.D	27 Mar 2025 16:35	SY/MD	ReRun
17	Q1661-02	VY021671.D	27 Mar 2025 16:58	SY/MD	Not Ok
18	Q1650-02	VY021672.D	27 Mar 2025 17:21	SY/MD	Not Ok
19	Q1654-01	VY021673.D	27 Mar 2025 17:45	SY/MD	Ok
20	Q1656-01	VY021674.D	27 Mar 2025 18:08	SY/MD	Not Ok
21	Q1648-09	VY021675.D	27 Mar 2025 18:32	SY/MD	Ok

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY032725

Review By	Maresh Dadoda	Review On	3/28/2025 3:29:57 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/28/2025 3:30:48 PM		
SubDirectory	VY032725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m
STD. NAME	STD REF.#				
Tune/Reschk	VP133499				
Initial Calibration Stds	VP133500,VP133501,VP133502,VP133503,VP133505,VP133508				
CCC	VP133510				
Internal Standard/PEM	VP131783				
ICV/I.BLK	VP133509				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q1648-07	VY021676.D	27 Mar 2025 18:55	SY/MD	Ok
23	Q1648-05	VY021677.D	27 Mar 2025 19:19	SY/MD	Ok
24	Q1648-01	VY021678.D	27 Mar 2025 19:42	SY/MD	Ok
25	Q1648-03	VY021679.D	27 Mar 2025 20:05	SY/MD	Ok
26	VSTDCCC050	VY021680.D	27 Mar 2025 20:28	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY041025

Review By	Mahesh Dadoda	Review On	4/11/2025 1:59:08 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/11/2025 2:00:45 PM		
SubDirectory	VY041025	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP133628			
CCC		VP133629,VP133630			
Internal Standard/PEM		VP131783			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021825.D	10 Apr 2025 08:34	SY/MD	Ok
2	VSTDCCC050	VY021826.D	10 Apr 2025 09:51	SY/MD	Ok,M
3	VY0410SBL01	VY021827.D	10 Apr 2025 10:28	SY/MD	Ok
4	VY0410SBS01	VY021828.D	10 Apr 2025 10:59	SY/MD	Ok,M
5	VY0410SBSD01	VY021829.D	10 Apr 2025 11:22	SY/MD	Ok,M
6	Q1747-01RE	VY021830.D	10 Apr 2025 12:06	SY/MD	Not Ok
7	Q1754-01RE	VY021831.D	10 Apr 2025 12:29	SY/MD	Not Ok
8	Q1732-03	VY021832.D	10 Apr 2025 12:53	SY/MD	Ok
9	Q1746-01	VY021833.D	10 Apr 2025 13:16	SY/MD	Ok
10	Q1746-03	VY021834.D	10 Apr 2025 13:40	SY/MD	Ok
11	Q1744-01	VY021835.D	10 Apr 2025 14:03	SY/MD	Ok
12	Q1744-03	VY021836.D	10 Apr 2025 14:26	SY/MD	Ok
13	Q1738-01RE	VY021837.D	10 Apr 2025 14:50	SY/MD	Confirms
14	Q1749-03	VY021838.D	10 Apr 2025 15:13	SY/MD	Ok
15	Q1743-03	VY021839.D	10 Apr 2025 15:37	SY/MD	Ok
16	Q1752-01	VY021840.D	10 Apr 2025 16:00	SY/MD	Ok
17	Q1752-03	VY021841.D	10 Apr 2025 16:24	SY/MD	Ok
18	Q1752-05	VY021842.D	10 Apr 2025 16:47	SY/MD	Ok
19	Q1752-07	VY021843.D	10 Apr 2025 17:10	SY/MD	Ok
20	Q1771-03	VY021844.D	10 Apr 2025 17:34	SY/MD	Ok
21	Q1771-07	VY021845.D	10 Apr 2025 17:57	SY/MD	Ok

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QCBatch ID # VY041025

Review By	Mahesh Dadoda	Review On	4/11/2025 1:59:08 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/11/2025 2:00:45 PM		
SubDirectory	VY041025	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP133628			
CCC		VP133629,VP133630			
Internal Standard/PEM		VP131783			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q1771-11	VY021846.D	10 Apr 2025 18:21	SY/MD	Ok
23	Q1760-03	VY021847.D	10 Apr 2025 18:44	SY/MD	Ok
24	Q1760-07	VY021848.D	10 Apr 2025 19:08	SY/MD	Dilution

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM
SubDirectory	VX040225	HP Acquire Method	HP Processing Method 82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133559,VP133563
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574
CCC	VP133564,VP133565
Internal Standard/PEM	
ICV/I.BLK	VP133575
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045524.D	01 Apr 2025 16:15		JC/MD	Ok
2	VSTDIC001	VSTDIC001	VX045525.D	01 Apr 2025 17:06	%D failed for Comp. #53 in 01PPB	JC/MD	Ok,M
3	VSTDIC005	VSTDIC005	VX045526.D	01 Apr 2025 17:29		JC/MD	Ok,M
4	VSTDIC020	VSTDIC020	VX045527.D	01 Apr 2025 17:52		JC/MD	Ok,M
5	VSTDIC050	VSTDIC050	VX045528.D	01 Apr 2025 18:15		JC/MD	Ok,M
6	VSTDIC100	VSTDIC100	VX045529.D	01 Apr 2025 18:38		JC/MD	Ok,M
7	VSTDIC150	VSTDIC150	VX045530.D	01 Apr 2025 19:02		JC/MD	Ok,M
8	IBLK	IBLK	VX045531.D	01 Apr 2025 19:25		JC/MD	Ok
9	VSTDICV050	ICV VX040225	VX045532.D	01 Apr 2025 19:48		JC/MD	Ok,M
10	BFB	BFB	VX045533.D	02 Apr 2025 09:30		JC/MD	Ok
11	VSTDIC050	VSTDIC050	VX045534.D	02 Apr 2025 10:02	pH#Lot#V12668	JC/MD	Ok,M
12	VX0402MBL01	VX0402MBL01	VX045535.D	02 Apr 2025 10:30		JC/MD	Ok
13	VX0402WBL01	VX0402WBL01	VX045536.D	02 Apr 2025 10:53		JC/MD	Ok
14	VX0402WBS01	VX0402WBS01	VX045537.D	02 Apr 2025 11:16		JC/MD	Ok,M
15	VX0402WBSD01	VX0402WBSD01	VX045538.D	02 Apr 2025 11:44		JC/MD	Ok,M
16	Q1697-01	MW-19B-72-040125	VX045539.D	02 Apr 2025 12:07	vial A pH<2 Need 200X	JC/MD	Dilution
17	Q1697-02	IW-01-55-040125	VX045540.D	02 Apr 2025 12:30	vial A pH<2 Need 10X	JC/MD	Dilution

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM
SubDirectory	VX040225	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133559,VP133563		
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574		
CCC	VP133564,VP133565		
Internal Standard/PEM			
ICV/I.BLK	VP133575		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

18	IBLK	IBLK	VX045541.D	02 Apr 2025 12:54		JC/MD	Ok
19	Q1697-01DL	MW-19B-72-040125DL	VX045542.D	02 Apr 2025 13:21	vial B pH<2	JC/MD	Ok
20	Q1697-02DL	IW-01-55-040125DL	VX045543.D	02 Apr 2025 13:44	vial B pH<2	JC/MD	Ok
21	Q1697-03	IW-02-55-040125	VX045544.D	02 Apr 2025 14:07	Need lower dilution	JC/MD	Not Ok
22	Q1697-04	IW-02-55-040125-FD	VX045545.D	02 Apr 2025 14:31	Need lower dilution	JC/MD	Not Ok
23	Q1697-05	IW-03-55-040125	VX045546.D	02 Apr 2025 14:54	Need lower dilution	JC/MD	Not Ok
24	Q1697-07	MW-19B-72-040125	VX045547.D	02 Apr 2025 15:18	Not On Login	JC/MD	Not Ok
25	IBLK	IBLK	VX045548.D	02 Apr 2025 15:41		JC/MD	Ok
26	Q1697-03	IW-02-55-040125	VX045549.D	02 Apr 2025 16:04	vial A pH<2	JC/MD	Ok
27	Q1697-04	IW-02-55-040125-FD	VX045550.D	02 Apr 2025 16:27	vial A pH<2	JC/MD	Ok
28	Q1697-05	IW-03-55-040125	VX045551.D	02 Apr 2025 16:51	vial A pH<2	JC/MD	Ok
29	Q1697-06	TB-01-040125	VX045552.D	02 Apr 2025 17:14	vial A pH<2 TB;Hit of comp.#44	JC/MD	ReRun
30	Q1623-01	Storage-Blank-SOIL-RE	VX045553.D	02 Apr 2025 17:37	vial A pH<2	JC/MD	Ok
31	Q1623-02	Storage-Blank-WATER	VX045554.D	02 Apr 2025 18:01	vial A pH<2	JC/MD	Ok
32	Q1623-03	Storage-Blank-WATER	VX045555.D	02 Apr 2025 18:24	vial A pH<2	JC/MD	Ok
33	Q1623-04	Storage-Blank-SAMPLE	VX045556.D	02 Apr 2025 18:47	vial A pH<2	JC/MD	Ok
34	VSTDCCC050	VSTDCCC050EC	VX045557.D	02 Apr 2025 19:10		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX040725

Review By	John Carlone	Review On	4/8/2025 10:03:01 AM
Supervise By	Maresh Dadoda	Supervise On	4/8/2025 2:05:33 PM
SubDirectory	VX040725	HP Acquire Method	HP Processing Method 82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP133600
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133601,VP133602

Sr #	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045613.D	07 Apr 2025 08:34		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX045614.D	07 Apr 2025 09:17		JC/MD	Ok,M
3	VX0407MBL01	VX0407MBL01	VX045615.D	07 Apr 2025 09:47	pH#Lot#V12668	JC/MD	Ok
4	VX0407WBL01	VX0407WBL01	VX045616.D	07 Apr 2025 10:11		JC/MD	Ok
5	VX0407WBS01	VX0407WBS01	VX045617.D	07 Apr 2025 10:34		JC/MD	Ok,M
6	VX0407WBSD01	VX0407WBSD01	VX045618.D	07 Apr 2025 11:00		JC/MD	Ok,M
7	Q1731-04	RMW-03B-90-040325	VX045619.D	07 Apr 2025 11:23	vial A pH<2	JC/MD	Ok
8	Q1731-01	RMW-01B-82-040325	VX045620.D	07 Apr 2025 11:46	vial A pH<2	JC/MD	Ok,M
9	Q1731-02	RMW-04B-91-040325	VX045621.D	07 Apr 2025 12:09	vial A pH<2	JC/MD	Ok
10	Q1731-03	RMW-01B-82-040325-F	VX045622.D	07 Apr 2025 12:33	vial A pH<2	JC/MD	Ok
11	Q1741-03	FB01-040425	VX045623.D	07 Apr 2025 12:56	vial A pH<2,FB	JC/MD	Ok
12	Q1741-04	TB01-040425	VX045624.D	07 Apr 2025 13:19	vial A pH<2,TB	JC/MD	Ok
13	Q1741-01	RMW-02B-66-040425	VX045625.D	07 Apr 2025 13:43	run 50x	JC/MD	Not Ok
14	Q1741-02	RMW-06B-74-040425	VX045626.D	07 Apr 2025 14:06	Need Straight Run	JC/MD	Not Ok
15	IBLK	IBLK	VX045627.D	07 Apr 2025 14:35		JC/MD	Ok
16	Q1741-02	RMW-06B-74-040425	VX045628.D	07 Apr 2025 14:58	vial A pH<2	JC/MD	Ok
17	Q1746-08	TB-2025-4-7	VX045629.D	07 Apr 2025 15:21	vial A pH<2 TB	JC/MD	Ok
18	Q1746-07	EB-2025-4-7	VX045630.D	07 Apr 2025 15:45	vial A pH<2 EB,Hit of com.#16	JC/MD	ReRun

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX040725

Review By	John Carlone	Review On	4/8/2025 10:03:01 AM
Supervise By	Maresh Dadoda	Supervise On	4/8/2025 2:05:33 PM
SubDirectory	VX040725	HP Acquire Method	HP Processing Method 82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP133600
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133601,VP133602

19	Q1746-05	B-158-GW01	VX045631.D	07 Apr 2025 16:08	vial A pH<2	JC/MD	Ok
20	Q1746-06	B-149-GW01	VX045632.D	07 Apr 2025 16:31	vial A pH<2	JC/MD	Ok
21	VSTDCCC050	VSTDCCC050EC	VX045633.D	07 Apr 2025 16:55		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX040825

Review By	John Carlone	Review On	4/9/2025 9:21:19 AM
Supervise By	Maresh Dadoda	Supervise On	4/9/2025 11:41:10 AM
SubDirectory	VX040825	HP Acquire Method	HP Processing Method 82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP133619
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133620,VP133621

Sr #	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045634.D	08 Apr 2025 07:49		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX045635.D	08 Apr 2025 08:24	pH#Lot#V12668	JC/MD	Ok,M
3	VX0408MBL01	VX0408MBL01	VX045636.D	08 Apr 2025 08:49		JC/MD	Ok
4	VX0408WBL01	VX0408WBL01	VX045637.D	08 Apr 2025 09:12		JC/MD	Ok
5	VX0408WBS01	VX0408WBS01	VX045638.D	08 Apr 2025 09:43		JC/MD	Ok,M
6	VX0408WBSD01	VX0408WBSD01	VX045639.D	08 Apr 2025 10:08		JC/MD	Ok,M
7	Q1741-01	RMW-02B-66-040425	VX045640.D	08 Apr 2025 10:32	vial A pH<2	JC/MD	Ok
8	Q1746-07	EB-2025-4-7	VX045641.D	08 Apr 2025 10:55	vial B pH<2 EB	JC/MD	Ok
9	Q1702-03	60442	VX045642.D	08 Apr 2025 11:18	vial A pH<2 Foamy sample	JC/MD	Ok
10	PB167492ZHE01	PB167492ZHE01	VX045643.D	08 Apr 2025 11:41		JC/MD	Ok
11	PB167492ZHE02	PB167492ZHE02	VX045644.D	08 Apr 2025 12:05		JC/MD	Ok
12	Q1737-02	RT3069	VX045645.D	08 Apr 2025 12:28	vial A pH#5.0	JC/MD	Ok
13	PB167492ZHE04	PB167492ZHE04	VX045646.D	08 Apr 2025 12:51		JC/MD	Ok
14	PB167492ZHE05	PB167492ZHE05	VX045647.D	08 Apr 2025 13:14		JC/MD	Ok
15	PB167492ZHE06	PB167492ZHE06	VX045648.D	08 Apr 2025 13:38		JC/MD	Ok
16	PB167492ZHE07	PB167492ZHE07	VX045649.D	08 Apr 2025 14:01		JC/MD	Ok
17	PB167492ZHE08	PB167492ZHE08	VX045650.D	08 Apr 2025 14:24		JC/MD	Ok
18	PB167492ZHE09	PB167492ZHE09	VX045651.D	08 Apr 2025 14:47		JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX040825

Review By	John Carlone	Review On	4/9/2025 9:21:19 AM
Supervise By	Maresh Dadoda	Supervise On	4/9/2025 11:41:10 AM
SubDirectory	VX040825	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133619		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133620,VP133621		

19	PB167492ZHE10	PB167492ZHE10	VX045652.D	08 Apr 2025 15:11		JC/MD	Ok
20	PB167492ZHE11	PB167492ZHE11	VX045653.D	08 Apr 2025 15:34		JC/MD	Ok
21	PB167492ZHE03	PB167492ZHE03	VX045654.D	08 Apr 2025 15:58		JC/MD	Ok
22	Q1745-04	IB-6A-WC	VX045655.D	08 Apr 2025 16:21	vial A pH#5.0	JC/MD	Ok
23	Q1732-04	TT-8	VX045656.D	08 Apr 2025 16:44	vial A pH#5.0	JC/MD	Ok
24	Q1740-04	TP-20	VX045657.D	08 Apr 2025 17:07	vial A pH#5.0	JC/MD	Ok
25	Q1745-12	IB-6.5-WC	VX045658.D	08 Apr 2025 17:31	vial A pH#5.0	JC/MD	Ok
26	Q1743-04	TP-16	VX045659.D	08 Apr 2025 17:54	vial A pH#5.0	JC/MD	Ok
27	Q1744-02	B-158-SB01	VX045660.D	08 Apr 2025 18:17	vial A pH#5.0	JC/MD	Ok
28	Q1744-04	B-158-SB02	VX045661.D	08 Apr 2025 18:40	vial A pH#5.0	JC/MD	Ok
29	VSTDCCC050	VSTDCCC050EC	VX045662.D	08 Apr 2025 19:04		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY032725

Review By	Mahesh Dadoda	Review On	3/28/2025 3:29:57 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/28/2025 3:30:48 PM		
SubDirectory	VY032725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133499
Initial Calibration Stds	VP133500,VP133501,VP133502,VP133503,VP133505,VP133508
CCC	VP133510
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133509
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021655.D	27 Mar 2025 09:23		SY/MD	Ok
2	VSTDIC005	VSTDIC005	VY021656.D	27 Mar 2025 10:08		SY/MD	Ok,M
3	VSTDIC010	VSTDIC010	VY021657.D	27 Mar 2025 10:31		SY/MD	Ok,M
4	VSTDIC020	VSTDIC020	VY021658.D	27 Mar 2025 10:54	Comp.#20 is on Linear Regression	SY/MD	Ok,M
5	VSTDIC050	VSTDIC050	VY021659.D	27 Mar 2025 11:16		SY/MD	Ok,M
6	VSTDIC100	VSTDIC100	VY021660.D	27 Mar 2025 11:39		SY/MD	Ok,M
7	VSTDIC150	VSTDIC150	VY021661.D	27 Mar 2025 12:02		SY/MD	Ok,M
8	VIBLK	VIBLK	VY021662.D	27 Mar 2025 12:35		SY/MD	Ok
9	VSTDICV050	ICVVY032725	VY021663.D	27 Mar 2025 13:15		SY/MD	Ok,M
10	VY0327SBL01	VY0327SBL01	VY021664.D	27 Mar 2025 13:59		SY/MD	Ok
11	VY0327SBS01	VY0327SBS01	VY021665.D	27 Mar 2025 14:38		SY/MD	Ok,M
12	VY0327SBS01	VY0327SBS01	VY021666.D	27 Mar 2025 15:00		SY/MD	Ok,M
13	Q1661-02	351	VY021667.D	27 Mar 2025 15:24	vial-B Not purge	SY/MD	Not Ok
14	Q1645-03RE	TP-4-VOCRE	VY021668.D	27 Mar 2025 15:48	vial-B Internal Standard Fail	SY/MD	Confirms
15	Q1662-03	TP-6-VOC	VY021669.D	27 Mar 2025 16:11	vial-A NOT PURGE	SY/MD	Not Ok
16	Q1662-07	TP-7-VOC	VY021670.D	27 Mar 2025 16:35	vial-A Internal Standard Fail	SY/MD	ReRun
17	Q1661-02	351	VY021671.D	27 Mar 2025 16:58	vial-A NOT PURGE	SY/MD	Not Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY032725

Review By	Mahesh Dadoda	Review On	3/28/2025 3:29:57 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/28/2025 3:30:48 PM		
SubDirectory	VY032725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m
STD. NAME	STD REF.#				
Tune/Reschk	VP133499				
Initial Calibration Stds	VP133500,VP133501,VP133502,VP133503,VP133505,VP133508				
CCC	VP133510				
Internal Standard/PEM	VP131783				
ICV/I.BLK	VP133509				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

18	Q1650-02	STOCK-PILE-BIN2	VY021672.D	27 Mar 2025 17:21	vial-A NOT PURGE	SY/MD	Not Ok
19	Q1654-01	RT3407	VY021673.D	27 Mar 2025 17:45	vial-A Internal Standard Fail	SY/MD	Ok
20	Q1656-01	VNJ239	VY021674.D	27 Mar 2025 18:08	vial-A NOT PURGE	SY/MD	Not Ok
21	Q1648-09	TP-7	VY021675.D	27 Mar 2025 18:32	vial-A	SY/MD	Ok
22	Q1648-07	TP-6	VY021676.D	27 Mar 2025 18:55	vial-A	SY/MD	Ok
23	Q1648-05	TP-3	VY021677.D	27 Mar 2025 19:19	vial-A	SY/MD	Ok
24	Q1648-01	TP-4	VY021678.D	27 Mar 2025 19:42	vial-A	SY/MD	Ok
25	Q1648-03	TP-5	VY021679.D	27 Mar 2025 20:05	vial-A	SY/MD	Ok
26	VSTDCCC050	VSTDCCC050EC	VY021680.D	27 Mar 2025 20:28		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY041025

Review By	Maresh Dadoda	Review On	4/11/2025 1:59:08 PM
Supervise By	Semsettin Yesilyurt	Supervise On	4/11/2025 2:00:45 PM
SubDirectory	VY041025	HP Acquire Method	MSVOA_Y HP Processing Method 82y032725s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP133628
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133629,VP133630 VP131783

Sr #	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021825.D	10 Apr 2025 08:34		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY021826.D	10 Apr 2025 09:51		SY/MD	Ok,M
3	VY0410SBL01	VY0410SBL01	VY021827.D	10 Apr 2025 10:28		SY/MD	Ok
4	VY0410SBS01	VY0410SBS01	VY021828.D	10 Apr 2025 10:59		SY/MD	Ok,M
5	VY0410SBSD01	VY0410SBSD01	VY021829.D	10 Apr 2025 11:22		SY/MD	Ok,M
6	Q1747-01RE	ARS20-0008RE	VY021830.D	10 Apr 2025 12:06	vial-B not purged	SY/MD	Not Ok
7	Q1754-01RE	TP-1RE	VY021831.D	10 Apr 2025 12:29	vial-B Internal standard fail;Not match for com.#64	SY/MD	Not Ok
8	Q1732-03	TT-8-VOC	VY021832.D	10 Apr 2025 12:53	vial-A	SY/MD	Ok
9	Q1746-01	B-149-SB01	VY021833.D	10 Apr 2025 13:16	vial-A	SY/MD	Ok
10	Q1746-03	B-149-SB02	VY021834.D	10 Apr 2025 13:40	vial-A	SY/MD	Ok
11	Q1744-01	B-158-SB01	VY021835.D	10 Apr 2025 14:03	vial-A	SY/MD	Ok
12	Q1744-03	B-158-SB02	VY021836.D	10 Apr 2025 14:26	vial-A	SY/MD	Ok
13	Q1738-01RE	OK-02-040425RE	VY021837.D	10 Apr 2025 14:50	vial-B Internal Standard Fail	SY/MD	Confirms
14	Q1749-03	TP-14-VOC	VY021838.D	10 Apr 2025 15:13	vial-A	SY/MD	Ok
15	Q1743-03	TP-16-VOC	VY021839.D	10 Apr 2025 15:37	vial-A	SY/MD	Ok
16	Q1752-01	TP-1	VY021840.D	10 Apr 2025 16:00	vial-A	SY/MD	Ok
17	Q1752-03	TP-2	VY021841.D	10 Apr 2025 16:24	vial-A	SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY041025

Review By	Mahesh Dadoda	Review On	4/11/2025 1:59:08 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/11/2025 2:00:45 PM		
SubDirectory	VY041025	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP133628			
CCC		VP133629,VP133630			
Internal Standard/PEM		VP131783			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

18	Q1752-05	TP-4	VY021842.D	10 Apr 2025 16:47	vial-A	SY/MD	Ok
19	Q1752-07	TP-3	VY021843.D	10 Apr 2025 17:10	vial-A	SY/MD	Ok
20	Q1771-03	TP-6C-VOC	VY021844.D	10 Apr 2025 17:34	vial-A	SY/MD	Ok
21	Q1771-07	TP-7C-VOC	VY021845.D	10 Apr 2025 17:57	vial-A	SY/MD	Ok
22	Q1771-11	TP-3A-VOC	VY021846.D	10 Apr 2025 18:21	vial-A	SY/MD	Ok
23	Q1760-03	TP-17-VOC	VY021847.D	10 Apr 2025 18:44	vial-A	SY/MD	Ok
24	Q1760-07	TP-15-VOC	VY021848.D	10 Apr 2025 19:08	vial-A Internal Standard Fail; Surrogate Fail;Need MeOH	SY/MD	Dilution

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 4/8/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:05
In Date: 04/07/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:19
Out Date: 04/08/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135324

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q1740-01	TP-20	1	1.14	9.97	11.11	9.88	87.7	
Q1740-02	TP-20-E2	2	1.15	10.14	11.29	10.06	87.9	
Q1740-03	TP-20-VOC	3	1.18	11.96	13.14	11.9	89.6	
Q1742-01	TR-06-040725	17	1.14	10.11	11.25	10.00	87.6	
Q1742-02	TR-06-040725-E2	18	1.18	10.20	11.38	10.24	88.8	
Q1743-01	TP-16	4	1.14	10.15	11.29	10.74	94.6	
Q1743-02	TP-16-EPH	5	1.16	9.91	11.07	9.27	81.8	
Q1743-03	TP-16-VOC	6	1.14	10.34	11.48	10.84	93.8	
Q1744-01	B-158-SB01	7	1.12	9.66	10.78	9.81	90.0	
Q1744-03	B-158-SB02	8	1.18	10.73	11.91	7.19	56.0	
Q1745-01	IB-6A-WC	9	1.17	10.10	11.27	9.76	85.0	
Q1745-02	IB-6A-EPH	10	1.18	9.96	11.14	9.56	84.1	
Q1745-03	IB-6A-VOC	11	1.18	10.06	11.24	9.98	87.5	
Q1745-09	IB-6.5-WC	12	1.15	10.49	11.64	8.65	71.5	
Q1745-10	IB-6.5-EPH	13	1.18	10.26	11.44	8.46	71.0	
Q1745-11	IB-6.5-VOC	14	1.15	9.98	11.13	7.93	67.9	
Q1746-01	B-149-SB01	15	1.14	10.17	11.31	10.22	89.3	
Q1746-03	B-149-SB02	16	1.14	10.23	11.37	9.81	84.8	
Q1747-01	ARS20-0008	19	1.15	10.33	11.48	11.08	96.1	
Q1747-02	ARS20-0008-E2	20	1.19	10.08	11.27	10.8	95.3	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

135324

WorkList Name : %1-040725 WorkList ID : 188763 Department : Wet-Chemistry Date : 04-07-2025 08:21:09

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1740-01	TP-20	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	04/04/2025	Chemtech -SO
Q1740-02	TP-20-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	04/04/2025	Chemtech -SO
Q1740-03	TP-20-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	04/04/2025	Chemtech -SO
Q1742-01	TR-06-040725	Solid	Percent Solids	Cool 4 deg C	PSEG05		04/04/2025	Chemtech -SO
Q1742-02	TR-06-040725-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05		04/04/2025	Chemtech -SO
Q1743-01	TP-16	Solid	Percent Solids	Cool 4 deg C	PSEG03	L33	04/07/2025	Chemtech -SO
Q1743-02	TP-16-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L33	04/07/2025	Chemtech -SO
Q1743-03	TP-16-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L33	04/07/2025	Chemtech -SO
Q1744-01	B-158-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	L41	04/05/2025	Chemtech -SO
Q1744-03	B-158-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	L41	04/05/2025	Chemtech -SO
Q1745-01	IB-6A-WC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/07/2025	Chemtech -SO
Q1745-02	IB-6A-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/07/2025	Chemtech -SO
Q1745-03	IB-6A-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/07/2025	Chemtech -SO
Q1745-09	IB-6.5-WC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/07/2025	Chemtech -SO
Q1745-10	IB-6.5-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/07/2025	Chemtech -SO
Q1745-11	IB-6.5-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/07/2025	Chemtech -SO
Q1746-01	B-149-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	L41	04/05/2025	Chemtech -SO
Q1746-03	B-149-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	L41	04/06/2025	Chemtech -SO
Q1747-01	ARS20-0008	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	04/07/2025	Chemtech -SO
Q1747-02	ARS20-0008-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	04/07/2025	Chemtech -SO

Date/Time 04/07/25 15:25
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

Date/Time 04/07/25
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

17.15
 [Signature]



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Gannett Fleming
ADDRESS: 1010 Adams Ave
CITY: Audobon STATE: PA ZIP: 19405
ATTENTION: Joe Krupansky
PHONE: 610-301-8342 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Amtrak Replacement of SB
PROJECT NO.: 9500000818 LOCATION: Kearny, NJ
PROJECT MANAGER: Joe Krupansky
e-mail: QAQC@BEMSYS.COM
PHONE: 610-301-8342 FAX:

CLIENT BILLING INFORMATION

BILL TO: Alliance PO#:
ADDRESS: 284 Sheffield St
CITY: Mountainside STATE: NJ ZIP: 07093
ATTENTION: Samuela Beasy PHONE: 9087883148

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☒ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other _____
☐ EDD FORMAT BEM EDD

1. PCBs 2. TAL Metals 3. TCL-VOC+10 4. Cr(VI) Cr(III) 5. TCL-SVOCs-BVA-2B 6. EPH 7. PCRA 8. TULP 9.

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	B-158-GW01	GW		X	4/5/25	2300	8	X	X	X	X	X	X				
2.	B-149-SB01	S		X	4/5/25	2025	9	X	X	X	X	X	X	X	X		
3.	B-149-SB02	S		X	4/6/25	110	7										
4.	B-149-GW01	GW		X	4/6/25	345	8	X	X	X	X	X	X				
5.	EB																
6.	TB				NA	NA				X							
7.	EB-2025.4.7	WQ			4/7/25	830	9	X	X	X	X	X	X				
8.	TB-2025.4.7	-			-	-				X							
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: <u>Natali Zoon</u>	DATE/TIME: <u>4-7-25</u> <u>1040</u>	RECEIVED BY: <u>CR</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>2.1</u> °C
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	Comments: <u>B-149-SB02 has limited volume</u>
2.		2.	<u>"Adjust factor + 1"</u>
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
3.		3.	

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete

☐ YES ☐ NO

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1746	PORT06	Order Date : 4/7/2025 12:00:00 PM	Project Mgr :
Client Name : Portal Partners Tri-Venture		Project Name : Amtrak Sawtooth Bridges 2	Report Type : NJ Reduced
Client Contact : Joseph Krupansky		Receive DateTime : 4/7/2025 10:40:00 AM	EDD Type : EXCEL NJCLEANUP
Invoice Name : Portal Partners Tri-Venture		Purchase Order :	Hard Copy Date :
Invoice Contact : Joseph Krupansky			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1746-01	B-149-SB01	Solid	04/05/2025	20:25					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1746-03	B-149-SB02	Solid	04/06/2025	01:10					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1746-05	B-158-GW01	Water	04/05/2025	23:00					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q1746-06	B-149-GW01	Water	04/05/2025	03:45					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q1746-07	EB-2025-4-7	Water	04/07/2025	08:30					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q1746-08	TB-2025-4-7	Water	04/07/2025	00:00					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1746	PORT06	Order Date : 4/7/2025 12:00:00 PM	Project Mgr :
Client Name : Portal Partners Tri-Venture		Project Name : Amtrak Sawtooth Bridges 2	Report Type : NJ Reduced
Client Contact : Joseph Krupansky		Receive DateTime : 4/7/2025 10:40:00 AM	EDD Type : EXCEL NJCLEANUP
Invoice Name : Portal Partners Tri-Venture		Purchase Order :	Hard Copy Date :
Invoice Contact : Joseph Krupansky			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinquished By :

Date / Time :


4-7-25 12:55

Received By :

Date / Time :


4-7-25 12:55

Storage Area : VOA Refridgerator Room