

Cover Page

Order ID : Q2231

Project ID : Con Ed Non MGP – Atlantic Ave 453957.600024.05

Client : PARSONS Engineering of New York, Inc.

Lab Sample Number

Q2231-01
Q2231-02
Q2231-03
Q2231-04
Q2231-05
Q2231-06

Client Sample Number

MW-10D-20250604
MW-14-20250604
MW-15-20250604
MW-16D-20250604
MW-17-20250604
TB-20250604

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: 6/12/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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 #: Q2231

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 Castody

✓

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: KETAN PATEL

Date: 06/12/2025

LAB CHRONICLE

OrderID:	Q2231	OrderDate:	6/4/2025 4:40:00 PM
Client:	PARSONS Engineering of New York, Inc.	Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05
Contact:	Stephen Liberatore	Location:	N41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2231-01	MW-10D-20250604	Water	VOCMS Group1	8260-Low	06/04/25		06/11/25	06/04/25
Q2231-02	MW-14-20250604	Water	VOCMS Group1	8260-Low	06/04/25		06/11/25	06/04/25
Q2231-03	MW-15-20250604	Water	VOCMS Group1	8260-Low	06/04/25		06/11/25	06/04/25
Q2231-04	MW-16D-20250604	Water	VOCMS Group1	8260-Low	06/04/25		06/11/25	06/04/25
Q2231-05	MW-17-20250604	Water	VOCMS Group1	8260-Low	06/04/25		06/11/25	06/04/25
Q2231-06	TB-20250604	Water	VOCMS Group1	8260-Low	06/04/25		06/11/25	06/04/25

Hit Summary Sheet SW-846

SDG No.: Q2231
Client: PARSONS Engineering of New York, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	MW-10D-20250604							
Q2231-01	MW-10D-20250604	Water	Acetone	1.70	J	1.50	5.00	ug/L
Q2231-01	MW-10D-20250604	Water	Chloroform	5.00		0.25	1.00	ug/L
Q2231-01	MW-10D-20250604	Water	Toluene	0.32	J	0.14	1.00	ug/L
Q2231-01	MW-10D-20250604	Water	Tetrachloroethene	0.55	J	0.23	1.00	ug/L
Q2231-01	MW-10D-20250604	Water	Ethyl Benzene	1.90		0.13	1.00	ug/L
Q2231-01	MW-10D-20250604	Water	m/p-Xylenes	4.60		0.24	2.00	ug/L
Q2231-01	MW-10D-20250604	Water	o-Xylene	0.92	J	0.12	1.00	ug/L
			Total Voc :	15.0				
Q2231-01	MW-10D-20250604	Water	n-propylbenzene	* 0.25	J	0.13	1.00	ug/L
Q2231-01	MW-10D-20250604	Water	1,3,5-Trimethylbenzene	* 0.43	J	0.15	1.00	ug/L
Q2231-01	MW-10D-20250604	Water	1,2,4-Trimethylbenzene	* 1.60	J	0.14	1.00	ug/L
Q2231-01	MW-10D-20250604	Water	Naphthalene	* 0.33	J	0.20	1.00	ug/L
			Total Tics :	2.61				
			Total Concentration:	17.6				
Client ID:	MW-14-20250604							
Q2231-02	MW-14-20250604	Water	Acetone	3.20	J	1.50	5.00	ug/L
Q2231-02	MW-14-20250604	Water	Methylcyclohexane	4.30		0.16	1.00	ug/L
Q2231-02	MW-14-20250604	Water	Benzene	1.10		0.15	1.00	ug/L
Q2231-02	MW-14-20250604	Water	Trichloroethene	0.31	J	0.090	1.00	ug/L
Q2231-02	MW-14-20250604	Water	Toluene	0.73	J	0.14	1.00	ug/L
Q2231-02	MW-14-20250604	Water	Ethyl Benzene	11.8		0.13	1.00	ug/L
Q2231-02	MW-14-20250604	Water	m/p-Xylenes	0.89	J	0.24	2.00	ug/L
Q2231-02	MW-14-20250604	Water	o-Xylene	2.60		0.12	1.00	ug/L
Q2231-02	MW-14-20250604	Water	Styrene	0.83	J	0.15	1.00	ug/L
Q2231-02	MW-14-20250604	Water	Isopropylbenzene	92.9		0.12	1.00	ug/L
			Total Voc :	119				
Q2231-02	MW-14-20250604	Water	Naphthalene, 1-methyl-	* 62.5	J	0	0	ug/L
Q2231-02	MW-14-20250604	Water	Benzene, 1,2,4,5-tetramethyl-	* 29.9	J	0	0	ug/L
Q2231-02	MW-14-20250604	Water	Indane	* 110	J	0	0	ug/L
Q2231-02	MW-14-20250604	Water	Benzene, 1-ethyl-2-methyl-	* 38.0	J	0	0	ug/L
Q2231-02	MW-14-20250604	Water	Indan, 1-methyl-	* 45.9	J	0	0	ug/L
Q2231-02	MW-14-20250604	Water	1H-Indene, 2,3-dihydro-4-meth	* 24.0	J	0	0	ug/L
Q2231-02	MW-14-20250604	Water	Benzene, 1-ethyl-2,4-dimethyl-	* 18.3	J	0	0	ug/L
Q2231-02	MW-14-20250604	Water	2-Methylindene	* 91.7	J	0	0	ug/L
Q2231-02	MW-14-20250604	Water	Cycloprop[a]indene, 1,1a,6,6a-i	* 23.3	J	0	0	ug/L
Q2231-02	MW-14-20250604	Water	n-propylbenzene	* 84.2	J	0.13	1.00	ug/L

Hit Summary Sheet SW-846

SDG No.: Q2231

Client: PARSONS Engineering of New York, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2231-02	MW-14-20250604	Water	1,3,5-Trimethylbenzene	* 21.4	J	0.15	1.00	ug/L
Q2231-02	MW-14-20250604	Water	1,2,4-Trimethylbenzene	* 620	J	0.14	1.00	ug/L
Q2231-02	MW-14-20250604	Water	p-Isopropyltoluene	* 16.0	J	0.13	1.00	ug/L
Q2231-02	MW-14-20250604	Water	n-Butylbenzene	* 9.60	J	0.15	1.00	ug/L
Total Tics :				1190				
Total Concentration:				1310				
Client ID:	MW-15-20250604							
Q2231-03	MW-15-20250604	Water	Chloroform	5.20		0.25	1.00	ug/L
Q2231-03	MW-15-20250604	Water	Tetrachloroethene	1.00		0.23	1.00	ug/L
Q2231-03	MW-15-20250604	Water	Isopropylbenzene	0.28	J	0.12	1.00	ug/L
Total Voc :				6.48				
Q2231-03	MW-15-20250604	Water	Acenaphthene	* 61.8	J	0	0	ug/L
Q2231-03	MW-15-20250604	Water	Biphenyl	* 15.6	J	0	0	ug/L
Q2231-03	MW-15-20250604	Water	Naphthalene, 1,4-dimethyl-	* 14.2	J	0	0	ug/L
Q2231-03	MW-15-20250604	Water	Naphthalene, 1,5-dimethyl-	* 17.2	J	0	0	ug/L
Q2231-03	MW-15-20250604	Water	Naphthalene, 1,3-dimethyl-	* 10.8	J	0	0	ug/L
Q2231-03	MW-15-20250604	Water	Naphthalene, 2,3-dimethyl-	* 62.8	J	0	0	ug/L
Q2231-03	MW-15-20250604	Water	Naphthalene, 2,6-dimethyl-	* 34.1	J	0	0	ug/L
Q2231-03	MW-15-20250604	Water	Naphthalene, 2,7-dimethyl-	* 16.3	J	0	0	ug/L
Q2231-03	MW-15-20250604	Water	1,1-Biphenyl, 4-methyl-	* 5.50	J	0	0	ug/L
Q2231-03	MW-15-20250604	Water	Naphthalene, 2-ethyl-	* 38.0	J	0	0	ug/L
Q2231-03	MW-15-20250604	Water	n-propylbenzene	* 0.26	J	0.13	1.00	ug/L
Q2231-03	MW-15-20250604	Water	1,2,4-Trimethylbenzene	* 1.70	J	0.14	1.00	ug/L
Q2231-03	MW-15-20250604	Water	Naphthalene	* 20.3	J	0.20	1.00	ug/L
Total Tics :				299				
Total Concentration:				305				
Client ID:	MW-16D-20250604							
Q2231-04	MW-16D-20250604	Water	Acetone	1.50	J	1.50	5.00	ug/L
Q2231-04	MW-16D-20250604	Water	Chloroform	11.7		0.25	1.00	ug/L
Q2231-04	MW-16D-20250604	Water	Tetrachloroethene	0.68	J	0.23	1.00	ug/L
Total Voc :				13.9				
Q2231-04	MW-16D-20250604	Water	1,2,4-Trimethylbenzene	* 0.73	J	0.14	1.00	ug/L
Q2231-04	MW-16D-20250604	Water	Naphthalene	* 6.00	J	0.20	1.00	ug/L
Total Tics :				6.73				
Total Concentration:				20.6				
Client ID:	MW-17-20250604							
Q2231-05	MW-17-20250604	Water	Acetone	1.70	J	1.50	5.00	ug/L
Q2231-05	MW-17-20250604	Water	Chloroform	21.3		0.25	1.00	ug/L

Hit Summary Sheet
SW-846

SDG No.: Q2231

Client: PARSONS Engineering of New York, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2231-05	MW-17-20250604	Water	Tetrachloroethene	0.93	J	0.23	1.00	ug/L
			Total Voc :			23.9		
Q2231-05	MW-17-20250604	Water	1,2,4-Trimethylbenzene	* 0.92	J	0.14	1.00	ug/L
Q2231-05	MW-17-20250604	Water	Naphthalene	* 6.10	J	0.20	1.00	ug/L
			Total Tics :			7.02		
			Total Concentration:			30.9		
Client ID:	TB-20250604							
Q2231-06	TB-20250604	Water	Naphthalene	* 2.60	J	0.20	1.00	ug/L
			Total Tics :			2.60		
			Total Concentration:			2.60		



QC SUMMARY

Surrogate Summary

SDG No.: Q2231

Client: PARSONS Engineering of New York, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q2231-01	MW-10D-20250604	1,2-Dichloroethane-d4	50	50.4	101	74	125
		Dibromofluoromethane	50	50.4	101	75	124
		Toluene-d8	50	52.8	106	86	113
		4-Bromofluorobenzene	50	50.3	101	77	121
Q2231-02	MW-14-20250604	1,2-Dichloroethane-d4	50	52.0	104	74	125
		Dibromofluoromethane	50	50.5	101	75	124
		Toluene-d8	50	52.7	105	86	113
		4-Bromofluorobenzene	50	51.2	102	77	121
Q2231-03	MW-15-20250604	1,2-Dichloroethane-d4	50	44.9	90	74	125
		Dibromofluoromethane	50	48.6	97	75	124
		Toluene-d8	50	50.4	101	86	113
		4-Bromofluorobenzene	50	48.6	97	77	121
Q2231-04	MW-16D-20250604	1,2-Dichloroethane-d4	50	46.3	93	74	125
		Dibromofluoromethane	50	49.2	98	75	124
		Toluene-d8	50	51.5	103	86	113
		4-Bromofluorobenzene	50	49.8	100	77	121
Q2231-05	MW-17-20250604	1,2-Dichloroethane-d4	50	48.1	96	74	125
		Dibromofluoromethane	50	50.0	100	75	124
		Toluene-d8	50	51.3	103	86	113
		4-Bromofluorobenzene	50	49.7	99	77	121
Q2231-06	TB-20250604	1,2-Dichloroethane-d4	50	48.8	98	74	125
		Dibromofluoromethane	50	49.7	99	75	124
		Toluene-d8	50	52.2	104	86	113
		4-Bromofluorobenzene	50	49.7	99	77	121
VN0611WBL01	VN0611WBL01	1,2-Dichloroethane-d4	50	48.3	97	74	125
		Dibromofluoromethane	50	49.3	99	75	124
		Toluene-d8	50	51.7	103	86	113
		4-Bromofluorobenzene	50	49.4	99	77	121
VN0611WBS02	VN0611WBS02	1,2-Dichloroethane-d4	50	47.1	94	74	125
		Dibromofluoromethane	50	51.1	102	75	124
		Toluene-d8	50	48.7	97	86	113
		4-Bromofluorobenzene	50	50.0	100	77	121
VN0611WBSD0	VN0611WBSD02	1,2-Dichloroethane-d4	50	47.9	96	74	125
		Dibromofluoromethane	50	52.3	105	75	124
		Toluene-d8	50	49.5	99	86	113
		4-Bromofluorobenzene	50	50.1	100	77	121

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2231

Client: PARSONS Engineering of New York, Inc.

Analytical Method: SW8260-Low

Datafile : VN086944.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0611WBS02	Dichlorodifluoromethane	20	19.7	ug/L	99			69	116	
	Chloromethane	20	16.1	ug/L	81			65	116	
	Vinyl chloride	20	18.9	ug/L	95			65	117	
	Bromomethane	20	16.6	ug/L	83			58	125	
	Chloroethane	20	19.4	ug/L	97			56	128	
	Trichlorofluoromethane	20	19.2	ug/L	96			73	115	
	1,1,2-Trichlorotrifluoroethane	20	19.6	ug/L	98			80	112	
	1,1-Dichloroethene	20	19.2	ug/L	96			74	110	
	Acetone	100	99.0	ug/L	99			60	125	
	Carbon disulfide	20	17.8	ug/L	89			64	112	
	Methyl tert-butyl Ether	20	19.6	ug/L	98			78	114	
	Methyl Acetate	20	19.0	ug/L	95			67	125	
	Methylene Chloride	20	19.0	ug/L	95			72	114	
	trans-1,2-Dichloroethene	20	18.5	ug/L	93			75	108	
	1,1-Dichloroethane	20	19.4	ug/L	97			78	112	
	Cyclohexane	20	17.6	ug/L	88			75	110	
	2-Butanone	100	90.4	ug/L	90			65	122	
	Carbon Tetrachloride	20	19.2	ug/L	96			77	113	
	cis-1,2-Dichloroethene	20	19.5	ug/L	98			77	110	
	Bromochloromethane	20	19.9	ug/L	100			70	124	
	Chloroform	20	19.5	ug/L	98			79	113	
	1,1,1-Trichloroethane	20	19.0	ug/L	95			80	108	
	Methylcyclohexane	20	16.9	ug/L	85			72	115	
	Benzene	20	19.3	ug/L	97			82	109	
	1,2-Dichloroethane	20	19.5	ug/L	98			80	115	
	Trichloroethene	20	19.9	ug/L	100			77	113	
	1,2-Dichloropropane	20	19.6	ug/L	98			83	111	
	Bromodichloromethane	20	19.6	ug/L	98			83	110	
	4-Methyl-2-Pentanone	100	98.0	ug/L	98			74	118	
	Toluene	20	19.5	ug/L	98			82	110	
	t-1,3-Dichloropropene	20	19.9	ug/L	100			79	110	
	cis-1,3-Dichloropropene	20	20.1	ug/L	101			82	110	
	1,1,2-Trichloroethane	20	20.4	ug/L	102			83	112	
	2-Hexanone	100	89.2	ug/L	89			73	117	
	Dibromochloromethane	20	20.5	ug/L	103			82	110	
	1,2-Dibromoethane	20	19.7	ug/L	99			81	110	
	Tetrachloroethene	20	19.2	ug/L	96			67	123	
	Chlorobenzene	20	20.0	ug/L	100			82	109	
	Ethyl Benzene	20	19.6	ug/L	98			83	109	
	m/p-Xylenes	40	39.6	ug/L	99			82	110	
	o-Xylene	20	20.2	ug/L	101			83	109	
	Styrene	20	20.1	ug/L	101			80	111	
	Bromoform	20	21.0	ug/L	105			79	109	
	Isopropylbenzene	20	19.3	ug/L	97			83	112	
	1,1,2,2-Tetrachloroethane	20	21.0	ug/L	105			76	118	
	1,3-Dichlorobenzene	20	20.3	ug/L	102			82	108	
	1,4-Dichlorobenzene	20	20.4	ug/L	102			82	107	
	1,2-Dichlorobenzene	20	20.0	ug/L	100			82	109	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2231

Client: PARSONS Engineering of New York, Inc.

Analytical Method: SW8260-Low

Datafile : VN086944.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VN0611WBS02	1,2-Dibromo-3-Chloropropane	20	19.2	ug/L	96			68	112	
	1,2,4-Trichlorobenzene	20	18.4	ug/L	92			75	113	
	1,2,3-Trichlorobenzene	20	17.8	ug/L	89			76	114	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2231

Client: PARSONS Engineering of New York, Inc.

Analytical Method: SW8260-Low

Datafile : VN086945.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0611WBSD02	Dichlorodifluoromethane	20	19.1	ug/L	96	3		69	116	19
	Chloromethane	20	15.5	ug/L	78	4		65	116	21
	Vinyl chloride	20	18.7	ug/L	94	1		65	117	19
	Bromomethane	20	16.2	ug/L	81	2		58	125	20
	Chloroethane	20	18.9	ug/L	95	2		56	128	20
	Trichlorofluoromethane	20	19.0	ug/L	95	1		73	115	16
	1,1,2-Trichlorotrifluoroethane	20	18.7	ug/L	94	4		80	112	15
	1,1-Dichloroethene	20	19.1	ug/L	96	0		74	110	20
	Acetone	100	92.4	ug/L	92	7		60	125	20
	Carbon disulfide	20	17.2	ug/L	86	3		64	112	20
	Methyl tert-butyl Ether	20	20.2	ug/L	101	3		78	114	20
	Methyl Acetate	20	20.1	ug/L	101	6		67	125	20
	Methylene Chloride	20	19.1	ug/L	96	1		72	114	20
	trans-1,2-Dichloroethene	20	18.6	ug/L	93	0		75	108	16
	1,1-Dichloroethane	20	19.3	ug/L	97	0		78	112	20
	Cyclohexane	20	17.2	ug/L	86	2		75	110	20
	2-Butanone	100	94.9	ug/L	95	5		65	122	26
	Carbon Tetrachloride	20	19.5	ug/L	98	2		77	113	15
	cis-1,2-Dichloroethene	20	19.6	ug/L	98	0		77	110	20
	Bromochloromethane	20	21.1	ug/L	106	6		70	124	20
	Chloroform	20	19.4	ug/L	97	1		79	113	20
	1,1,1-Trichloroethane	20	18.8	ug/L	94	1		80	108	20
	Methylcyclohexane	20	16.6	ug/L	83	2		72	115	20
	Benzene	20	19.7	ug/L	99	2		82	109	15
	1,2-Dichloroethane	20	20.3	ug/L	102	4		80	115	20
	Trichloroethene	20	20.1	ug/L	101	1		77	113	15
	1,2-Dichloropropane	20	20.0	ug/L	100	2		83	111	16
	Bromodichloromethane	20	20.7	ug/L	104	6		83	110	16
	4-Methyl-2-Pentanone	100	100	ug/L	100	2		74	118	25
	Toluene	20	19.9	ug/L	100	2		82	110	16
	t-1,3-Dichloropropene	20	20.7	ug/L	104	4		79	110	20
	cis-1,3-Dichloropropene	20	20.7	ug/L	104	3		82	110	16
	1,1,2-Trichloroethane	20	20.9	ug/L	104	2		83	112	20
	2-Hexanone	100	93.8	ug/L	94	5		73	117	25
	Dibromochloromethane	20	21.2	ug/L	106	3		82	110	20
	1,2-Dibromoethane	20	20.7	ug/L	104	5		81	110	20
	Tetrachloroethene	20	18.5	ug/L	93	3		67	123	15
	Chlorobenzene	20	20.2	ug/L	101	1		82	109	15
	Ethyl Benzene	20	19.3	ug/L	97	1		83	109	16
	m/p-Xylenes	40	39.5	ug/L	99	0		82	110	15
	o-Xylene	20	20.0	ug/L	100	1		83	109	20
	Styrene	20	20.6	ug/L	103	2		80	111	17
	Bromoform	20	22.4	ug/L	112	6	*	79	109	20
	Isopropylbenzene	20	19.3	ug/L	97	0		83	112	29
	1,1,2,2-Tetrachloroethane	20	21.7	ug/L	109	4		76	118	20
	1,3-Dichlorobenzene	20	20.5	ug/L	103	1		82	108	20
	1,4-Dichlorobenzene	20	20.4	ug/L	102	0		82	107	15
	1,2-Dichlorobenzene	20	20.6	ug/L	103	3		82	109	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2231

Client: PARSONS Engineering of New York, Inc.

Analytical Method: SW8260-Low

Datafile : VN086945.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0611WBSD02	1,2-Dibromo-3-Chloropropane	20	20.8	ug/L	104	8		68	112	20
	1,2,4-Trichlorobenzene	20	18.7	ug/L	94	2		75	113	29
	1,2,3-Trichlorobenzene	20	18.1	ug/L	91	2		76	114	29

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0611WBL01

Lab Name: CHEMTECH

Contract: PARS02

Lab Code: CHEM Case No.: Q2231

SAS No.: Q2231 SDG NO.: Q2231

Lab File ID: VN086942.D

Lab Sample ID: VN0611WBL01

Date Analyzed: 06/11/2025

Time Analyzed: 12:28

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0611WBS02	VN0611WBS02	VN086944.D	06/11/2025
VN0611WBSD02	VN0611WBSD02	VN086945.D	06/11/2025
MW-10D-20250604	Q2231-01	VN086953.D	06/11/2025
MW-14-20250604	Q2231-02	VN086954.D	06/11/2025
MW-15-20250604	Q2231-03	VN086955.D	06/11/2025
MW-16D-20250604	Q2231-04	VN086956.D	06/11/2025
MW-17-20250604	Q2231-05	VN086957.D	06/11/2025
TB-20250604	Q2231-06	VN086958.D	06/11/2025

COMMENTS: _____



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PARS02
Lab Code: CHEM Case No.: Q2231 SAS No.: Q2231 SDG NO.: Q2231
Lab File ID: VN086861.D BFB Injection Date: 06/06/2025
Instrument ID: MSVOA_N BFB Injection Time: 07:59
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.3
75	30.0 - 60.0% of mass 95	48.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	66.6
175	5.0 - 9.0% of mass 174	4.7 (7.1) 1
176	95.0 - 101.0% of mass 174	65.3 (98.1) 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	VN086862.D	06/06/2025	12:44
VSTDIC005	VSTDIC005	VN086863.D	06/06/2025	13:17
VSTDIC020	VSTDIC020	VN086864.D	06/06/2025	13:40
VSTDIC050	VSTDIC050	VN086865.D	06/06/2025	14:03
VSTDIC100	VSTDIC100	VN086866.D	06/06/2025	14:26
VSTDIC150	VSTDIC150	VN086867.D	06/06/2025	14:49



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PARS02
Lab Code: CHEM Case No.: Q2231 SAS No.: Q2231 SDG NO.: Q2231
Lab File ID: VN086939.D BFB Injection Date: 06/11/2025
Instrument ID: MSVOA_N BFB Injection Time: 10:22
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.7
75	30.0 - 60.0% of mass 95	46.5
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	0.7 (1) 1
174	50.0 - 100.0% of mass 95	71.1
175	5.0 - 9.0% of mass 174	5.4 (7.5) 1
176	95.0 - 101.0% of mass 174	68.8 (96.8) 1
177	5.0 - 9.0% of mass 176	4.8 (7) 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	VN086940.D	06/11/2025	11:32
VN0611WBL01	VN0611WBL01	VN086942.D	06/11/2025	12:28
VN0611WBS02	VN0611WBS02	VN086944.D	06/11/2025	13:27
VN0611WBSD02	VN0611WBSD02	VN086945.D	06/11/2025	14:01
MW-10D-20250604	Q2231-01	VN086953.D	06/11/2025	16:57
MW-14-20250604	Q2231-02	VN086954.D	06/11/2025	17:19
MW-15-20250604	Q2231-03	VN086955.D	06/11/2025	17:41
MW-16D-20250604	Q2231-04	VN086956.D	06/11/2025	18:04
MW-17-20250604	Q2231-05	VN086957.D	06/11/2025	18:26
TB-20250604	Q2231-06	VN086958.D	06/11/2025	18:48

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PARS02
Lab Code: CHEM Case No.: Q2231 SAS No.: Q2231 SDG NO.: Q2231
Lab File ID: VN086940.D Date Analyzed: 06/11/2025
Instrument ID: MSVOA_N Time Analyzed: 11:32
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	205098	8.23	357643	9.11	312173	11.87
UPPER LIMIT	410196	8.73	715286	9.606	624346	12.365
LOWER LIMIT	102549	7.73	178822	8.606	156087	11.365
EPA SAMPLE NO.						
MW-10D-20250604	314124	8.24	594896	9.11	533609	11.87
MW-14-20250604	206605	8.23	392074	9.11	351871	11.87
MW-15-20250604	256900	8.24	474084	9.11	406220	11.87
MW-16D-20250604	369027	8.24	692660	9.11	610187	11.87
MW-17-20250604	224021	8.24	418211	9.11	365651	11.87
TB-20250604	325113	8.24	613273	9.11	544198	11.87
VN0611WBL01	328120	8.23	618651	9.11	543433	11.87
VN0611WBS02	206799	8.24	370524	9.11	321188	11.87
VN0611WBSD02	199904	8.23	354069	9.11	310598	11.87

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: PARS02
 Lab Code: CHEM Case No.: Q2231 SAS No.: Q2231 SDG NO.: Q2231
 Lab File ID: VN086940.D Date Analyzed: 06/11/2025
 Instrument ID: MSVOA_N Time Analyzed: 11:32
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	152136	13.788				
UPPER LIMIT	304272	14.288				
LOWER LIMIT	76068	13.288				
EPA SAMPLE NO.						
MW-10D-20250604	254824	13.79				
MW-14-20250604	159705	13.79				
MW-15-20250604	209580	13.79				
MW-16D-20250604	297804	13.79				
MW-17-20250604	178134	13.79				
TB-20250604	259241	13.79				
VN0611WBL01	257257	13.79				
VN0611WBS02	157403	13.79				
VN0611WBSD02	151691	13.79				

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:	PARSONS Engineering of New York, Inc.		Date Collected:	06/04/25	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	06/04/25	
Client Sample ID:	MW-10D-20250604		SDG No.:	Q2231	
Lab Sample ID:	Q2231-01		Matrix:	Water	
Analytical Method:	8260D		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086953.D	1		06/11/25 16:57	VN061125

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	1.70	J	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	5.00		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	0.32	J	0.14	1.00	ug/L

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.			Date Collected:	06/04/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05			Date Received:	06/04/25
Client Sample ID:	MW-10D-20250604			SDG No.:	Q2231
Lab Sample ID:	Q2231-01			Matrix:	Water
Analytical Method:	8260D			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086953.D	1		06/11/25 16:57	VN061125

[illegible]

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.		Date Collected:	06/04/25	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	06/04/25	
Client Sample ID:	MW-10D-20250604		SDG No.:	Q2231	
Lab Sample ID:	Q2231-01		Matrix:	Water	
Analytical Method:	8260D		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086953.D	1		06/11/25 16:57	VN061125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
103-65-1	n-propylbenzene	0.25	J		13.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.43	J		13.2	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.60	J		13.5	ug/L
91-20-3	Naphthalene	0.33	J		15.6	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_N\Data\VN061125\
 Data File : VN086953.D
 Acq On : 11 Jun 2025 16:57
 Operator : JC\MD
 Sample : Q2231-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-10D-20250604

Quant Time: Jun 12 01:36:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

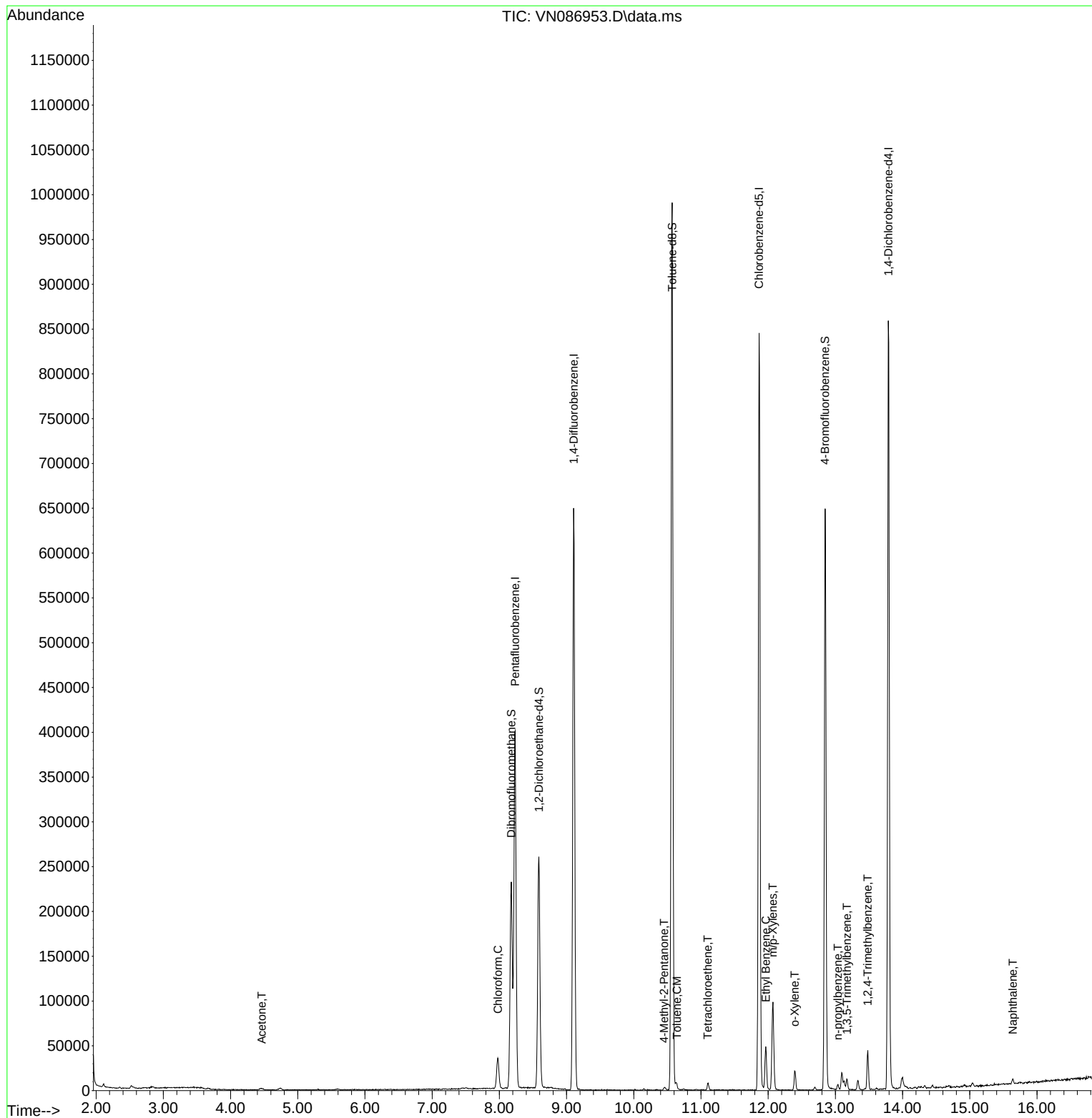
Internal Standards						
1) Pentafluorobenzene	8.235	168	314124	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	594896	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	533609	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	254824	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	212002	50.407	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.820%			
35) Dibromofluoromethane	8.177	113	177756	50.420	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.840%			
50) Toluene-d8	10.571	98	736237	52.752	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.500%			
62) 4-Bromofluorobenzene	12.847	95	260994	50.334	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.660%			
Target Compounds						Qvalue
16) Acetone	4.465	43	3728	1.671	ug/l	93
30) Chloroform	7.977	83	35165	5.006	ug/l	97
51) 4-Methyl-2-Pentanone	10.453	43	2559	0.396	ug/l	98
52) Toluene	10.641	92	3302	0.315	ug/l	99
64) Tetrachloroethene	11.100	164	1864	0.552	ug/l #	75
67) Ethyl Benzene	11.965	91	38747	1.911	ug/l	98
68) m/p-Xylenes	12.070	106	35558	4.582	ug/l	99
69) o-Xylene	12.394	106	6869	0.924	ug/l	94
78) n-propylbenzene	13.035	91	5595	0.248	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	6564	0.428	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	25253	1.643	ug/l	98
95) Naphthalene	15.641	128	6226	0.325	ug/l	100

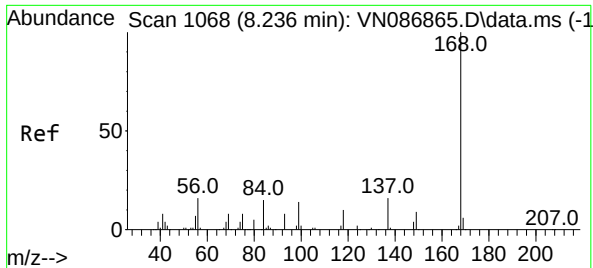
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086953.D
Acq On : 11 Jun 2025 16:57
Operator : JC\MD
Sample : Q2231-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-10D-20250604

Quant Time: Jun 12 01:36:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

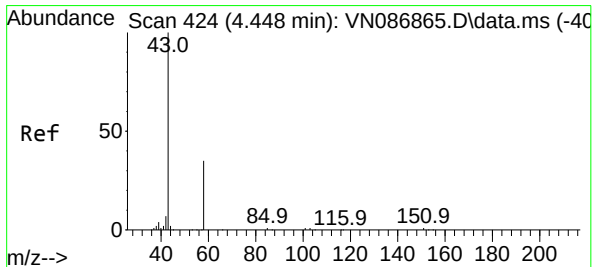
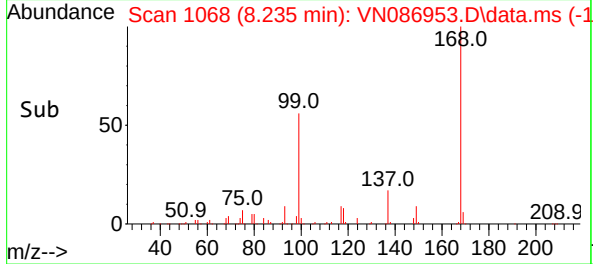
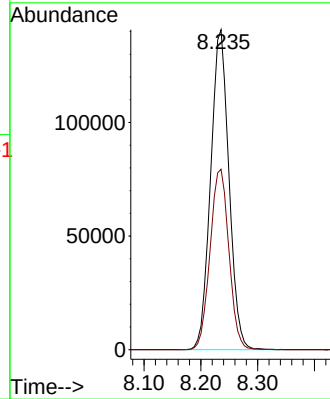
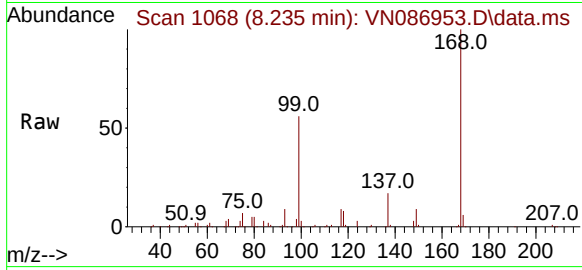




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.001 min
Lab File: VN086953.D
Acq: 11 Jun 2025 16:57

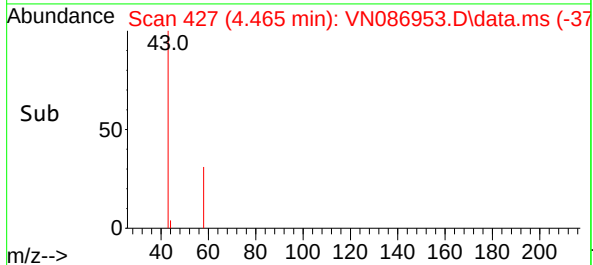
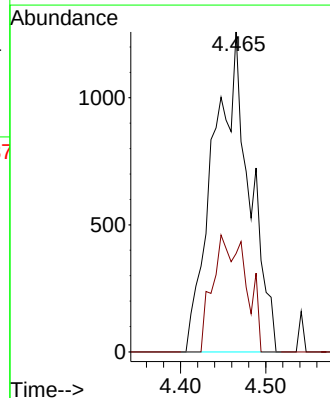
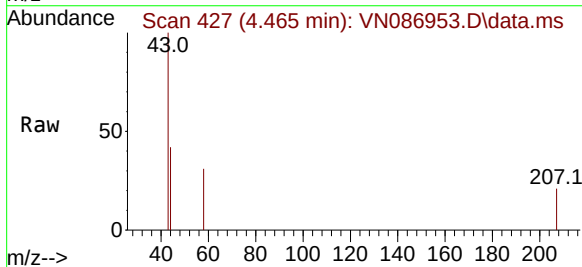
Instrument :
MSVOA_N
ClientSampleId :
MW-10D-20250604

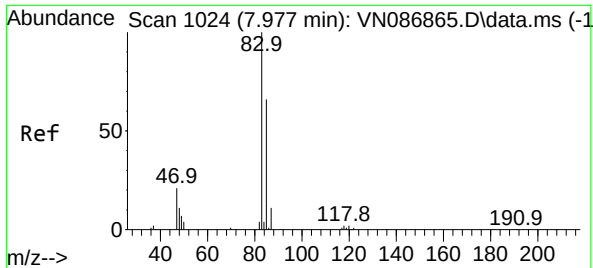
Tgt Ion:168 Resp: 314124
Ion Ratio Lower Upper
168 100
99 56.4 49.1 73.7



#16
Acetone
Concen: 1.671 ug/l
RT: 4.465 min Scan# 427
Delta R.T. 0.017 min
Lab File: VN086953.D
Acq: 11 Jun 2025 16:57

Tgt Ion: 43 Resp: 3728
Ion Ratio Lower Upper
43 100
58 30.7 28.0 42.0





#30

Chloroform

Concen: 5.006 ug/l

RT: 7.977 min Scan# 1024

Delta R.T. -0.000 min

Lab File: VN086953.D

Acq: 11 Jun 2025 16:57

Instrument :

MSVOA_N

ClientSampleId :

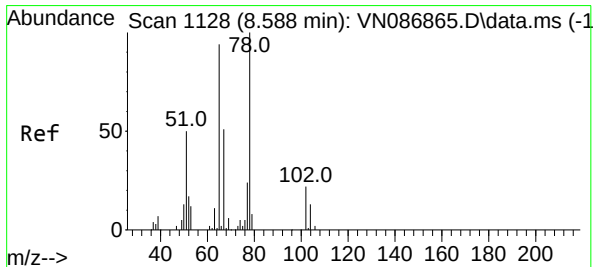
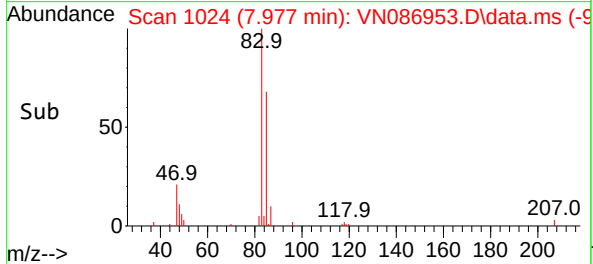
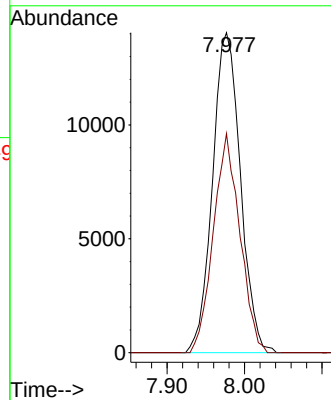
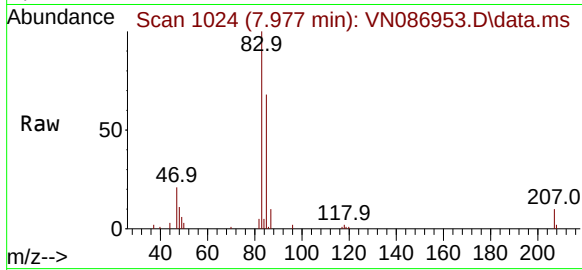
MW-10D-20250604

Tgt Ion: 83 Resp: 35165

Ion Ratio Lower Upper

83 100

85 68.5 52.9 79.3



#33

1,2-Dichloroethane-d4

Concen: 50.407 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN086953.D

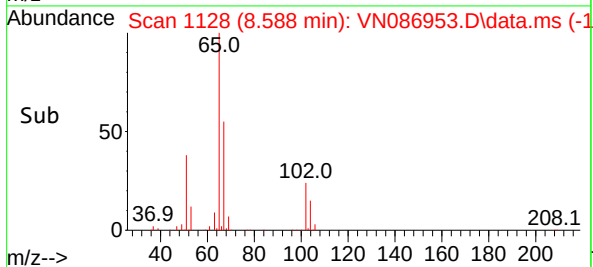
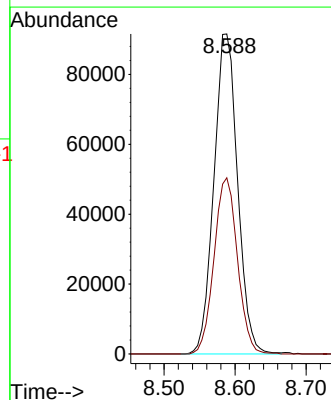
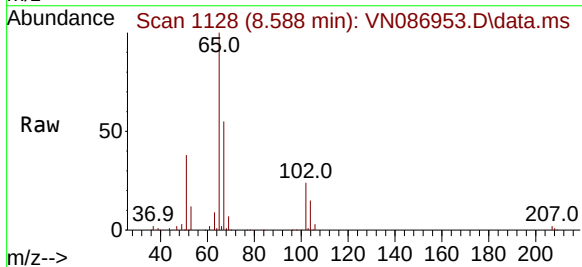
Acq: 11 Jun 2025 16:57

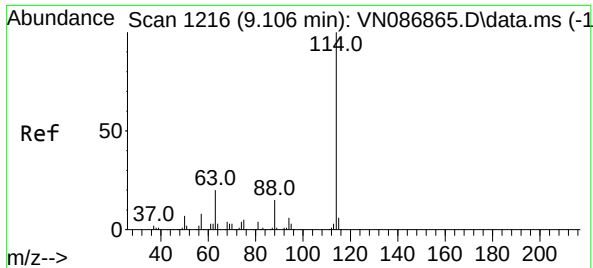
Tgt Ion: 65 Resp: 212002

Ion Ratio Lower Upper

65 100

67 54.4 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086953.D

Acq: 11 Jun 2025 16:57

Instrument :

MSVOA_N

ClientSampleId :

MW-10D-20250604

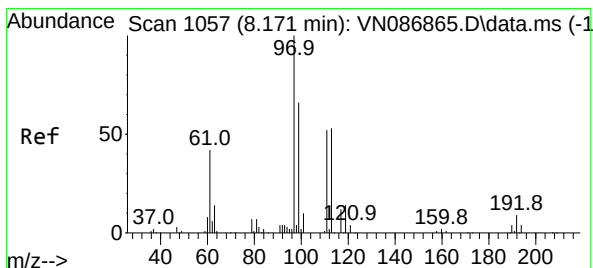
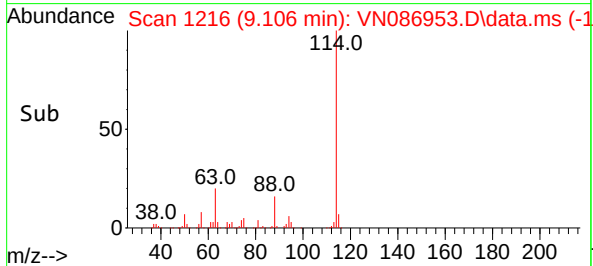
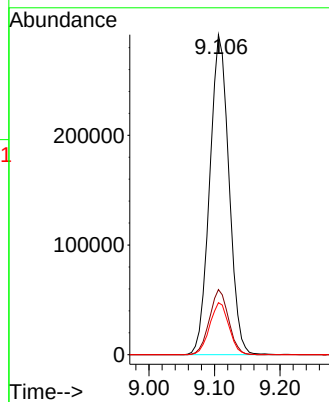
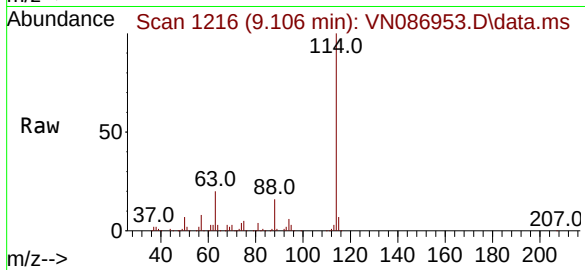
Tgt Ion:114 Resp: 594896

Ion Ratio Lower Upper

114 100

63 20.3 0.0 39.6

88 16.3 0.0 30.2



#35

Dibromofluoromethane

Concen: 50.420 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN086953.D

Acq: 11 Jun 2025 16:57

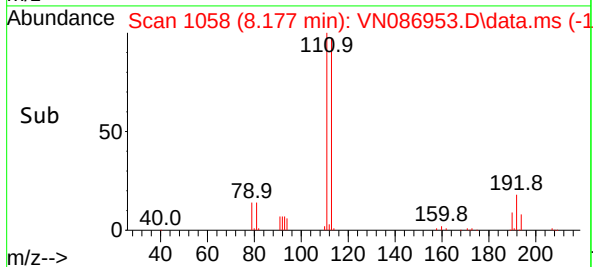
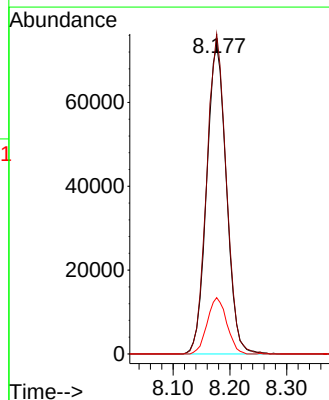
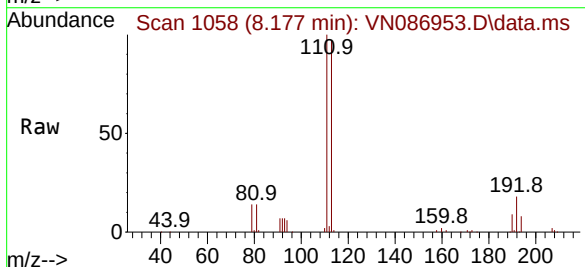
Tgt Ion:113 Resp: 177756

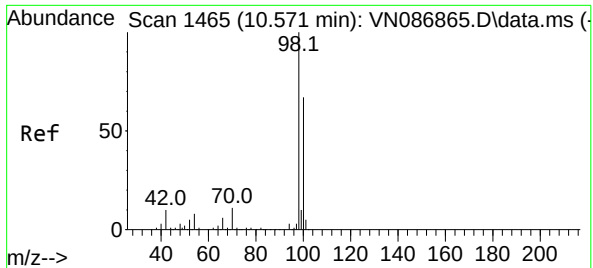
Ion Ratio Lower Upper

113 100

111 102.4 84.2 126.2

192 18.0 14.2 21.4





#50

Toluene-d8

Concen: 52.752 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN086953.D

Acq: 11 Jun 2025 16:57

Instrument :

MSVOA_N

ClientSampleId :

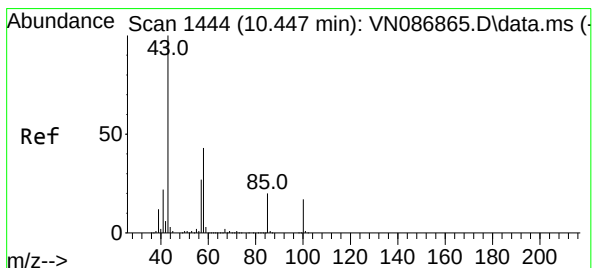
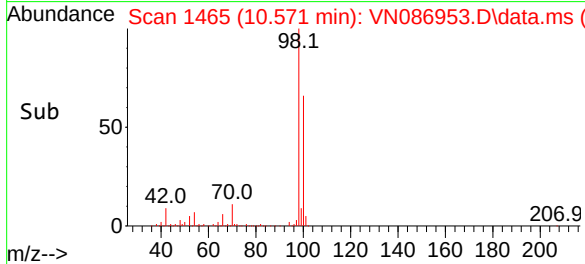
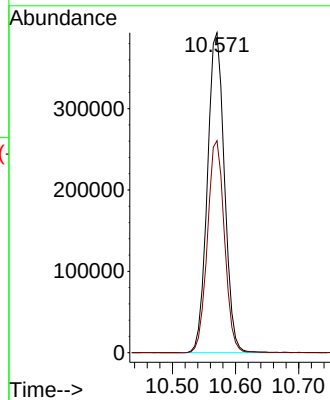
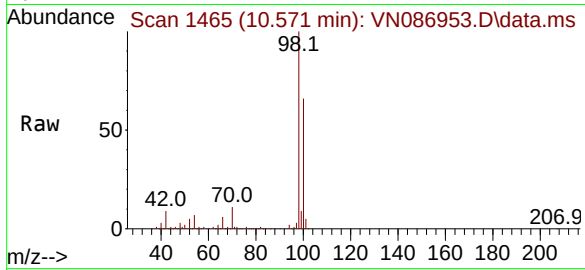
MW-10D-20250604

Tgt Ion: 98 Resp: 736237

Ion Ratio Lower Upper

98 100

100 66.2 53.4 80.0



#51

4-Methyl-2-Pentanone

Concen: 0.396 ug/l

RT: 10.453 min Scan# 1445

Delta R.T. 0.006 min

Lab File: VN086953.D

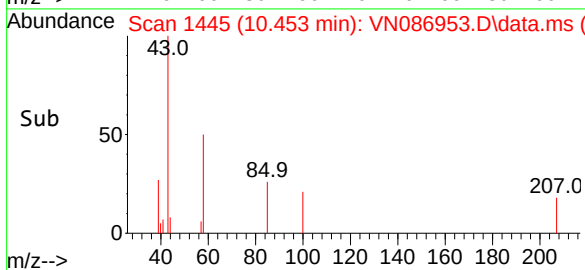
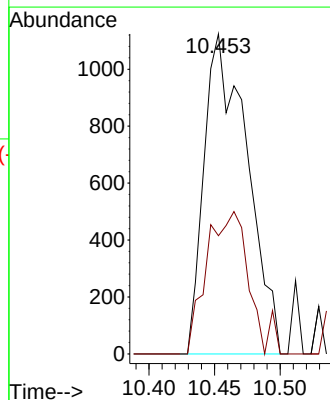
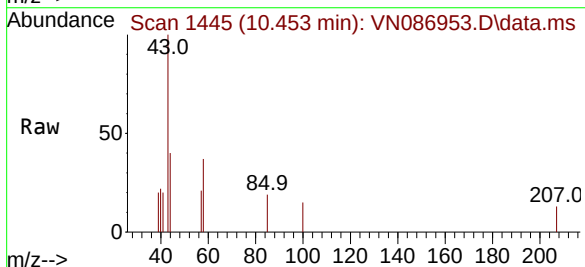
Acq: 11 Jun 2025 16:57

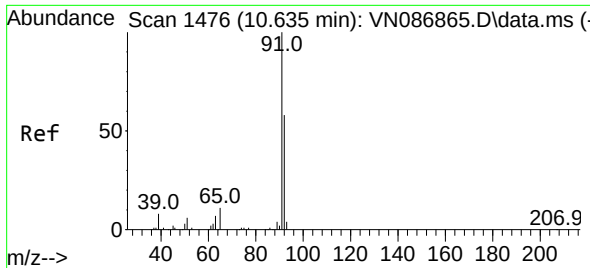
Tgt Ion: 43 Resp: 2559

Ion Ratio Lower Upper

43 100

58 44.0 34.2 51.4

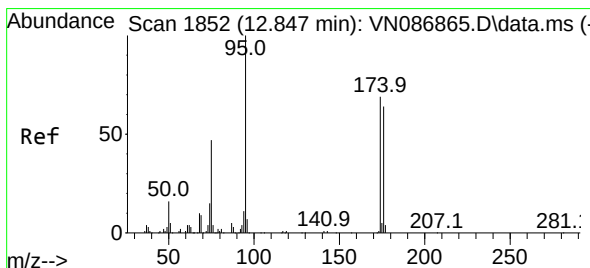
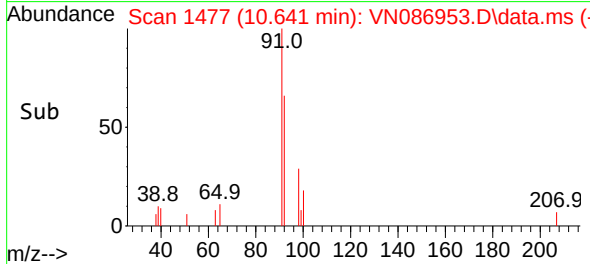
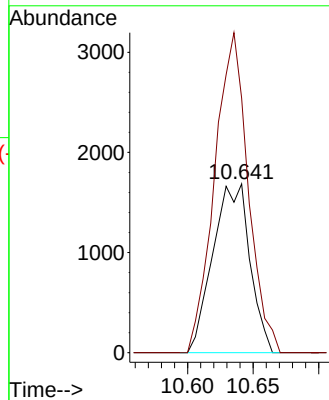
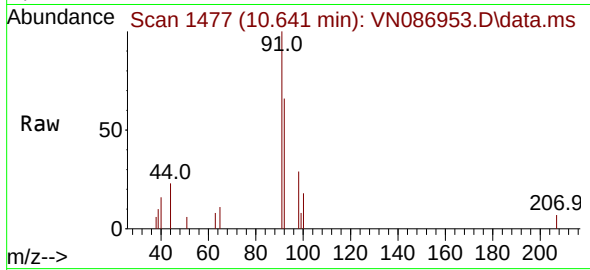




#52
Toluene
Concen: 0.315 ug/l
RT: 10.641 min Scan# 1476
Delta R.T. 0.006 min
Lab File: VN086953.D
Acq: 11 Jun 2025 16:57

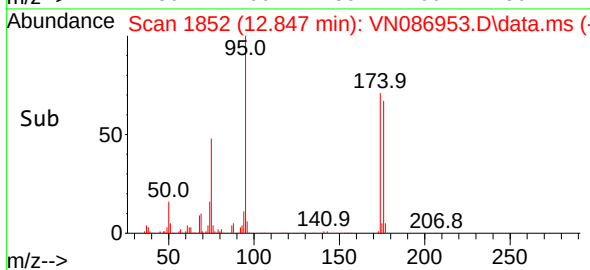
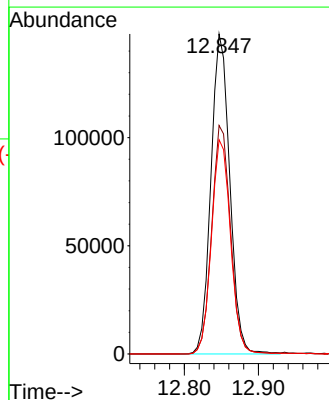
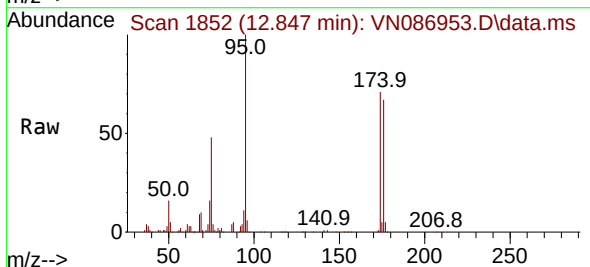
Instrument :
MSVOA_N
ClientSampleId :
MW-10D-20250604

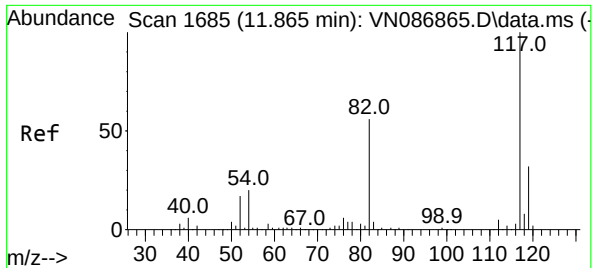
Tgt Ion: 92 Resp: 3302
Ion Ratio Lower Upper
92 100
91 171.7 136.5 204.7



#62
4-Bromofluorobenzene
Concen: 50.334 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086953.D
Acq: 11 Jun 2025 16:57

Tgt Ion: 95 Resp: 260994
Ion Ratio Lower Upper
95 100
174 71.5 0.0 141.8
176 67.9 0.0 132.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086953.D

Acq: 11 Jun 2025 16:57

Instrument :

MSVOA_N

ClientSampleId :

MW-10D-20250604

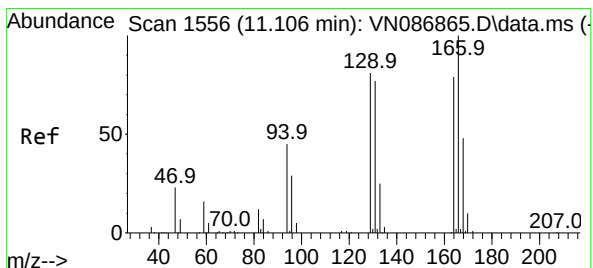
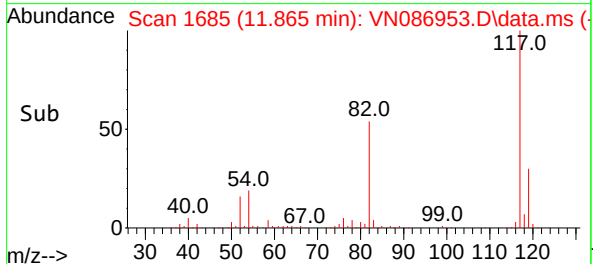
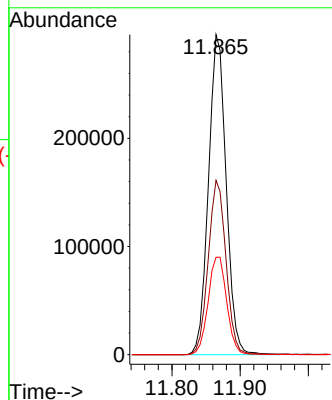
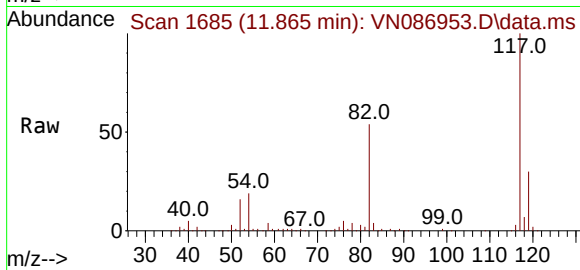
Tgt Ion:117 Resp: 533609

Ion Ratio Lower Upper

117 100

82 54.4 44.6 67.0

119 30.5 25.5 38.3



#64

Tetrachloroethene

Concen: 0.552 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.006 min

Lab File: VN086953.D

Acq: 11 Jun 2025 16:57

Tgt Ion:164 Resp: 1864

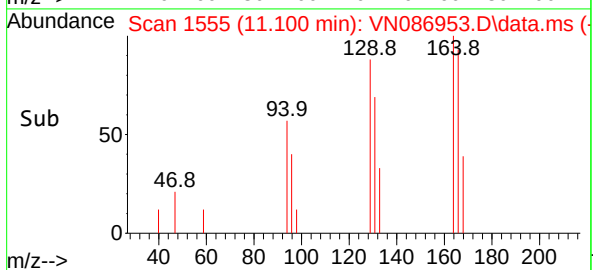
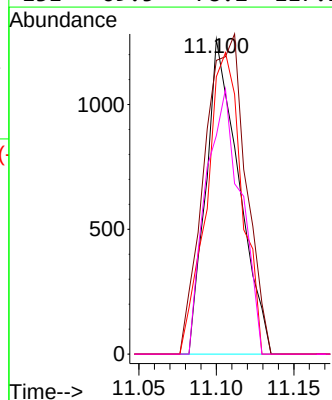
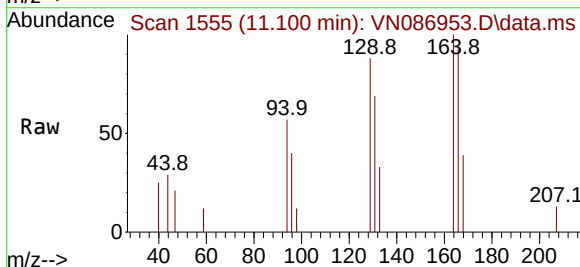
Ion Ratio Lower Upper

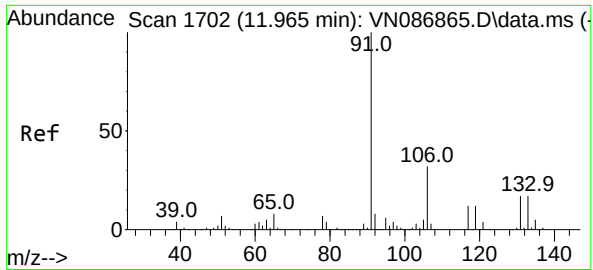
164 100

166 93.3 101.8 152.8#

129 88.2 83.0 124.4

131 69.5 78.2 117.2#





#67

Ethyl Benzene

Concen: 1.911 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. -0.000 min

Lab File: VN086953.D

Acq: 11 Jun 2025 16:57

Instrument :

MSVOA_N

ClientSampleId :

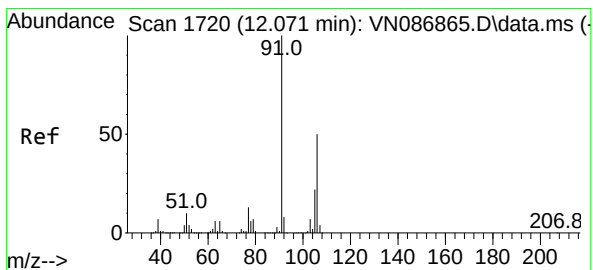
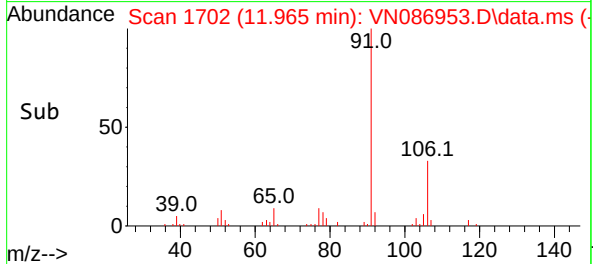
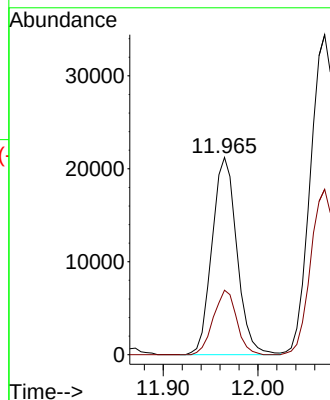
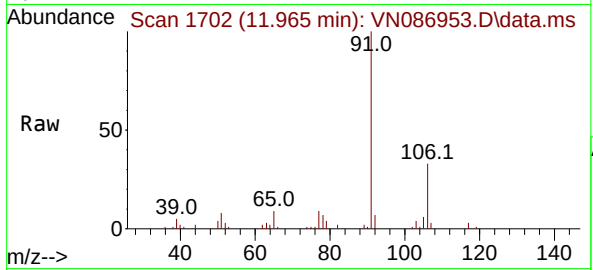
MW-10D-20250604

Tgt Ion: 91 Resp: 38747

Ion Ratio Lower Upper

91 100

106 32.7 25.4 38.2



#68

m/p-Xylenes

Concen: 4.582 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN086953.D

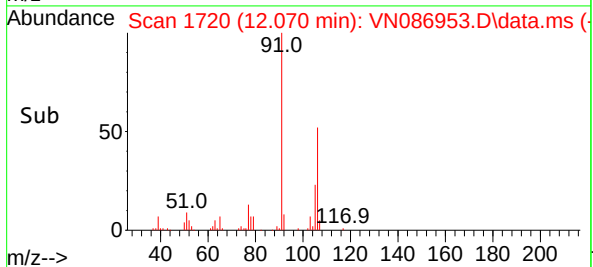
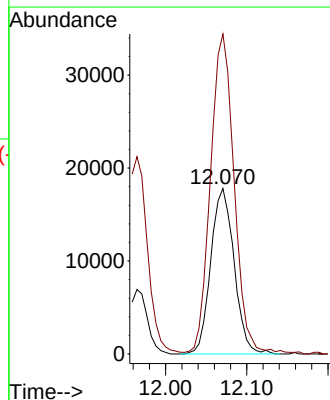
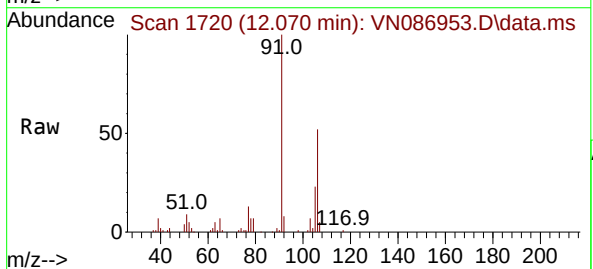
Acq: 11 Jun 2025 16:57

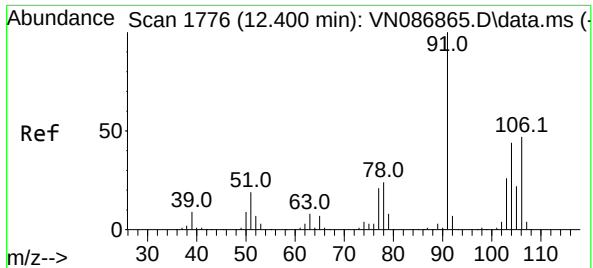
Tgt Ion:106 Resp: 35558

Ion Ratio Lower Upper

106 100

91 197.0 159.4 239.0

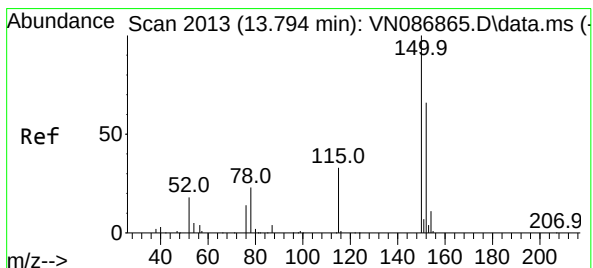
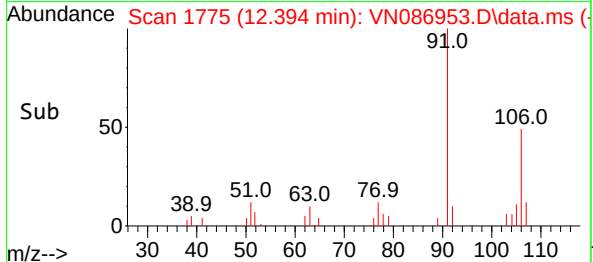
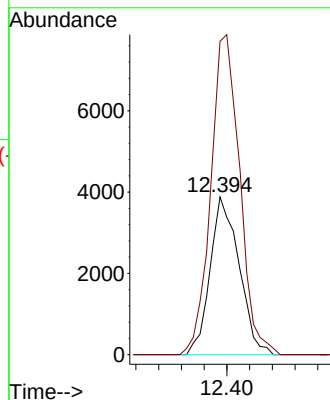
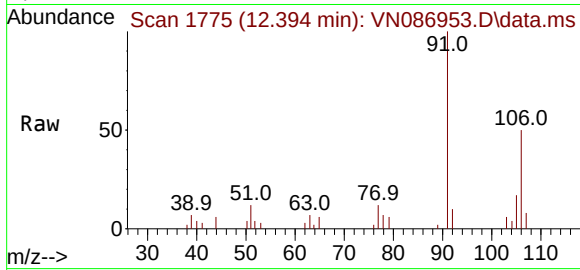




#69
o-Xylene
Concen: 0.924 ug/l
RT: 12.394 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086953.D
Acq: 11 Jun 2025 16:57

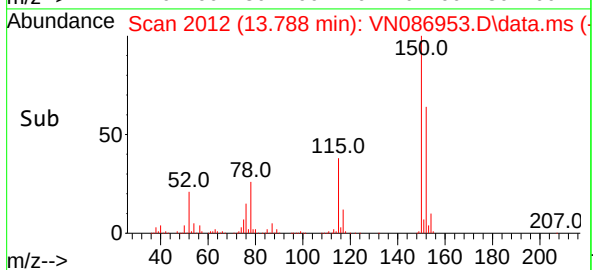
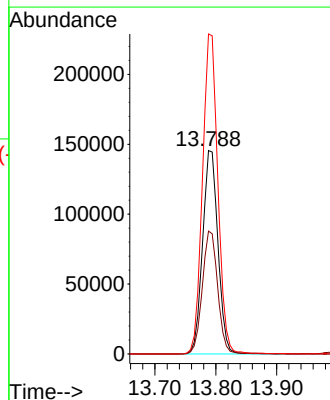
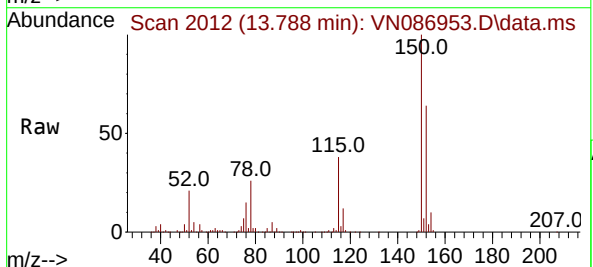
Instrument :
MSVOA_N
ClientSampleId :
MW-10D-20250604

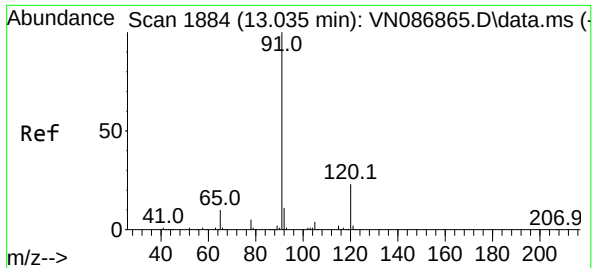
Tgt Ion:106 Resp: 6869
Ion Ratio Lower Upper
106 100
91 203.2 106.1 318.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN086953.D
Acq: 11 Jun 2025 16:57

Tgt Ion:152 Resp: 254824
Ion Ratio Lower Upper
152 100
115 60.4 30.1 90.5
150 157.5 0.0 345.0

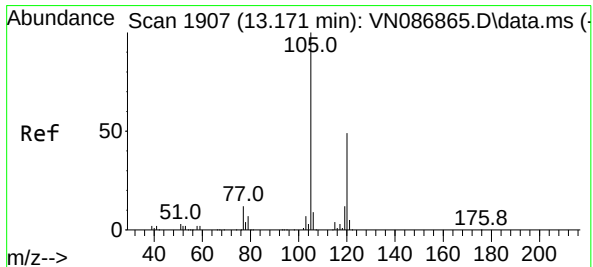
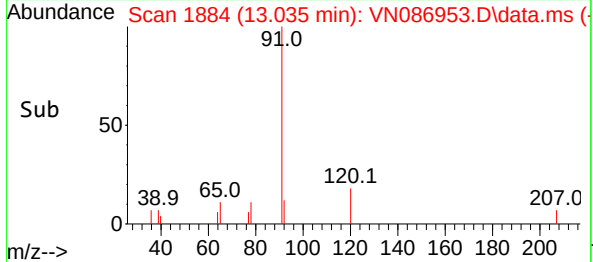
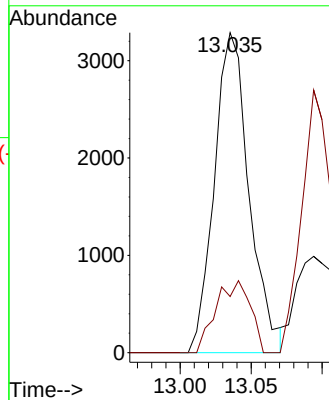
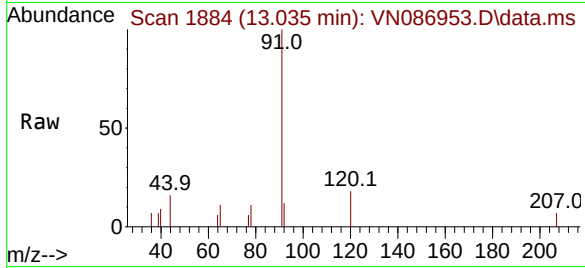




#78
n-propylbenzene
Concen: 0.248 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086953.D
Acq: 11 Jun 2025 16:57

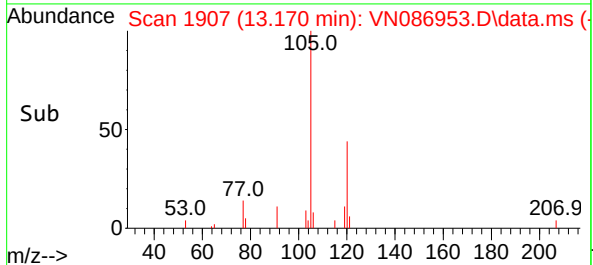
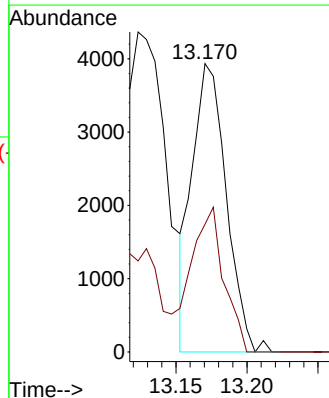
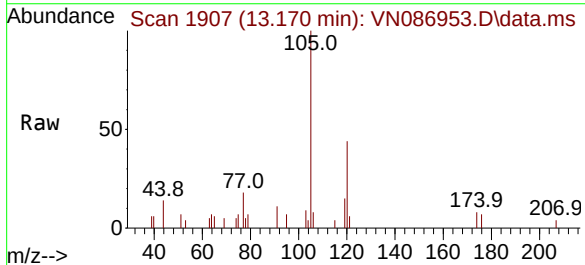
Instrument :
MSVOA_N
ClientSampleId :
MW-10D-20250604

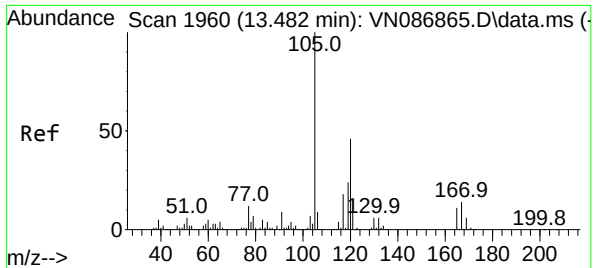
Tgt Ion: 91 Resp: 5595
Ion Ratio Lower Upper
91 100
120 22.2 11.4 34.2



#80
1,3,5-Trimethylbenzene
Concen: 0.428 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086953.D
Acq: 11 Jun 2025 16:57

Tgt Ion: 105 Resp: 6564
Ion Ratio Lower Upper
105 100
120 48.8 24.9 74.6

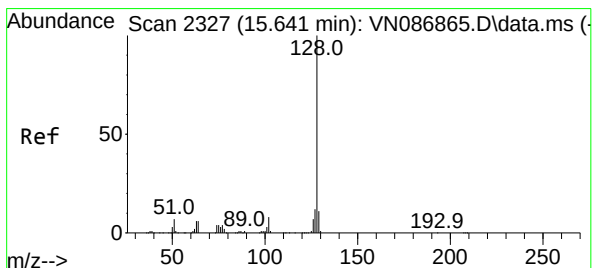
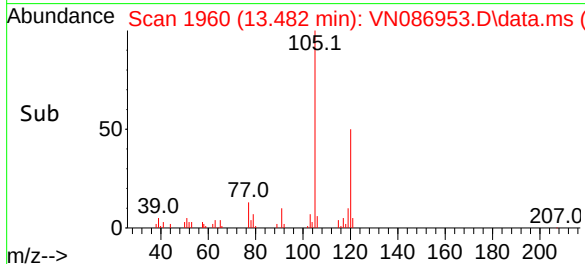
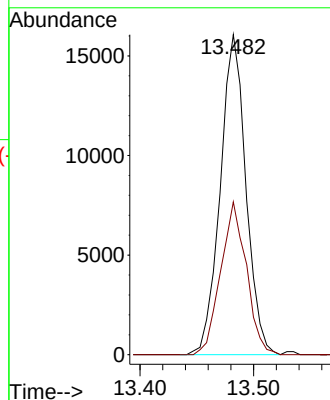
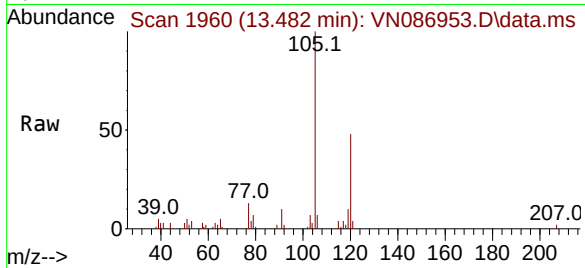




#84
1,2,4-Trimethylbenzene
Concen: 1.643 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN086953.D
Acq: 11 Jun 2025 16:57

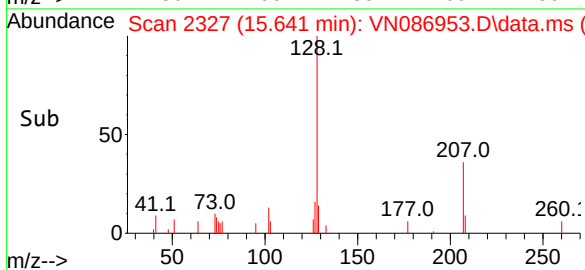
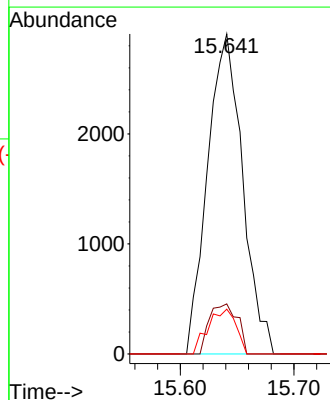
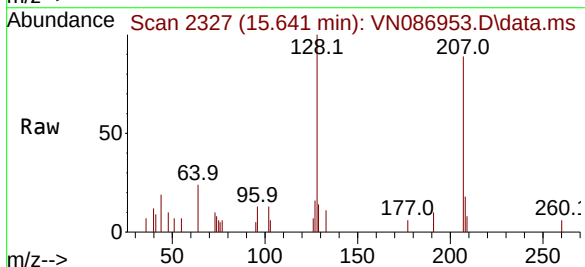
Instrument :
MSVOA_N
ClientSampleId :
MW-10D-20250604

Tgt Ion:105 Resp: 25253
Ion Ratio Lower Upper
105 100
120 47.8 23.2 69.6



#95
Naphthalene
Concen: 0.325 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN086953.D
Acq: 11 Jun 2025 16:57

Tgt Ion:128 Resp: 6226
Ion Ratio Lower Upper
128 100
127 12.6 10.2 15.2
129 11.2 8.8 13.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
 Data File : VN086953.D
 Acq On : 11 Jun 2025 16:57
 Operator : JC\MD
 Sample : Q2231-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-10D-20250604

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_N\methods\82N060625W.M

Title : SW846 8260

Signal : TIC: VN086953.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.977	1014	1024	1037	rVB2	34158	86256	4.63%	0.866%
2	8.177	1047	1058	1062	rBV	230640	543804	29.20%	5.463%
3	8.235	1062	1068	1079	rVB	398270	914253	49.09%	9.184%
4	8.588	1118	1128	1140	rBV	258084	596668	32.04%	5.994%
5	9.106	1206	1216	1227	rBV	649299	1320607	70.90%	13.266%
6	10.571	1456	1465	1473	rBV	990638	1862518	100.00%	18.710%
7	11.865	1677	1685	1696	rBV	845113	1541703	82.78%	15.487%
8	11.965	1696	1702	1712	rVV	48141	87002	4.67%	0.874%
9	12.070	1712	1720	1728	rVV	97711	192985	10.36%	1.939%
10	12.394	1769	1775	1785	rBV	21612	38612	2.07%	0.388%
11	12.847	1845	1852	1865	rBV	648151	1135598	60.97%	11.407%
12	13.094	1889	1894	1898	rBV2	18480	32078	1.72%	0.322%
13	13.482	1954	1960	1967	rVB	43596	67979	3.65%	0.683%
14	13.788	2005	2012	2026	rBV	857901	1507655	80.95%	15.145%
15	14.000	2041	2048	2054	rBV4	11845	27131	1.46%	0.273%

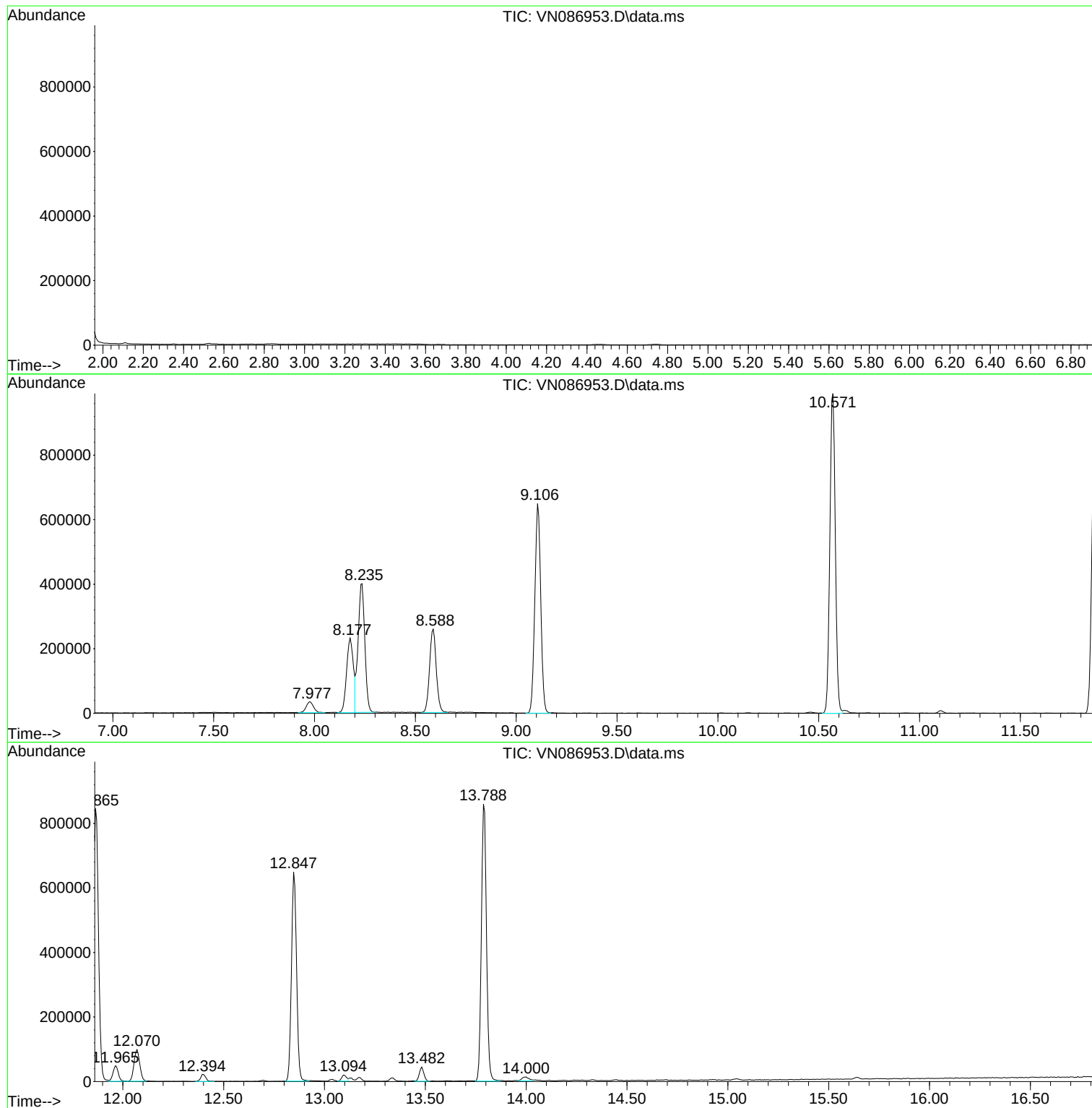
Sum of corrected areas: 9954849

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086953.D
Acq On : 11 Jun 2025 16:57
Operator : JC\MD
Sample : Q2231-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-10D-20250604

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086953.D
Acq On : 11 Jun 2025 16:57
Operator : JC\MD
Sample : Q2231-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-10D-20250604

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.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_N\Data\VN061125\
Data File : VN086953.D
Acq On : 11 Jun 2025 16:57
Operator : JC\MD
Sample : Q2231-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-10D-20250604

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.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:	PARSONS Engineering of New York, Inc.		Date Collected:	06/04/25	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	06/04/25	
Client Sample ID:	MW-14-20250604		SDG No.:	Q2231	
Lab Sample ID:	Q2231-02		Matrix:	Water	
Analytical Method:	8260D		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086954.D	1		06/11/25 17:19	VN061125

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	3.20	J	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	4.30		0.16	1.00	ug/L
71-43-2	Benzene	1.10		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	0.31	J	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	0.73	J	0.14	1.00	ug/L

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	06/04/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/04/25
Client Sample ID:	MW-14-20250604	SDG No.:	Q2231
Lab Sample ID:	Q2231-02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086954.D	1		06/11/25 17:19	VN061125

[illegible]

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	06/04/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/04/25
Client Sample ID:	MW-14-20250604	SDG No.:	Q2231
Lab Sample ID:	Q2231-02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086954.D	1		06/11/25 17:19	VN061125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
103-65-1	n-propylbenzene	84.2	J		13.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	21.4	J		13.2	ug/L
000611-14-3	Benzene, 1-ethyl-2-methyl-	38.0	J		13.3	ug/L
95-63-6	1,2,4-Trimethylbenzene	620	J		13.5	ug/L
99-87-6	p-Isopropyltoluene	16.0	J		13.7	ug/L
000496-11-7	Indane	110	J		14.0	ug/L
104-51-8	n-Butylbenzene	9.60	J		14.1	ug/L
000874-41-9	Benzene, 1-ethyl-2,4-dimethyl-	18.3	J		14.3	ug/L
000767-58-8	Indan, 1-methyl-	45.9	J		14.4	ug/L
000824-22-6	1H-Indene, 2,3-dihydro-4-methyl-	24.0	J		14.9	ug/L
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	29.9	J		15.0	ug/L
015677-15-3	Cycloprop[<i>a</i>]indene, 1,1 <i>a</i> ,6,6 <i>a</i> -tetr	23.3	J		15.1	ug/L
002177-47-1	2-Methylindene	91.7	J		15.2	ug/L
000090-12-0	Naphthalene, 1-methyl-	62.5	J		16.8	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_N\Data\VN061125\
 Data File : VN086954.D
 Acq On : 11 Jun 2025 17:19
 Operator : JC\MD
 Sample : Q2231-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-14-20250604

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/12/2025
 Supervised By : Semsettin Yesilyurt 06/12/2025

Quant Time: Jun 12 01:36:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

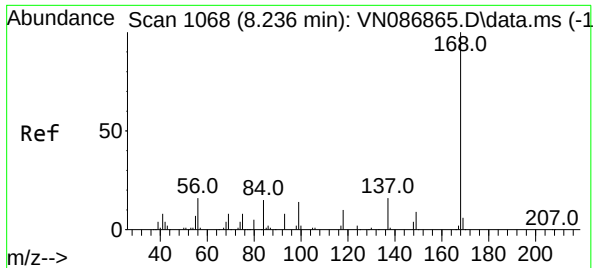
Internal Standards						
1) Pentafluorobenzene	8.230	168	206605	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	392074	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	351871	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	159705	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.589	65	143749	51.966	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.940%			
35) Dibromofluoromethane	8.177	113	117356	50.508	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.020%			
50) Toluene-d8	10.571	98	484662	52.691	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.380%			
62) 4-Bromofluorobenzene	12.847	95	175059	51.226	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.460%			
Target Compounds					Qvalue	
16) Acetone	4.459	43	4761	3.246	ug/l	98
39) Methylcyclohexane	9.606	83	20471	4.316	ug/l	97
40) Benzene	8.612	78	12250	1.082	ug/l	99
44) Trichloroethene	9.359	130	823	0.307	ug/l	65
52) Toluene	10.630	92	5049	0.730	ug/l	94
67) Ethyl Benzene	11.965	91	157745	11.801	ug/l	97
68) m/p-Xylenes	12.071	106	4563	0.892	ug/l	96
69) o-Xylene	12.394	106	12786	2.609	ug/l	86
70) Styrene	12.418	104	6971	0.831	ug/l #	73
73) Isopropylbenzene	12.694	105	1081176	92.927	ug/l	99
78) n-propylbenzene	13.035	91	1190583	84.205	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	205176	21.360	ug/l	96
84) 1,2,4-Trimethylbenzene	13.482	105	5997493	622.641	ug/l	99
86) p-Isopropyltoluene	13.729	119	169301m	16.039	ug/l	
89) n-Butylbenzene	14.053	91	97931m	9.578	ug/l	

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

Instrument :
MSVOA_N
ClientSampleId :
MW-14-20250604

Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025





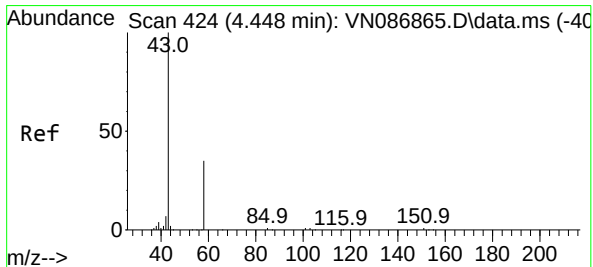
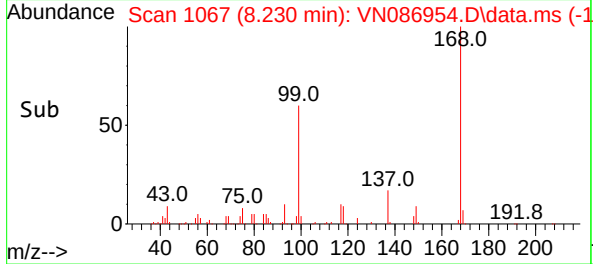
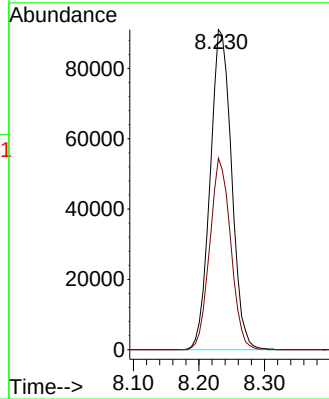
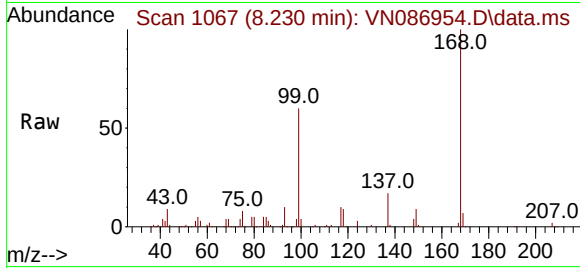
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
MW-14-20250604

Tgt Ion:168 Resp: 20660
Ion Ratio Lower Upper
168 100
99 59.9 49.1 73.7

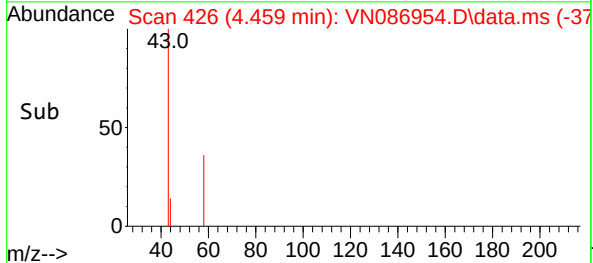
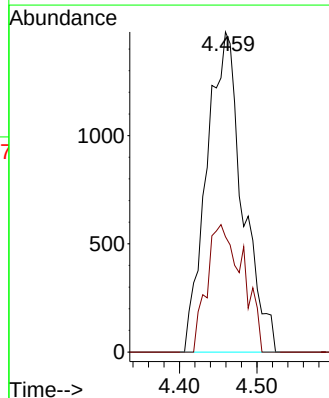
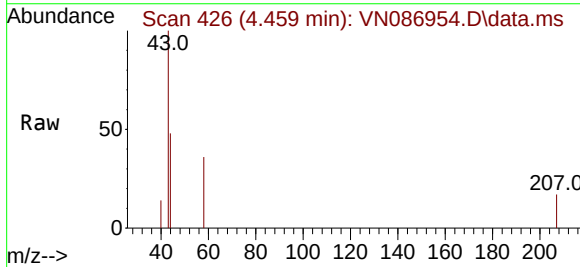
Manual Integrations
APPROVED

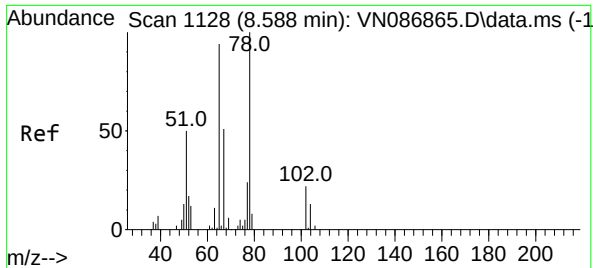
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#16
Acetone
Concen: 3.246 ug/l
RT: 4.459 min Scan# 426
Delta R.T. 0.012 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19

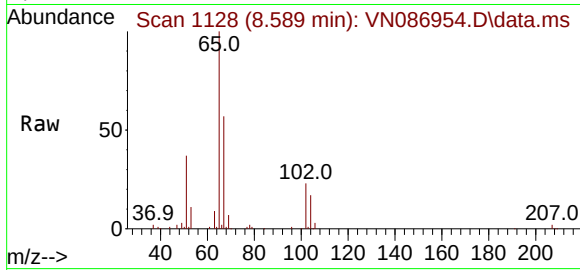
Tgt Ion: 43 Resp: 4761
Ion Ratio Lower Upper
43 100
58 36.0 28.0 42.0





#33
1,2-Dichloroethane-d4
Concen: 51.966 ug/l
RT: 8.589 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19

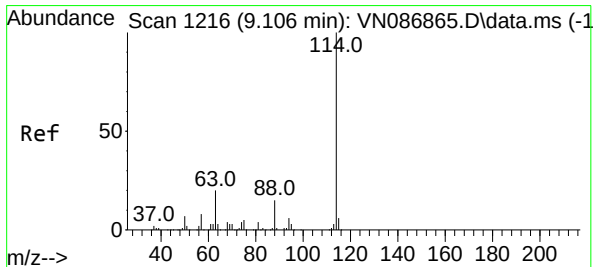
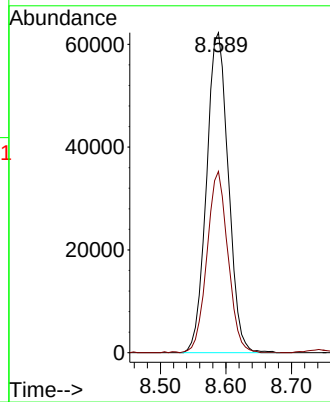
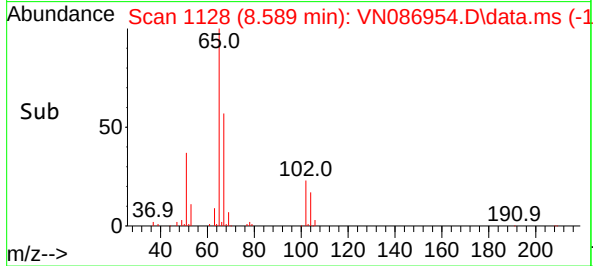
Instrument :
MSVOA_N
ClientSampleId :
MW-14-20250604



Tgt Ion: 65 Resp: 143749
Ion Ratio Lower Upper
65 100
67 54.6 0.0 105.6

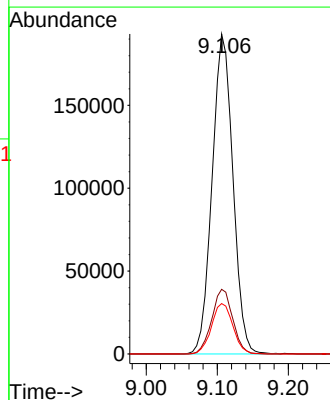
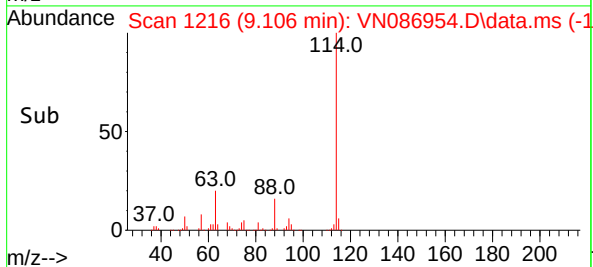
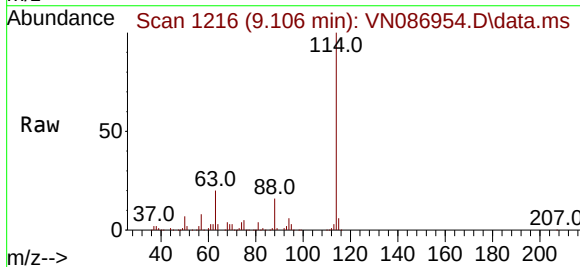
Manual Integrations
APPROVED

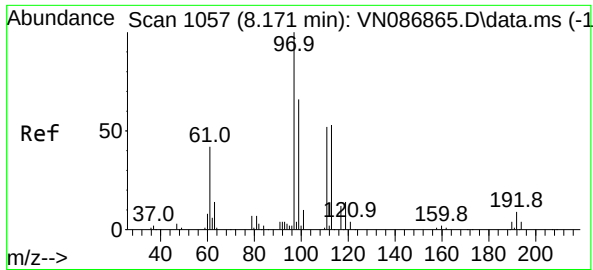
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. 0.000 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19

Tgt Ion:114 Resp: 392074
Ion Ratio Lower Upper
114 100
63 20.2 0.0 39.6
88 15.7 0.0 30.2





#35

Dibromofluoromethane

Concen: 50.508 ug/l

RT: 8.177 min Scan# 1113

Delta R.T. 0.006 min

Lab File: VN086954.D

Acq: 11 Jun 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

MW-14-20250604

Tgt Ion:113 Resp: 117350

Ion Ratio Lower Upper

113 100

111 104.3 84.2 126.2

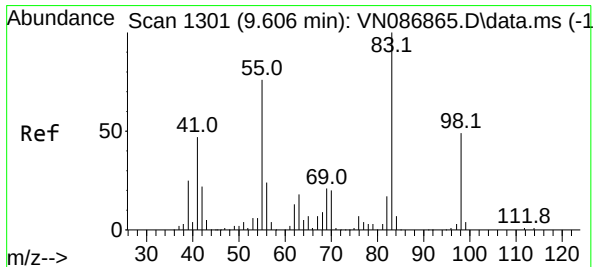
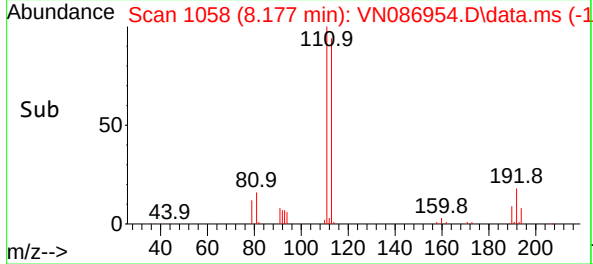
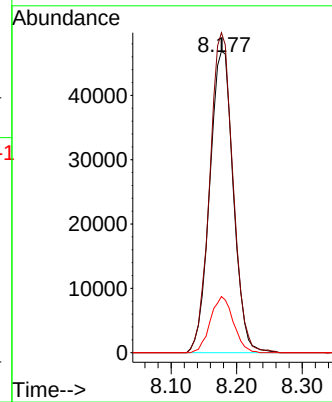
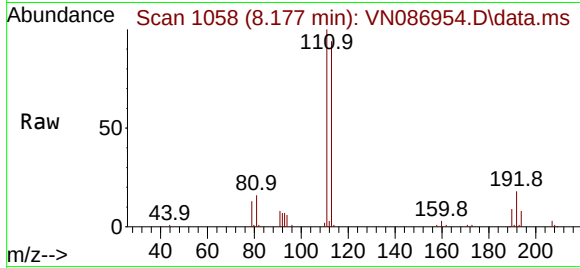
192 18.1 14.2 21.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#39

Methylcyclohexane

Concen: 4.316 ug/l

RT: 9.606 min Scan# 1301

Delta R.T. 0.000 min

Lab File: VN086954.D

Acq: 11 Jun 2025 17:19

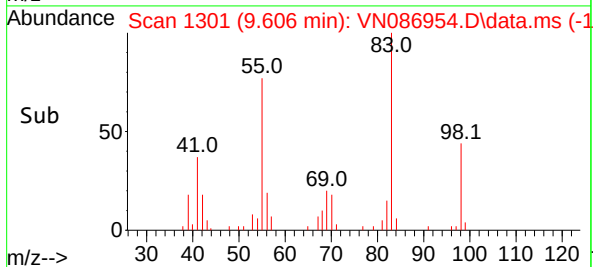
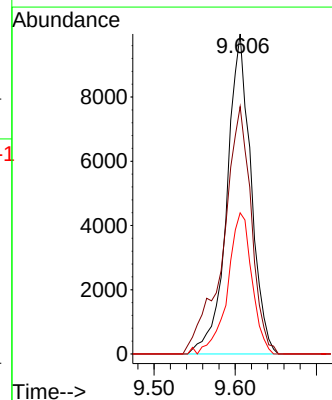
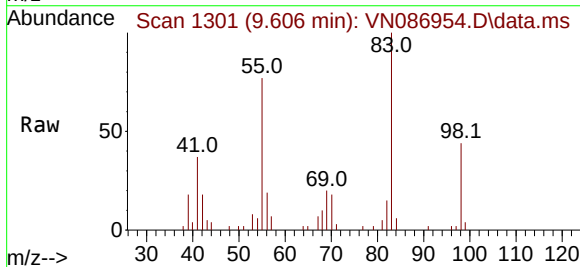
Tgt Ion: 83 Resp: 20471

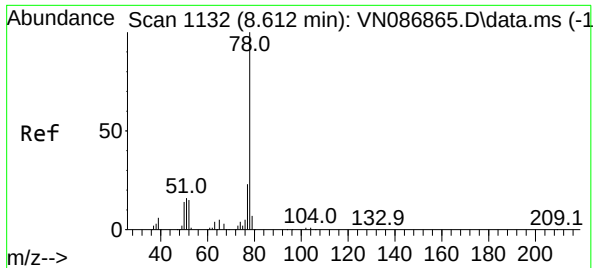
Ion Ratio Lower Upper

83 100

55 77.3 61.0 91.6

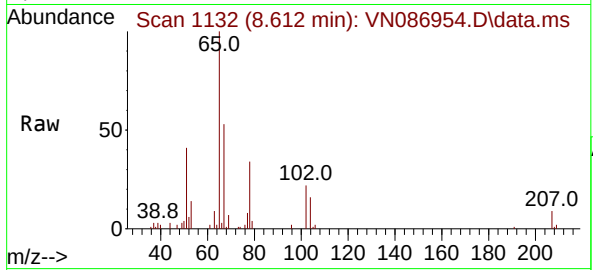
98 44.1 38.9 58.3





#40
Benzene
Concen: 1.082 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19

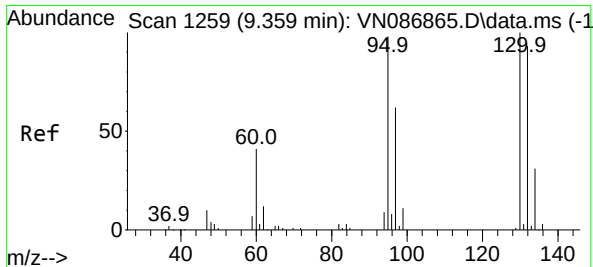
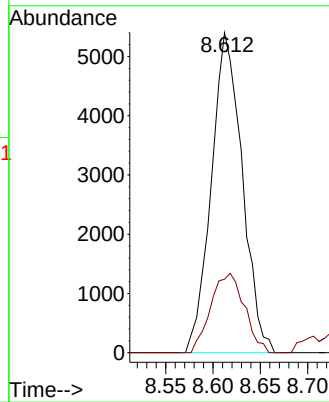
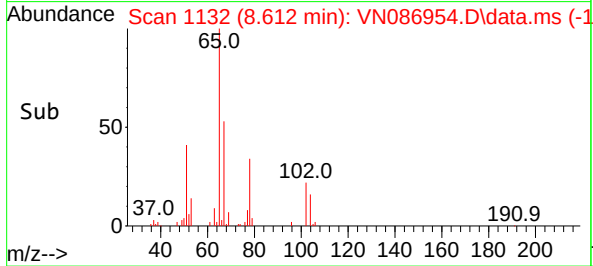
Instrument :
MSVOA_N
ClientSampleId :
MW-14-20250604



Tgt Ion: 78 Resp: 12250
Ion Ratio Lower Upper
78 100
77 22.9 18.7 28.1

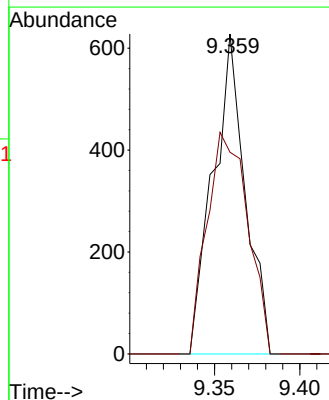
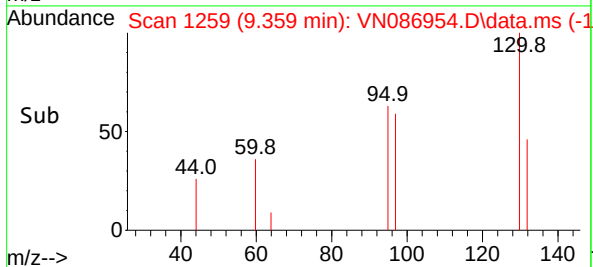
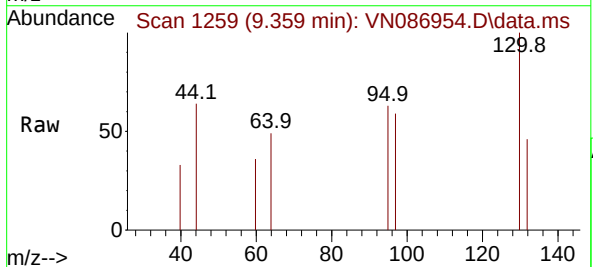
Manual Integrations
APPROVED

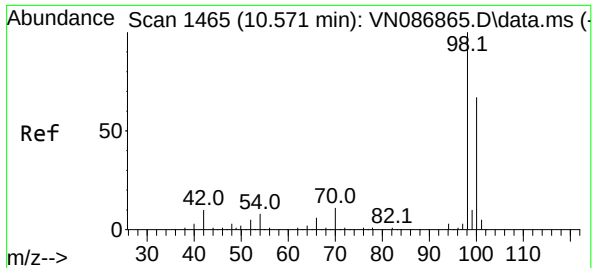
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#44
Trichloroethene
Concen: 0.307 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. 0.000 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19

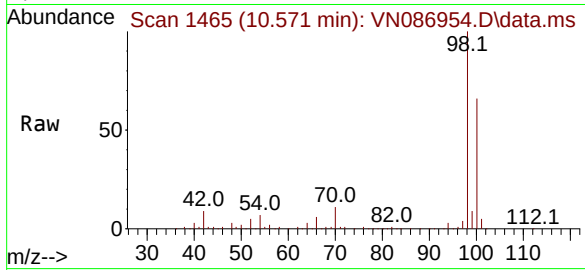
Tgt Ion:130 Resp: 823
Ion Ratio Lower Upper
130 100
95 63.1 0.0 196.2





#50
Toluene-d8
Concen: 52.691 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19

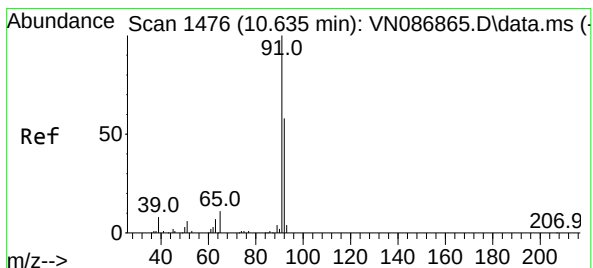
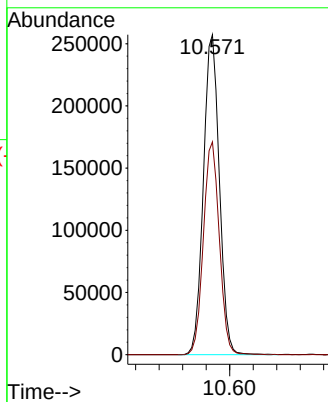
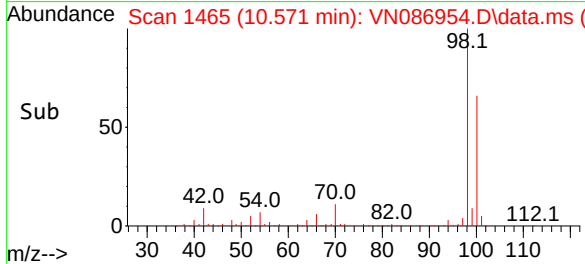
Instrument :
MSVOA_N
ClientSampleId :
MW-14-20250604



Tgt Ion: 98 Resp: 484662
Ion Ratio Lower Upper
98 100
100 66.3 53.4 80.0

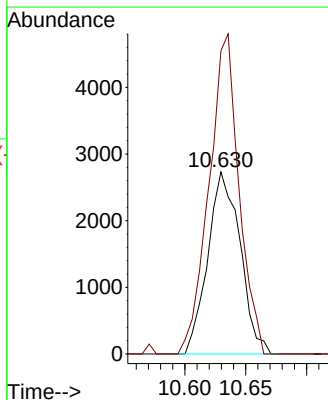
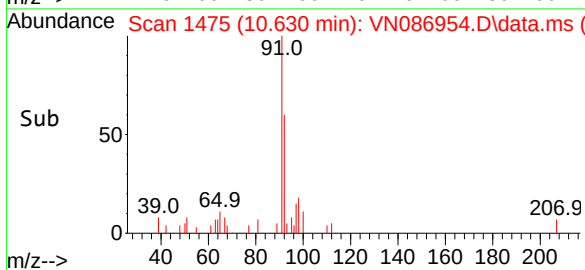
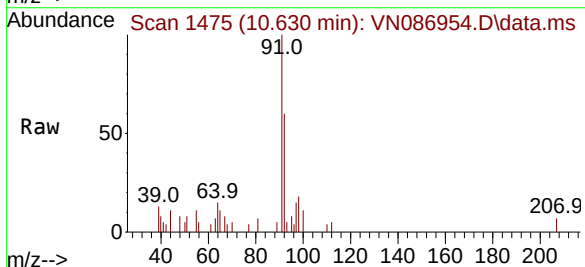
Manual Integrations
APPROVED

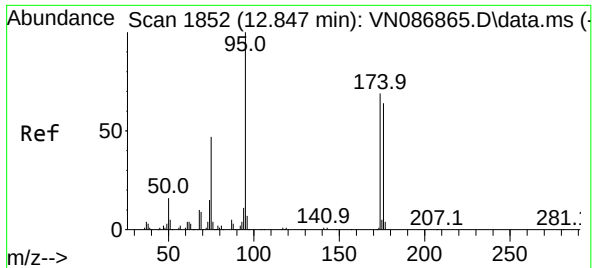
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#52
Toluene
Concen: 0.730 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19

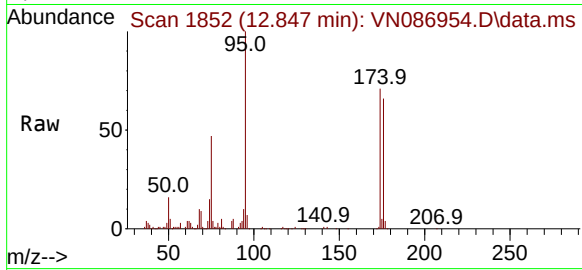
Tgt Ion: 92 Resp: 5049
Ion Ratio Lower Upper
92 100
91 163.0 136.5 204.7





#62
4-Bromofluorobenzene
Concen: 51.226 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19

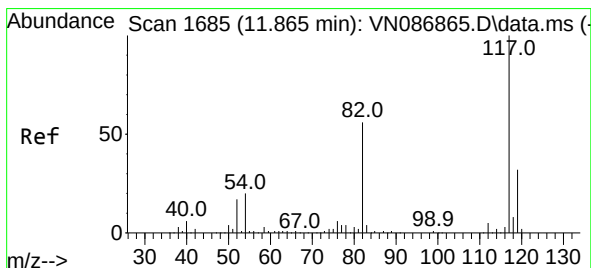
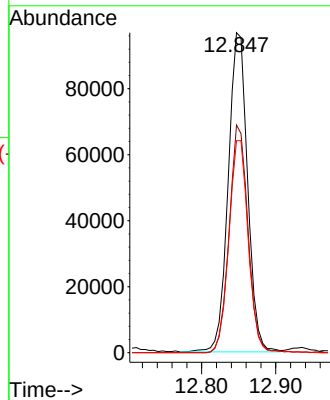
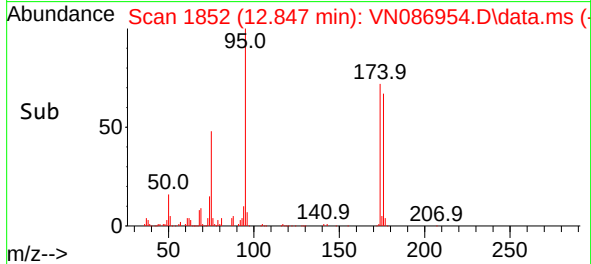
Instrument :
MSVOA_N
ClientSampleId :
MW-14-20250604



Tgt Ion: 95 Resp: 175059
Ion Ratio Lower Upper
95 100
174 69.6 0.0 141.8
176 66.4 0.0 132.6

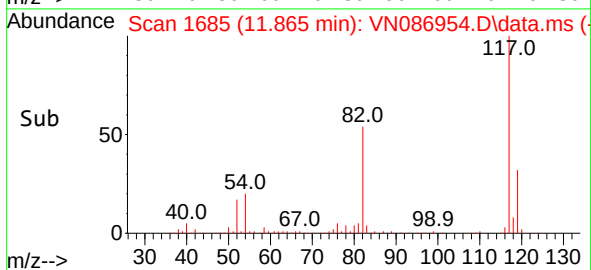
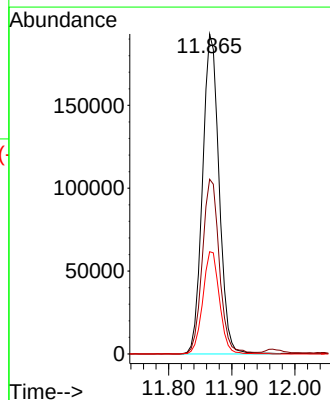
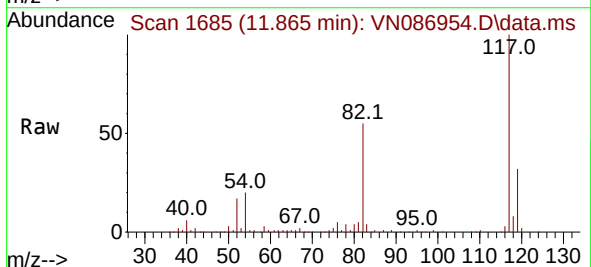
Manual Integrations
APPROVED

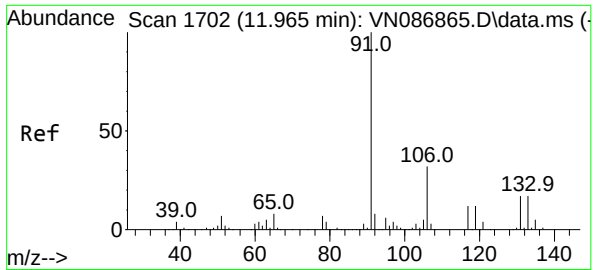
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19

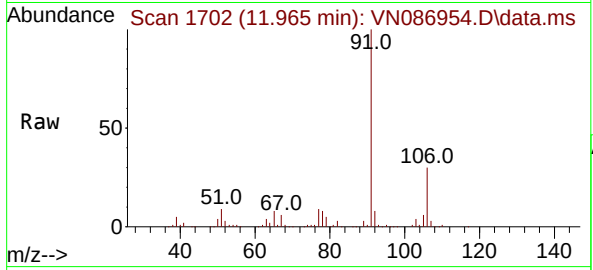
Tgt Ion:117 Resp: 351871
Ion Ratio Lower Upper
117 100
82 54.6 44.6 67.0
119 32.0 25.5 38.3





#67
Ethyl Benzene
Concen: 11.801 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19

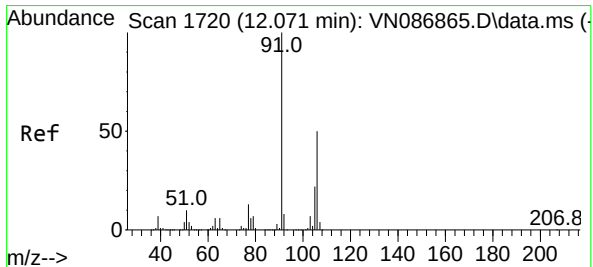
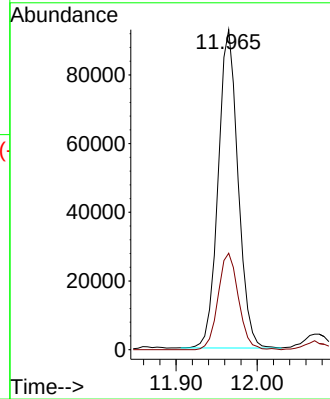
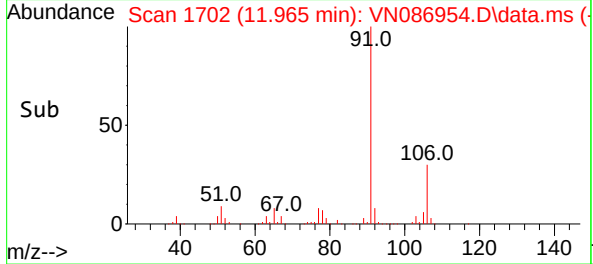
Instrument :
MSVOA_N
ClientSampleId :
MW-14-20250604



Tgt Ion: 91 Resp: 157749
Ion Ratio Lower Upper
91 100
106 30.3 25.4 38.2

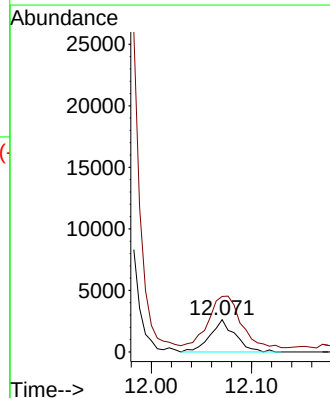
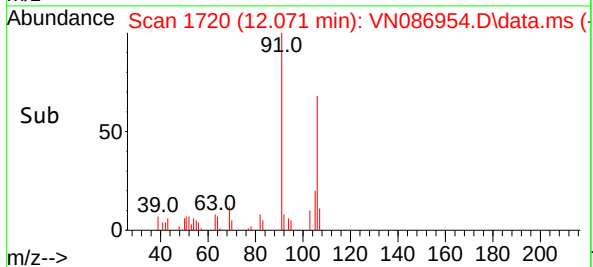
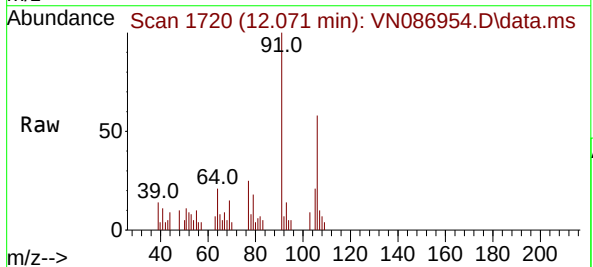
Manual Integrations
APPROVED

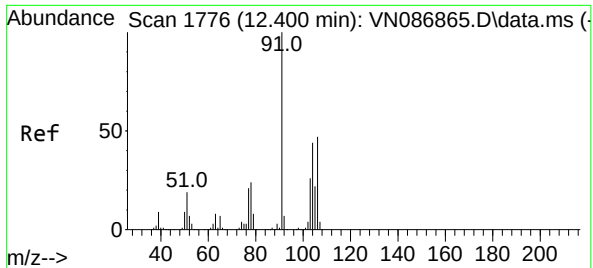
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#68
m/p-Xylenes
Concen: 0.892 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19

Tgt Ion:106 Resp: 4563
Ion Ratio Lower Upper
106 100
91 204.6 159.4 239.0





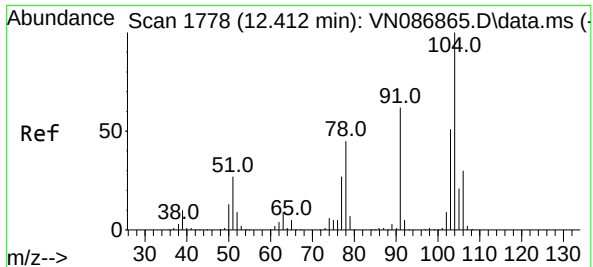
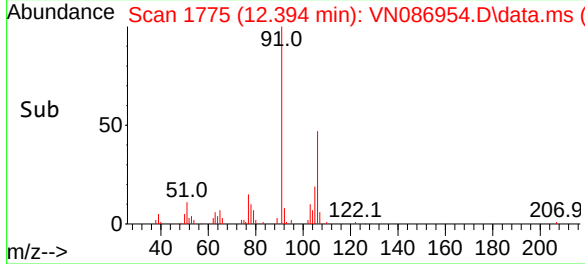
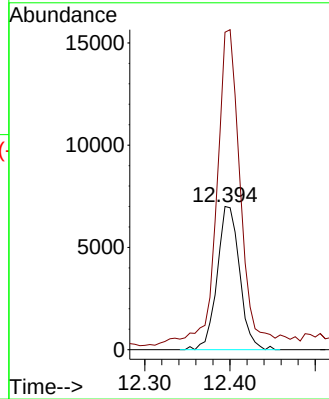
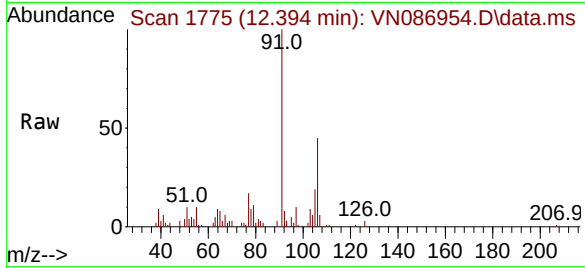
#69
o-Xylene
Concen: 2.609 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.006 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
MW-14-20250604

Tgt Ion:106 Resp: 12780
Ion Ratio Lower Upper
106 100
91 233.6 106.1 318.1

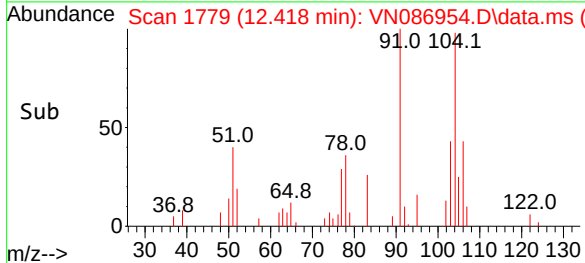
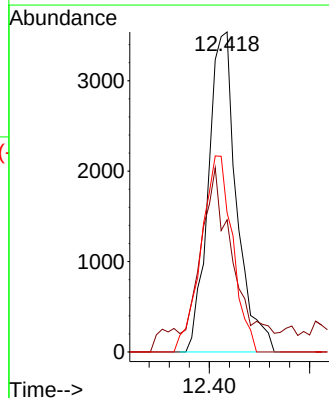
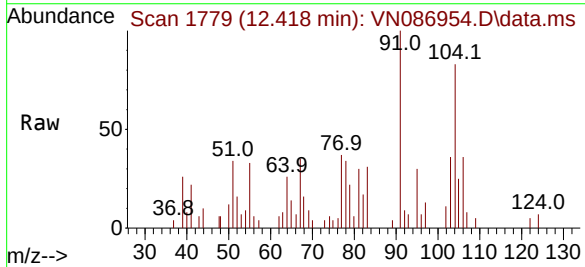
Manual Integrations
APPROVED

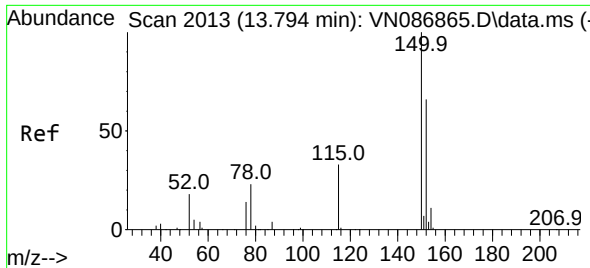
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#70
Styrene
Concen: 0.831 ug/l
RT: 12.418 min Scan# 1779
Delta R.T. 0.006 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19

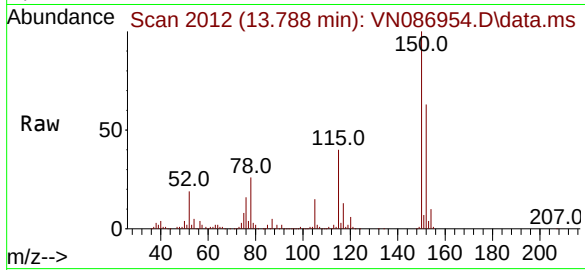
Tgt Ion:104 Resp: 6971
Ion Ratio Lower Upper
104 100
78 72.9 38.5 57.7#
103 67.7 43.1 64.7#





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2013
Delta R.T. -0.006 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19

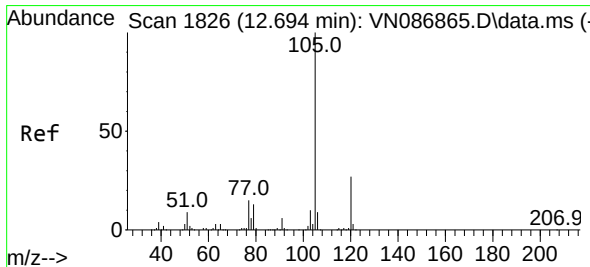
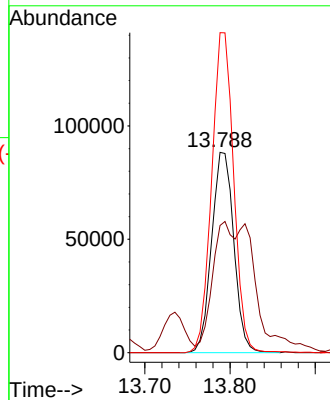
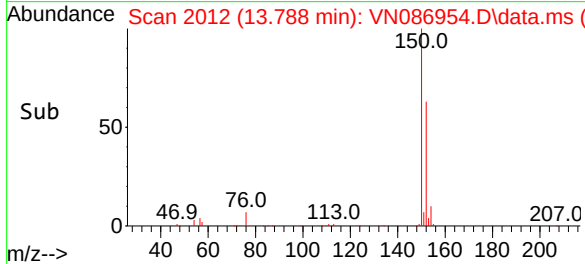
Instrument :
MSVOA_N
ClientSampleId :
MW-14-20250604



Tgt Ion:152 Resp: 15970
Ion Ratio Lower Upper
152 100
115 61.3 30.1 90.5
150 158.7 0.0 345.0

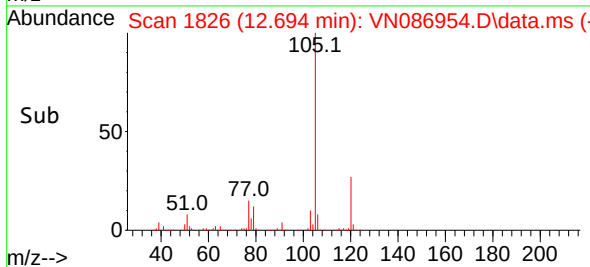
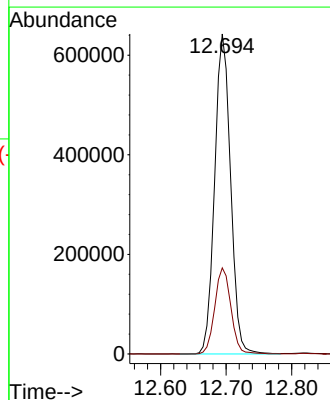
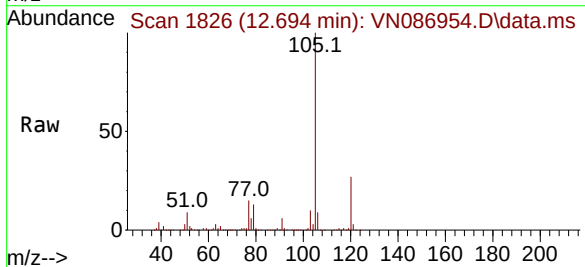
Manual Integrations
APPROVED

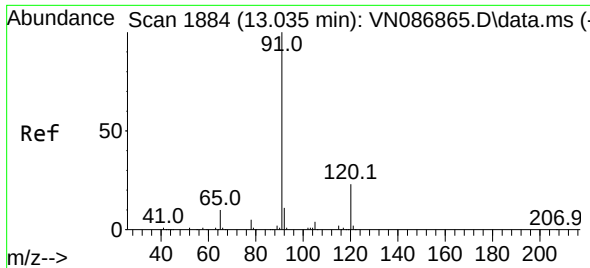
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#73
Isopropylbenzene
Concen: 92.927 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19

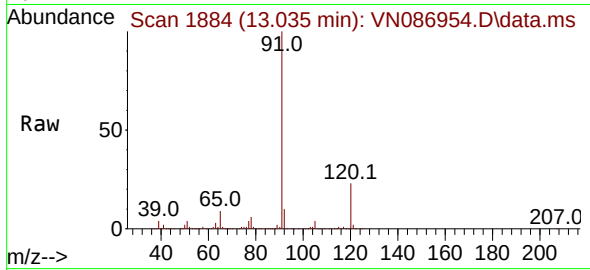
Tgt Ion:105 Resp: 1081176
Ion Ratio Lower Upper
105 100
120 27.2 13.5 40.4





#78
n-propylbenzene
Concen: 84.205 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19

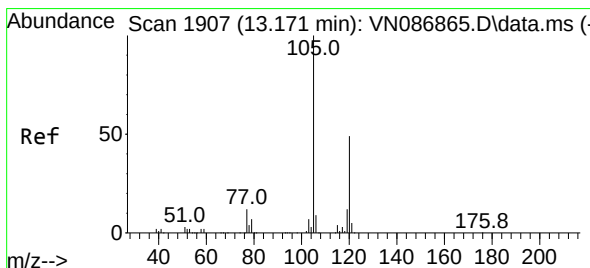
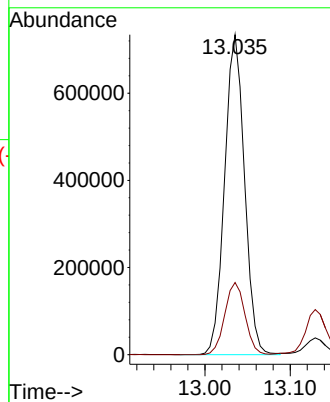
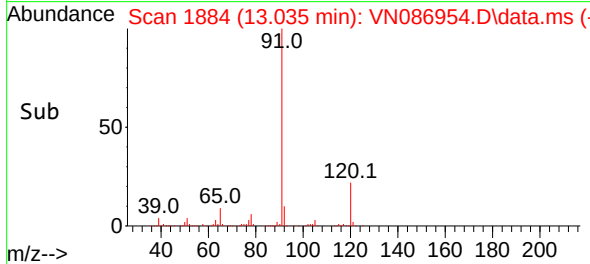
Instrument :
MSVOA_N
ClientSampleId :
MW-14-20250604



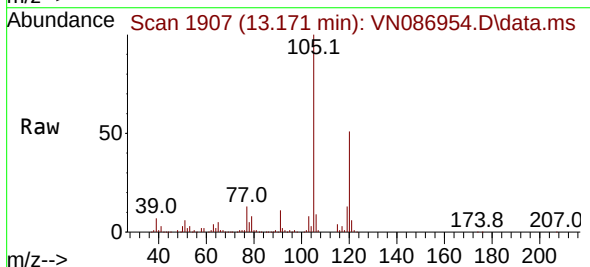
Tgt Ion: 91 Resp: 119058
Ion Ratio Lower Upper
91 100
120 23.0 11.4 34.2

Manual Integrations
APPROVED

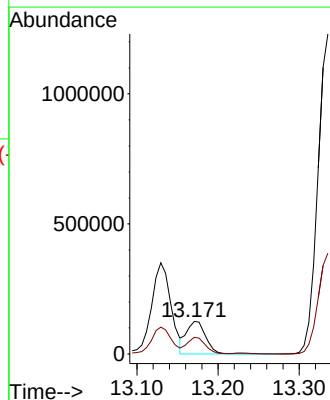
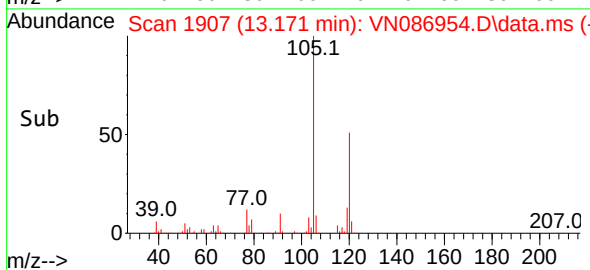
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025

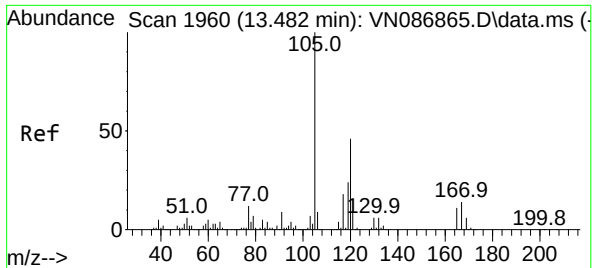


#80
1,3,5-Trimethylbenzene
Concen: 21.360 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19



Tgt Ion:105 Resp: 205176
Ion Ratio Lower Upper
105 100
120 46.9 24.9 74.6





#84

1,2,4-Trimethylbenzene

Concen: 622.641 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.000 min

Lab File: VN086954.D

Acq: 11 Jun 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

MW-14-20250604

Tgt Ion:105 Resp: 599749

Ion Ratio Lower Upper

105 100

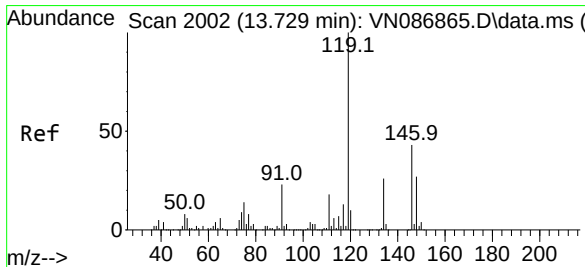
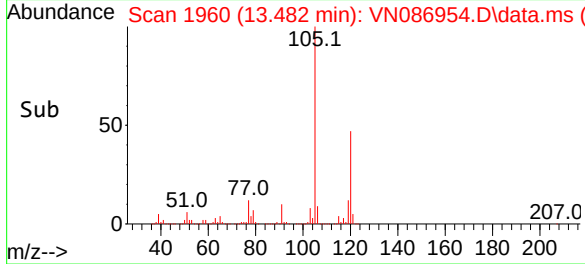
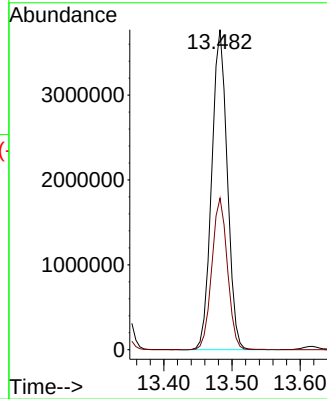
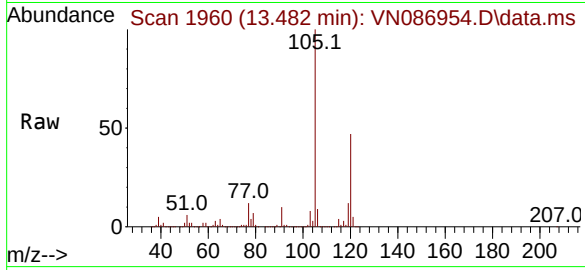
120 47.3 23.2 69.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#86

p-Isopropyltoluene

Concen: 16.039 ug/l m

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN086954.D

Acq: 11 Jun 2025 17:19

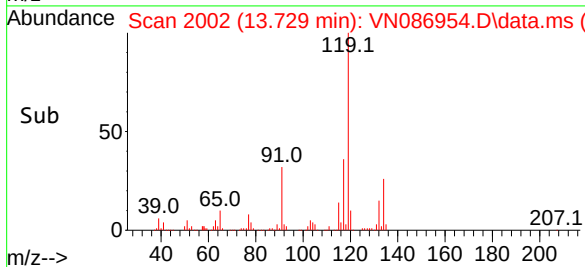
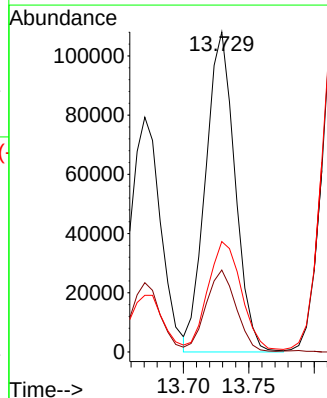
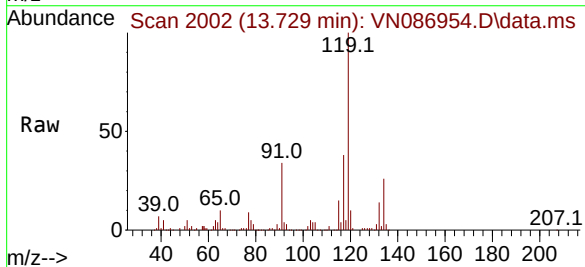
Tgt Ion:119 Resp: 169301

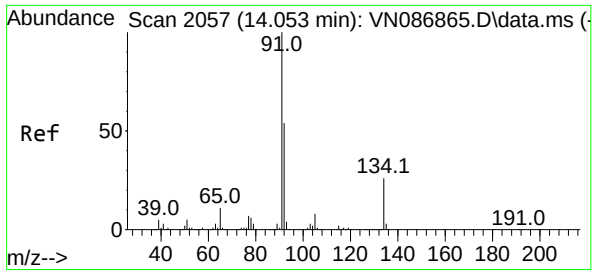
Ion Ratio Lower Upper

119 100

134 21.6 13.5 40.4

91 17.1 11.5 34.4





#89

n-Butylbenzene

Concen: 9.578 ug/l m

RT: 14.053 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN086954.D

Acq: 11 Jun 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

MW-14-20250604

Tgt Ion: 91 Resp: 9793

Ion Ratio Lower Upper

91 100

92 81.1 27.5 82.4

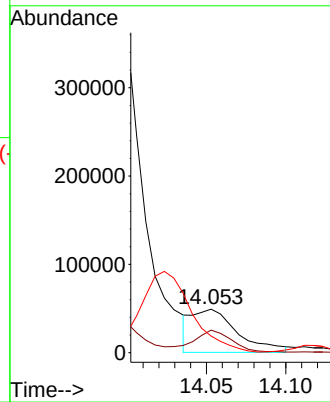
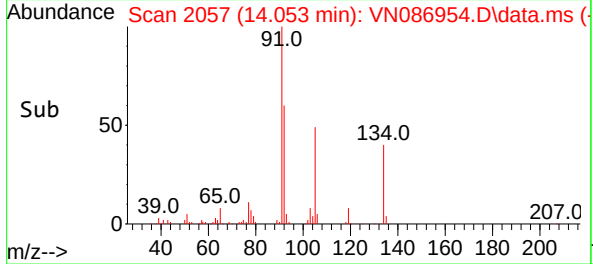
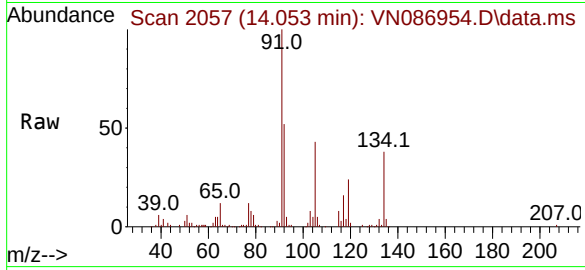
134 0.0 13.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
 Data File : VN086954.D
 Acq On : 11 Jun 2025 17:19
 Operator : JC\MD
 Sample : Q2231-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-14-20250604

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_N\methods\82N060625W.M
 Title : SW846 8260

Signal : TIC: VN086954.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.230	1062	1067	1078	rVB	299135	668462	1.04%	0.390%
2	9.106	1207	1216	1228	rBV	434930	889193	1.39%	0.519%
3	10.571	1455	1465	1474	rBV	665146	1279764	2.00%	0.746%
4	11.865	1678	1685	1696	rBV	576693	1111070	1.73%	0.648%
5	12.694	1818	1826	1842	rVB	1505853	2572541	4.02%	1.501%
6	12.847	1843	1852	1863	rVB	426357	791065	1.23%	0.461%
7	13.035	1875	1884	1891	rBV	1419860	2329981	3.64%	1.359%
8	13.129	1891	1900	1904	rVV	820678	1376275	2.15%	0.803%
9	13.335	1927	1935	1943	rBV	3005314	4931699	7.70%	2.877%
10	13.482	1948	1960	1966	rVV	10292460	16702188	26.07%	9.743%
11	13.818	2007	2017	2025	rBV	3536096	6495450	10.14%	3.789%
12	13.947	2033	2039	2042	rBV	1079969	1809649	2.82%	1.056%
13	13.994	2042	2047	2060	rVB	7718096	14667152	22.89%	8.555%
14	14.241	2084	2089	2091	rBV	589512	895716	1.40%	0.522%
15	14.271	2091	2094	2098	rVV	716186	1116146	1.74%	0.651%
16	14.329	2098	2104	2110	rVB	1447579	2372544	3.70%	1.384%
17	14.447	2117	2124	2133	rVB	3183379	5964147	9.31%	3.479%
18	14.653	2150	2159	2162	rBV	555599	986501	1.54%	0.575%
19	14.688	2162	2165	2170	rVV	1111046	1650847	2.58%	0.963%
20	14.923	2199	2205	2217	rVB	1811301	3111282	4.86%	1.815%
21	15.035	2217	2224	2232	rBV2	1723626	3883277	6.06%	2.265%
22	15.118	2232	2238	2245	rVB	1745845	3025000	4.72%	1.765%
23	15.206	2245	2253	2261	rBV	6540019	11906708	18.58%	6.945%
24	15.312	2262	2271	2278	rBV	1124530	2305610	3.60%	1.345%
25	15.441	2286	2293	2303	rVB4	264571	679908	1.06%	0.397%
26	15.641	2318	2327	2339	rVV2	30319061	64070397	100.00%	37.373%
27	15.982	2381	2385	2400	rVB	253385	909881	1.42%	0.531%
28	16.141	2405	2412	2417	rVV	423268	1047110	1.63%	0.611%
29	16.194	2417	2421	2427	rVV2	409457	945079	1.48%	0.551%
30	16.276	2427	2435	2451	rVB	596629	2095314	3.27%	1.222%
31	16.570	2478	2485	2500	rVB	259837	730391	1.14%	0.426%
32	16.776	2512	2520	2522	rBV	4543351	8115734	12.67%	4.734%

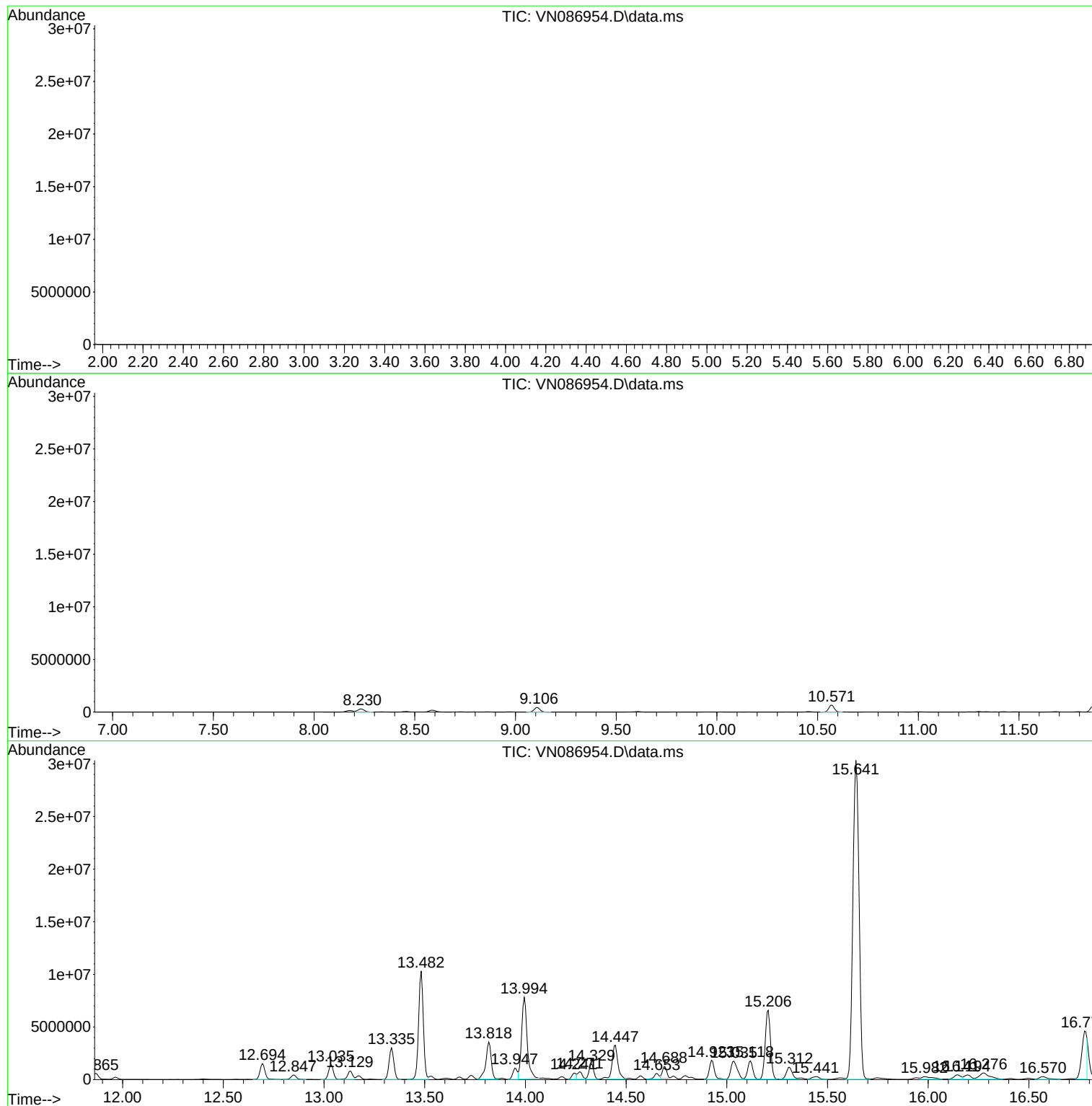
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086954.D
Acq On : 11 Jun 2025 17:19
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Sample : Q2231-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-14-20250604

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086954.D
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Instrument :
MSVOA_N
ClientSampleId :
MW-14-20250604

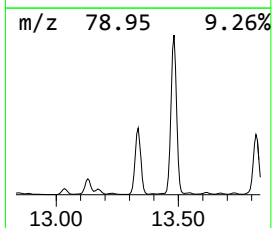
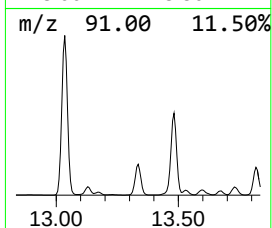
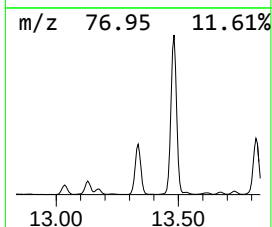
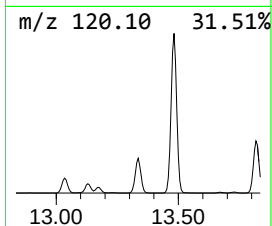
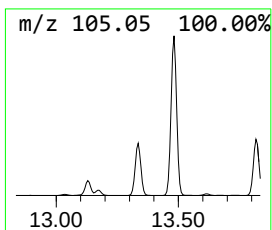
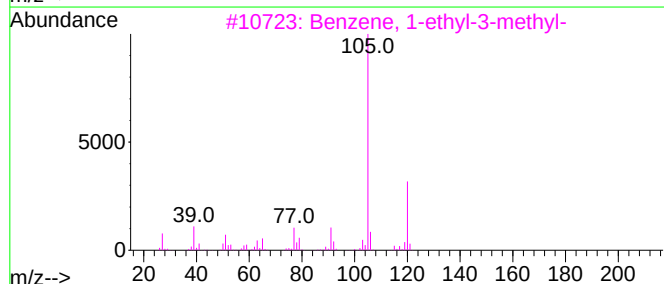
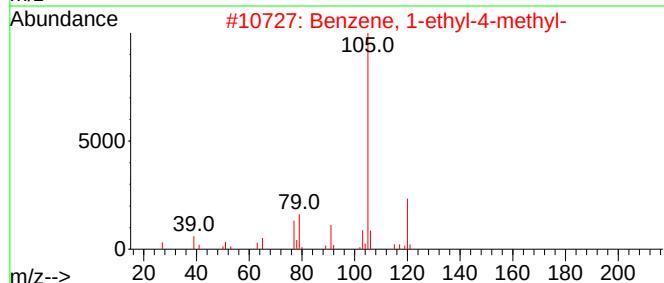
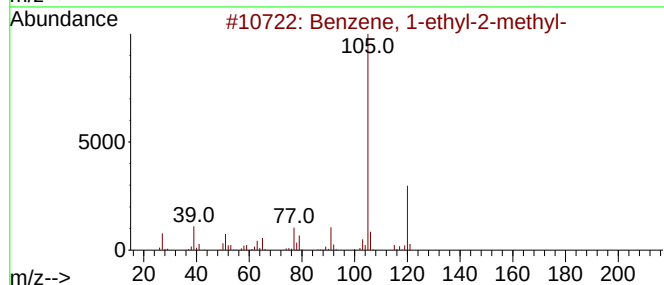
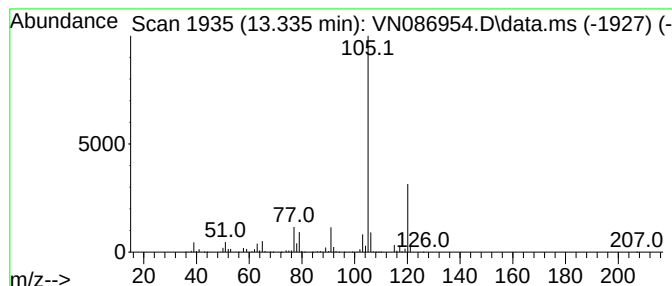
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Quant Title : SW846 8260

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

Peak Number 1 Benzene, 1-ethyl-2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.335	37.96 ug/l	4931700	1,4-Dichlorobenzene-d4	13.788

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
2			Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	94
3			Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91
4			Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91
5			Mesitylene	120	C9H12	000108-67-8	91



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Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-14-20250604

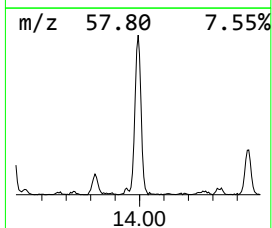
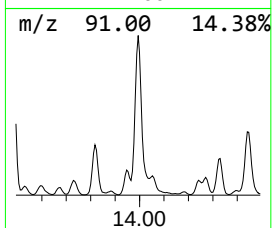
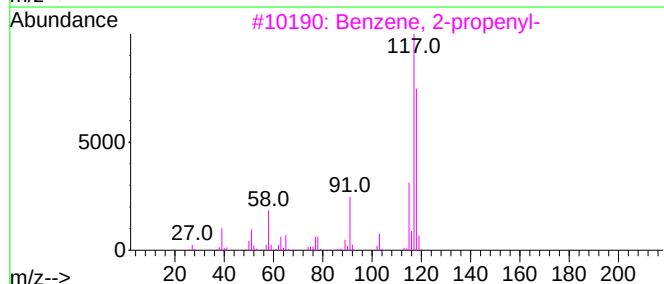
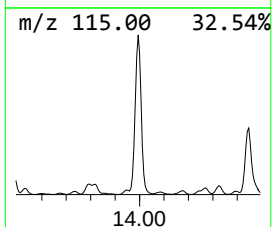
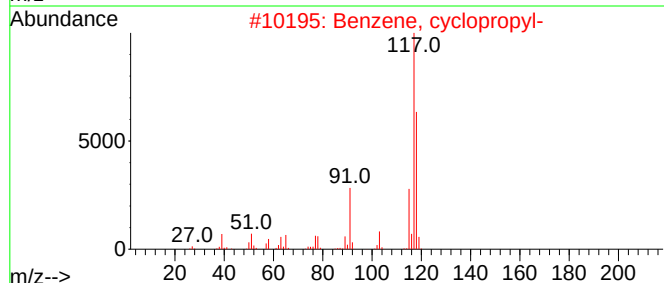
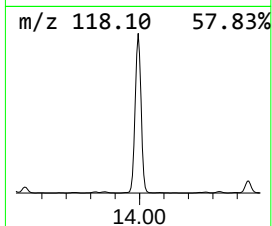
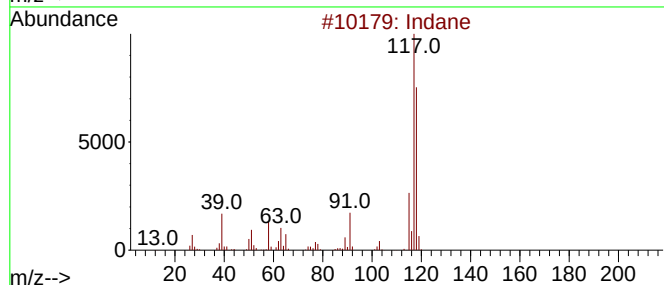
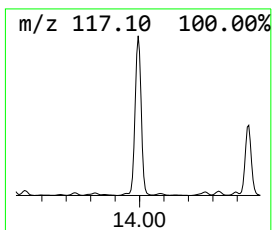
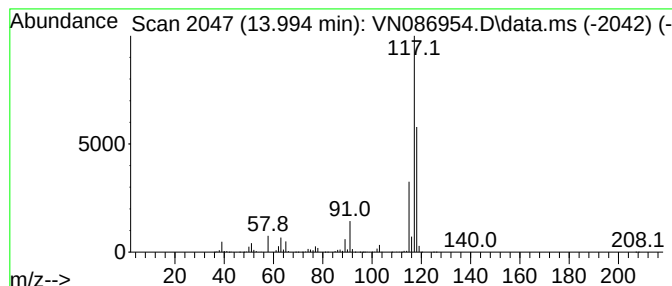
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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

Peak Number 2 Indane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.994	112.90 ug/l	14667200	1,4-Dichlorobenzene-d4	13.788

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Indane	118	C9H10	000496-11-7	87
2			Benzene, cyclopropyl-	118	C9H10	000873-49-4	72
3			Benzene, 2-propenyl-	118	C9H10	000300-57-2	64
4			Tetracyclo[3.3.1.0(2,8).0(4,6)]-...	118	C9H10	1000191-13-7	64
5			Benzene, 1,1'-(1,5-hexadiene-1,6...	234	C18H18	004439-45-6	59



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
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Sample : Q2231-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-14-20250604

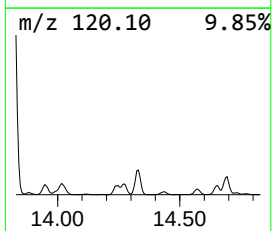
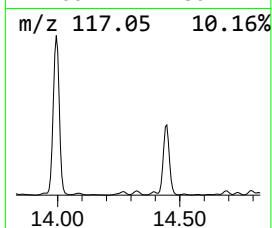
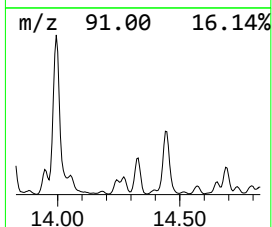
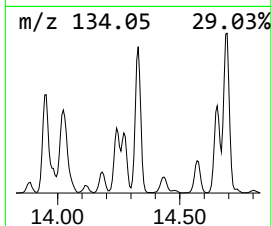
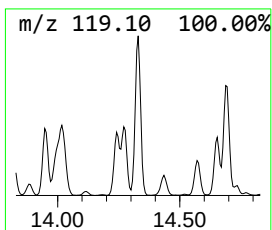
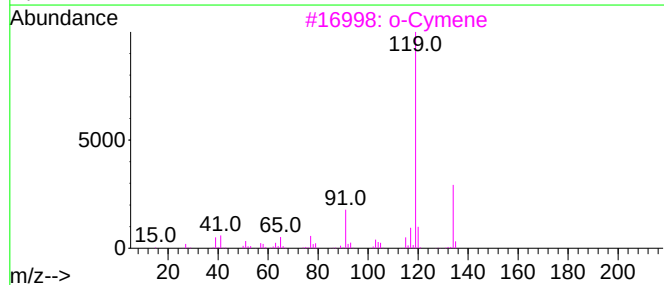
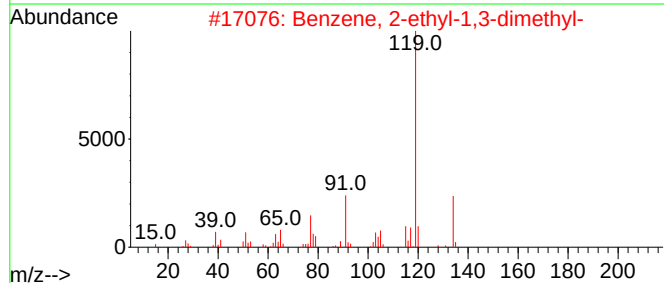
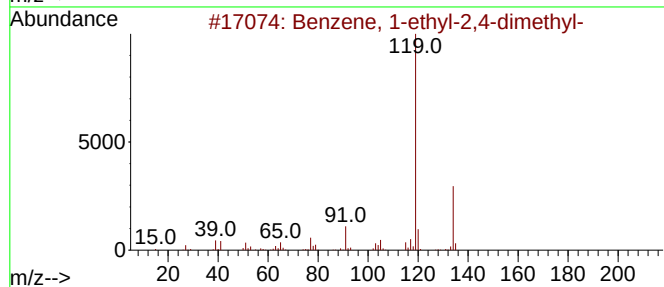
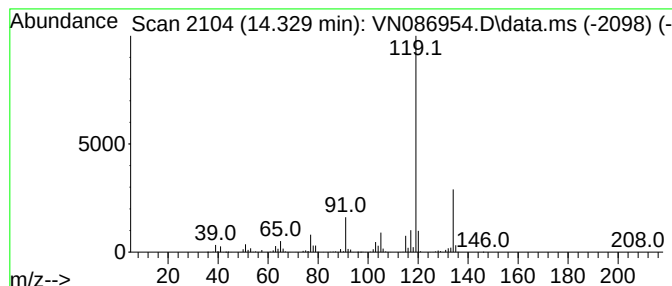
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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

Peak Number 3 Benzene, 1-ethyl-2,4-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.329	18.26 ug/l	2372540	1,4-Dichlorobenzene-d4	13.788

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	97
2			Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	95
3			o-Cymene	134	C10H14	000527-84-4	95
4			Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	94
5			Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	94



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
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Operator : JC\MD
Sample : Q2231-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-14-20250604

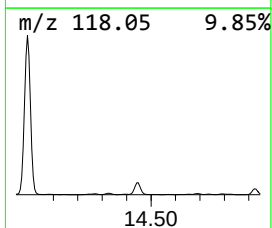
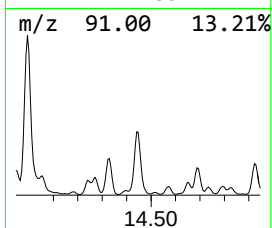
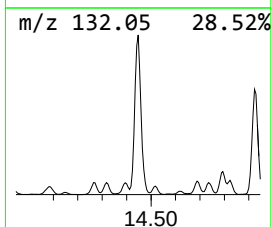
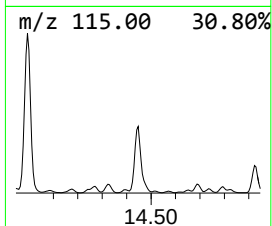
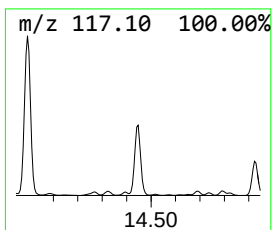
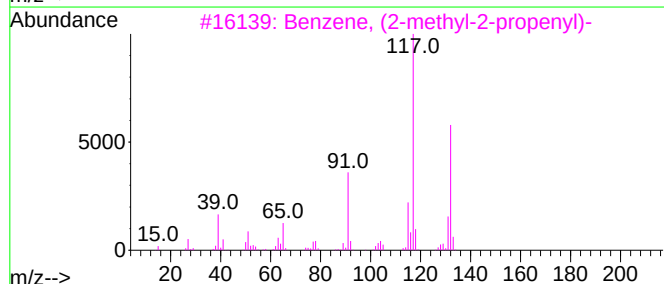
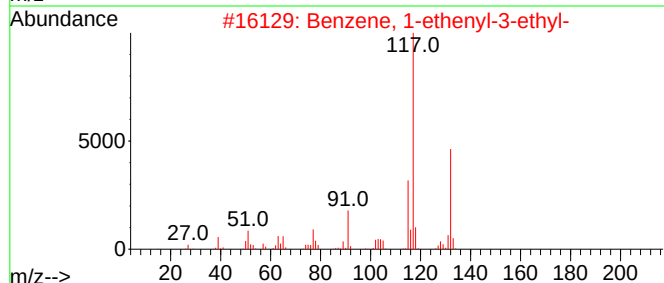
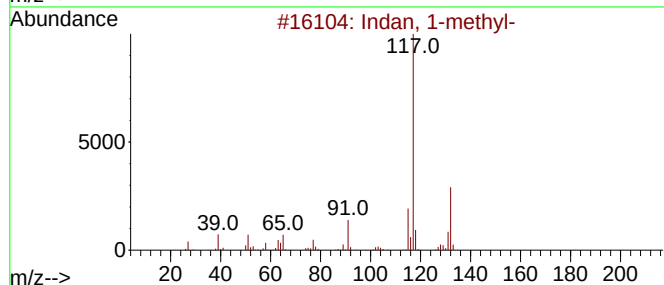
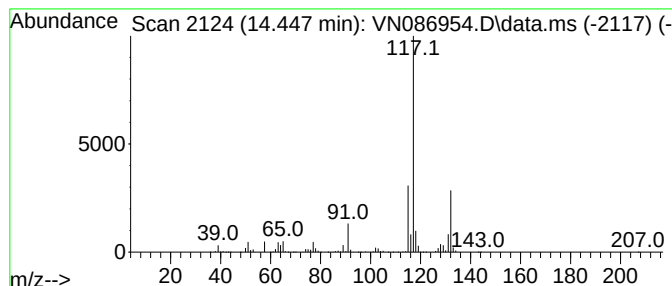
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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

Peak Number 4 Indan, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.447	45.91 ug/l	5964150	1,4-Dichlorobenzene-d4	13.788

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Indan, 1-methyl-	132	C10H12	000767-58-8	93
2			Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	91
3			Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	87
4			Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	87
5			Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	86



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ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
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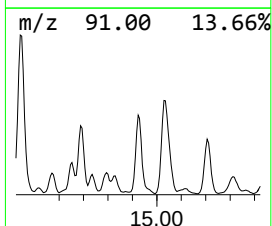
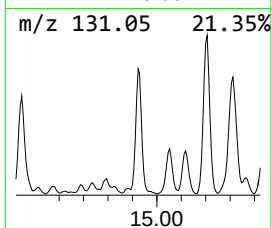
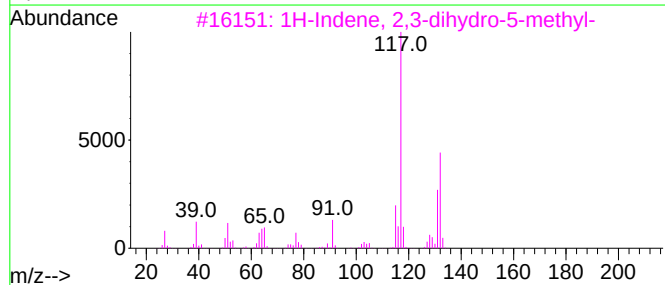
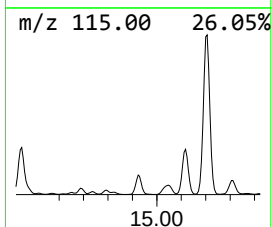
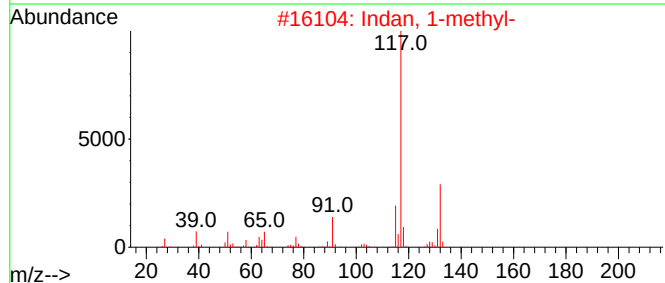
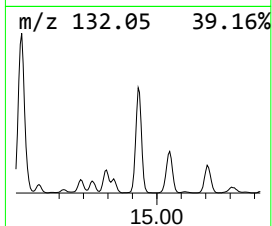
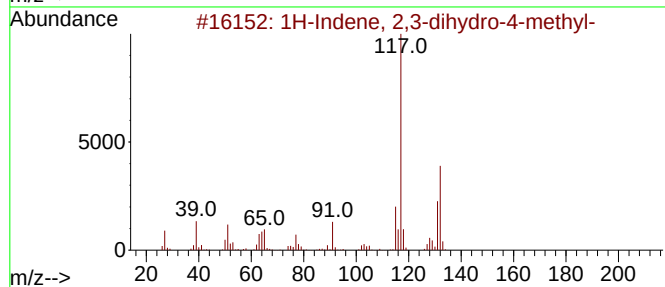
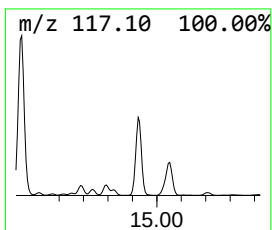
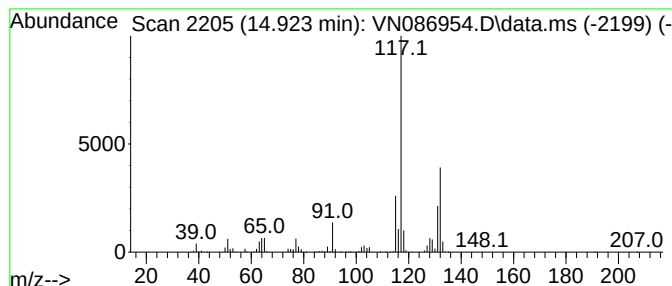
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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

Peak Number 5 1H-Indene, 2,3-dihydro-4-me... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.923	23.95 ug/l	3111280	1,4-Dichlorobenzene-d4	13.788

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	95
2			Indan, 1-methyl-	132	C10H12	000767-58-8	93
3			1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	93
4			3-Phenylbut-1-ene	132	C10H12	000934-10-1	90
5			Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	90



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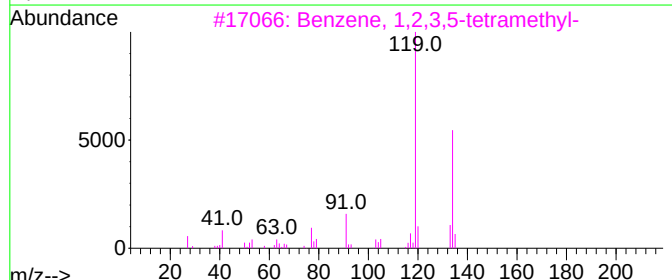
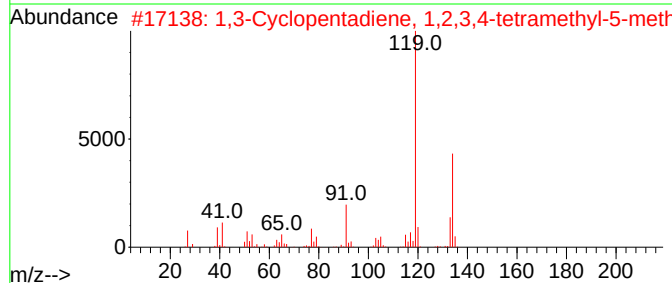
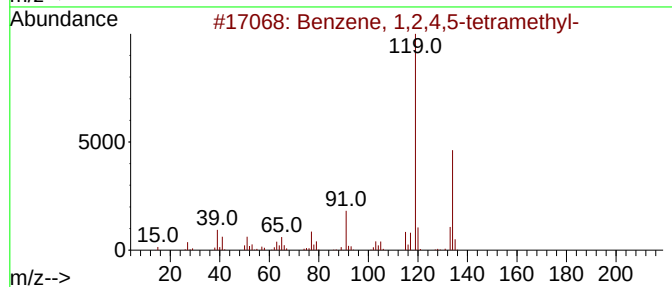
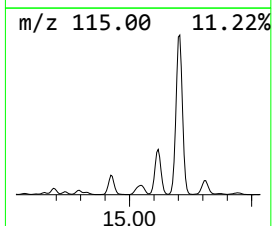
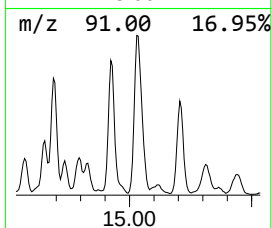
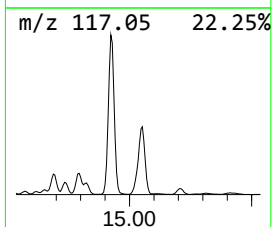
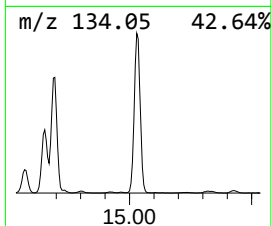
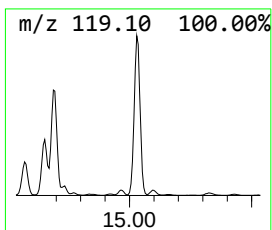
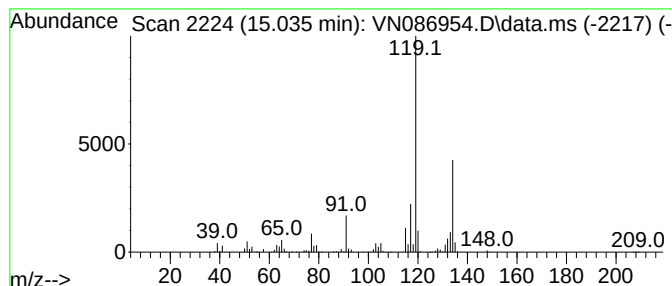
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Quant Title : SW846 8260

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

Peak Number 6 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.035	29.89 ug/l	3883280	1,4-Dichlorobenzene-d4	13.788

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	94
2			1,3-Cyclopentadiene, 1,2,3,4-tet...	134	C10H14	076089-59-3	93
3			Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	93
4			Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	93
5			p-Cymene	134	C10H14	000099-87-6	90



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086954.D
Acq On : 11 Jun 2025 17:19
Operator : JC\MD
Sample : Q2231-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-14-20250604

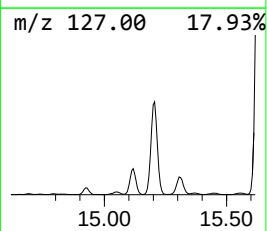
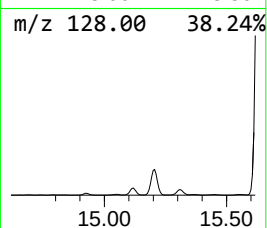
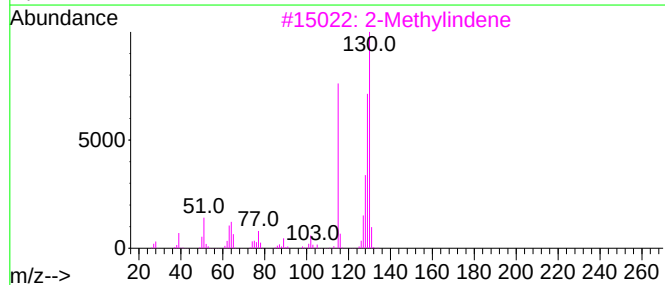
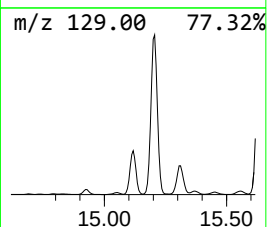
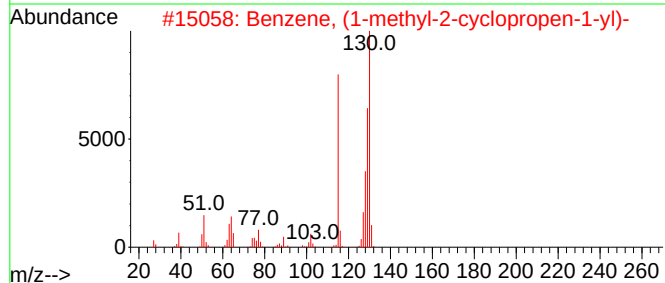
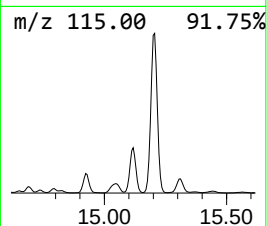
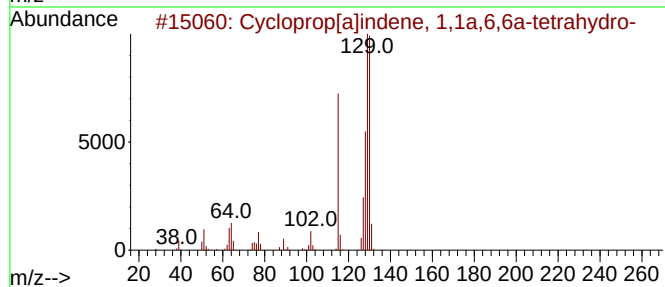
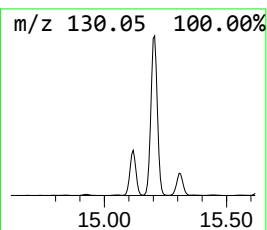
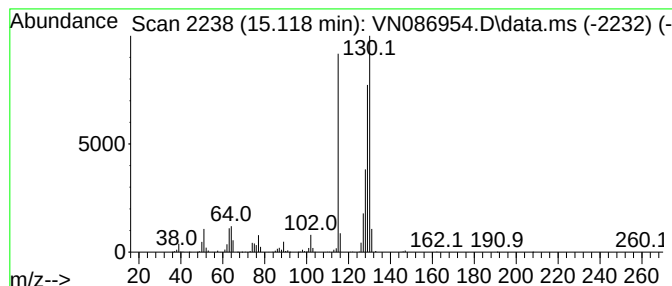
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Quant Title : SW846 8260

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

Peak Number 7 Cycloprop[a]indene, 1,1a,6,... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.118	23.29 ug/l	3025000	1,4-Dichlorobenzene-d4	13.788

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cycloprop[a]indene, 1,1a,6,6a-te...	130	C10H10	015677-15-3	95
2			Benzene, (1-methyl-2-cyclopropen...	130	C10H10	065051-83-4	94
3			2-Methylindene	130	C10H10	002177-47-1	94
4			1H-Indene, 1-methyl-	130	C10H10	000767-59-9	93
5			Benzene, 1-butynyl-	130	C10H10	000622-76-4	93



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086954.D
Acq On : 11 Jun 2025 17:19
Operator : JC\MD
Sample : Q2231-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-14-20250604

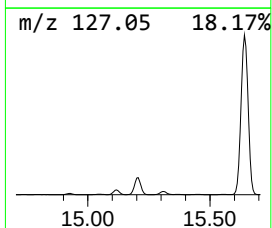
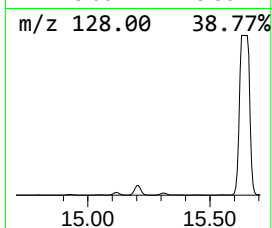
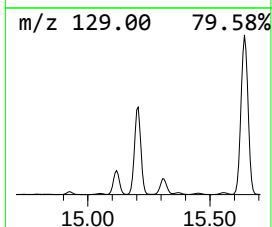
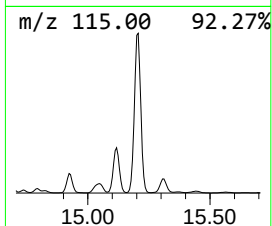
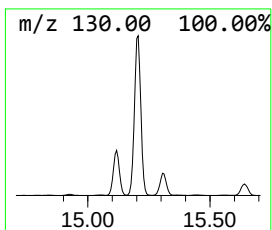
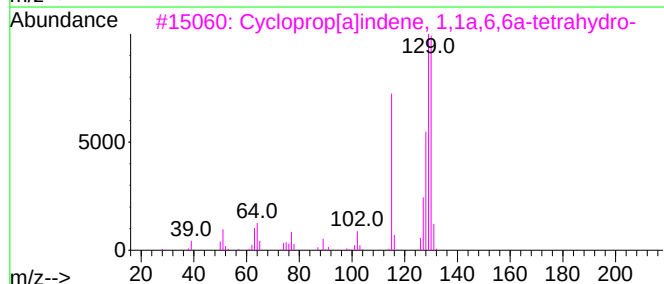
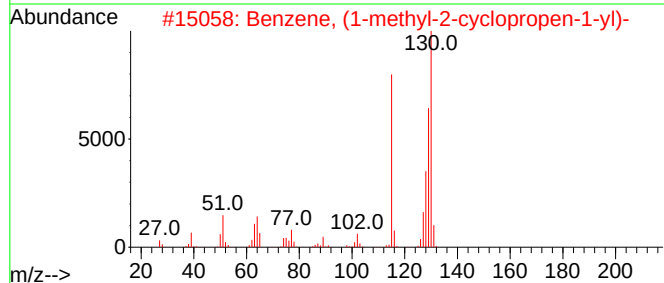
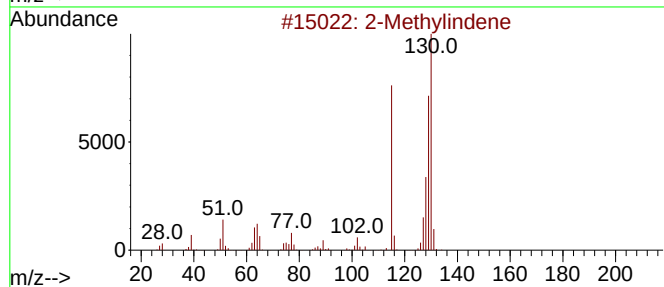
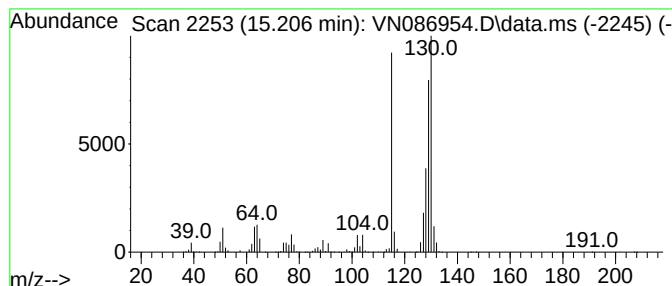
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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

Peak Number 8 2-Methylindene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.206	91.65 ug/l	11906700	1,4-Dichlorobenzene-d4	13.788

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			2-Methylindene	130	C10H10	002177-47-1	96
2			Benzene, (1-methyl-2-cyclopropen...	130	C10H10	065051-83-4	95
3			Cycloprop[a]indene, 1,1a,6,6a-te...	130	C10H10	015677-15-3	95
4			1,4-Dihydronaphthalene	130	C10H10	000612-17-9	95
5			Benzene,1-methyl-1,2-propadienyl-	130	C10H10	022433-39-2	94



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086954.D
Acq On : 11 Jun 2025 17:19
Operator : JC\MD
Sample : Q2231-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-14-20250604

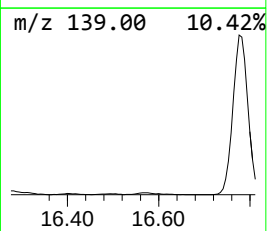
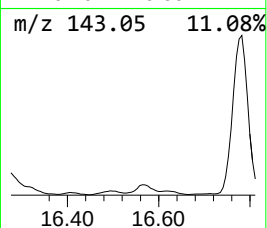
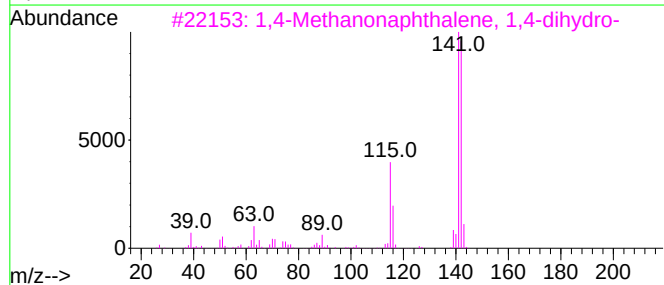
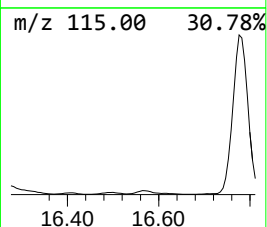
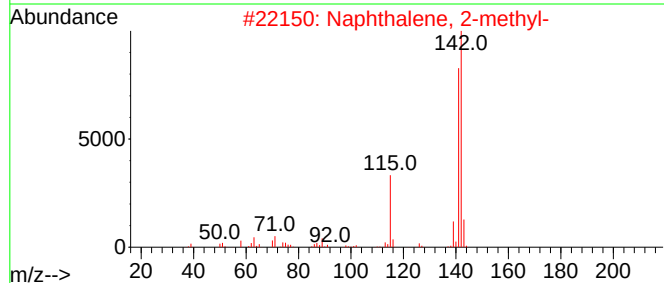
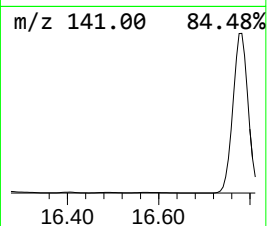
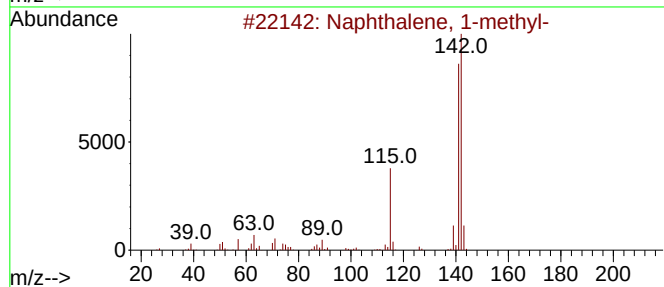
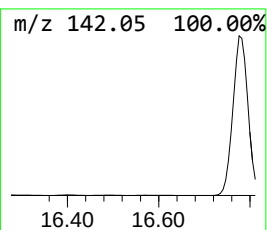
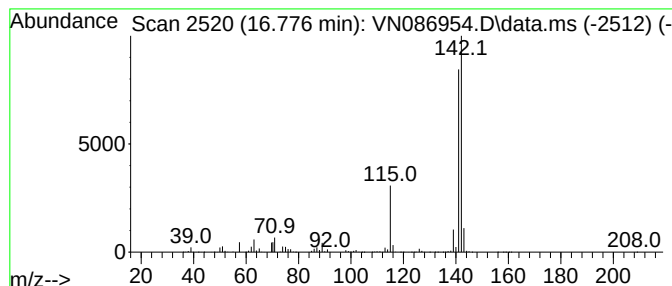
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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

Peak Number 10 Naphthalene, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.776	62.47 ug/l	8115730	1,4-Dichlorobenzene-d4	13.788

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
2			Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
3			1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	90
4			Benzocycloheptatriene	142	C11H10	000264-09-5	90
5			3-Indolecarbonitrile	142	C9H6N2	005457-28-3	43



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086954.D
Acq On : 11 Jun 2025 17:19
Operator : JC\MD
Sample : Q2231-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-14-20250604

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.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
Benzene, 1-ethy...	13.335	38.0	ug/l	4931700	4	13.788	6495450	50.0
Indane	13.994	112.9	ug/l	14667200	4	13.788	6495450	50.0
Benzene, 1-ethy...	14.329	18.3	ug/l	2372540	4	13.788	6495450	50.0
Indan, 1-methyl-	14.447	45.9	ug/l	5964150	4	13.788	6495450	50.0
1H-Indene, 2,3-...	14.923	23.9	ug/l	3111280	4	13.788	6495450	50.0
Benzene, 1,2,4,...	15.035	29.9	ug/l	3883280	4	13.788	6495450	50.0
Cycloprop[a]ind...	15.118	23.3	ug/l	3025000	4	13.788	6495450	50.0
2-Methylindene	15.206	91.7	ug/l	11906700	4	13.788	6495450	50.0
Naphthalene, 1-...	16.776	62.5	ug/l	8115730	4	13.788	6495450	50.0

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.		Date Collected:	06/04/25	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	06/04/25	
Client Sample ID:	MW-15-20250604		SDG No.:	Q2231	
Lab Sample ID:	Q2231-03		Matrix:	Water	
Analytical Method:	8260D		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086955.D	1		06/11/25 17:41	VN061125

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	5.20		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:	PARSONS Engineering of New York, Inc.			Date Collected:	06/04/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05			Date Received:	06/04/25
Client Sample ID:	MW-15-20250604			SDG No.:	Q2231
Lab Sample ID:	Q2231-03			Matrix:	Water
Analytical Method:	8260D			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086955.D	1		06/11/25 17:41	VN061125

[illegible]

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.		Date Collected:	06/04/25	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	06/04/25	
Client Sample ID:	MW-15-20250604		SDG No.:	Q2231	
Lab Sample ID:	Q2231-03		Matrix:	Water	
Analytical Method:	8260D		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086955.D	1		06/11/25 17:41	VN061125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
000092-52-4	Biphenyl	15.6	J		12.6	ug/L
103-65-1	n-propylbenzene	0.26	J		13.0	ug/L
000939-27-5	Naphthalene, 2-ethyl-	38.0	J		13.3	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.70	J		13.5	ug/L
000581-42-0	Naphthalene, 2,6-dimethyl-	34.1	J		13.6	ug/L
000581-40-8	Naphthalene, 2,3-dimethyl-	62.8	J		14.0	ug/L
000582-16-1	Naphthalene, 2,7-dimethyl-	16.3	J		14.1	ug/L
000575-41-7	Naphthalene, 1,3-dimethyl-	10.8	J		14.5	ug/L
000571-61-9	Naphthalene, 1,5-dimethyl-	17.2	J		14.5	ug/L
000571-58-4	Naphthalene, 1,4-dimethyl-	14.2	J		14.8	ug/L
000644-08-6	1,1-Biphenyl, 4-methyl-	5.50	J		15.1	ug/L
000083-32-9	Acenaphthene	61.8	J		15.5	ug/L
91-20-3	Naphthalene	20.3	J		15.6	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_N\Data\VN061125\
 Data File : VN086955.D
 Acq On : 11 Jun 2025 17:41
 Operator : JC\MD
 Sample : Q2231-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-15-20250604

Quant Time: Jun 12 01:37:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

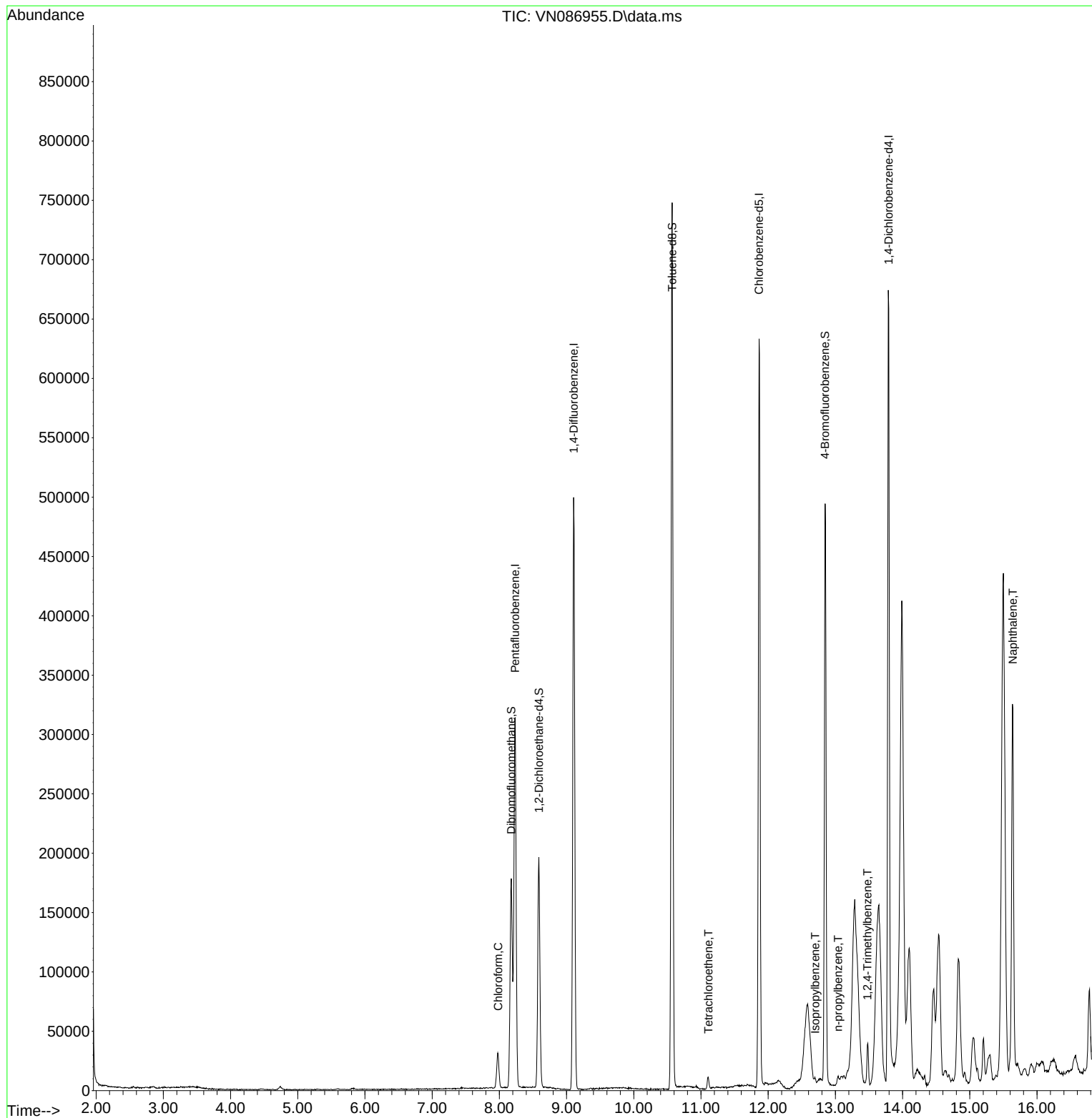
Internal Standards						
1) Pentafluorobenzene	8.235	168	256900	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	474084	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	406220	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	209580	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	154402	44.889	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	89.780%		
35) Dibromofluoromethane	8.177	113	136616	48.626	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.260%		
50) Toluene-d8	10.571	98	560070	50.356	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.720%		
62) 4-Bromofluorobenzene	12.847	95	200714	48.573	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	97.140%		
Target Compounds						
30) Chloroform	7.983	83	29938	5.211	ug/l	96
64) Tetrachloroethene	11.112	164	2566	0.998	ug/l #	82
73) Isopropylbenzene	12.700	105	4218	0.276	ug/l	99
78) n-propylbenzene	13.041	91	4805	0.259	ug/l	98
84) 1,2,4-Trimethylbenzene	13.476	105	21687	1.716	ug/l	99
95) Naphthalene	15.641	128	319050	20.281	ug/l	99

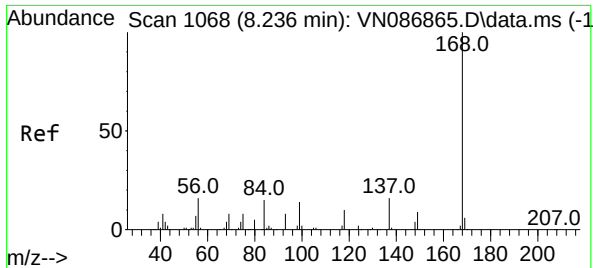
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086955.D
Acq On : 11 Jun 2025 17:41
Operator : JC\MD
Sample : Q2231-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-15-20250604

Quant Time: Jun 12 01:37:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

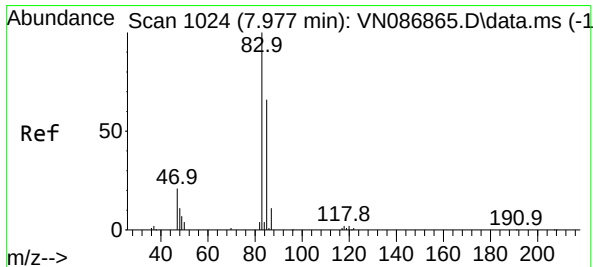
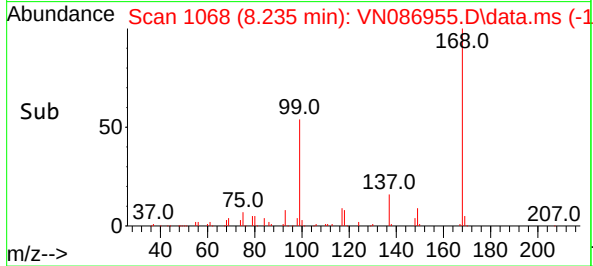
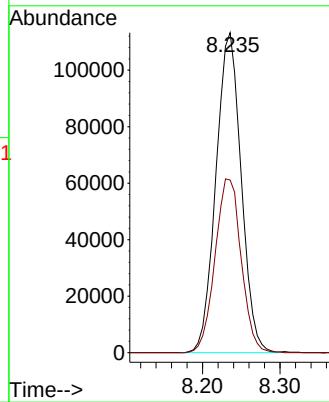
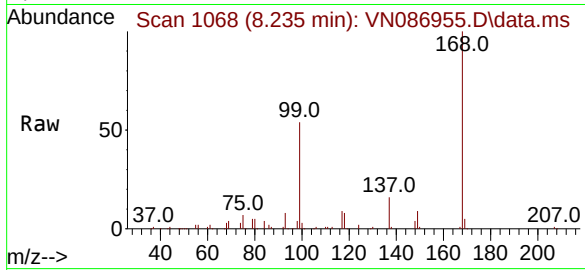




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.001 min
Lab File: VN086955.D
Acq: 11 Jun 2025 17:41

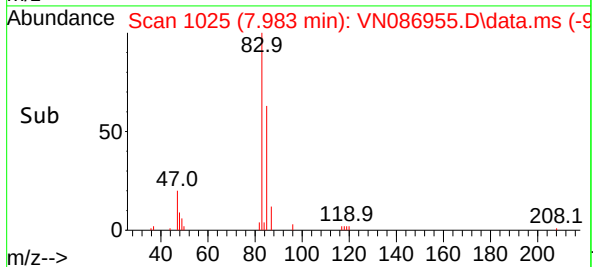
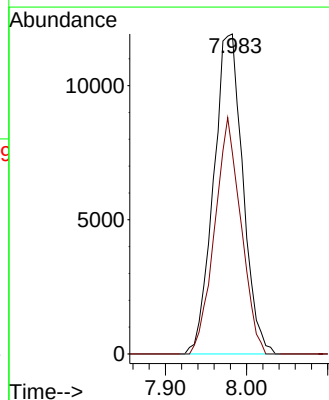
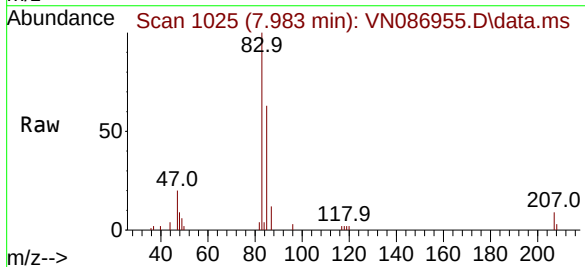
Instrument :
MSVOA_N
ClientSampleId :
MW-15-20250604

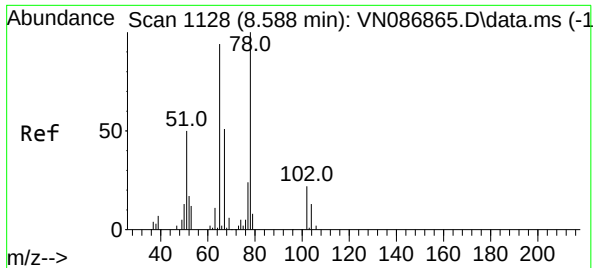
Tgt Ion:168 Resp: 256900
Ion Ratio Lower Upper
168 100
99 54.0 49.1 73.7



#30
Chloroform
Concen: 5.211 ug/l
RT: 7.983 min Scan# 1025
Delta R.T. 0.006 min
Lab File: VN086955.D
Acq: 11 Jun 2025 17:41

Tgt Ion: 83 Resp: 29938
Ion Ratio Lower Upper
83 100
85 62.9 52.9 79.3





#33

1,2-Dichloroethane-d4

Concen: 44.889 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN086955.D

Acq: 11 Jun 2025 17:41

Instrument :

MSVOA_N

ClientSampleId :

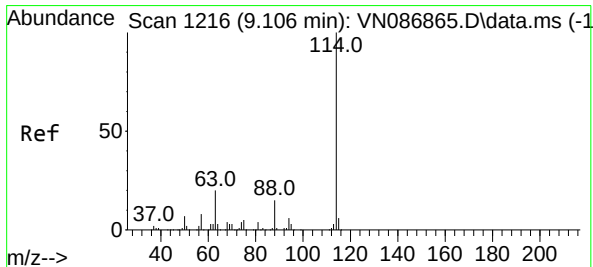
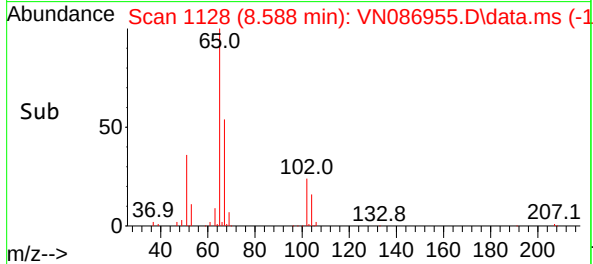
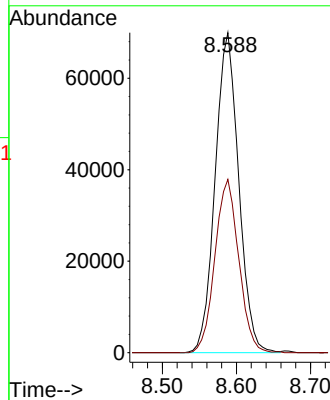
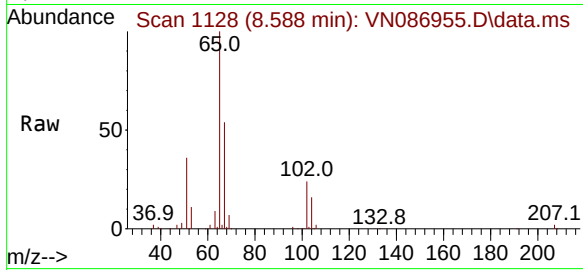
MW-15-20250604

Tgt Ion: 65 Resp: 154402

Ion Ratio Lower Upper

65 100

67 54.9 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN086955.D

Acq: 11 Jun 2025 17:41

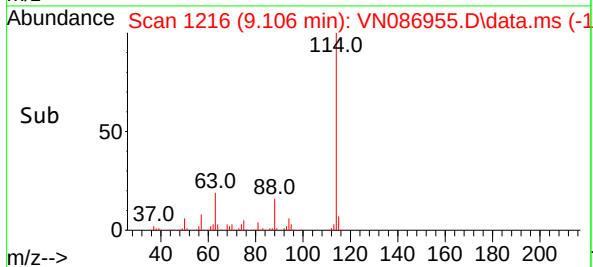
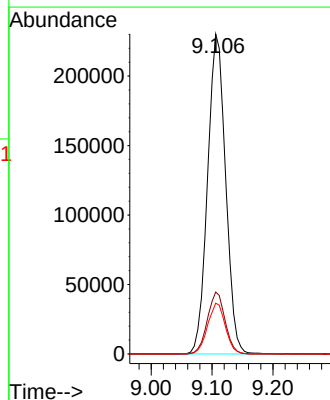
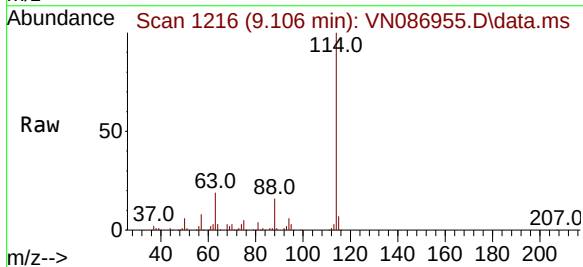
Tgt Ion: 114 Resp: 474084

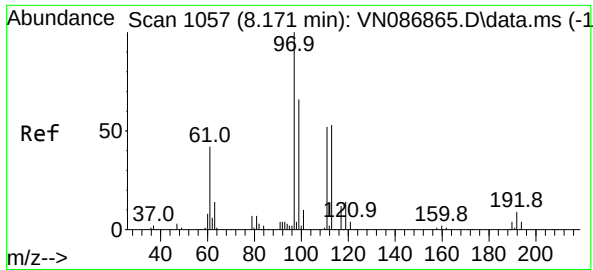
Ion Ratio Lower Upper

114 100

63 19.3 0.0 39.6

88 15.8 0.0 30.2





#35

Dibromofluoromethane

Concen: 48.626 ug/l

RT: 8.177 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN086955.D

Acq: 11 Jun 2025 17:41

Instrument :

MSVOA_N

ClientSampleId :

MW-15-20250604

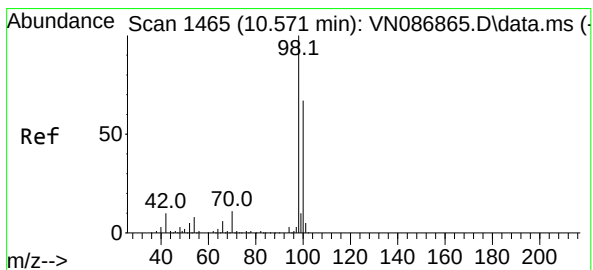
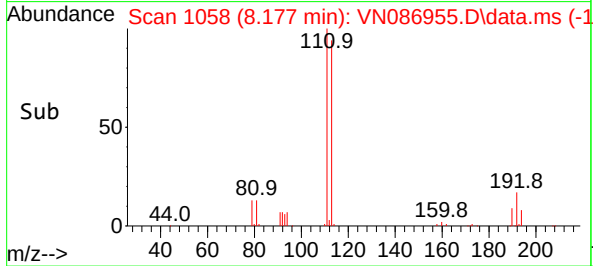
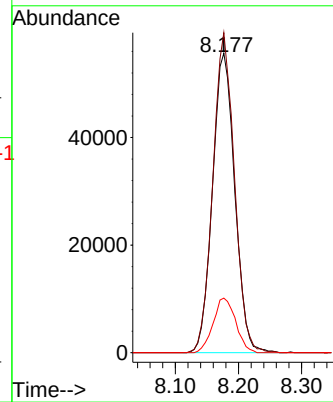
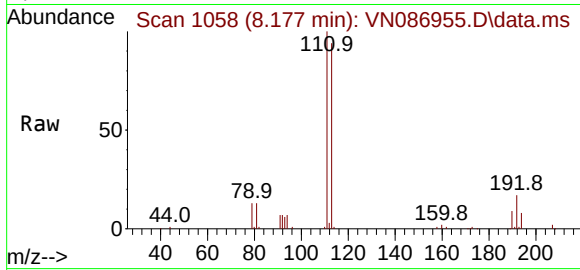
Tgt Ion:113 Resp: 136616

Ion Ratio Lower Upper

113 100

111 103.2 84.2 126.2

192 18.4 14.2 21.4



#50

Toluene-d8

Concen: 50.356 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN086955.D

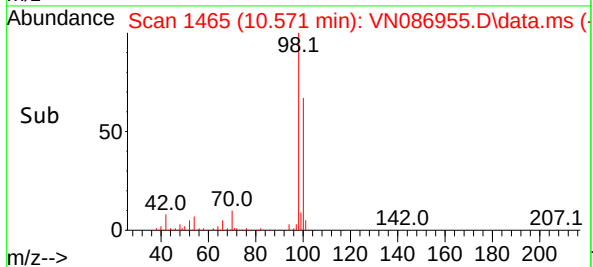
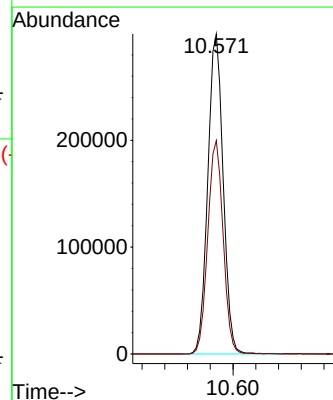
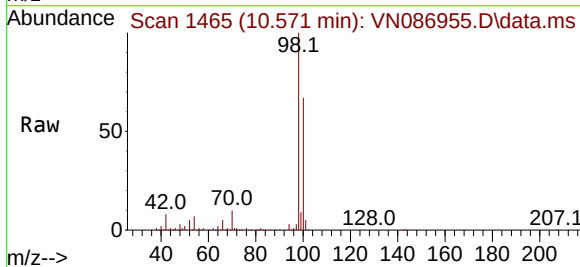
Acq: 11 Jun 2025 17:41

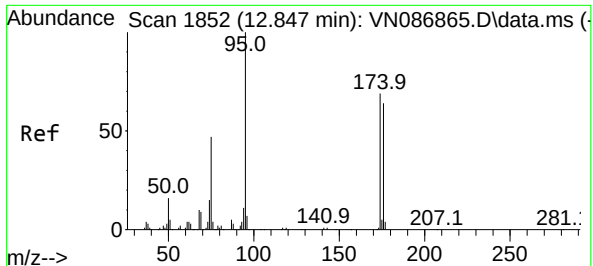
Tgt Ion: 98 Resp: 560070

Ion Ratio Lower Upper

98 100

100 66.7 53.4 80.0

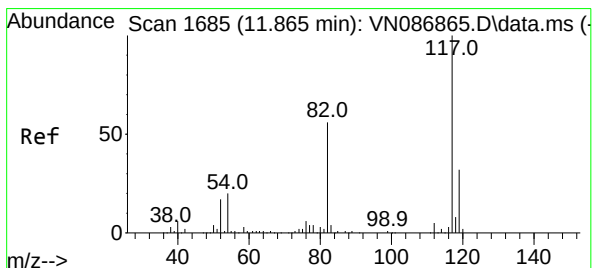
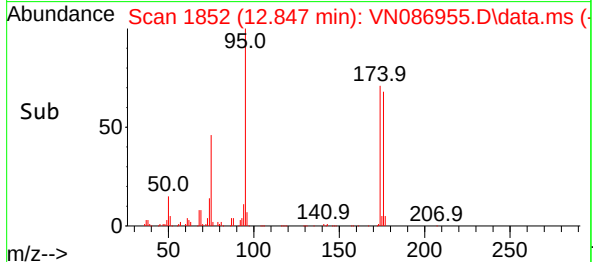
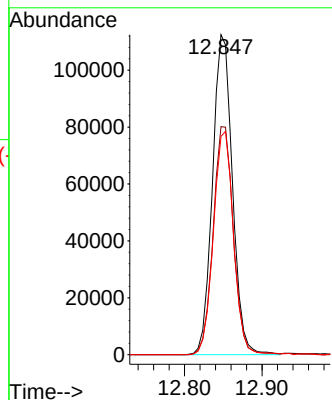
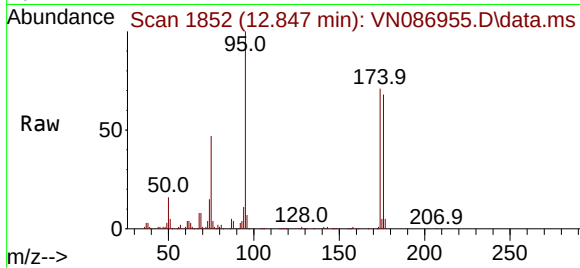




#62
4-Bromofluorobenzene
Concen: 48.573 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086955.D
Acq: 11 Jun 2025 17:41

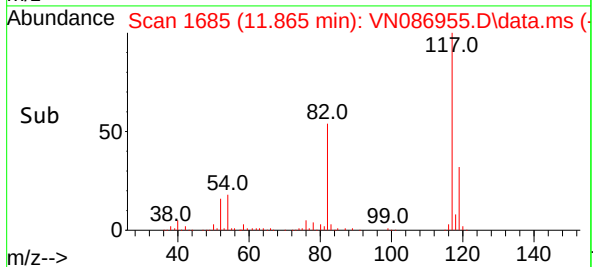
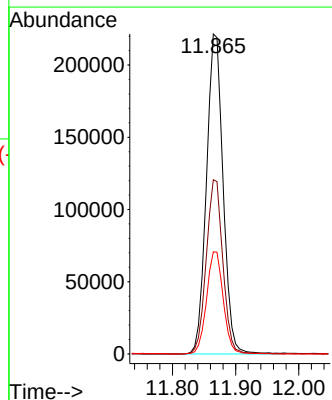
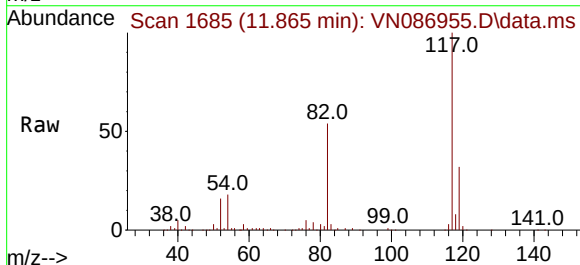
Instrument :
MSVOA_N
ClientSampleId :
MW-15-20250604

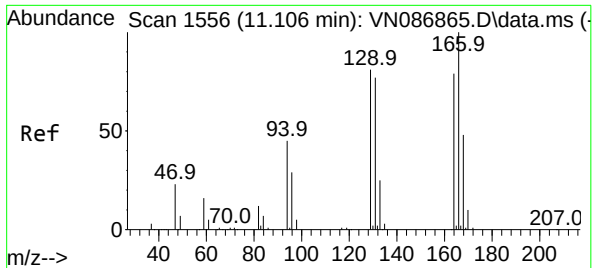
Tgt Ion: 95 Resp: 200714
Ion Ratio Lower Upper
95 100
174 72.3 0.0 141.8
176 70.6 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086955.D
Acq: 11 Jun 2025 17:41

Tgt Ion: 117 Resp: 406220
Ion Ratio Lower Upper
117 100
82 54.5 44.6 67.0
119 31.9 25.5 38.3

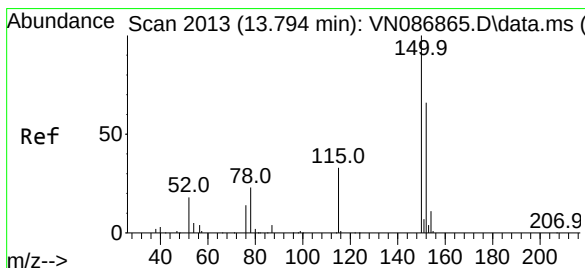
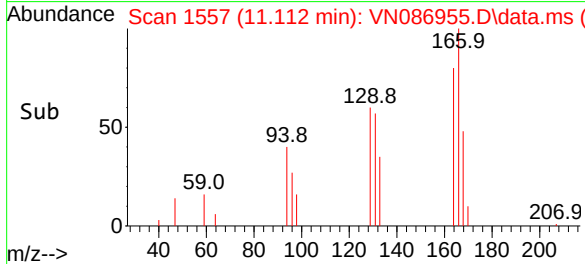
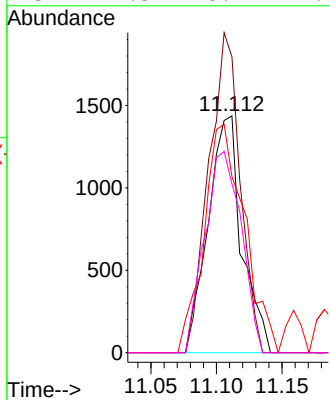
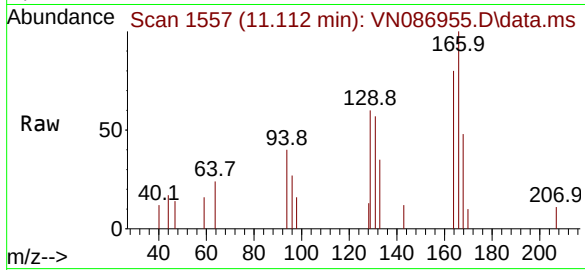




#64
Tetrachloroethene
Concen: 0.998 ug/l
RT: 11.112 min Scan# 1557
Delta R.T. 0.006 min
Lab File: VN086955.D
Acq: 11 Jun 2025 17:41

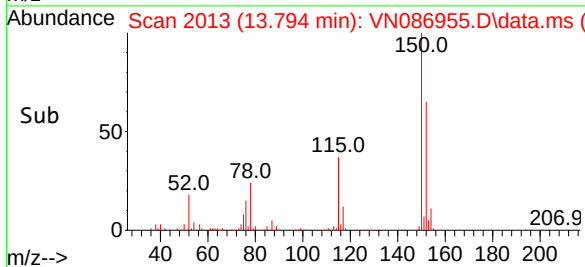
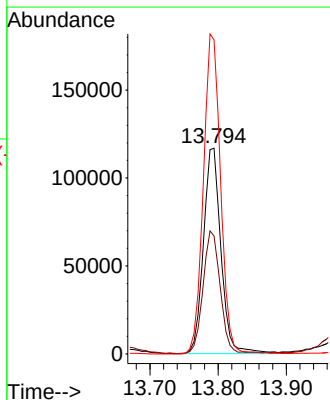
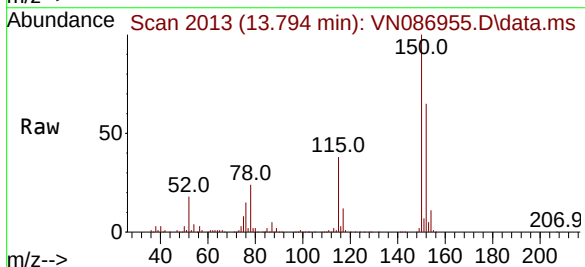
Instrument :
MSVOA_N
ClientSampleId :
MW-15-20250604

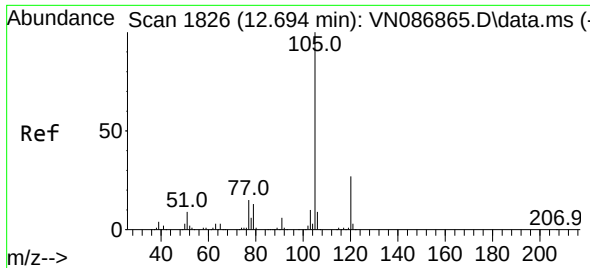
Tgt Ion:164 Resp: 2566
Ion Ratio Lower Upper
164 100
166 124.8 101.8 152.8
129 74.3 83.0 124.4#
131 71.3 78.2 117.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN086955.D
Acq: 11 Jun 2025 17:41

Tgt Ion:152 Resp: 209580
Ion Ratio Lower Upper
152 100
115 57.6 30.1 90.5
150 152.7 0.0 345.0

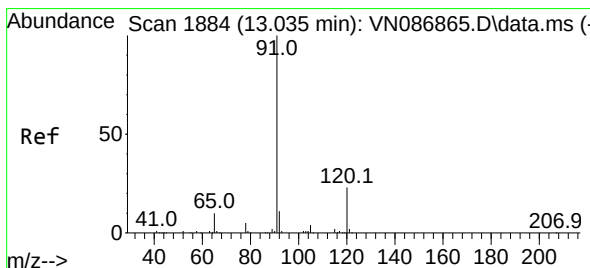
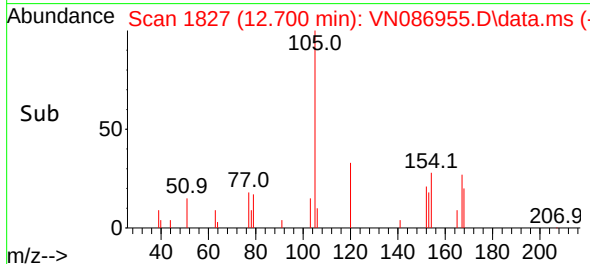
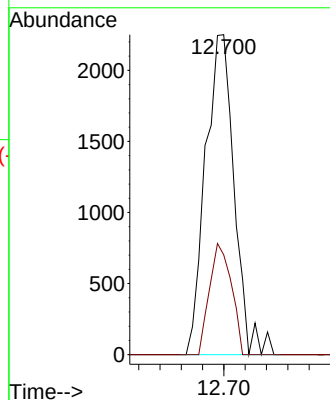
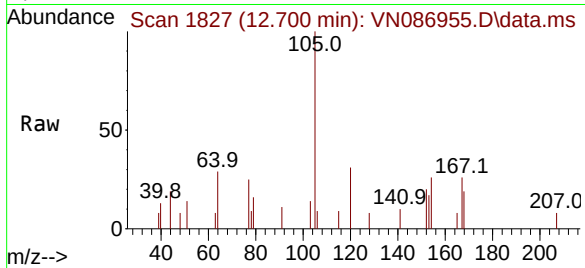




#73
Isopropylbenzene
Concen: 0.276 ug/l
RT: 12.700 min Scan# 1827
Delta R.T. 0.006 min
Lab File: VN086955.D
Acq: 11 Jun 2025 17:41

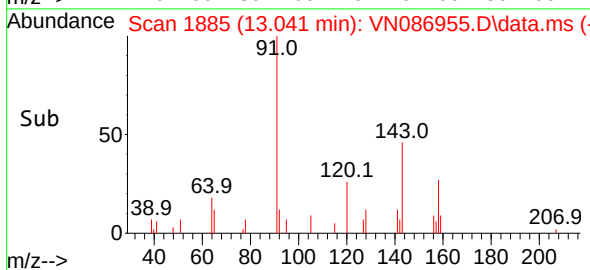
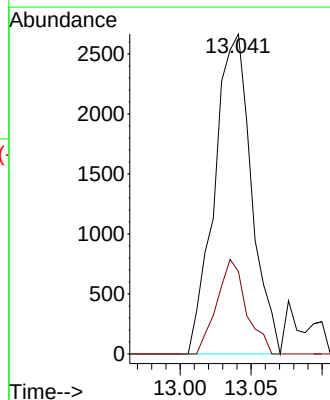
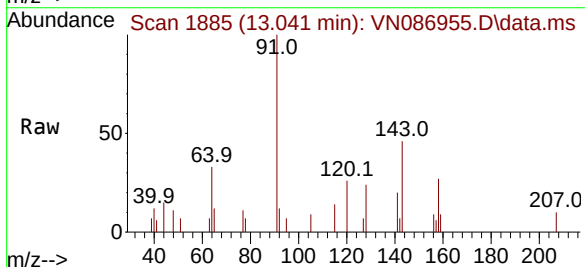
Instrument :
MSVOA_N
ClientSampleId :
MW-15-20250604

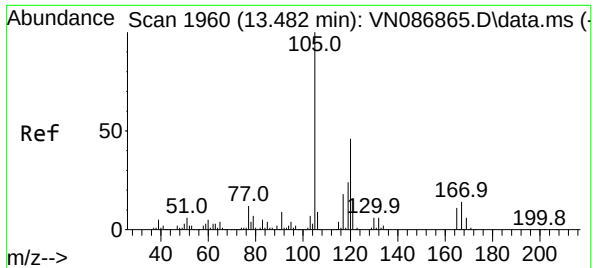
Tgt Ion:	105	Resp:	4218
Ion Ratio	Lower	Upper	
105	100		
120	26.5	13.5	40.4



#78
n-propylbenzene
Concen: 0.259 ug/l
RT: 13.041 min Scan# 1885
Delta R.T. 0.006 min
Lab File: VN086955.D
Acq: 11 Jun 2025 17:41

Tgt Ion:	91	Resp:	4805
Ion Ratio	Lower	Upper	
91	100		
120	23.7	11.4	34.2

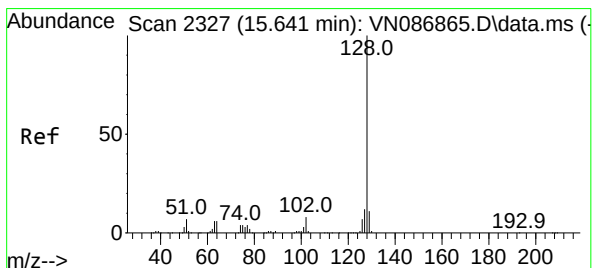
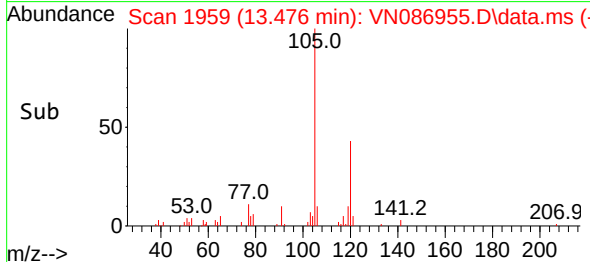
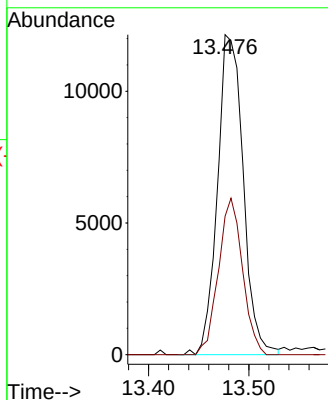
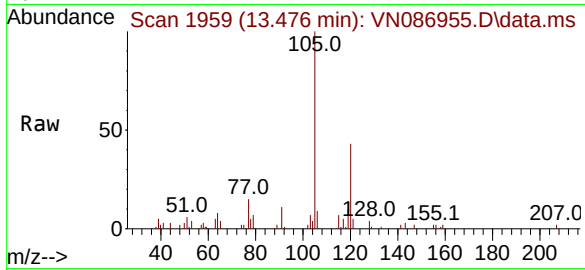




#84
1,2,4-Trimethylbenzene
Concen: 1.716 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.006 min
Lab File: VN086955.D
Acq: 11 Jun 2025 17:41

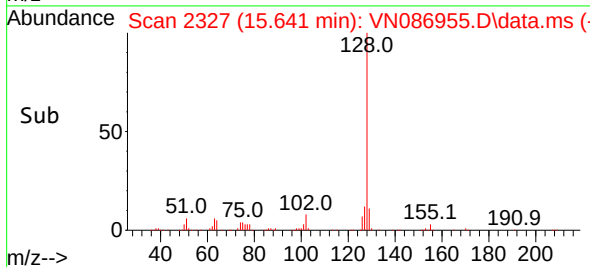
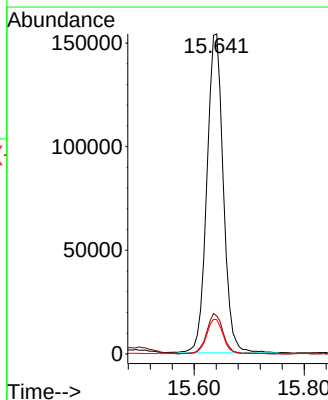
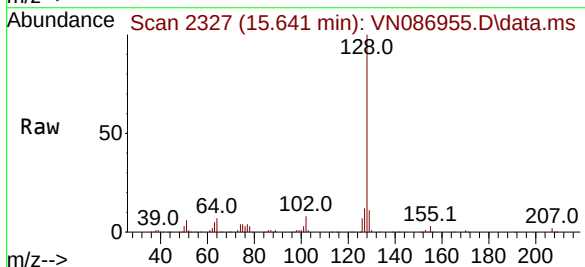
Instrument :
MSVOA_N
ClientSampleId :
MW-15-20250604

Tgt Ion:105 Resp: 21687
Ion Ratio Lower Upper
105 100
120 45.6 23.2 69.6



#95
Naphthalene
Concen: 20.281 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN086955.D
Acq: 11 Jun 2025 17:41

Tgt Ion:128 Resp: 319050
Ion Ratio Lower Upper
128 100
127 12.9 10.2 15.2
129 10.6 8.8 13.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
 Data File : VN086955.D
 Acq On : 11 Jun 2025 17:41
 Operator : JC\MD
 Sample : Q2231-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-15-20250604

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_N\methods\82N060625W.M
 Title : SW846 8260

Signal : TIC: VN086955.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.977	1014	1024	1032	rBV	29718	71097	4.58%	0.467%
2	8.177	1048	1058	1062	rBV	176231	417252	26.90%	2.739%
3	8.235	1062	1068	1079	rVB	311327	725125	46.75%	4.759%
4	8.588	1118	1128	1141	rVB	193963	433088	27.92%	2.843%
5	9.106	1206	1216	1226	rBV	499096	1023791	66.01%	6.720%
6	10.571	1456	1465	1477	rBV	747208	1408116	90.79%	9.242%
7	11.106	1549	1556	1563	rBV2	10441	20758	1.34%	0.136%
8	11.865	1677	1685	1698	rBV	630826	1154569	74.44%	7.578%
9	12.588	1789	1808	1823	rBV2	63387	359121	23.16%	2.357%
10	12.847	1845	1852	1865	rVB	489826	868473	56.00%	5.700%
11	13.041	1878	1885	1890	rBV2	8048	20075	1.29%	0.132%
12	13.288	1904	1927	1952	rVB	154528	937093	60.42%	6.151%
13	13.482	1953	1960	1965	rVB	35210	60097	3.87%	0.394%
14	13.647	1965	1988	2006	rBV2	151805	841678	54.27%	5.524%
15	13.788	2006	2012	2027	rBV	666427	1234063	79.57%	8.100%
16	13.988	2030	2046	2056	rVV2	402967	1550911	100.00%	10.180%
17	14.100	2057	2065	2076	rVB4	109889	402532	25.95%	2.642%
18	14.464	2113	2127	2131	rBV3	80730	265229	17.10%	1.741%
19	14.535	2132	2139	2149	rVB3	118930	423912	27.33%	2.782%
20	14.829	2178	2189	2202	rBV3	102001	350675	22.61%	2.302%
21	15.053	2217	2227	2235	rBV5	37557	134605	8.68%	0.884%
22	15.206	2246	2253	2258	rBV	35331	72686	4.69%	0.477%
23	15.300	2259	2269	2277	rVB6	21439	79301	5.11%	0.521%
24	15.500	2287	2303	2316	rBV	424241	1526060	98.40%	10.017%
25	15.635	2316	2326	2335	rBV	309097	655817	42.29%	4.305%
26	15.917	2367	2374	2380	rBV7	8986	26962	1.74%	0.177%
27	16.576	2477	2486	2496	rVB8	14571	52738	3.40%	0.346%
28	16.782	2513	2521	2522	rBV	66528	119554	7.71%	0.785%

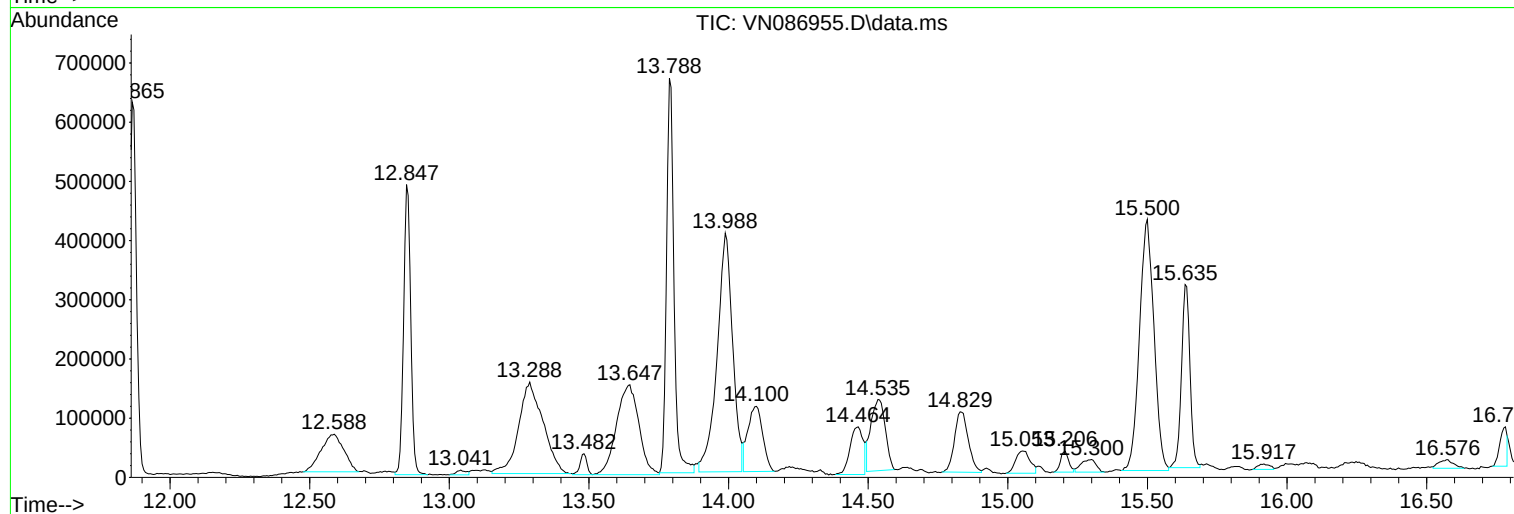
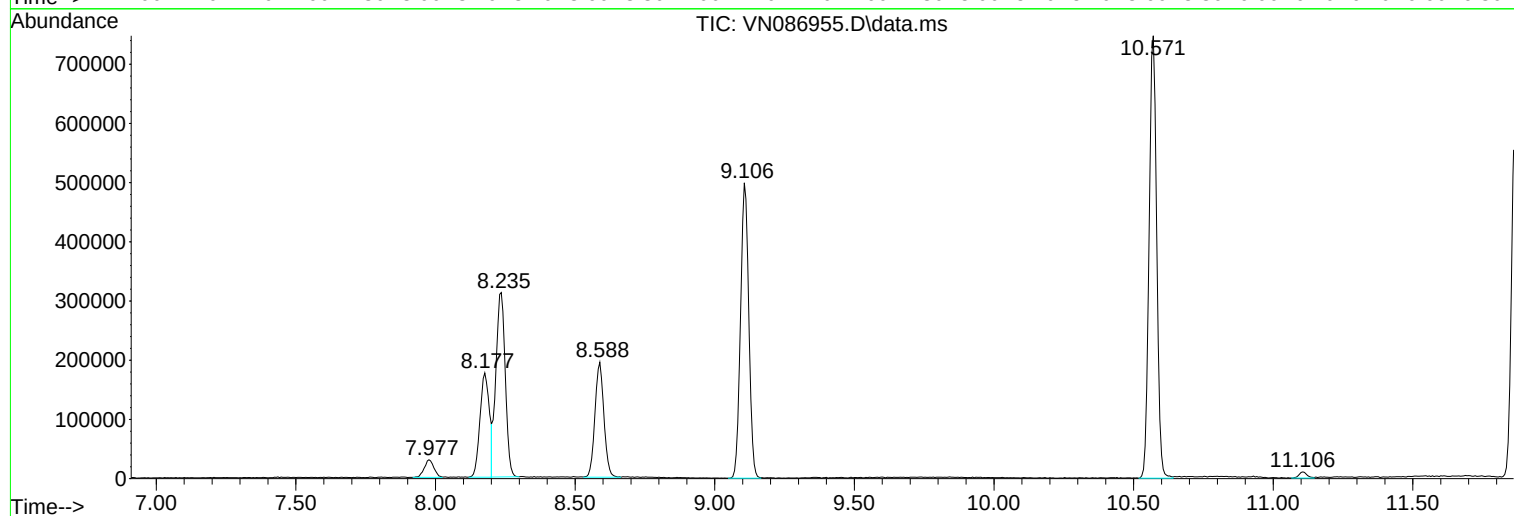
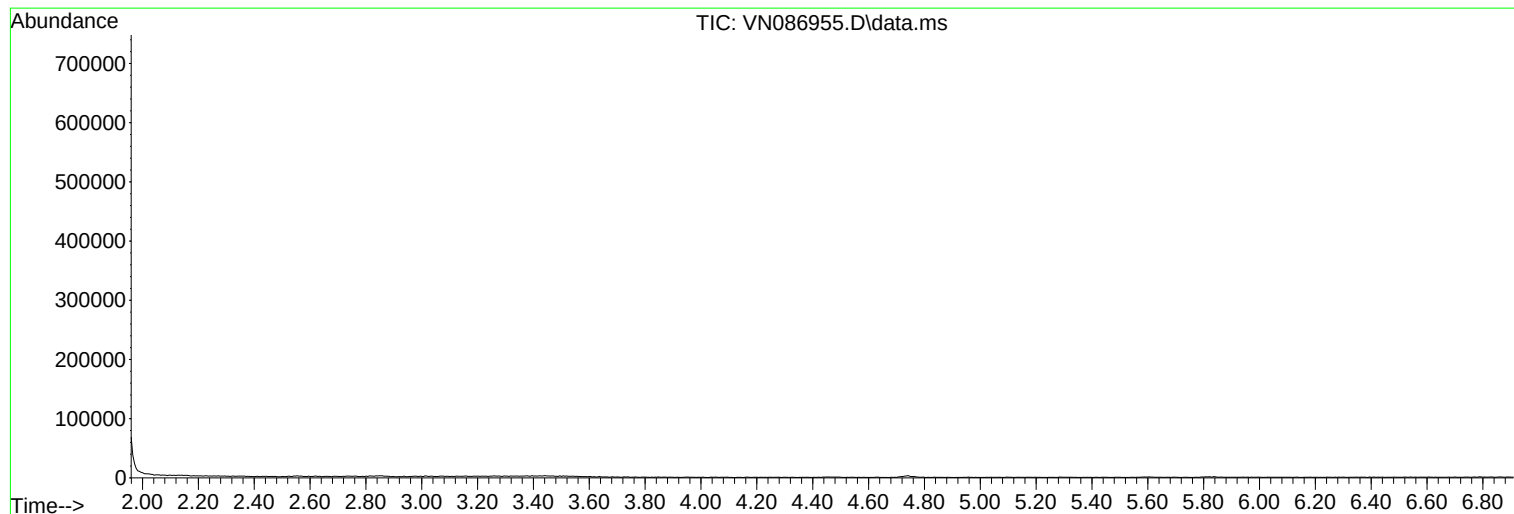
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Acq On : 11 Jun 2025 17:41
Operator : JC\MD
Sample : Q2231-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-15-20250604

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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



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Data File : VN086955.D
Acq On : 11 Jun 2025 17:41
Operator : JC\MD
Sample : Q2231-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-15-20250604

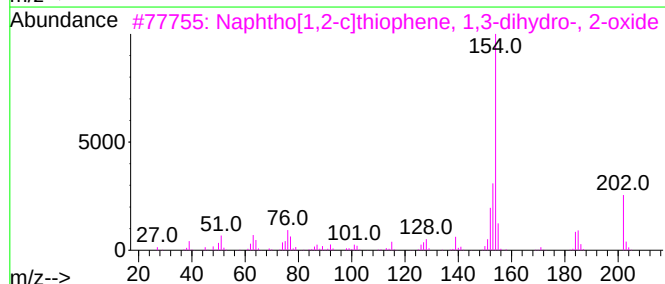
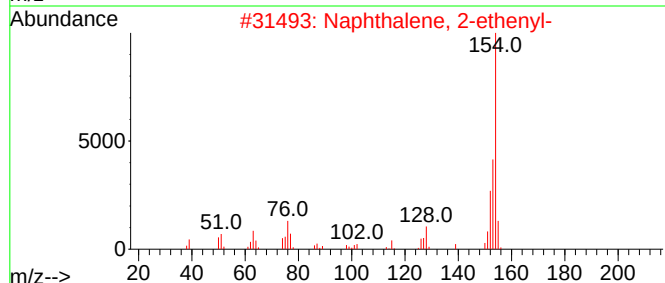
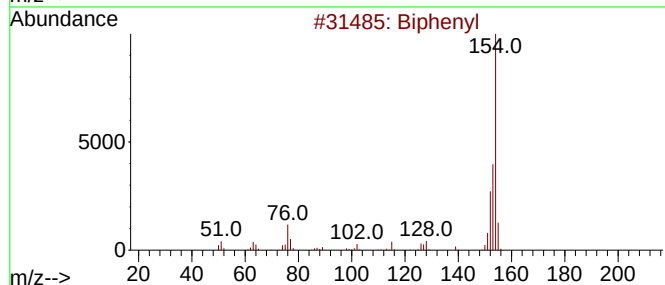
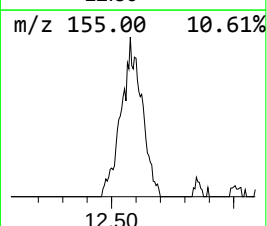
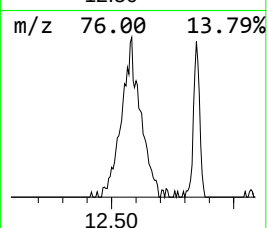
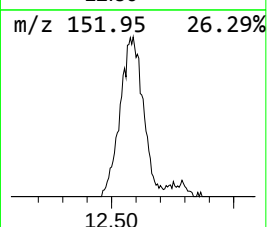
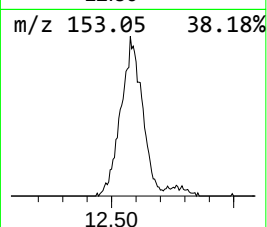
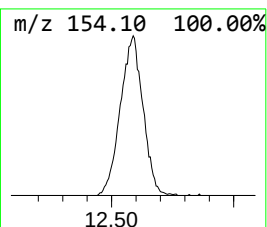
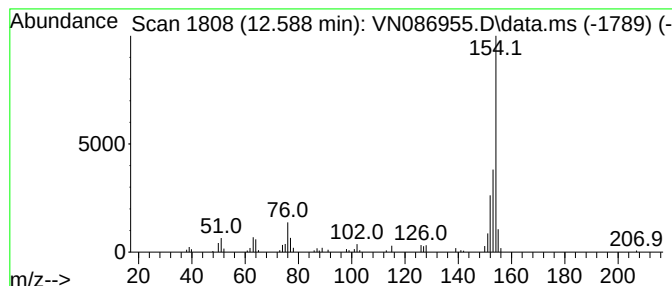
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Quant Title : SW846 8260

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

Peak Number 1 Biphenyl Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.588	15.55 ug/l	359121	Chlorobenzene-d5	11.865

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Biphenyl	154	C12H10	000092-52-4	95
2			Naphthalene, 2-ethenyl-	154	C12H10	000827-54-3	87
3			Naphtho[1,2-c]thiophene, 1,3-dih...	202	C12H100S	031739-49-8	56
4			Acenaphthene	154	C12H10	000083-32-9	49
5			Propanedinitrile, 2,4,6-cyclohep...	154	C10H6N2	002860-54-0	46



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086955.D
Acq On : 11 Jun 2025 17:41
Operator : JC\MD
Sample : Q2231-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-15-20250604

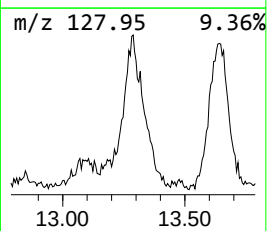
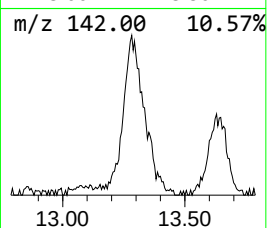
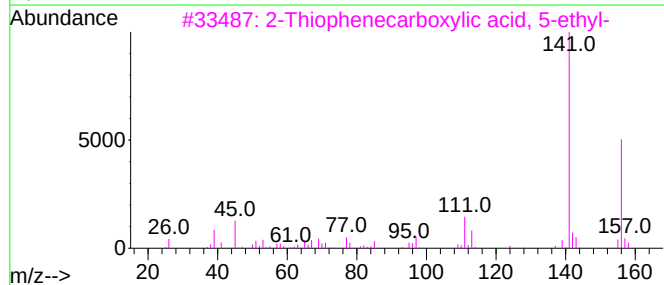
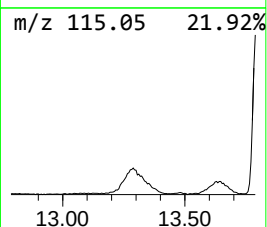
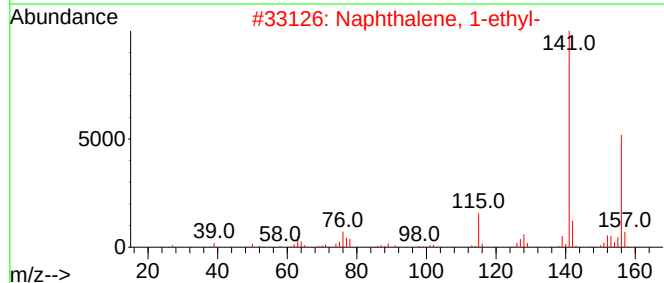
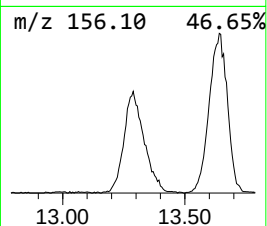
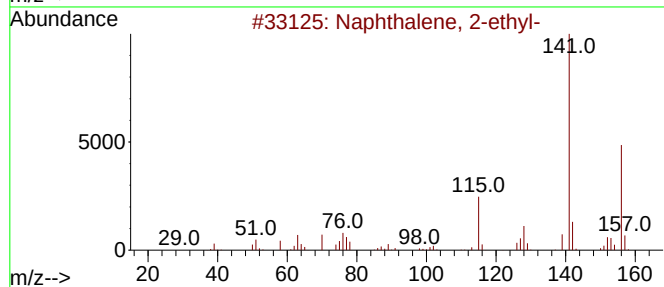
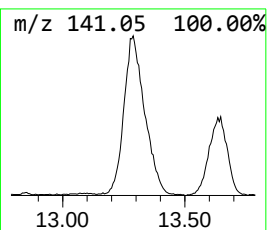
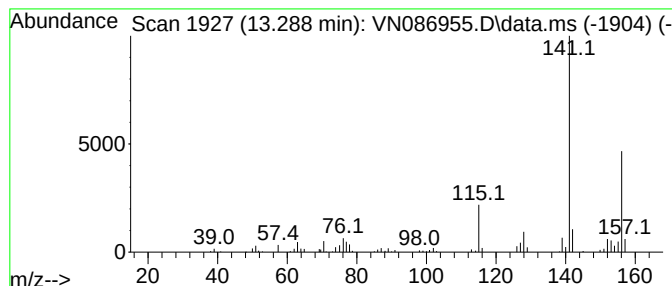
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Quant Title : SW846 8260

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

Peak Number 2 Naphthalene, 2-ethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.288	37.97 ug/l	937093	1,4-Dichlorobenzene-d4	13.794

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	96
2			Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	95
3			2-Thiophenecarboxylic acid, 5-et...	156	C7H8O2S	023229-72-3	59
4			2,4-Difluoromesitylene	156	C9H10F2	000392-61-0	59
5			5-Acetyl-2-amino-4-methylthiazole	156	C6H8N2OS	030748-47-1	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086955.D
Acq On : 11 Jun 2025 17:41
Operator : JC\MD
Sample : Q2231-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-15-20250604

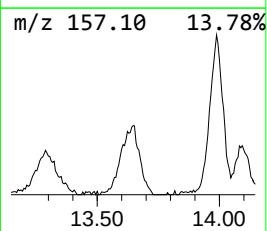
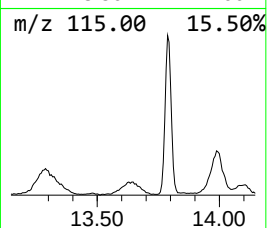
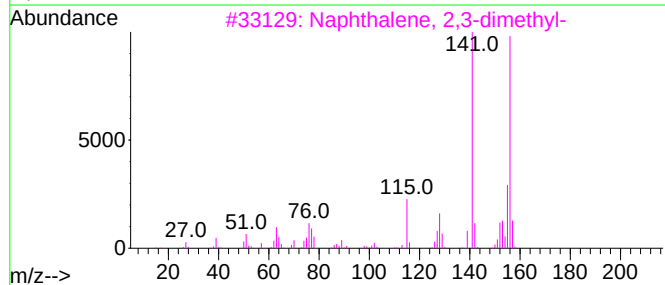
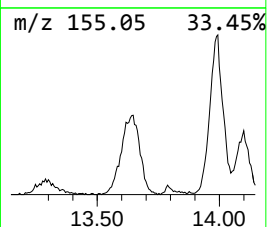
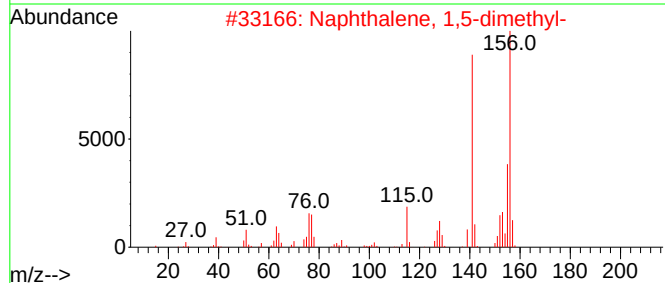
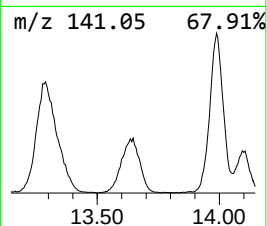
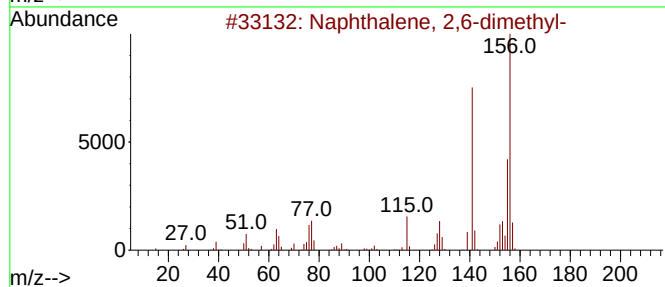
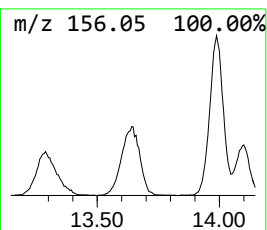
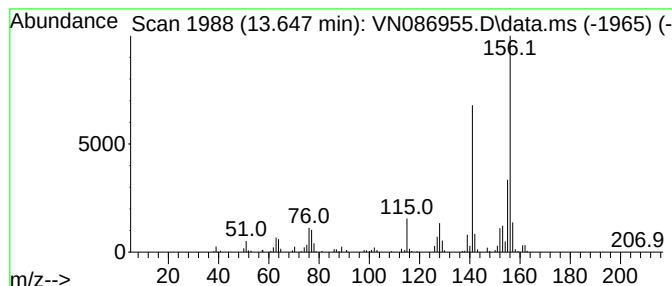
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Quant Title : SW846 8260

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

Peak Number 3 Naphthalene, 2,6-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.647	34.10 ug/l	841678	1,4-Dichlorobenzene-d4	13.794

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	98
2			Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	98
3			Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
4			Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
5			Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086955.D
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Operator : JC\MD
Sample : Q2231-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-15-20250604

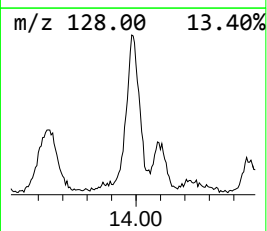
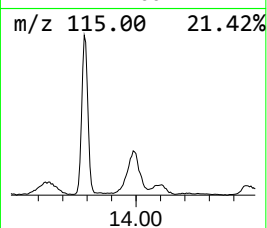
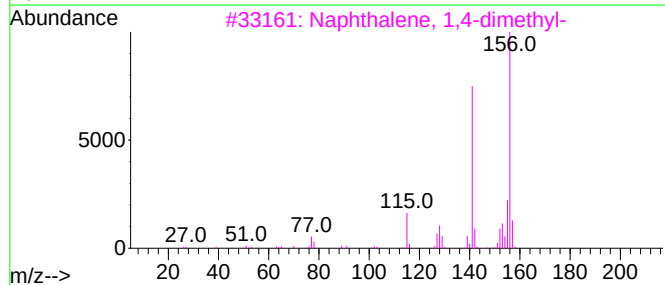
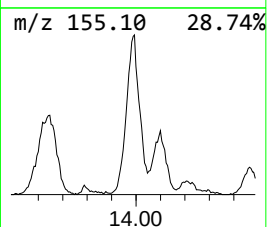
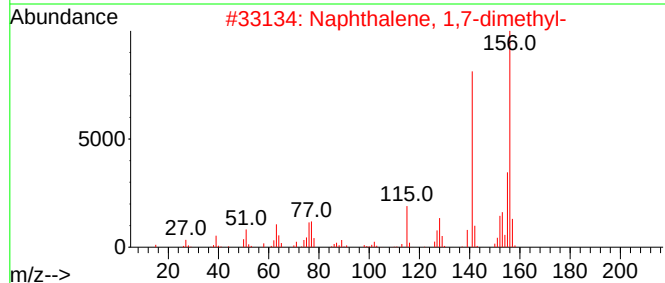
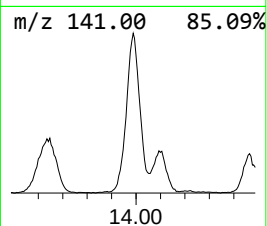
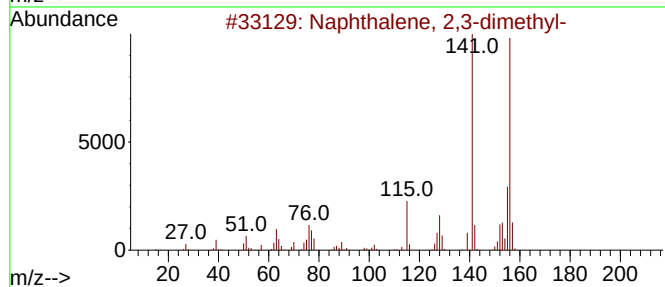
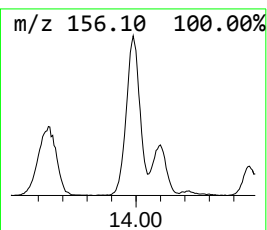
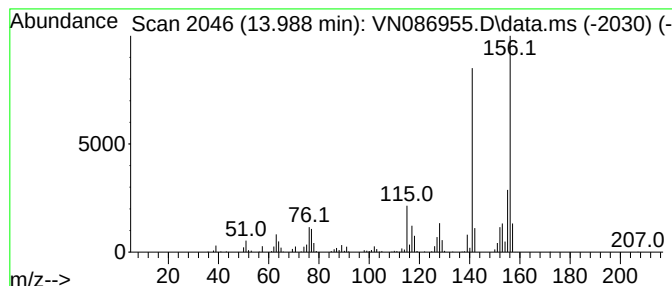
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Quant Title : SW846 8260

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

Peak Number 4 Naphthalene, 2,3-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.988	62.84 ug/l	1550910	1,4-Dichlorobenzene-d4	13.794

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2			Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	98
3			Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
4			Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97
5			Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086955.D
Acq On : 11 Jun 2025 17:41
Operator : JC\MD
Sample : Q2231-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-15-20250604

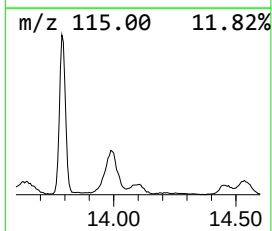
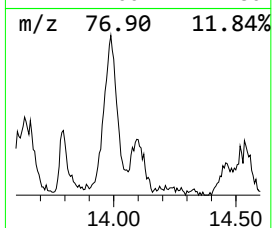
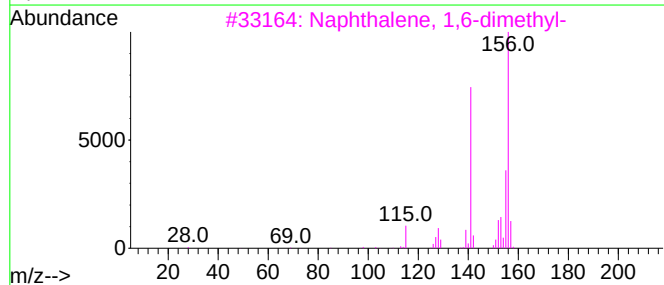
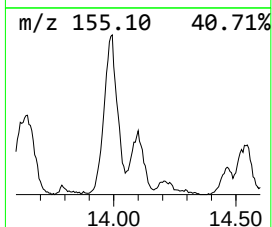
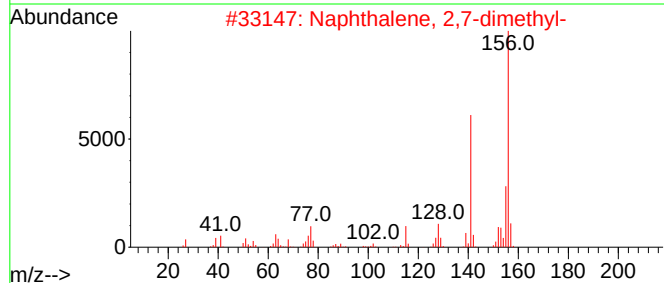
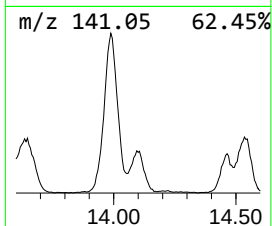
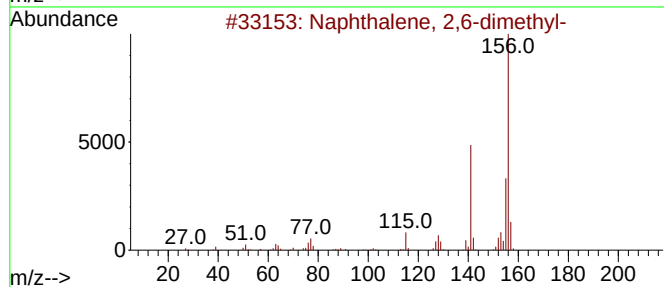
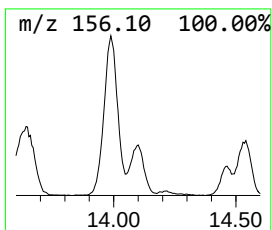
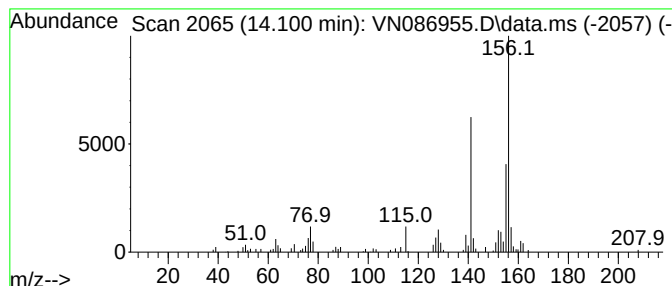
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Quant Title : SW846 8260

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

Peak Number 5 Naphthalene, 2,7-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.100	16.31 ug/l	402532	1,4-Dichlorobenzene-d4	13.794

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96
2			Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96
3			Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
4			Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	95
5			Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	95



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086955.D
Acq On : 11 Jun 2025 17:41
Operator : JC\MD
Sample : Q2231-03
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ALS Vial : 17 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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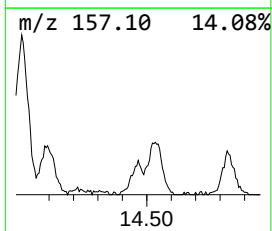
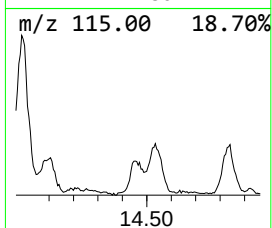
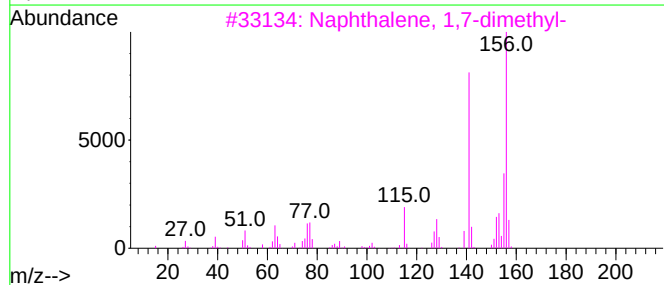
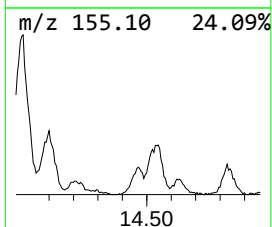
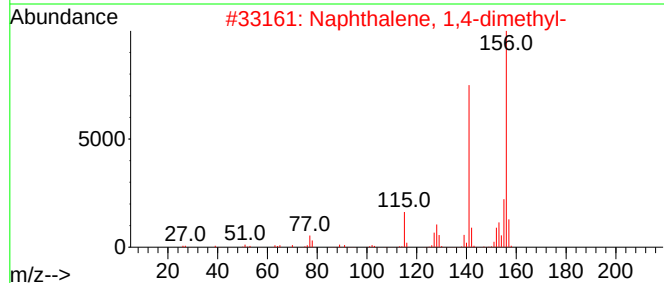
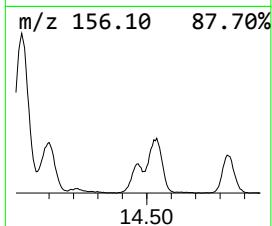
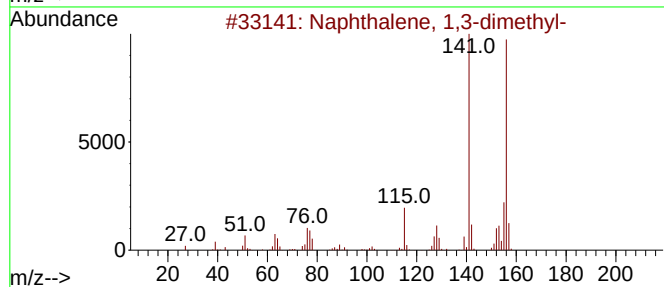
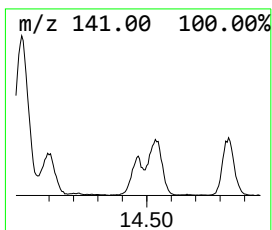
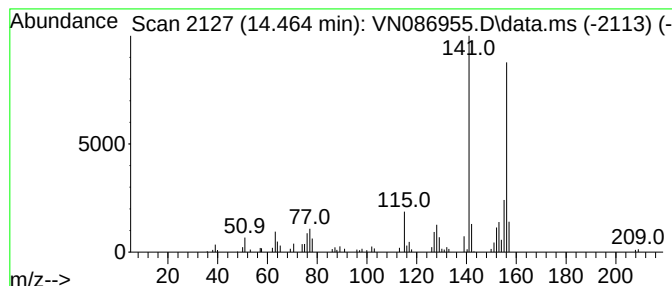
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Quant Title : SW846 8260

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

Peak Number 6 Naphthalene, 1,3-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.464	10.75 ug/l	265229	1,4-Dichlorobenzene-d4	13.794

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	98
2			Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
3			Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
4			Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96
5			Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	96



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086955.D
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Operator : JC\MD
Sample : Q2231-03
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ALS Vial : 17 Sample Multiplier: 1

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MSVOA_N
ClientSampleId :
MW-15-20250604

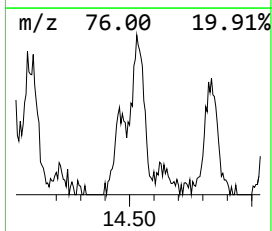
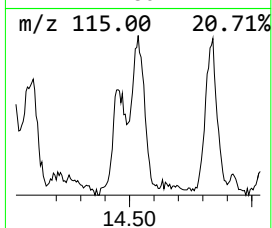
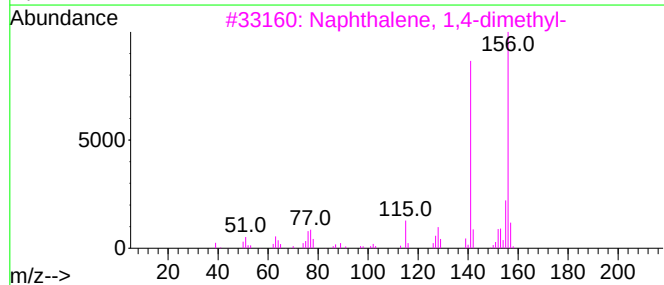
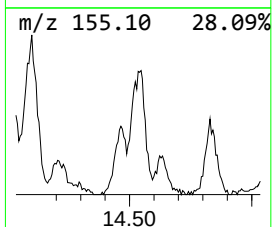
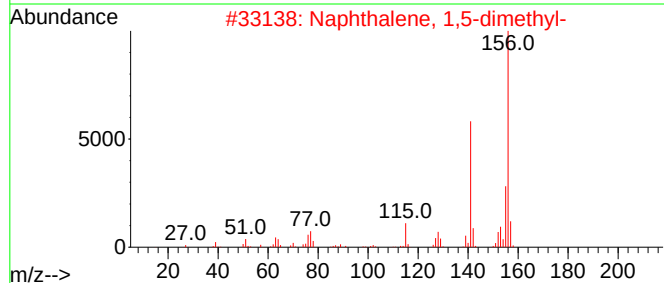
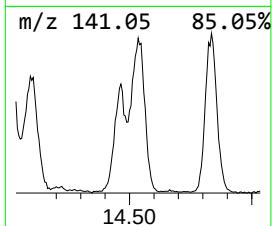
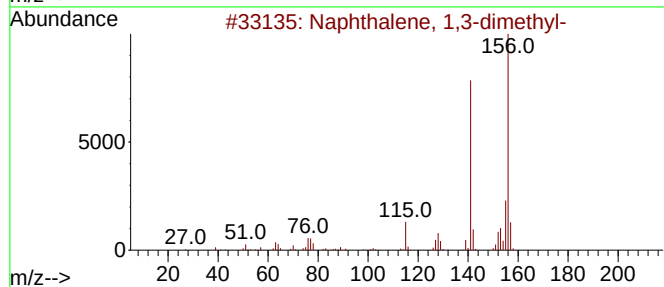
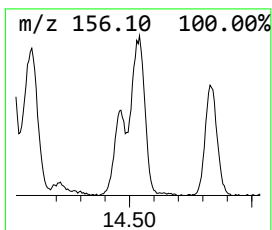
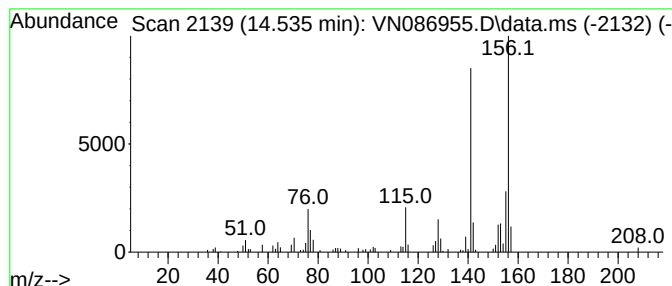
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Quant Title : SW846 8260

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

Peak Number 7 Naphthalene, 1,5-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.535	17.18 ug/l	423912	1,4-Dichlorobenzene-d4	13.794

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
2			Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	95
3			Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	95
4			Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	95
5			Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	94



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086955.D
Acq On : 11 Jun 2025 17:41
Operator : JC\MD
Sample : Q2231-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-15-20250604

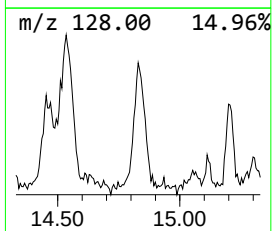
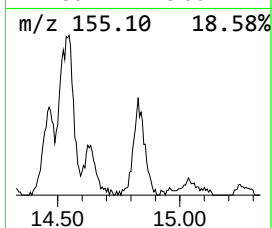
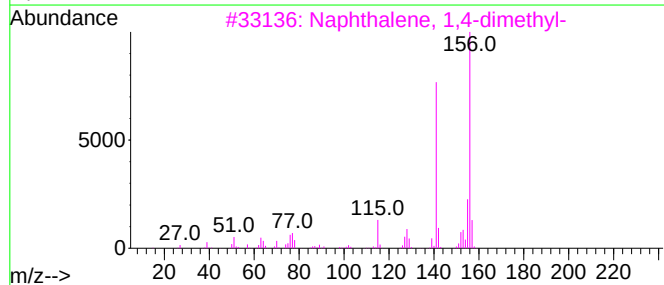
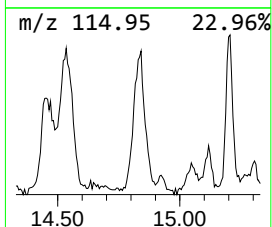
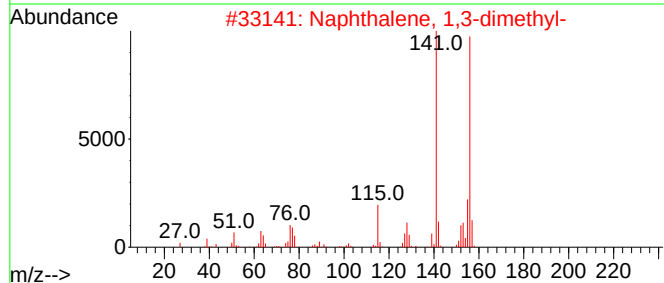
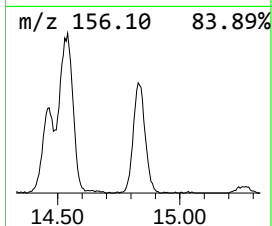
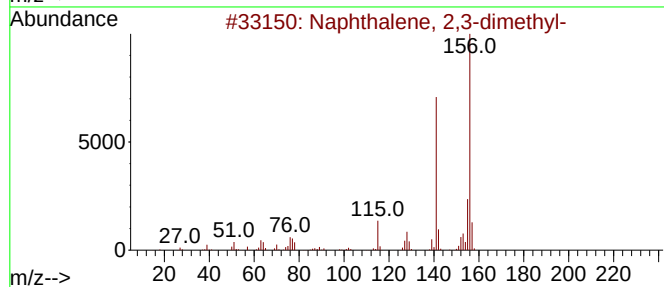
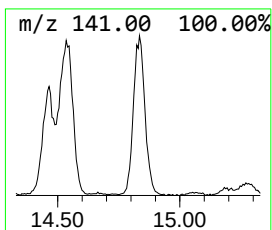
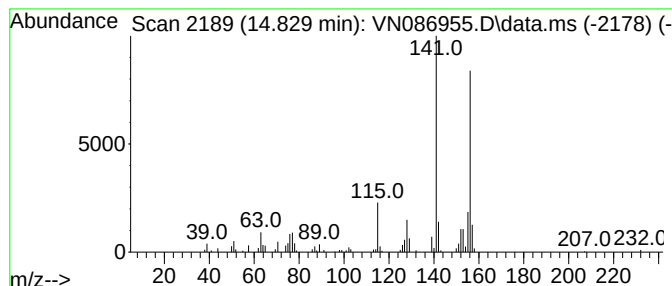
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Quant Title : SW846 8260

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

Peak Number 8 Naphthalene, 1,4-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.829	14.21 ug/l	350675	1,4-Dichlorobenzene-d4	13.794

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	95
2			Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	95
3			Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	94
4			Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	93
5			Naphthalene, 1,8-dimethyl-	156	C12H12	000569-41-5	93



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086955.D
Acq On : 11 Jun 2025 17:41
Operator : JC\MD
Sample : Q2231-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-15-20250604

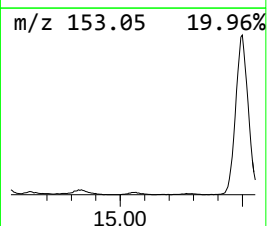
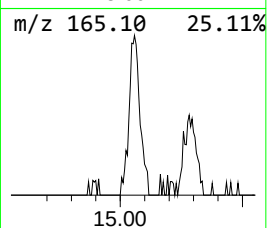
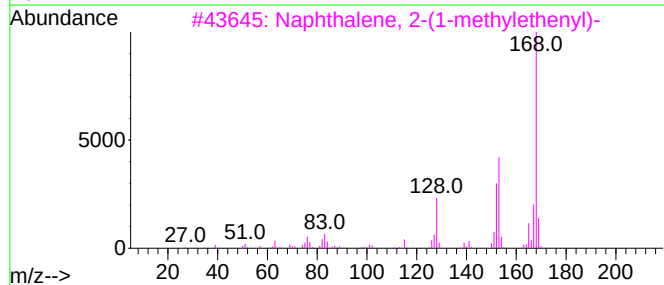
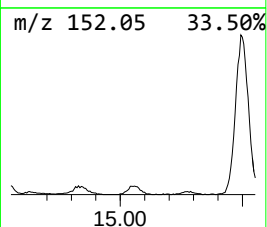
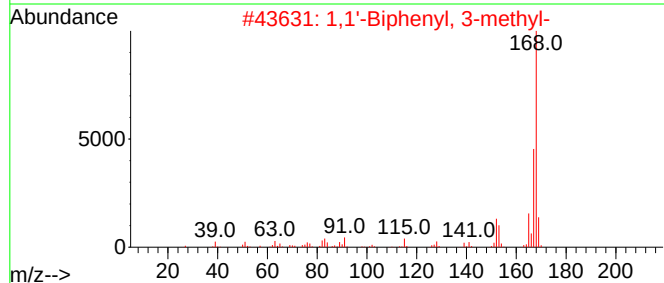
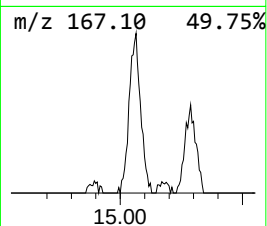
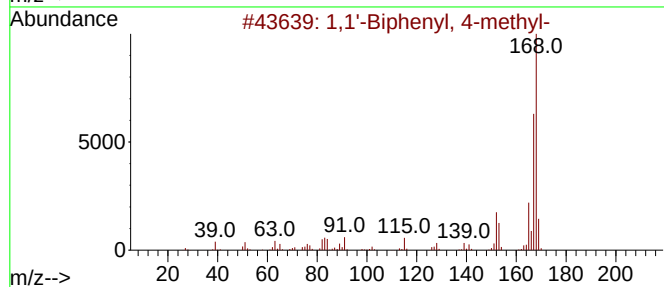
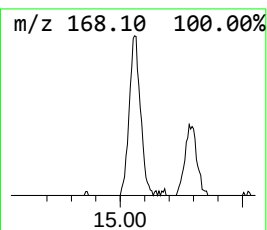
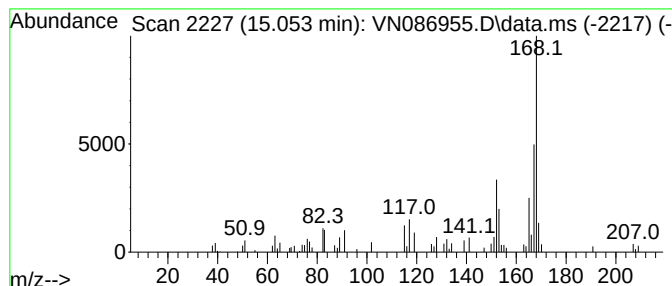
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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

Peak Number 9 1,1'-Biphenyl, 4-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.053	5.45 ug/l	134605	1,4-Dichlorobenzene-d4	13.794

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	95
2			1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	95
3			Naphthalene, 2-(1-methylethenyl)-	168	C13H12	003710-23-4	49
4			Diphenylmethane	168	C13H12	000101-81-5	49
5			6-Methylquinoline-2-carbonitrile	168	C11H8N2	1000409-51-6	47



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086955.D
Acq On : 11 Jun 2025 17:41
Operator : JC\MD
Sample : Q2231-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

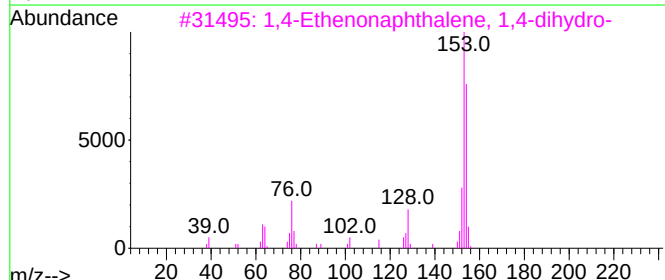
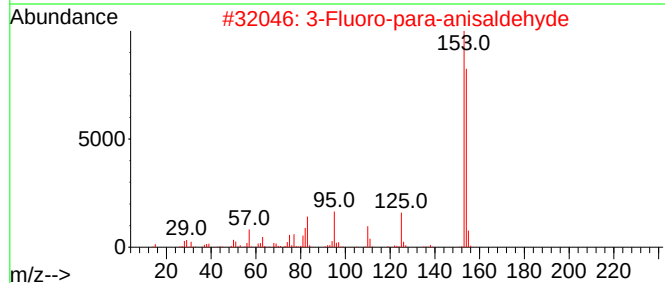
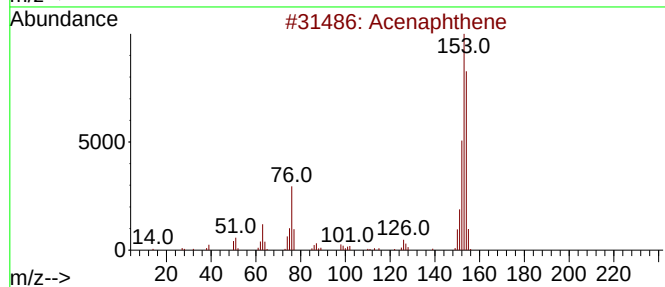
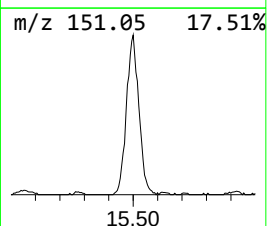
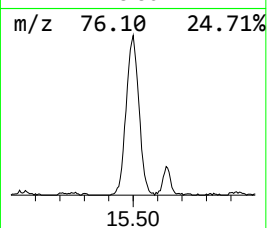
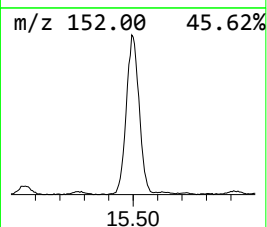
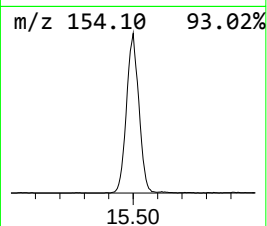
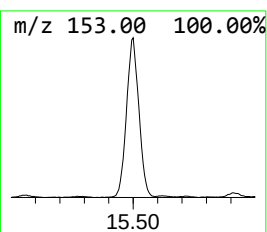
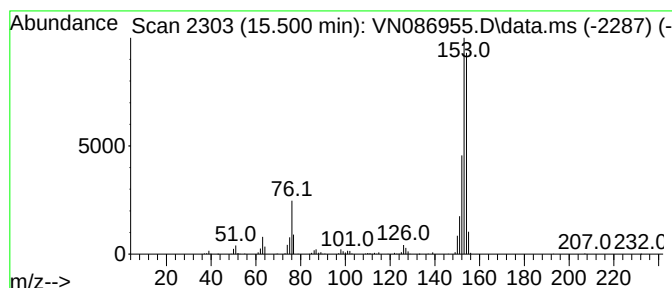
Instrument :
MSVOA_N
ClientSampleId :
MW-15-20250604

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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

Peak Number 10 Acenaphthene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.	
15.500	61.83 ug/l	1526060	1,4-Dichlorobenzene-d4	13.794	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acenaphthene	154	C12H10	000083-32-9	90
2	3-Fluoro-para-anisaldehyde	154	C8H7FO2	000351-54-2	53
3	1,4-Ethenonaphthalene, 1,4-dihydro-	154	C12H10	007322-47-6	45
4	.beta.-(1-Naphthyl)acrylic acid	198	C13H10O2	013026-12-5	38
5	Biphenyl	154	C12H10	000092-52-4	38



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086955.D
Acq On : 11 Jun 2025 17:41
Operator : JC\MD
Sample : Q2231-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-15-20250604

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.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
Biphenyl	12.588	15.6	ug/l	359121	3	11.865	1154570	50.0
Naphthalene, 2-...	13.288	38.0	ug/l	937093	4	13.794	1234060	50.0
Naphthalene, 2,...	13.647	34.1	ug/l	841678	4	13.794	1234060	50.0
Naphthalene, 2,...	13.988	62.8	ug/l	1550910	4	13.794	1234060	50.0
Naphthalene, 2,...	14.100	16.3	ug/l	402532	4	13.794	1234060	50.0
Naphthalene, 1,...	14.464	10.8	ug/l	265229	4	13.794	1234060	50.0
Naphthalene, 1,...	14.535	17.2	ug/l	423912	4	13.794	1234060	50.0
Naphthalene, 1,...	14.829	14.2	ug/l	350675	4	13.794	1234060	50.0
1,1'-Biphenyl, ...	15.053	5.5	ug/l	134605	4	13.794	1234060	50.0
Acenaphthene	15.500	61.8	ug/l	1526060	4	13.794	1234060	50.0

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.		Date Collected:	06/04/25	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	06/04/25	
Client Sample ID:	MW-16D-20250604		SDG No.:	Q2231	
Lab Sample ID:	Q2231-04		Matrix:	Water	
Analytical Method:	8260D		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086956.D	1		06/11/25 18:04	VN061125

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	J	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	11.7		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:	PARSONS Engineering of New York, Inc.	Date Collected:	06/04/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/04/25
Client Sample ID:	MW-16D-20250604	SDG No.:	Q2231
Lab Sample ID:	Q2231-04	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086956.D	1		06/11/25 18:04	VN061125

[illegible]

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	06/04/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/04/25
Client Sample ID:	MW-16D-20250604	SDG No.:	Q2231
Lab Sample ID:	Q2231-04	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086956.D	1		06/11/25 18:04	VN061125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
95-63-6	1,2,4-Trimethylbenzene	0.73	J		13.5	ug/L
91-20-3	Naphthalene	6.00	J		15.6	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_N\Data\VN061125\
 Data File : VN086956.D
 Acq On : 11 Jun 2025 18:04
 Operator : JC\MD
 Sample : Q2231-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-16D-20250604

Quant Time: Jun 12 01:37:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

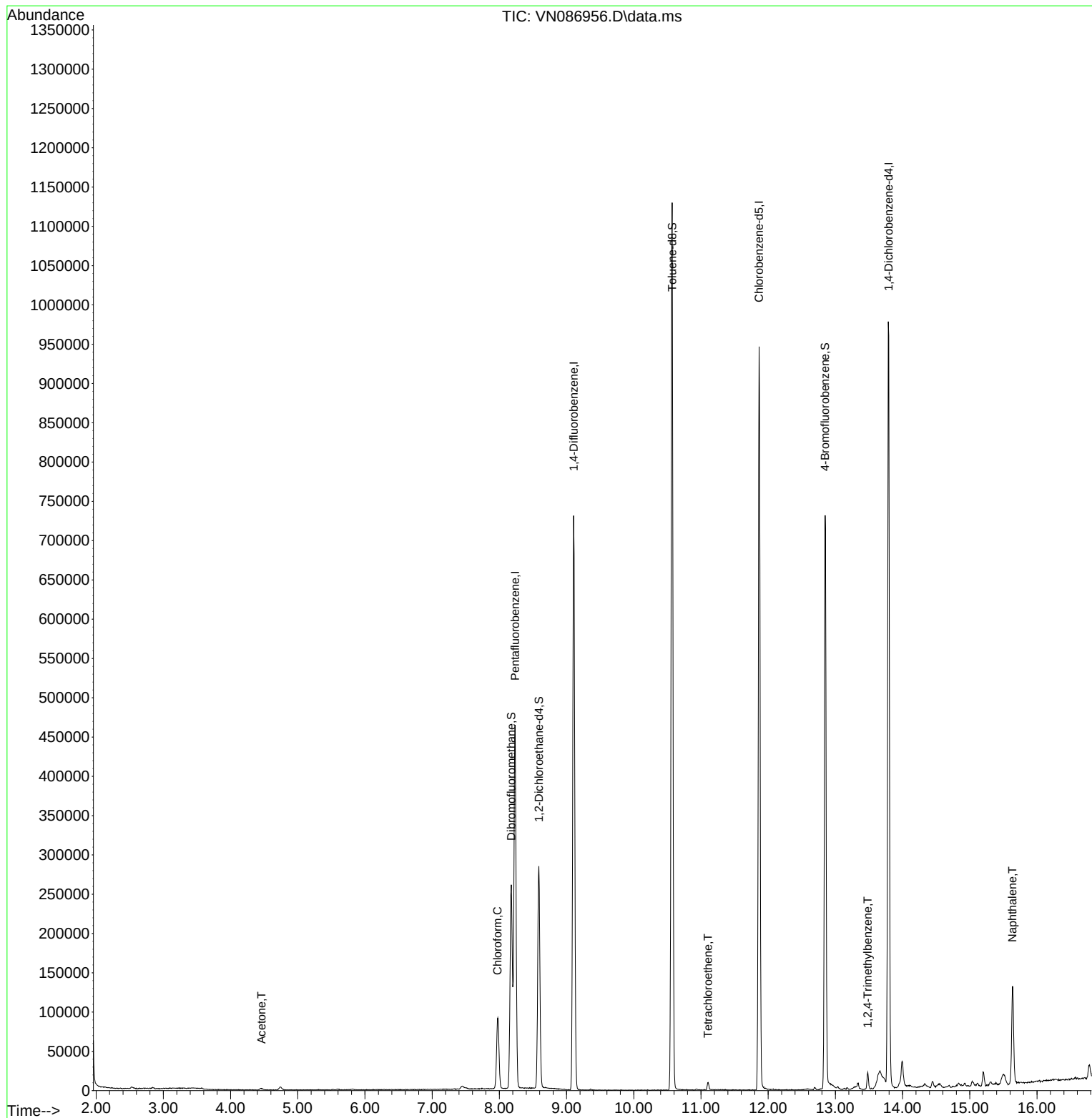
Internal Standards						
1) Pentafluorobenzene	8.235	168	369027	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	692660	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	610187	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	297804	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	228537	46.254	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	92.500%
35) Dibromofluoromethane	8.177	113	201982	49.206	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.420%
50) Toluene-d8	10.571	98	837063	51.511	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.020%
62) 4-Bromofluorobenzene	12.847	95	300711	49.808	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	99.620%
Target Compounds						
					Qvalue	
16) Acetone	4.459	43	3952	1.508	ug/l #	85
30) Chloroform	7.971	83	96211	11.659	ug/l	94
64) Tetrachloroethene	11.106	164	2616	0.677	ug/l #	85
84) 1,2,4-Trimethylbenzene	13.482	105	13139	0.732	ug/l	100
95) Naphthalene	15.635	128	133024	5.951	ug/l	100

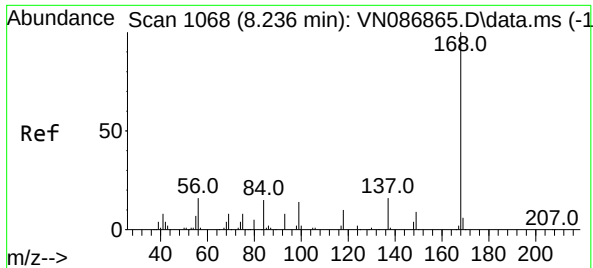
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086956.D
Acq On : 11 Jun 2025 18:04
Operator : JC\MD
Sample : Q2231-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-16D-20250604

Quant Time: Jun 12 01:37:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

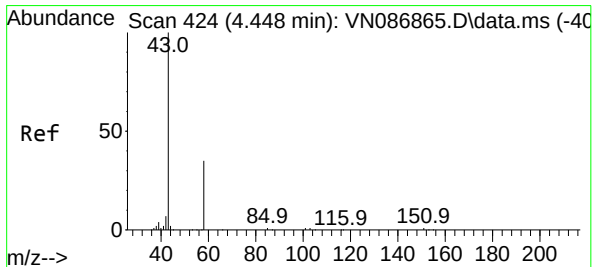
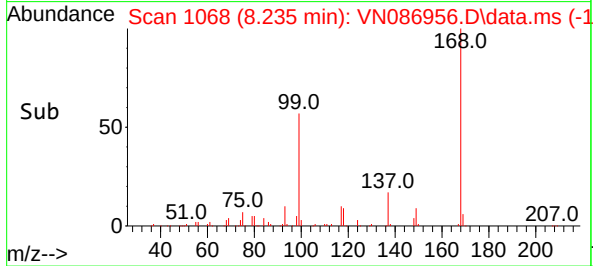
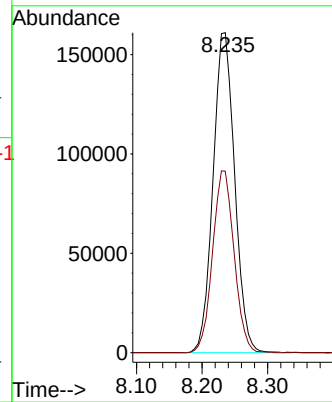
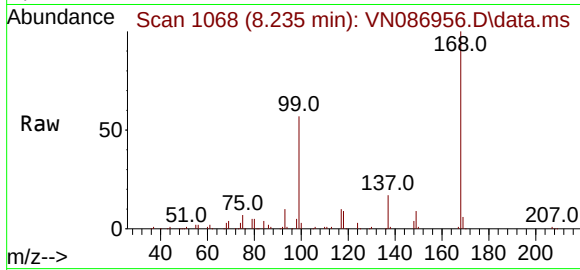




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.001 min
Lab File: VN086956.D
Acq: 11 Jun 2025 18:04

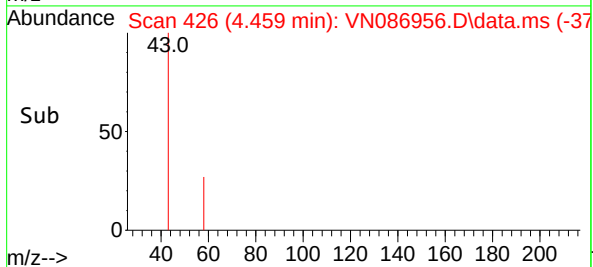
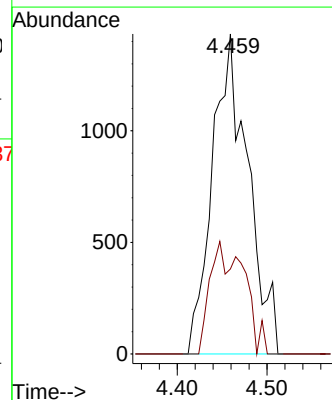
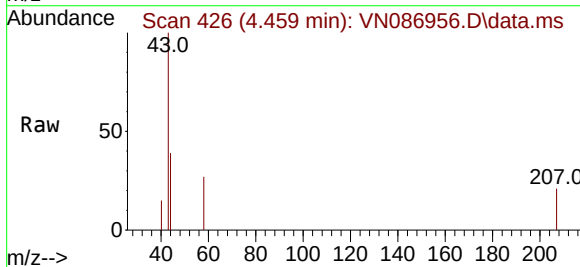
Instrument :
MSVOA_N
ClientSampleId :
MW-16D-20250604

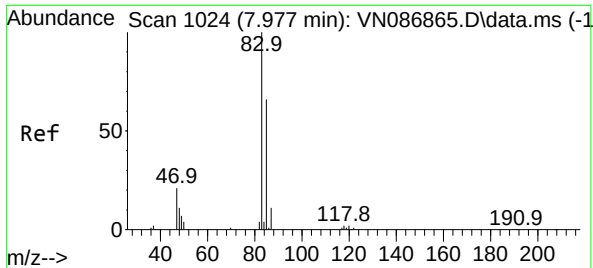
Tgt Ion:168 Resp: 369027
Ion Ratio Lower Upper
168 100
99 56.7 49.1 73.7



#16
Acetone
Concen: 1.508 ug/l
RT: 4.459 min Scan# 426
Delta R.T. 0.012 min
Lab File: VN086956.D
Acq: 11 Jun 2025 18:04

Tgt Ion: 43 Resp: 3952
Ion Ratio Lower Upper
43 100
58 26.6 28.0 42.0#





#30

Chloroform

Concen: 11.659 ug/l

RT: 7.971 min Scan# 1023

Delta R.T. -0.006 min

Lab File: VN086956.D

Acq: 11 Jun 2025 18:04

Instrument :

MSVOA_N

ClientSampleId :

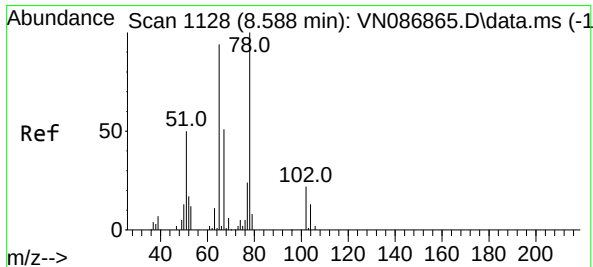
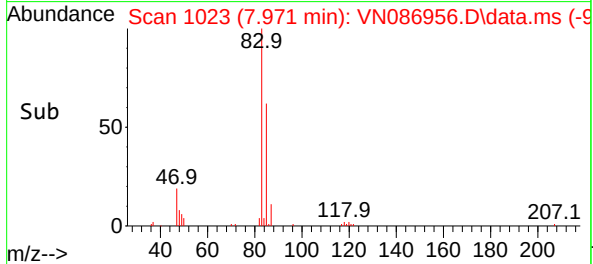
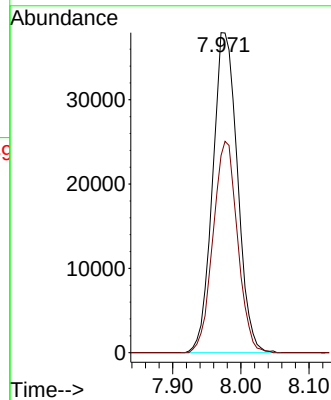
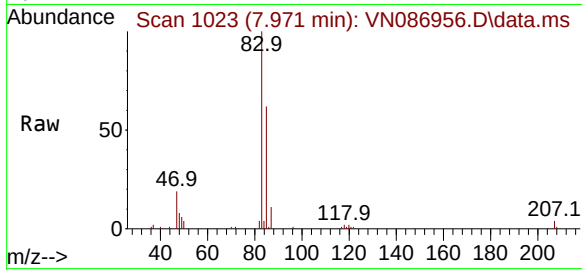
MW-16D-20250604

Tgt Ion: 83 Resp: 96211

Ion Ratio Lower Upper

83 100

85 61.6 52.9 79.3



#33

1,2-Dichloroethane-d4

Concen: 46.254 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN086956.D

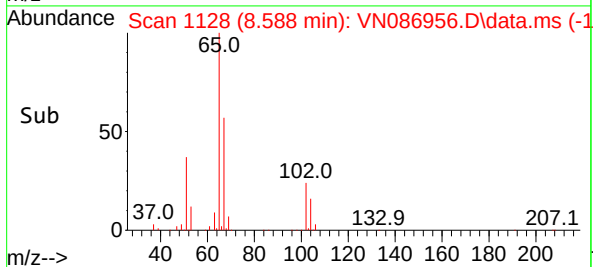
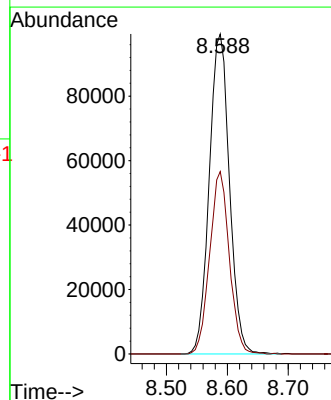
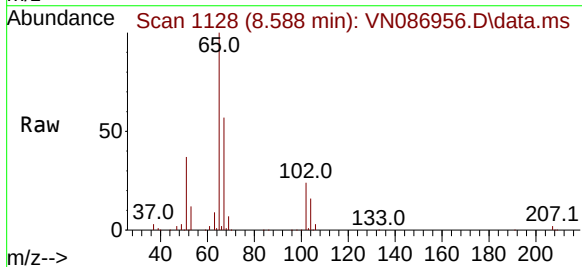
Acq: 11 Jun 2025 18:04

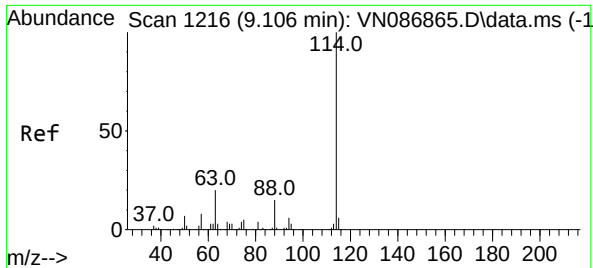
Tgt Ion: 65 Resp: 228537

Ion Ratio Lower Upper

65 100

67 55.4 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086956.D

Acq: 11 Jun 2025 18:04

Instrument :

MSVOA_N

ClientSampleId :

MW-16D-20250604

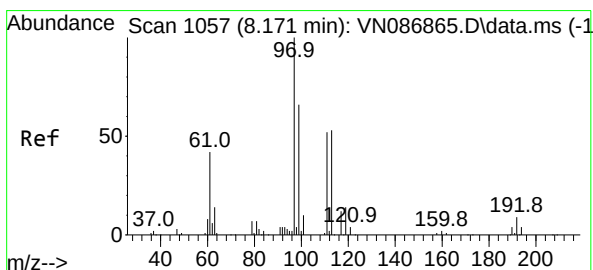
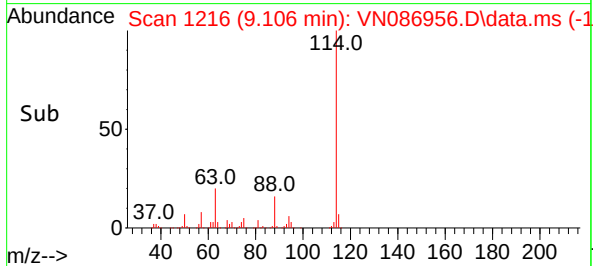
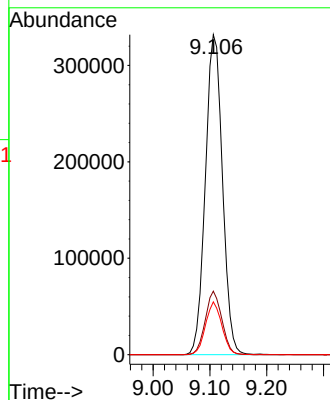
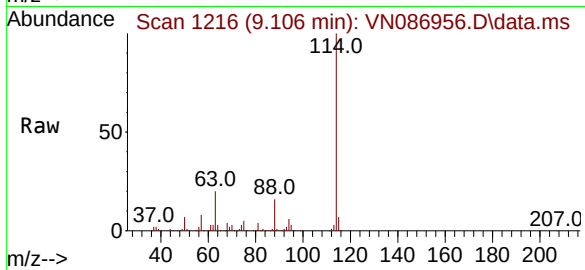
Tgt Ion:114 Resp: 692660

Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.6

88 16.5 0.0 30.2



#35

Dibromofluoromethane

Concen: 49.206 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN086956.D

Acq: 11 Jun 2025 18:04

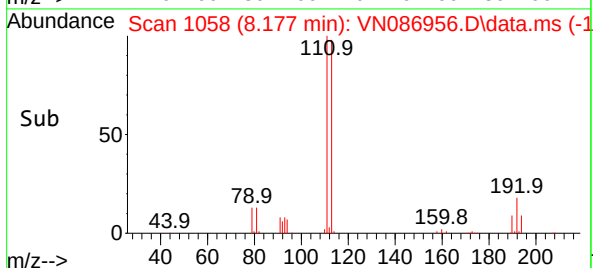
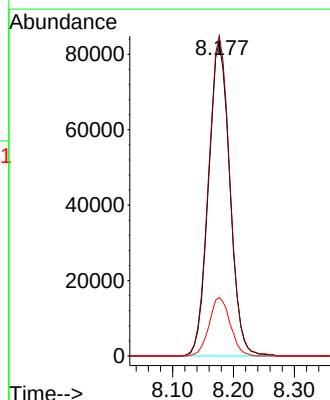
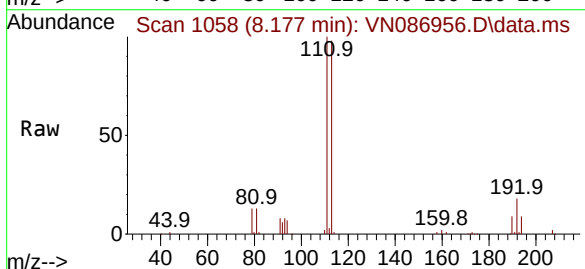
Tgt Ion:113 Resp: 201982

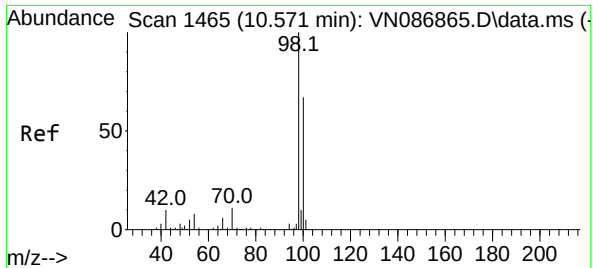
Ion Ratio Lower Upper

113 100

111 102.6 84.2 126.2

192 18.5 14.2 21.4

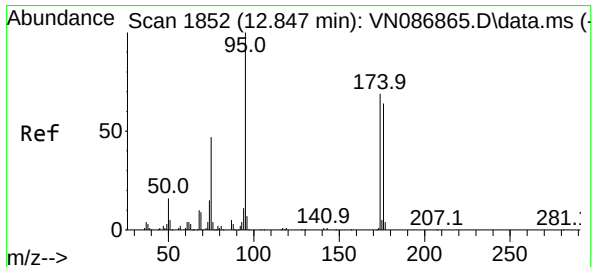
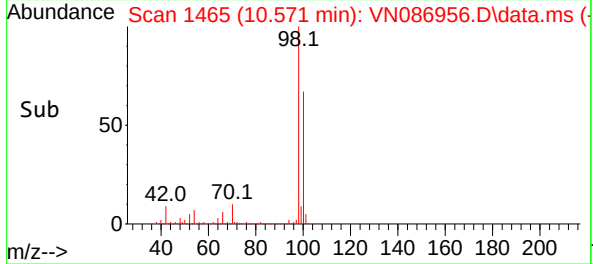
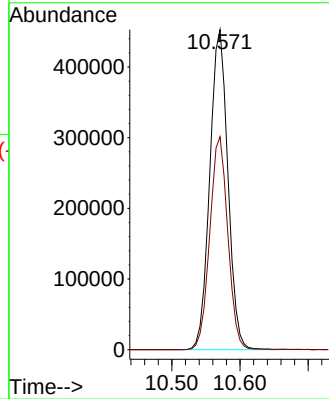
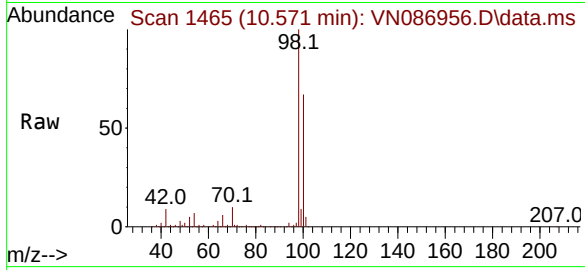




#50
Toluene-d8
Concen: 51.511 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086956.D
Acq: 11 Jun 2025 18:04

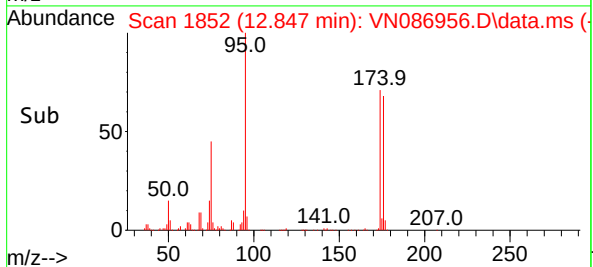
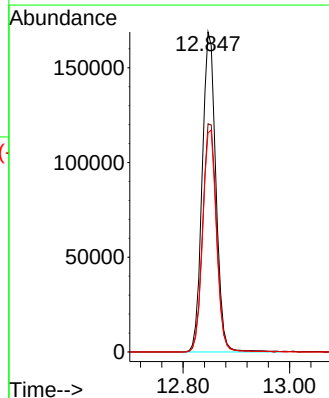
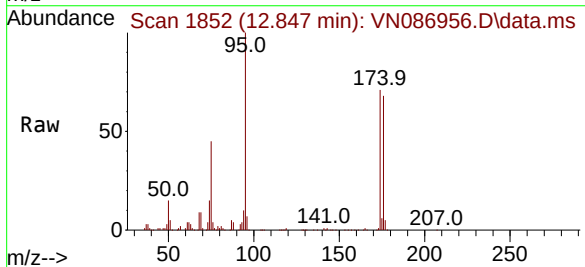
Instrument :
MSVOA_N
ClientSampleId :
MW-16D-20250604

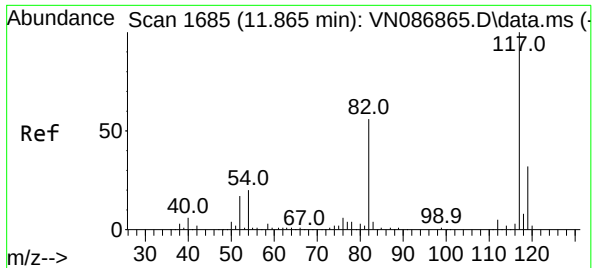
Tgt Ion: 98 Resp: 837063
Ion Ratio Lower Upper
98 100
100 66.4 53.4 80.0



#62
4-Bromofluorobenzene
Concen: 49.808 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086956.D
Acq: 11 Jun 2025 18:04

Tgt Ion: 95 Resp: 300711
Ion Ratio Lower Upper
95 100
174 72.6 0.0 141.8
176 69.4 0.0 132.6

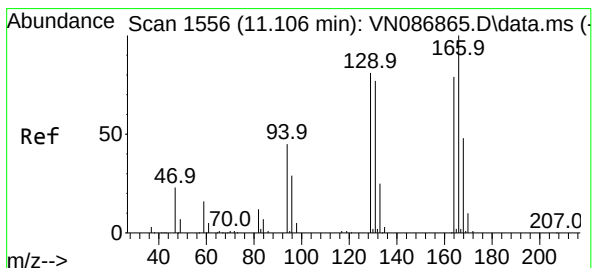
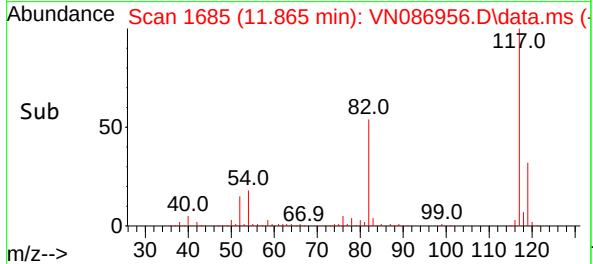
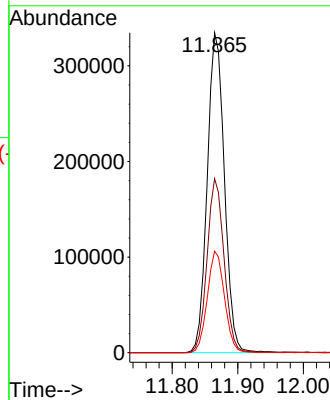
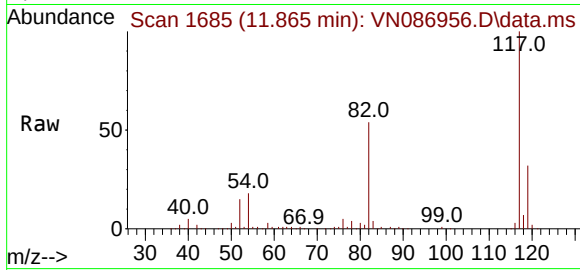




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086956.D
Acq: 11 Jun 2025 18:04

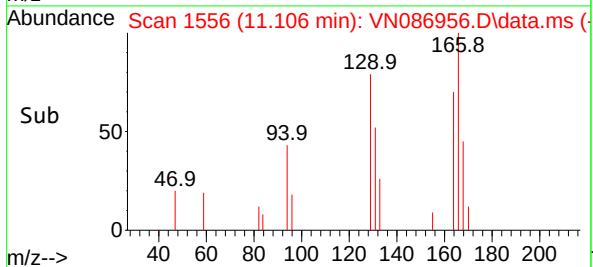
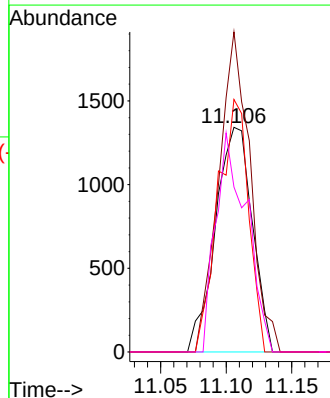
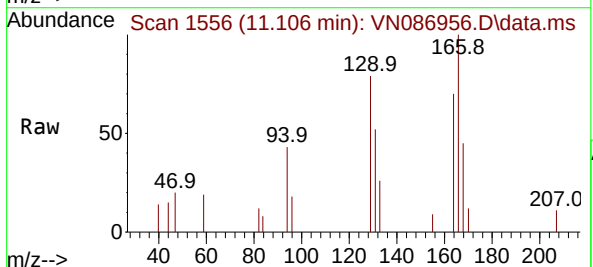
Instrument :
MSVOA_N
ClientSampleId :
MW-16D-20250604

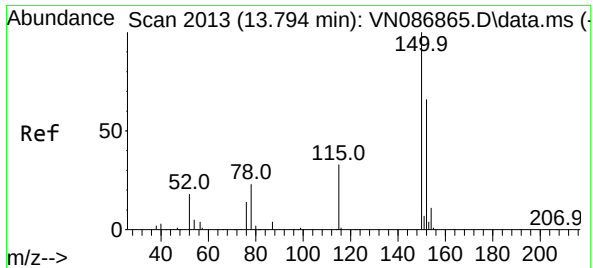
Tgt Ion:117 Resp: 610187
Ion Ratio Lower Upper
117 100
82 54.4 44.6 67.0
119 31.7 25.5 38.3



#64
Tetrachloroethene
Concen: 0.677 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN086956.D
Acq: 11 Jun 2025 18:04

Tgt Ion:164 Resp: 2616
Ion Ratio Lower Upper
164 100
166 142.5 101.8 152.8
129 112.4 83.0 124.4
131 73.5 78.2 117.2#

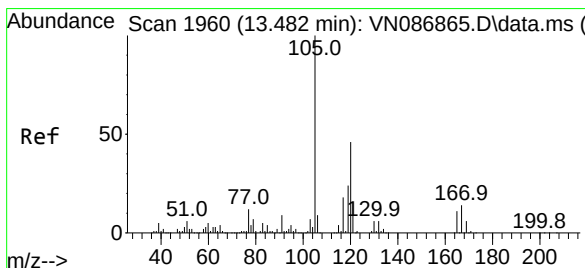
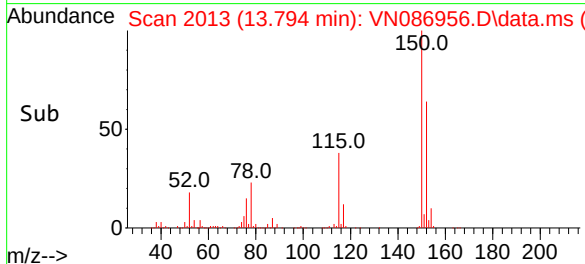
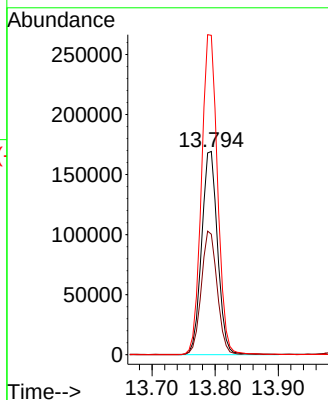
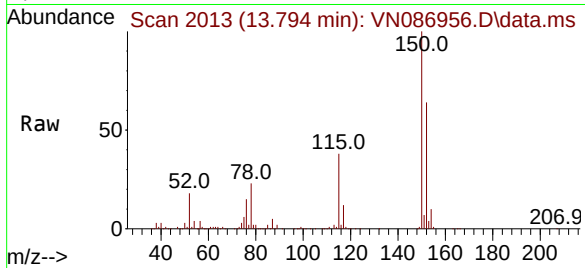




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 2013
 Delta R.T. -0.000 min
 Lab File: VN086956.D
 Acq: 11 Jun 2025 18:04

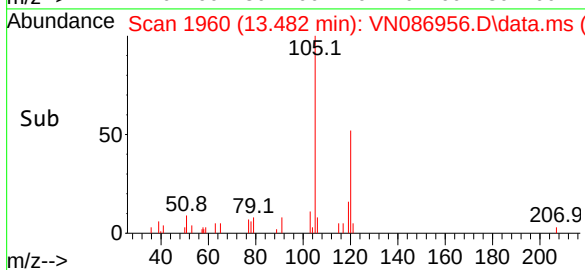
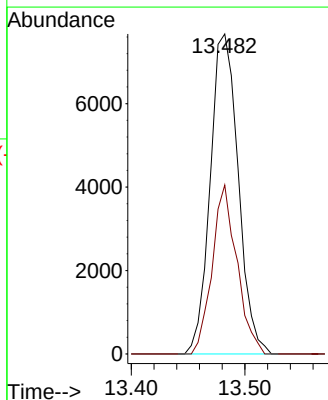
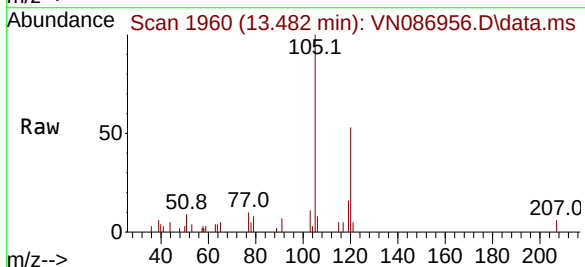
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-16D-20250604

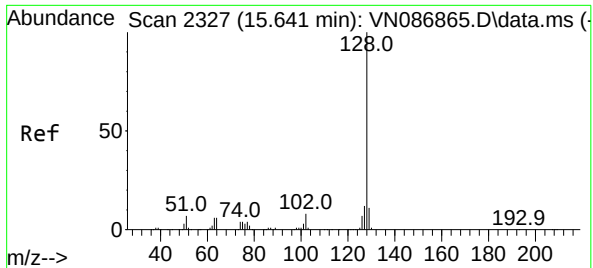
Tgt Ion:152 Resp: 297804
 Ion Ratio Lower Upper
 152 100
 115 60.0 30.1 90.5
 150 158.5 0.0 345.0



#84
 1,2,4-Trimethylbenzene
 Concen: 0.732 ug/l
 RT: 13.482 min Scan# 1960
 Delta R.T. -0.000 min
 Lab File: VN086956.D
 Acq: 11 Jun 2025 18:04

Tgt Ion:105 Resp: 13139
 Ion Ratio Lower Upper
 105 100
 120 46.6 23.2 69.6





#95

Naphthalene

Concen: 5.951 ug/l

RT: 15.635 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN086956.D

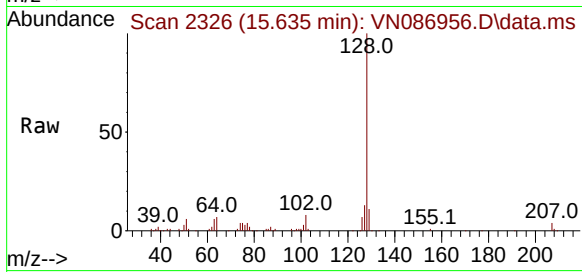
Acq: 11 Jun 2025 18:04

Instrument :

MSVOA_N

ClientSampleId :

MW-16D-20250604



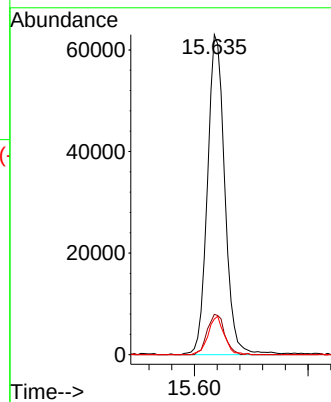
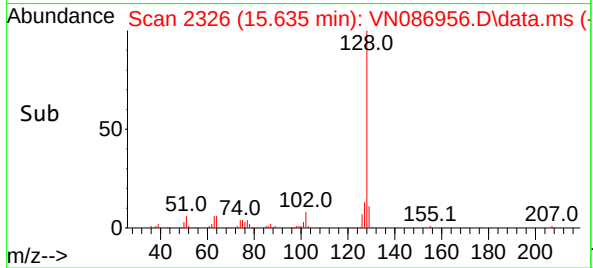
Tgt Ion:128 Resp: 133024

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.2

129 11.2 8.8 13.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
 Data File : VN086956.D
 Acq On : 11 Jun 2025 18:04
 Operator : JC\MD
 Sample : Q2231-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-16D-20250604

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_N\methods\82N060625W.M
 Title : SW846 8260

Signal : TIC: VN086956.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.977	1014	1024	1037	rBV	90162	228503	10.90%	1.980%
2	8.177	1047	1058	1062	rBV	259101	614283	29.31%	5.324%
3	8.235	1062	1068	1079	rVB	461731	1055271	50.34%	9.146%
4	8.588	1116	1128	1141	rBV	282502	641635	30.61%	5.561%
5	9.106	1207	1216	1228	rBV	730859	1502713	71.69%	13.023%
6	10.571	1456	1465	1484	rBV	1129524	2096145	100.00%	18.167%
7	11.865	1677	1685	1696	rBV	945960	1722007	82.15%	14.924%
8	12.847	1845	1852	1864	rBV	729552	1302892	62.16%	11.292%
9	13.482	1953	1960	1967	rBV	21699	35073	1.67%	0.304%
10	13.665	1971	1991	2000	rBV8	23204	124444	5.94%	1.079%
11	13.788	2005	2012	2027	rVB	975526	1737904	82.91%	15.062%
12	13.994	2036	2047	2059	rBV3	32858	88261	4.21%	0.765%
13	15.200	2246	2252	2259	rBV2	18291	35039	1.67%	0.304%
14	15.500	2291	2303	2315	rBV7	13643	55967	2.67%	0.485%
15	15.635	2318	2326	2335	rBV	124186	264887	12.64%	2.296%
16	16.782	2513	2521	2522	rBV2	18020	33486	1.60%	0.290%

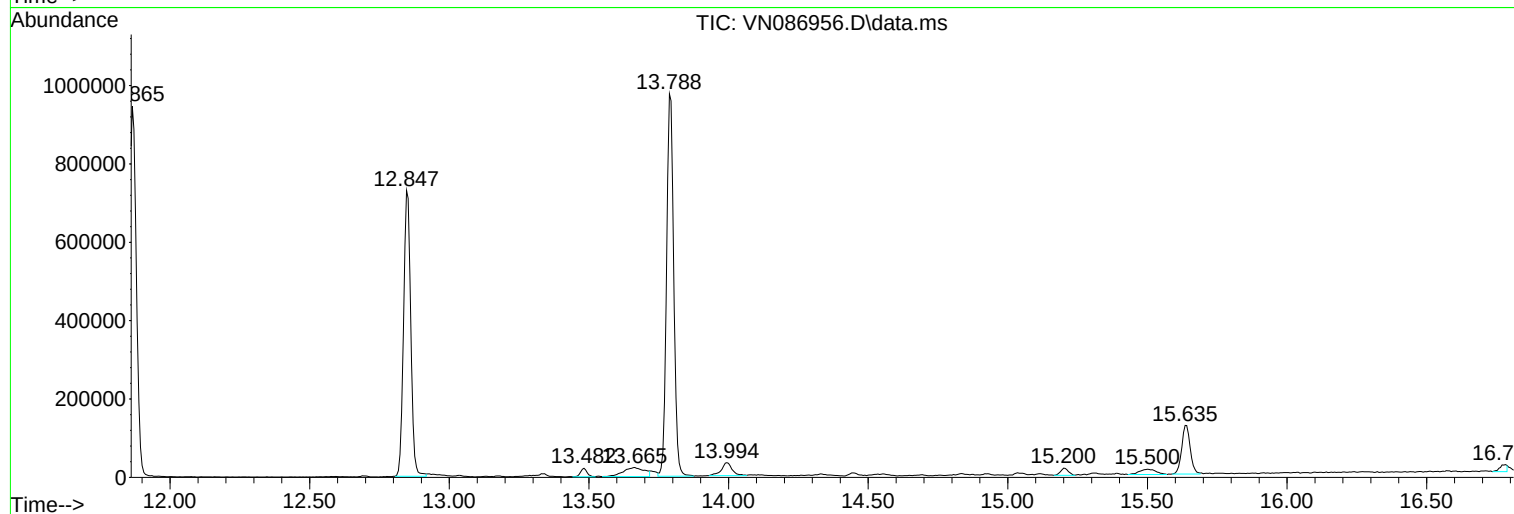
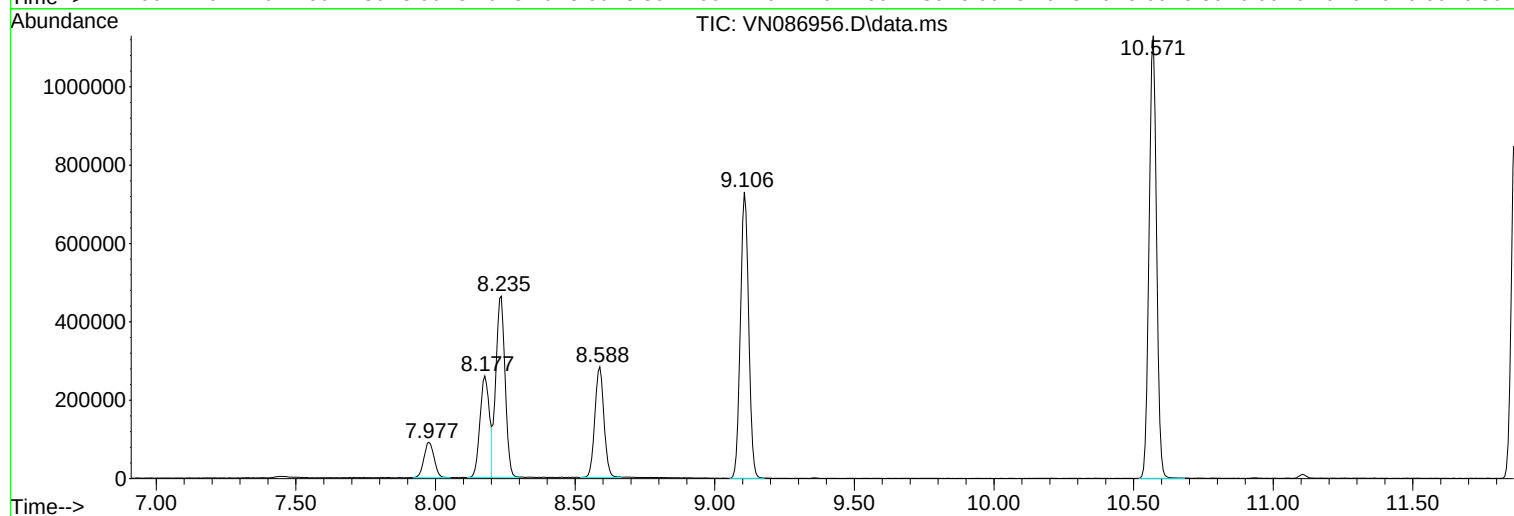
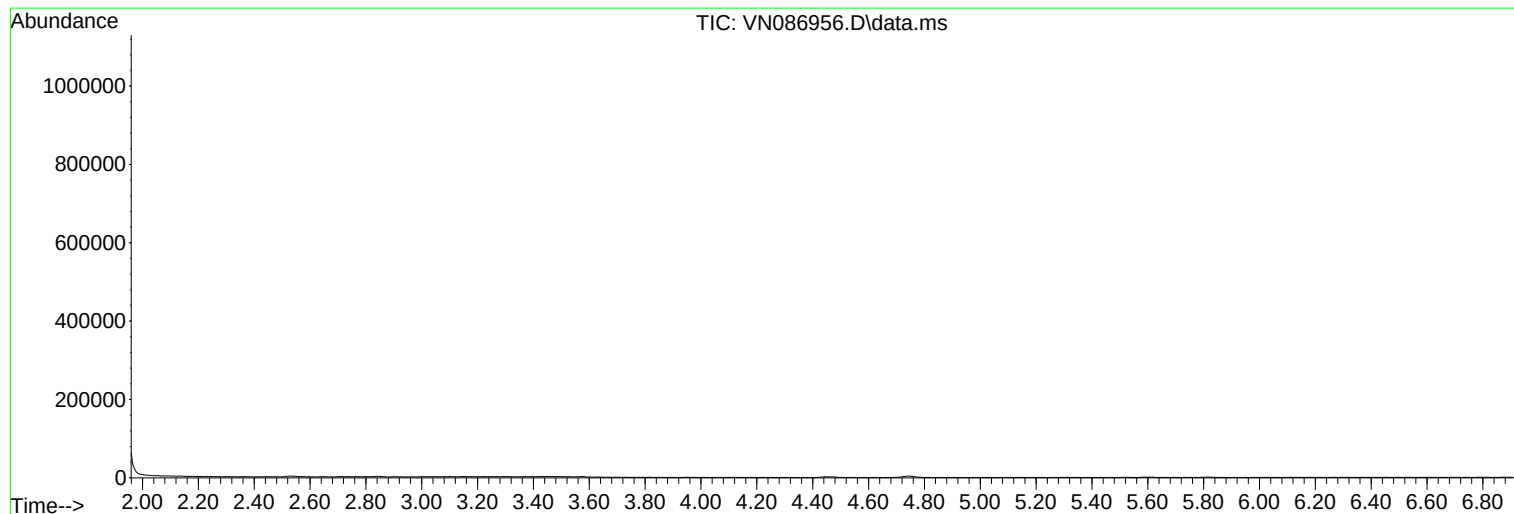
Sum of corrected areas: 11538510

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086956.D
Acq On : 11 Jun 2025 18:04
Operator : JC\MD
Sample : Q2231-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-16D-20250604

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086956.D
Acq On : 11 Jun 2025 18:04
Operator : JC\MD
Sample : Q2231-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-16D-20250604

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.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_N\Data\VN061125\
Data File : VN086956.D
Acq On : 11 Jun 2025 18:04
Operator : JC\MD
Sample : Q2231-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-16D-20250604

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.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:	PARSONS Engineering of New York, Inc.	Date Collected:	06/04/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/04/25
Client Sample ID:	MW-17-20250604	SDG No.:	Q2231
Lab Sample ID:	Q2231-05	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086957.D	1		06/11/25 18:26	VN061125

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	1.70	J	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	21.3		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:	PARSONS Engineering of New York, Inc.			Date Collected:	06/04/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05			Date Received:	06/04/25
Client Sample ID:	MW-17-20250604			SDG No.:	Q2231
Lab Sample ID:	Q2231-05			Matrix:	Water
Analytical Method:	8260D			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086957.D	1		06/11/25 18:26	VN061125

[illegible]

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	06/04/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/04/25
Client Sample ID:	MW-17-20250604	SDG No.:	Q2231
Lab Sample ID:	Q2231-05	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086957.D	1		06/11/25 18:26	VN061125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
95-63-6	1,2,4-Trimethylbenzene	0.92	J		13.5	ug/L
91-20-3	Naphthalene	6.10	J		15.6	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_N\Data\VN061125\
 Data File : VN086957.D
 Acq On : 11 Jun 2025 18:26
 Operator : JC\MD
 Sample : Q2231-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-17-20250604

Quant Time: Jun 12 01:37:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

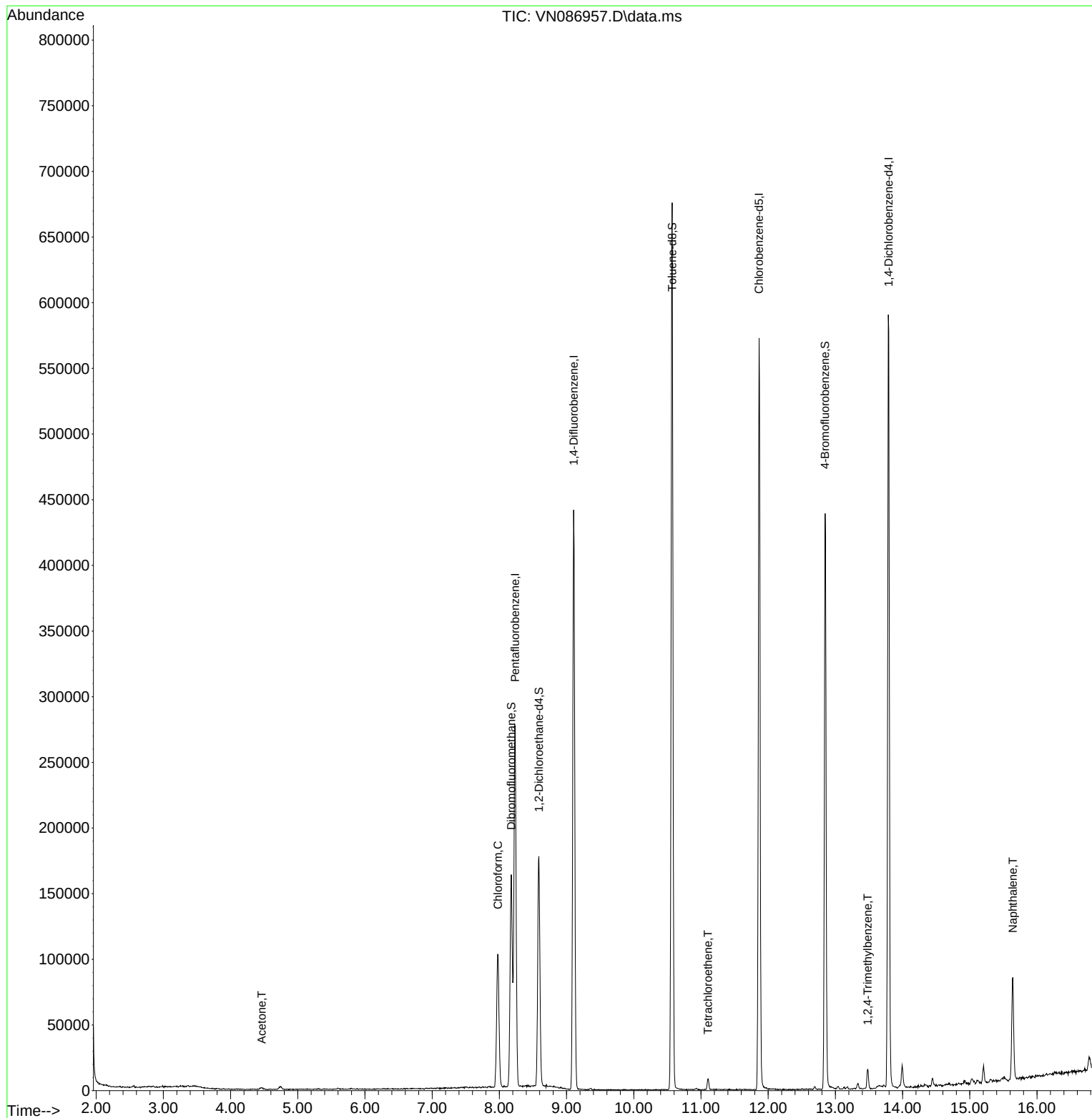
Internal Standards						
1) Pentafluorobenzene	8.235	168	224021	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	418211	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	365651	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	178134	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	144229	48.086	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.180%		
35) Dibromofluoromethane	8.177	113	123894	49.989	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	99.980%		
50) Toluene-d8	10.571	98	503710	51.339	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	102.680%		
62) 4-Bromofluorobenzene	12.847	95	181261	49.726	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	99.460%		
Target Compounds						
					Qvalue	
16) Acetone	4.465	43	2674	1.681	ug/l #	85
30) Chloroform	7.977	83	106785	21.316	ug/l	98
64) Tetrachloroethene	11.106	164	2147	0.928	ug/l	88
84) 1,2,4-Trimethylbenzene	13.482	105	9908	0.922	ug/l	97
95) Naphthalene	15.641	128	81884	6.124	ug/l	99

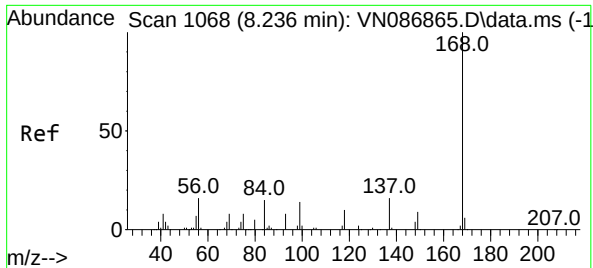
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086957.D
Acq On : 11 Jun 2025 18:26
Operator : JC\MD
Sample : Q2231-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-17-20250604

Quant Time: Jun 12 01:37:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

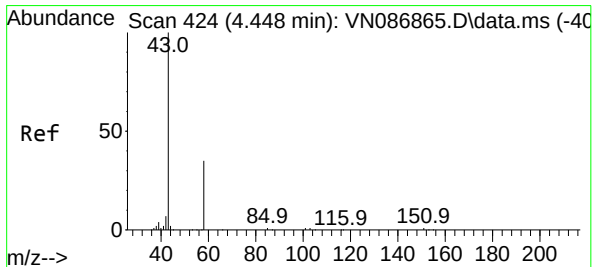
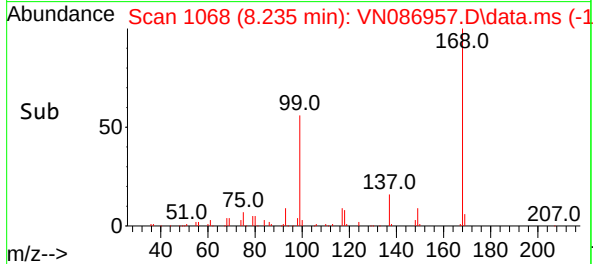
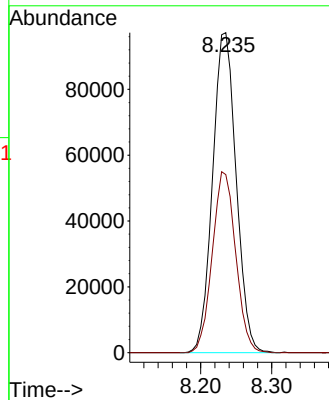
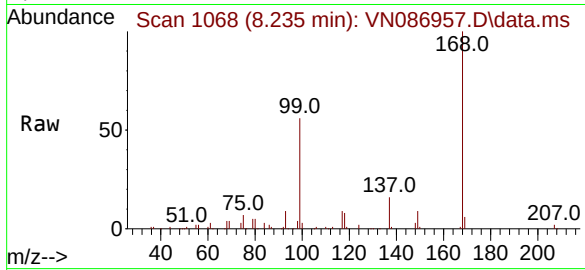




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.001 min
Lab File: VN086957.D
Acq: 11 Jun 2025 18:26

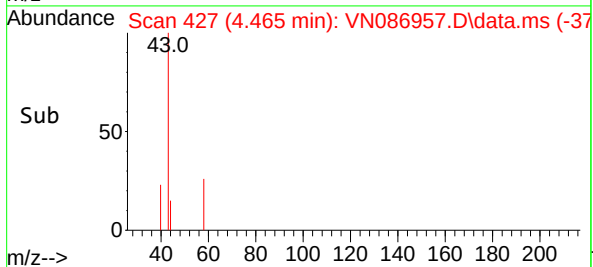
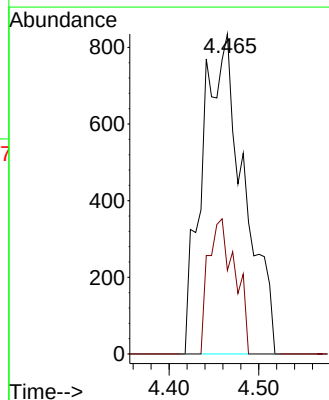
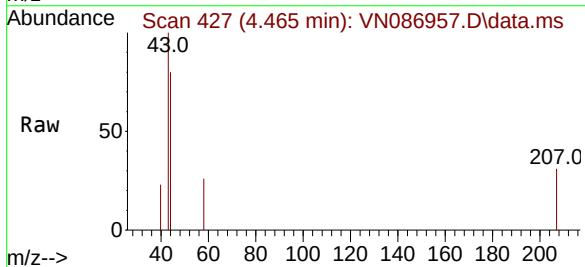
Instrument :
MSVOA_N
ClientSampleId :
MW-17-20250604

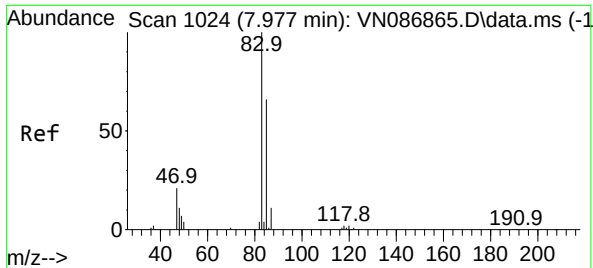
Tgt Ion:168 Resp: 224021
Ion Ratio Lower Upper
168 100
99 55.7 49.1 73.7



#16
Acetone
Concen: 1.681 ug/l
RT: 4.465 min Scan# 427
Delta R.T. 0.017 min
Lab File: VN086957.D
Acq: 11 Jun 2025 18:26

Tgt Ion: 43 Resp: 2674
Ion Ratio Lower Upper
43 100
58 26.1 28.0 42.0#





#30

Chloroform

Concen: 21.316 ug/l

RT: 7.977 min Scan# 1024

Delta R.T. -0.000 min

Lab File: VN086957.D

Acq: 11 Jun 2025 18:26

Instrument :

MSVOA_N

ClientSampleId :

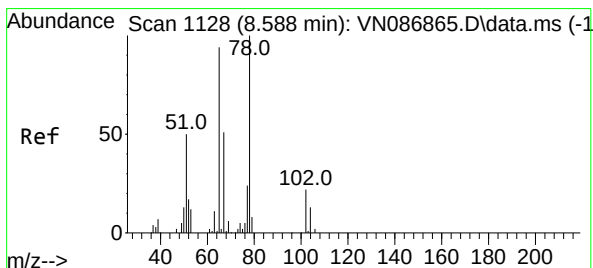
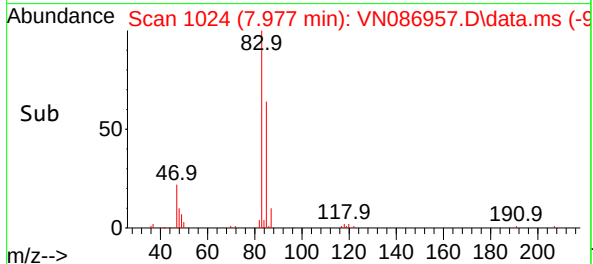
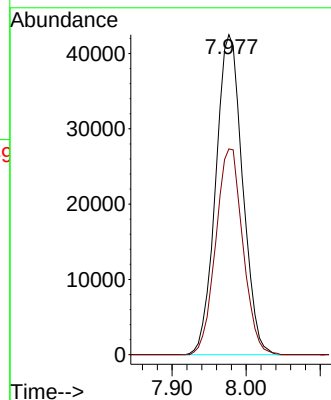
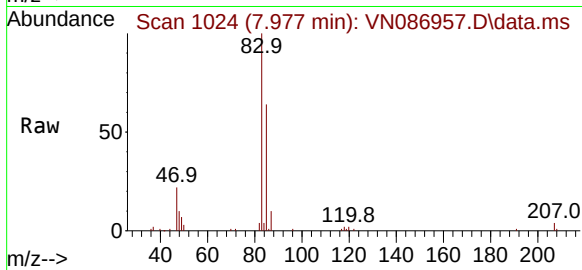
MW-17-20250604

Tgt Ion: 83 Resp: 106785

Ion Ratio Lower Upper

83 100

85 64.3 52.9 79.3



#33

1,2-Dichloroethane-d4

Concen: 48.086 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN086957.D

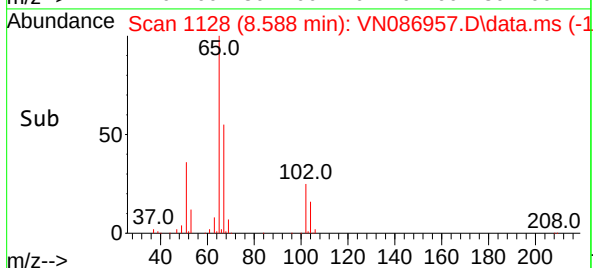
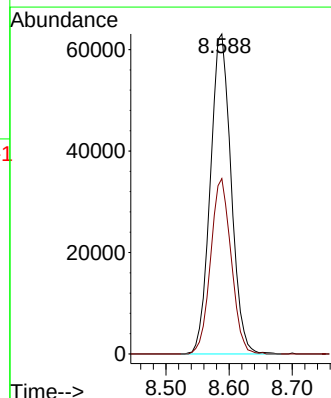
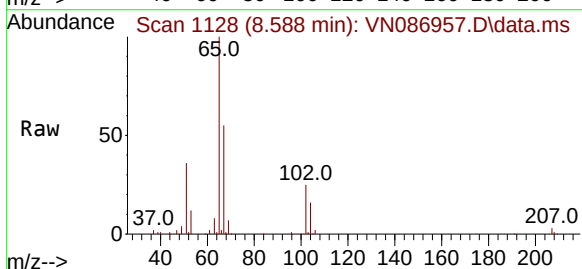
Acq: 11 Jun 2025 18:26

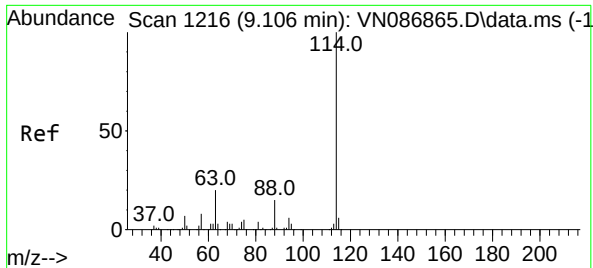
Tgt Ion: 65 Resp: 144229

Ion Ratio Lower Upper

65 100

67 54.1 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086957.D

Acq: 11 Jun 2025 18:26

Instrument :

MSVOA_N

ClientSampleId :

MW-17-20250604

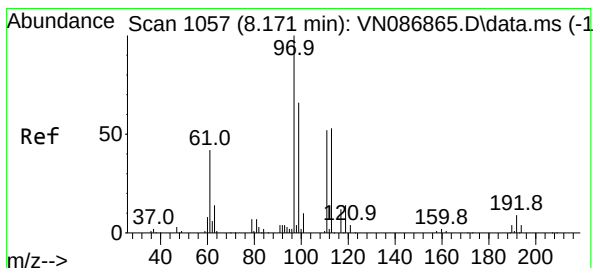
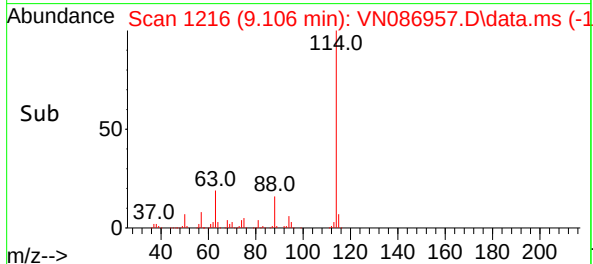
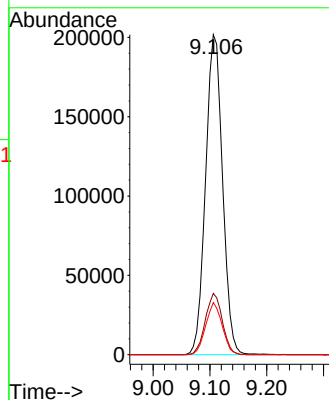
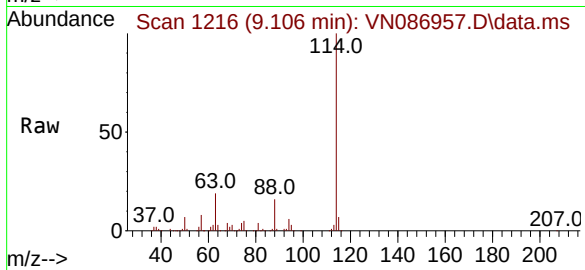
Tgt Ion:114 Resp: 418211

Ion Ratio Lower Upper

114 100

63 19.1 0.0 39.6

88 16.3 0.0 30.2



#35

Dibromofluoromethane

Concen: 49.989 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN086957.D

Acq: 11 Jun 2025 18:26

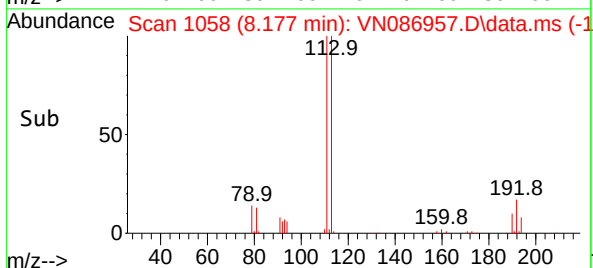
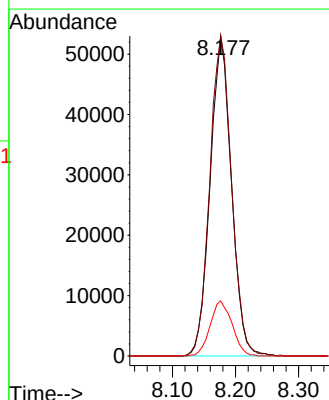
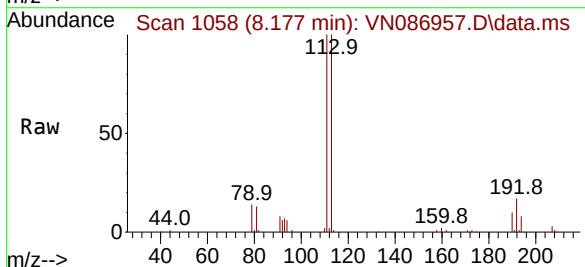
Tgt Ion:113 Resp: 123894

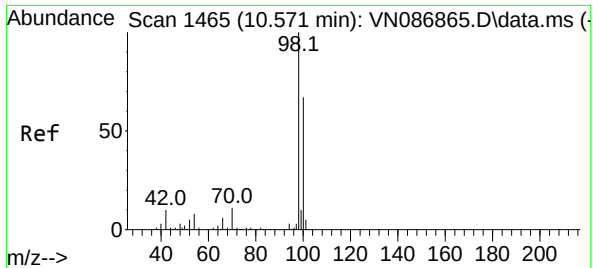
Ion Ratio Lower Upper

113 100

111 102.8 84.2 126.2

192 17.8 14.2 21.4

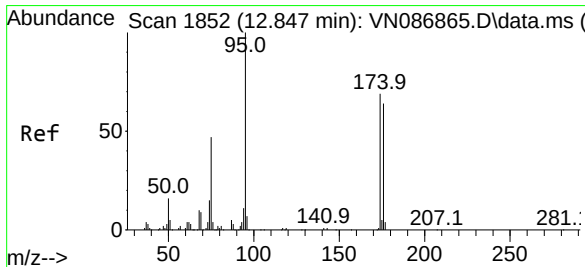
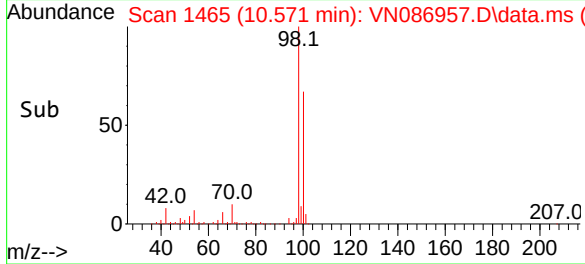
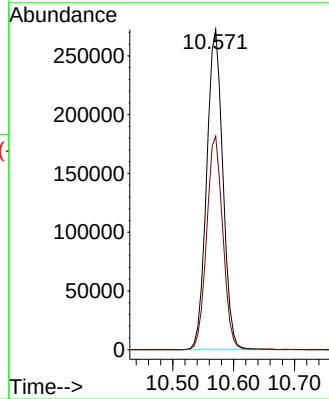
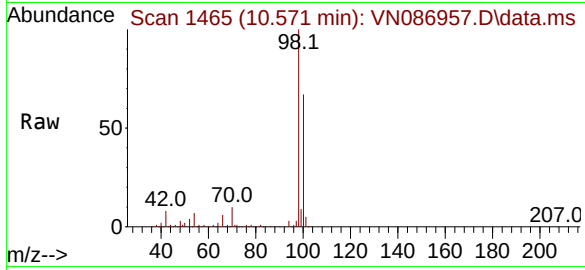




#50
Toluene-d8
Concen: 51.339 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086957.D
Acq: 11 Jun 2025 18:26

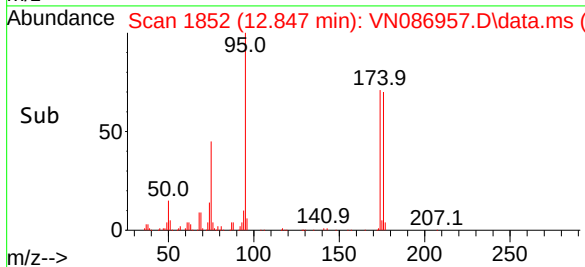
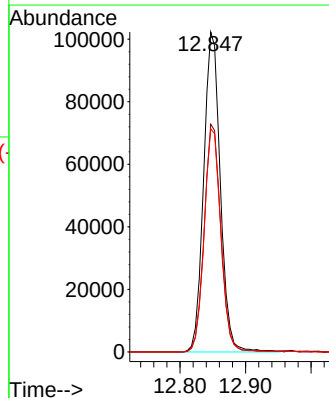
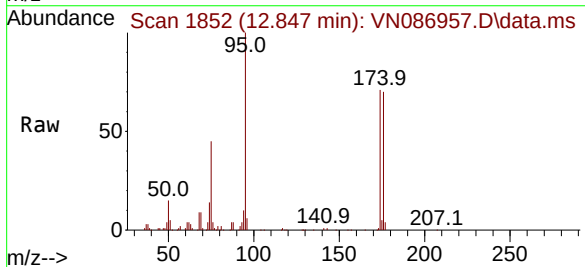
Instrument :
MSVOA_N
ClientSampleId :
MW-17-20250604

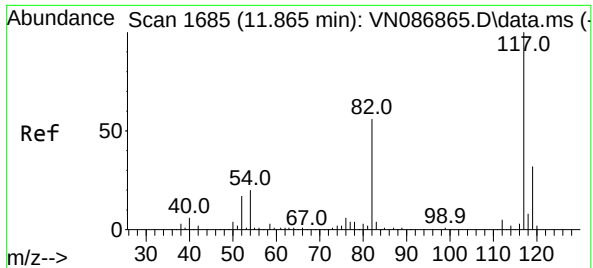
Tgt Ion: 98 Resp: 503710
Ion Ratio Lower Upper
98 100
100 66.5 53.4 80.0



#62
4-Bromofluorobenzene
Concen: 49.726 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086957.D
Acq: 11 Jun 2025 18:26

Tgt Ion: 95 Resp: 181261
Ion Ratio Lower Upper
95 100
174 70.9 0.0 141.8
176 70.0 0.0 132.6

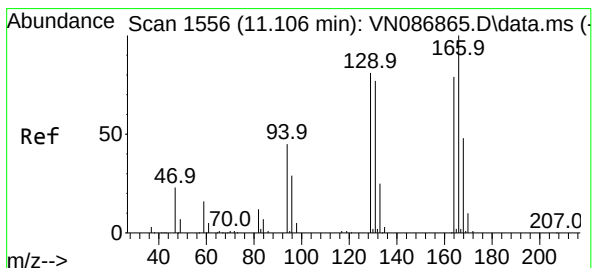
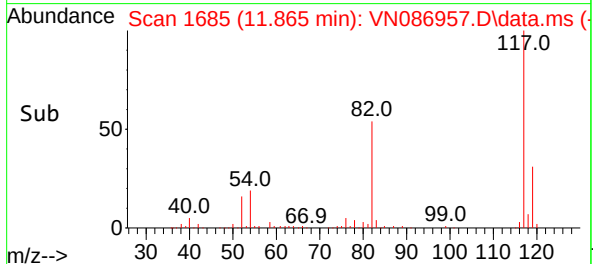
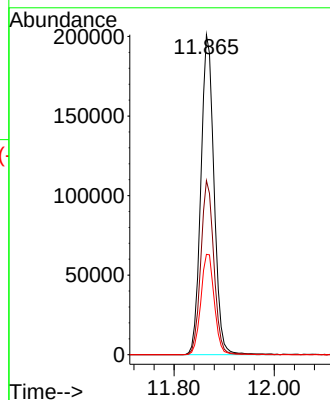
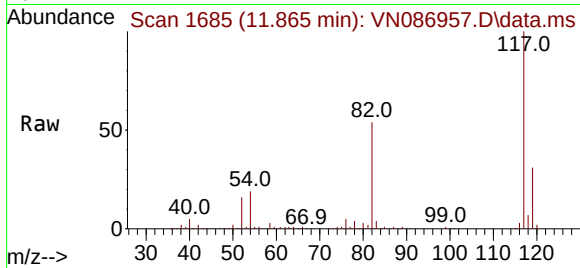




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086957.D
Acq: 11 Jun 2025 18:26

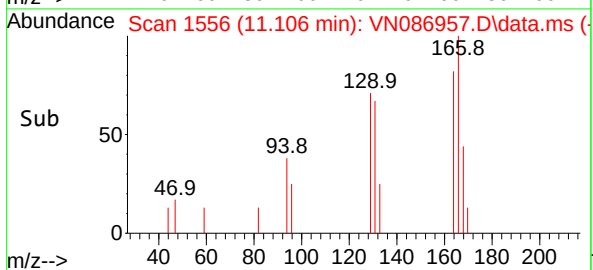
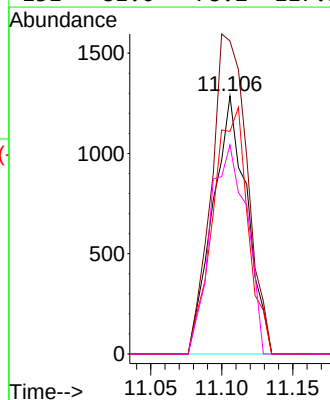
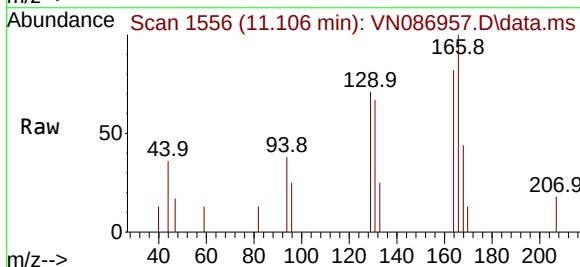
Instrument :
MSVOA_N
ClientSampleId :
MW-17-20250604

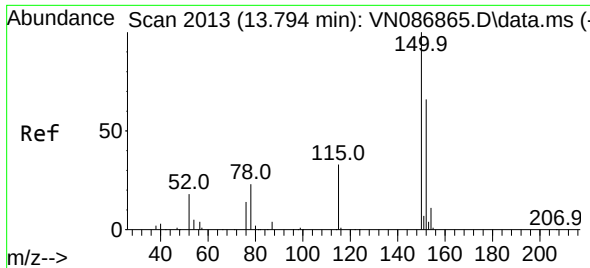
Tgt Ion:117 Resp: 365651
Ion Ratio Lower Upper
117 100
82 54.4 44.6 67.0
119 31.3 25.5 38.3



#64
Tetrachloroethene
Concen: 0.928 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN086957.D
Acq: 11 Jun 2025 18:26

Tgt Ion:164 Resp: 2147
Ion Ratio Lower Upper
164 100
166 121.3 101.8 152.8
129 86.2 83.0 124.4
131 81.0 78.2 117.2

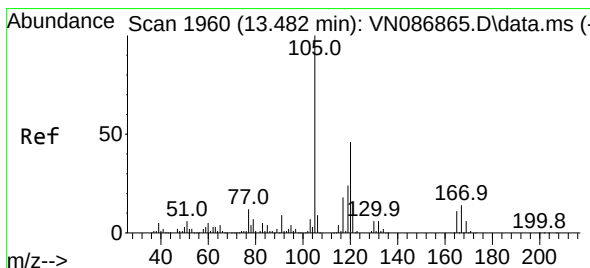
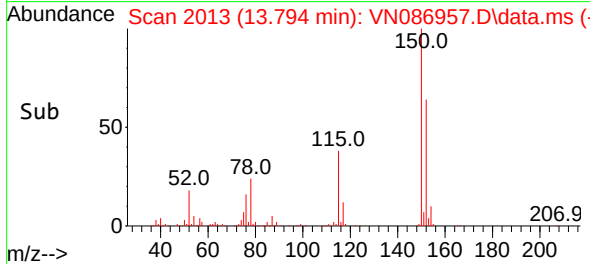
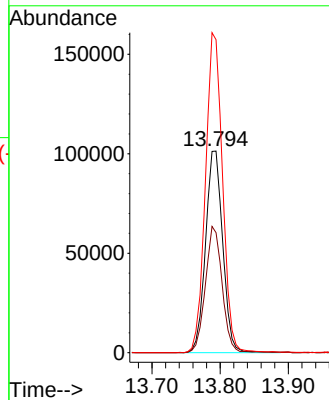
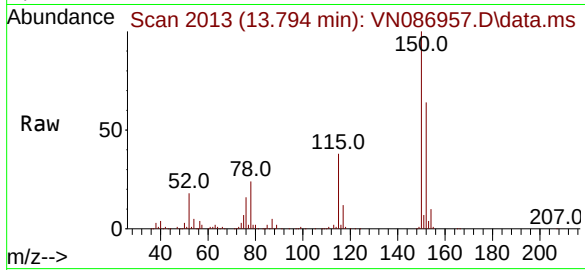




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 2013
 Delta R.T. -0.000 min
 Lab File: VN086957.D
 Acq: 11 Jun 2025 18:26

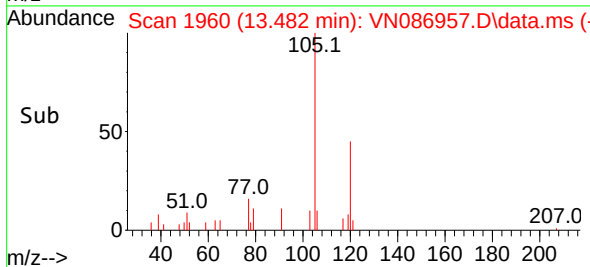
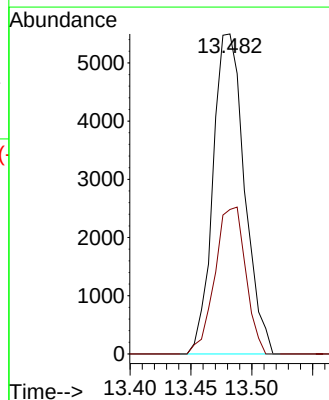
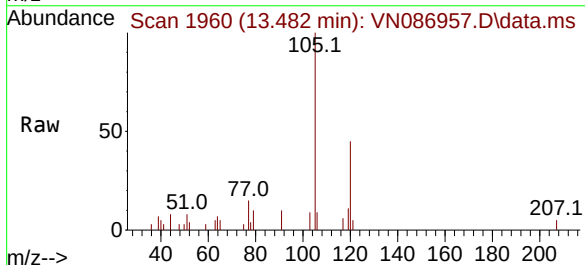
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-17-20250604

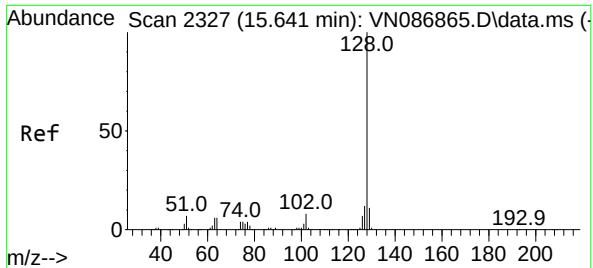
Tgt Ion:152 Resp: 178134
 Ion Ratio Lower Upper
 152 100
 115 61.1 30.1 90.5
 150 157.4 0.0 345.0



#84
 1,2,4-Trimethylbenzene
 Concen: 0.922 ug/l
 RT: 13.482 min Scan# 1960
 Delta R.T. -0.000 min
 Lab File: VN086957.D
 Acq: 11 Jun 2025 18:26

Tgt Ion:105 Resp: 9908
 Ion Ratio Lower Upper
 105 100
 120 44.7 23.2 69.6





#95

Naphthalene

Concen: 6.124 ug/l

RT: 15.641 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086957.D

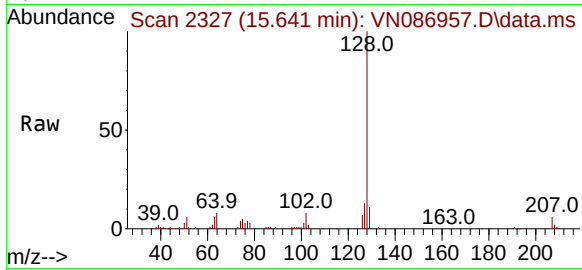
Acq: 11 Jun 2025 18:26

Instrument :

MSVOA_N

ClientSampleId :

MW-17-20250604



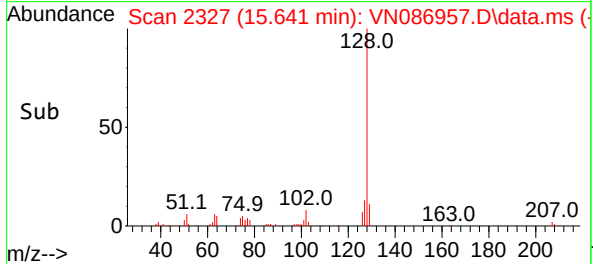
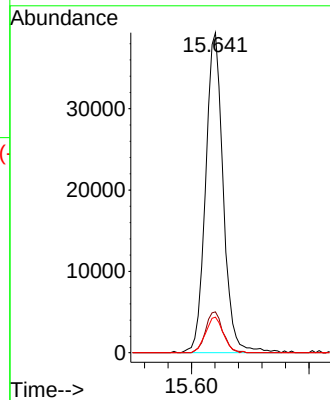
Tgt Ion:128 Resp: 81884

Ion	Ratio	Lower	Upper

128	100		

127	12.5	10.2	15.2

129	11.3	8.8	13.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
 Data File : VN086957.D
 Acq On : 11 Jun 2025 18:26
 Operator : JC\MD
 Sample : Q2231-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-17-20250604

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_N\methods\82N060625W.M
 Title : SW846 8260

Signal : TIC: VN086957.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.977	1015	1024	1036	rVB	101252	251705	20.02%	3.626%
2	8.177	1048	1058	1062	rBV	161597	376607	29.95%	5.425%
3	8.229	1062	1067	1080	rVB	275066	638890	50.81%	9.203%
4	8.588	1119	1128	1139	rVB	174752	395301	31.44%	5.694%
5	9.106	1207	1216	1227	rBV	441248	903753	71.88%	13.018%
6	10.571	1456	1465	1484	rBV	675408	1257303	100.00%	18.111%
7	11.106	1550	1556	1562	rBV4	8212	14501	1.15%	0.209%
8	11.865	1677	1685	1699	rBV	572427	1037920	82.55%	14.951%
9	12.847	1844	1852	1863	rBV	438652	774834	61.63%	11.161%
10	13.482	1954	1960	1967	rVB2	14975	26561	2.11%	0.383%
11	13.788	2005	2012	2030	rVB	588237	1028985	81.84%	14.822%
12	13.994	2035	2047	2056	rBV	17467	37486	2.98%	0.540%
13	15.206	2247	2253	2260	rBV3	13900	24848	1.98%	0.358%
14	15.641	2319	2327	2336	rBV	77728	158533	12.61%	2.284%
15	16.776	2514	2520	2521	rBV5	10445	14907	1.19%	0.215%

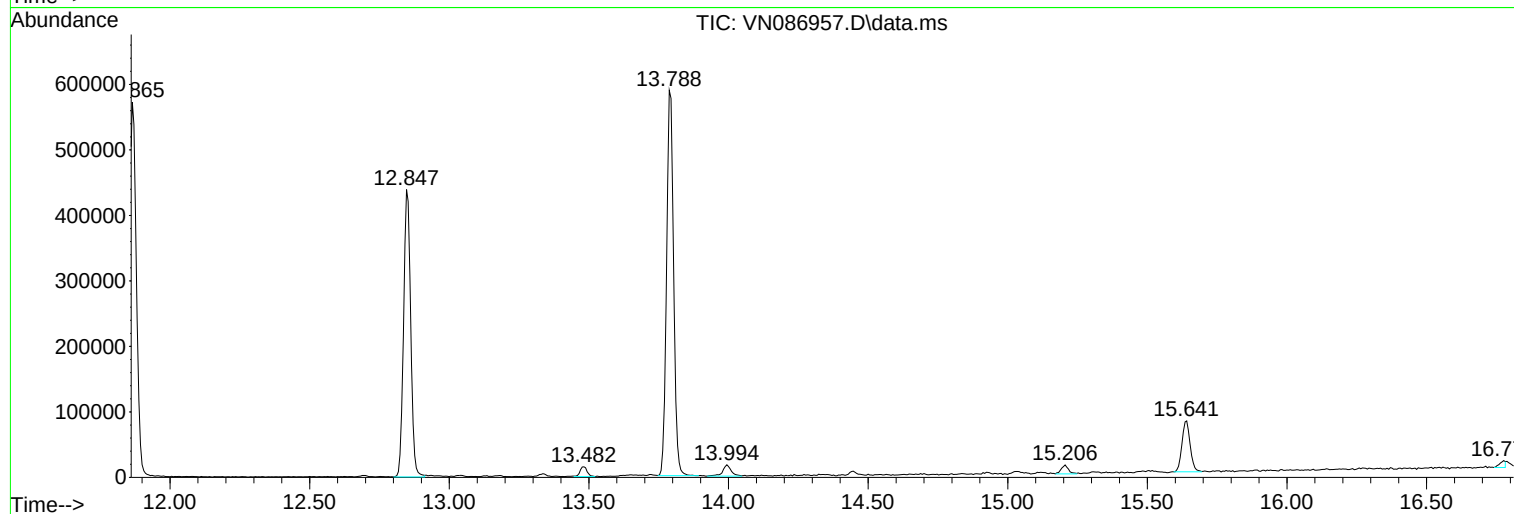
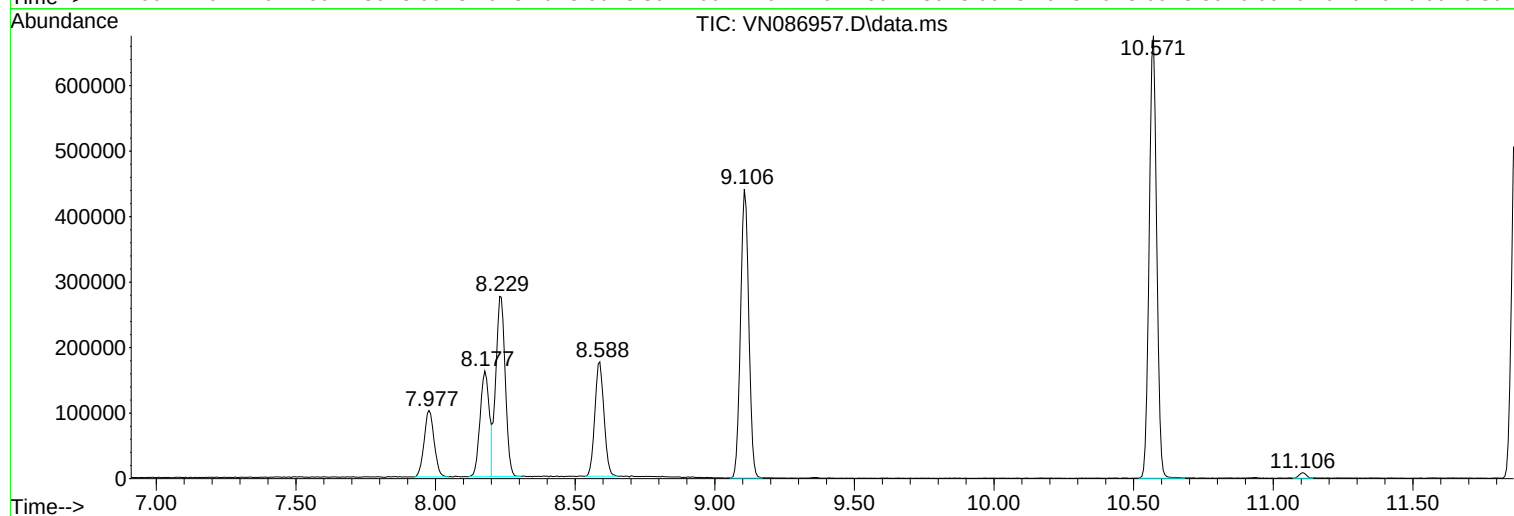
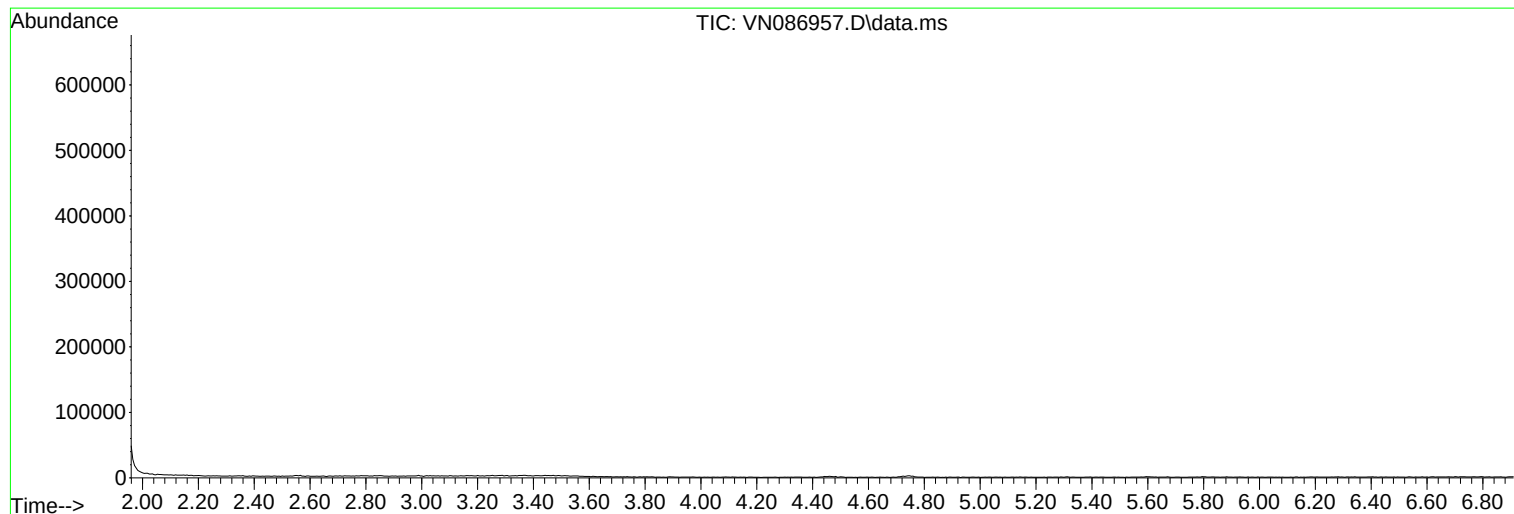
Sum of corrected areas: 6942134

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086957.D
Acq On : 11 Jun 2025 18:26
Operator : JC\MD
Sample : Q2231-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-17-20250604

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086957.D
Acq On : 11 Jun 2025 18:26
Operator : JC\MD
Sample : Q2231-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-17-20250604

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.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_N\Data\VN061125\
Data File : VN086957.D
Acq On : 11 Jun 2025 18:26
Operator : JC\MD
Sample : Q2231-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-17-20250604

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.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:	PARSONS Engineering of New York, Inc.		Date Collected:	06/04/25	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	06/04/25	
Client Sample ID:	TB-20250604		SDG No.:	Q2231	
Lab Sample ID:	Q2231-06		Matrix:	Water	
Analytical Method:	8260D		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086958.D	1		06/11/25 18:48	VN061125

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:	PARSONS Engineering of New York, Inc.			Date Collected:	06/04/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05			Date Received:	06/04/25
Client Sample ID:	TB-20250604			SDG No.:	Q2231
Lab Sample ID:	Q2231-06			Matrix:	Water
Analytical Method:	8260D			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086958.D	1		06/11/25 18:48	VN061125

[illegible]

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	06/04/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/04/25
Client Sample ID:	TB-20250604	SDG No.:	Q2231
Lab Sample ID:	Q2231-06	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086958.D	1		06/11/25 18:48	VN061125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
91-20-3	Naphthalene	2.60	J		15.6	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_N\Data\VN061125\
 Data File : VN086958.D
 Acq On : 11 Jun 2025 18:48
 Operator : JC\MD
 Sample : Q2231-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-20250604

Quant Time: Jun 12 01:38:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

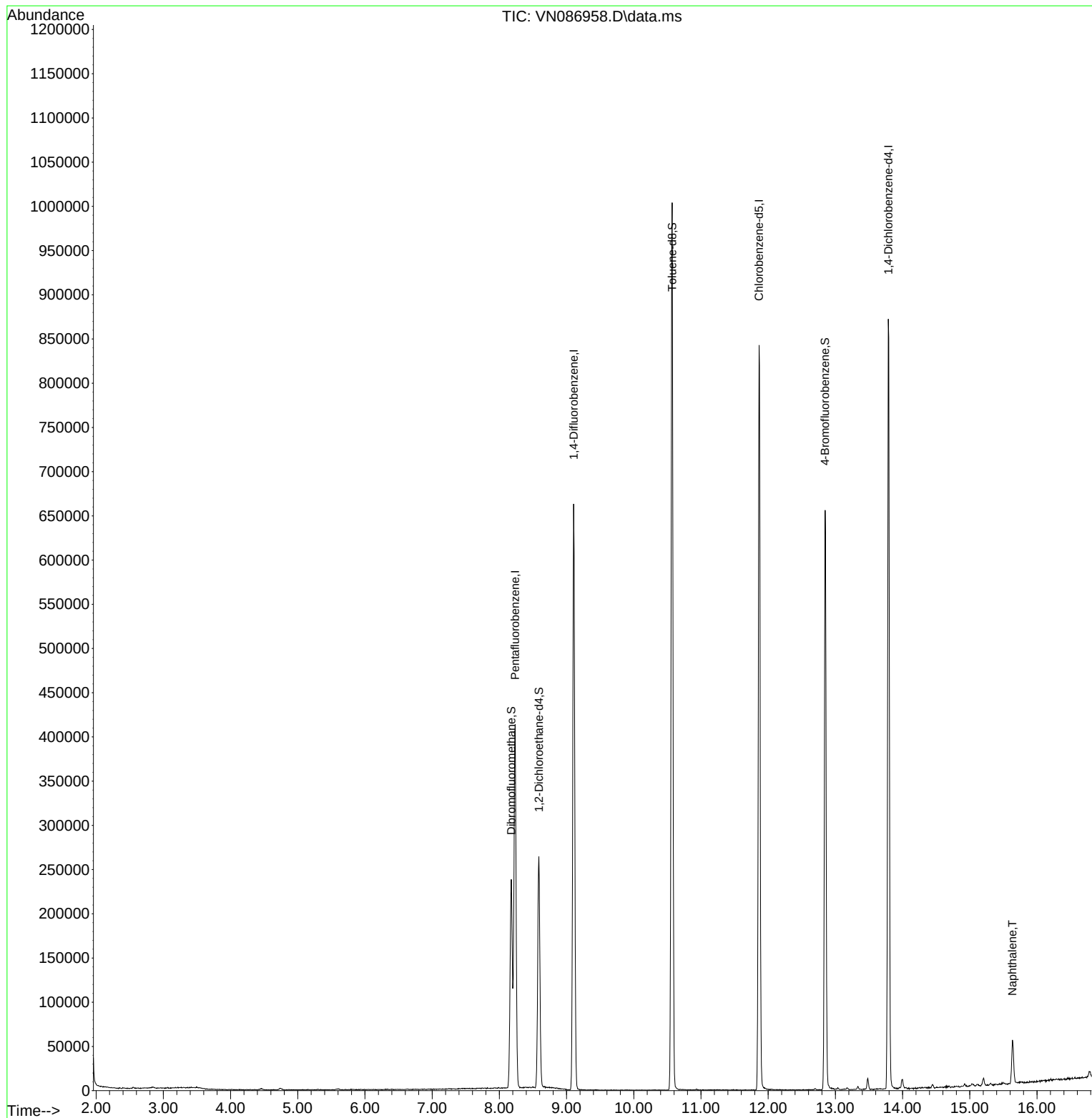
Internal Standards						
1) Pentafluorobenzene	8.235	168	325113	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	613273	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	544198	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	259241	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	212517	48.822	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	97.640%
35) Dibromofluoromethane	8.177	113	180467	49.655	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	99.320%
50) Toluene-d8	10.571	98	750685	52.176	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.360%
62) 4-Bromofluorobenzene	12.847	95	265515	49.671	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	99.340%
Target Compounds						
95) Naphthalene	15.635	128	51515	2.647	ug/l	Qvalue 99

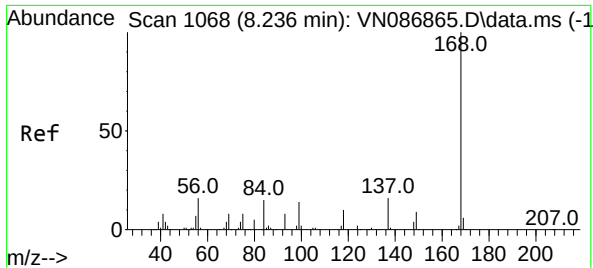
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086958.D
Acq On : 11 Jun 2025 18:48
Operator : JC\MD
Sample : Q2231-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-20250604

Quant Time: Jun 12 01:38:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

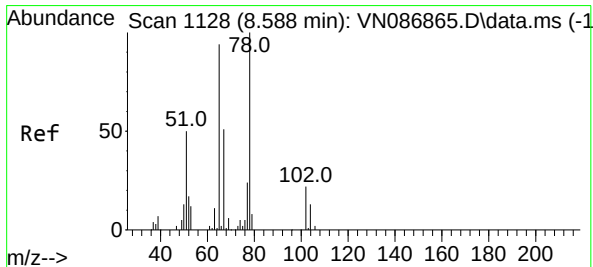
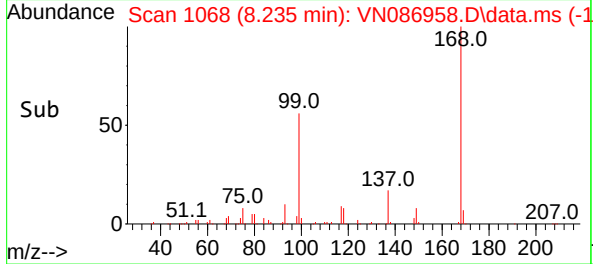
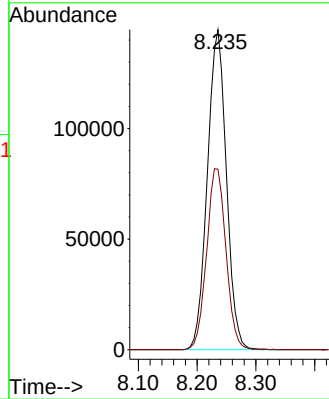
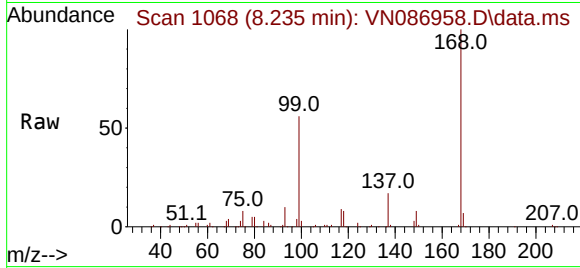




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.001 min
Lab File: VN086958.D
Acq: 11 Jun 2025 18:48

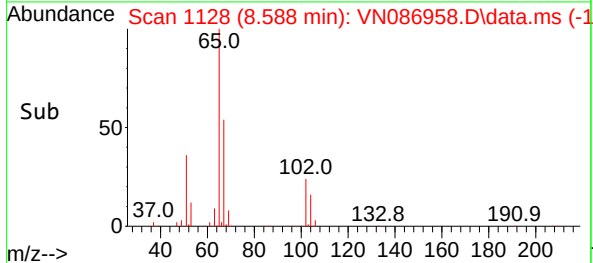
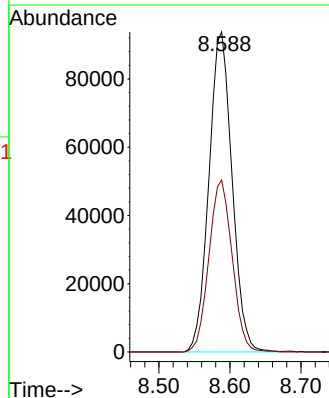
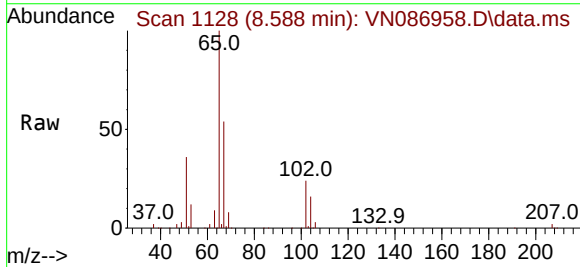
Instrument :
MSVOA_N
ClientSampleId :
TB-20250604

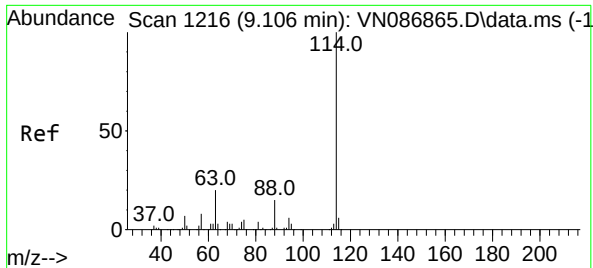
Tgt Ion:168 Resp: 325113
Ion Ratio Lower Upper
168 100
99 56.4 49.1 73.7



#33
1,2-Dichloroethane-d4
Concen: 48.822 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN086958.D
Acq: 11 Jun 2025 18:48

Tgt Ion: 65 Resp: 212517
Ion Ratio Lower Upper
65 100
67 53.9 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086958.D

Acq: 11 Jun 2025 18:48

Instrument :

MSVOA_N

ClientSampleId :

TB-20250604

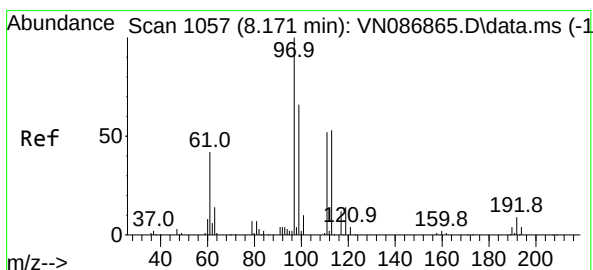
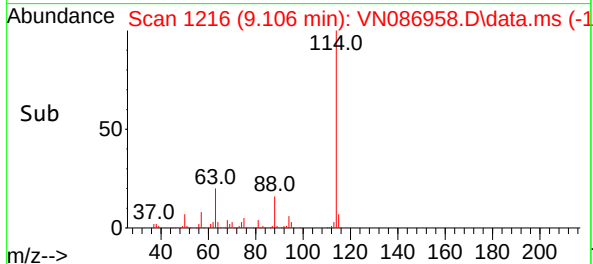
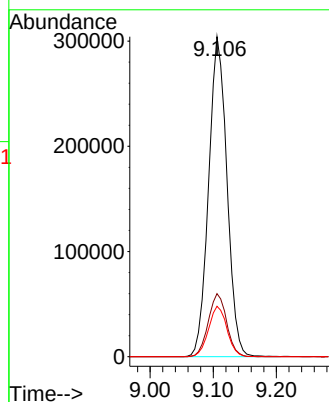
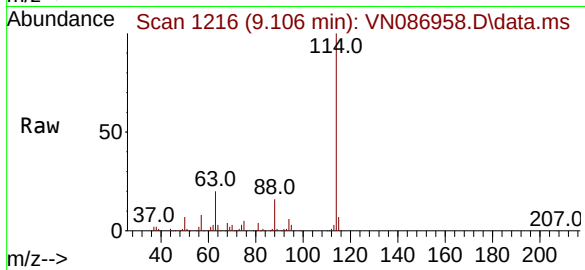
Tgt Ion:114 Resp: 613273

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.6

88 15.8 0.0 30.2



#35

Dibromofluoromethane

Concen: 49.655 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN086958.D

Acq: 11 Jun 2025 18:48

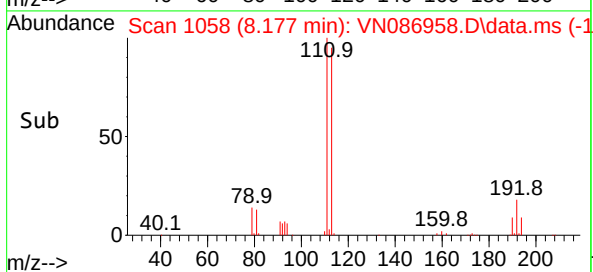
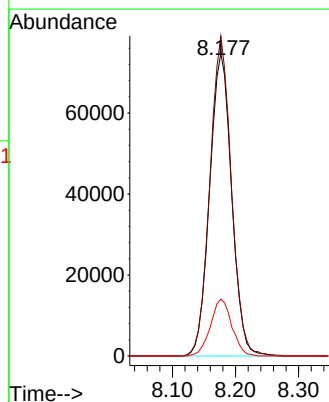
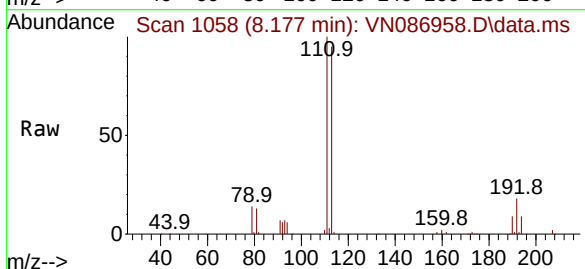
Tgt Ion:113 Resp: 180467

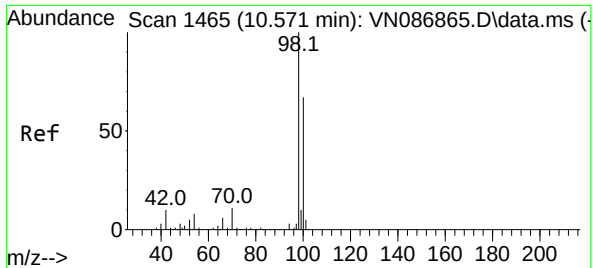
Ion Ratio Lower Upper

113 100

111 103.4 84.2 126.2

192 18.3 14.2 21.4

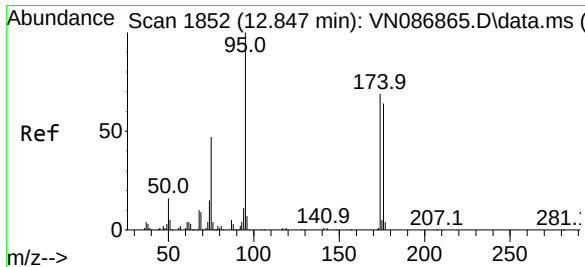
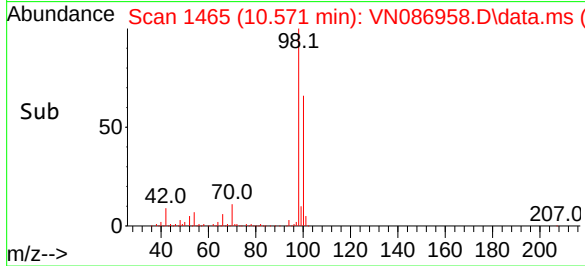
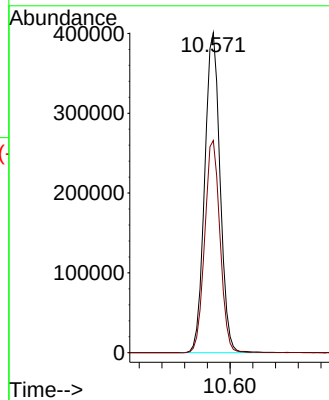
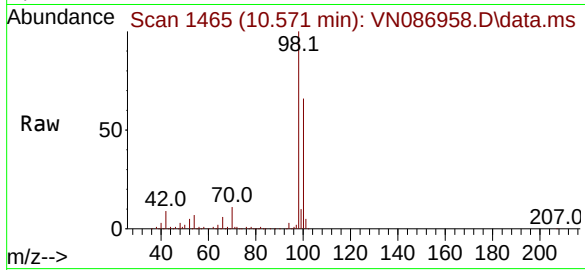




#50
Toluene-d8
Concen: 52.176 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086958.D
Acq: 11 Jun 2025 18:48

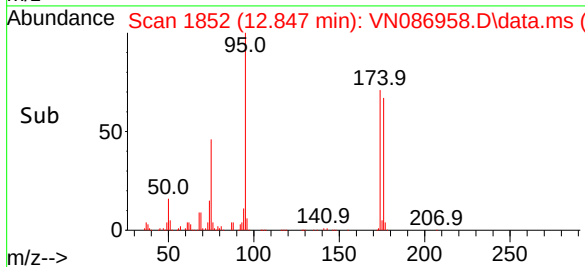
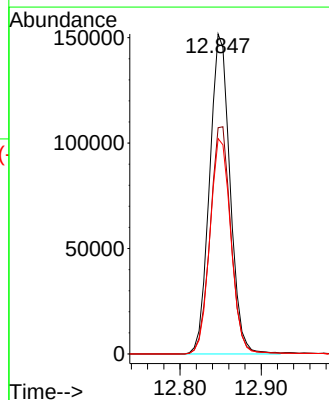
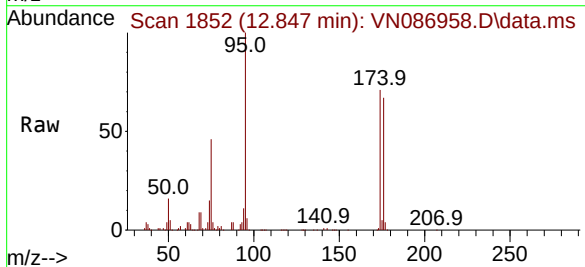
Instrument :
MSVOA_N
ClientSampleId :
TB-20250604

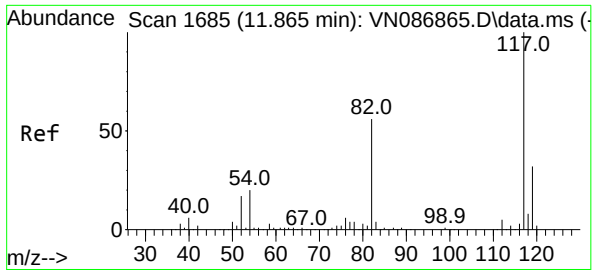
Tgt Ion: 98 Resp: 750685
Ion Ratio Lower Upper
98 100
100 66.0 53.4 80.0



#62
4-Bromofluorobenzene
Concen: 49.671 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086958.D
Acq: 11 Jun 2025 18:48

Tgt Ion: 95 Resp: 265515
Ion Ratio Lower Upper
95 100
174 72.4 0.0 141.8
176 69.4 0.0 132.6

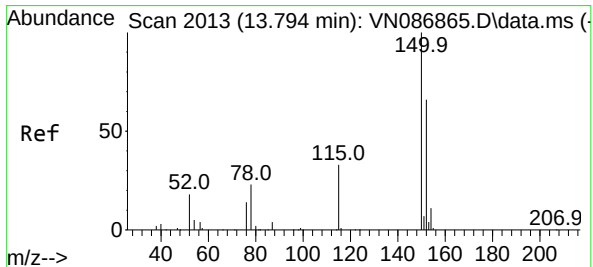
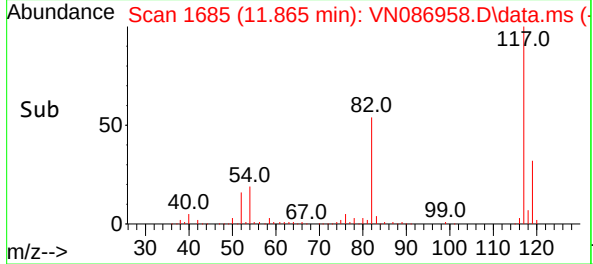
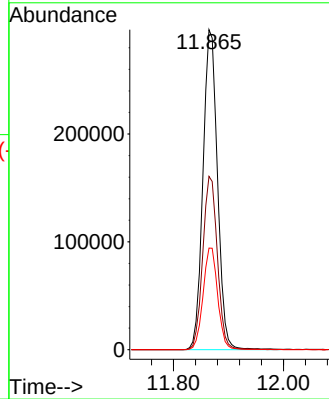
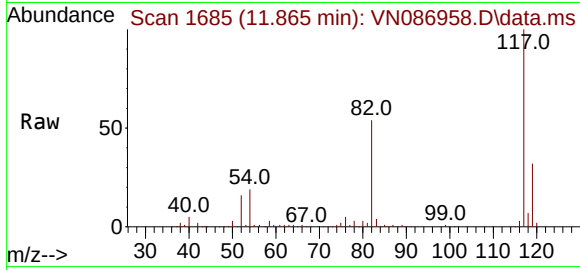




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086958.D
Acq: 11 Jun 2025 18:48

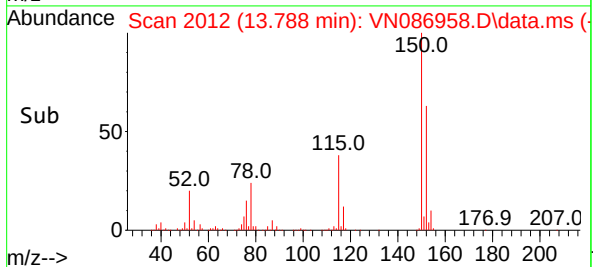
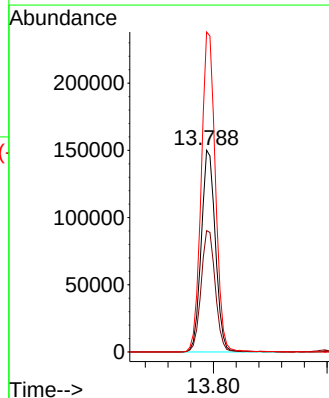
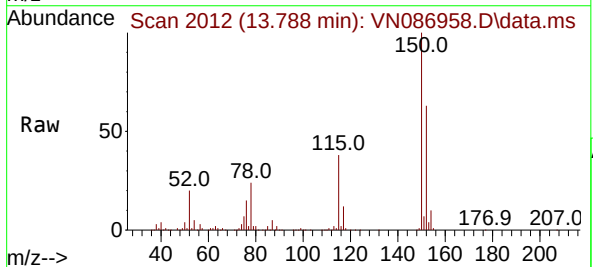
Instrument :
MSVOA_N
ClientSampleId :
TB-20250604

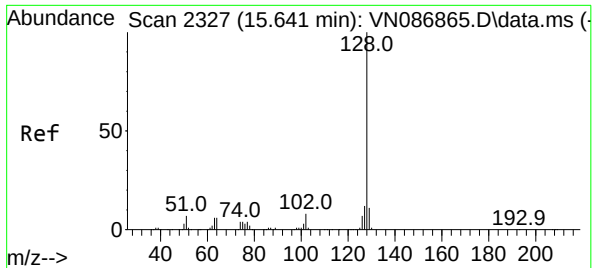
Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.2	44.6	67.0
119	31.8	25.5	38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN086958.D
Acq: 11 Jun 2025 18:48

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.5	30.1	90.5
150	158.6	0.0	345.0





#95

Naphthalene

Concen: 2.647 ug/l

RT: 15.635 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN086958.D

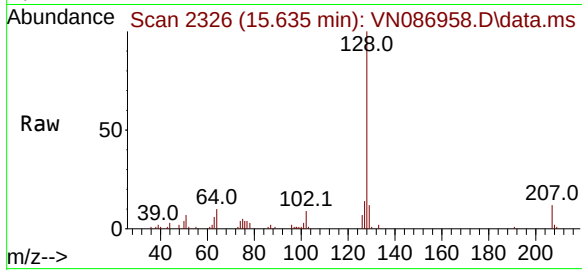
Acq: 11 Jun 2025 18:48

Instrument :

MSVOA_N

ClientSampleId :

TB-20250604



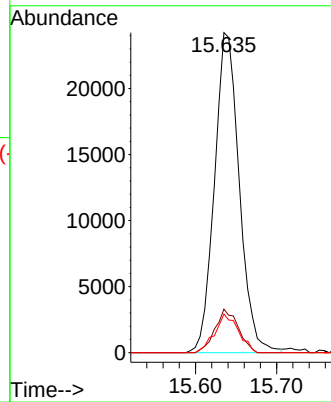
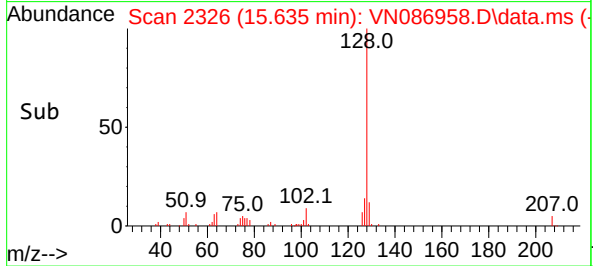
Tgt Ion:128 Resp: 51515

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.2

129 11.5 8.8 13.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086958.D
Acq On : 11 Jun 2025 18:48
Operator : JC\MD
Sample : Q2231-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-20250604

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_N\methods\82N060625W.M

Title : SW846 8260

Signal : TIC: VN086958.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.177	1047	1058	1062	rBV	235902	552335	29.33%	5.728%
2	8.235	1062	1068	1080	rVB	411084	940012	49.92%	9.749%
3	8.588	1119	1128	1140	rBV	261636	591766	31.43%	6.137%
4	9.106	1207	1216	1227	rBV	662466	1341350	71.24%	13.911%
5	10.571	1455	1465	1483	rBV	1003533	1882871	100.00%	19.527%
6	11.865	1677	1685	1700	rBV	841981	1549537	82.30%	16.070%
7	12.847	1843	1852	1867	rBV	655815	1155294	61.36%	11.981%
8	13.482	1955	1960	1966	rVB	12633	20091	1.07%	0.208%
9	13.788	2005	2012	2027	rBV	870424	1506573	80.01%	15.624%
10	15.635	2320	2326	2335	rBV	49497	102752	5.46%	1.066%

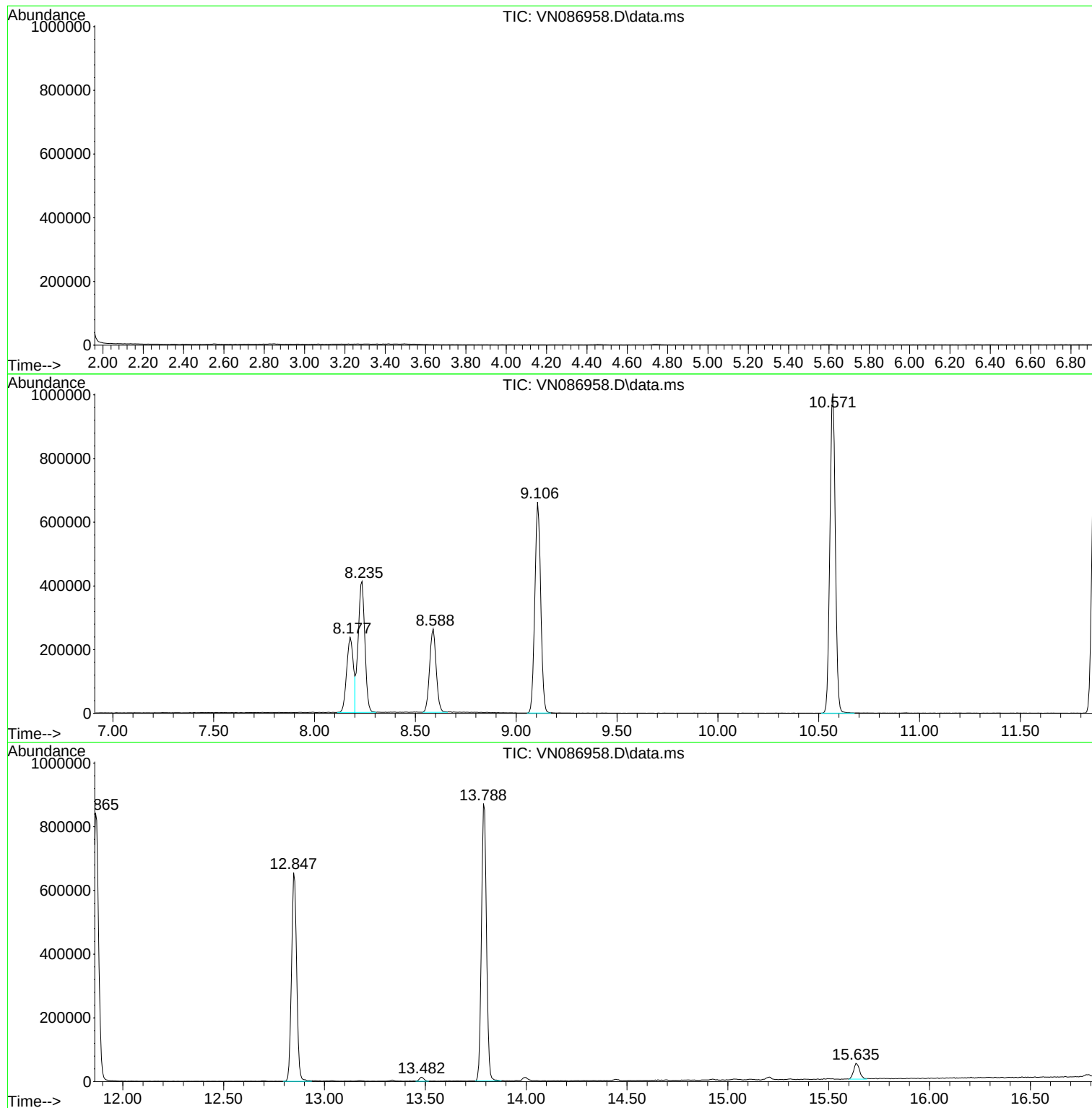
Sum of corrected areas: 9642581

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086958.D
Acq On : 11 Jun 2025 18:48
Operator : JC\MD
Sample : Q2231-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-20250604

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086958.D
Acq On : 11 Jun 2025 18:48
Operator : JC\MD
Sample : Q2231-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-20250604

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.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_N\Data\VN061125\
Data File : VN086958.D
Acq On : 11 Jun 2025 18:48
Operator : JC\MD
Sample : Q2231-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-20250604

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.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: PARS02
 Lab Code: CHEM Case No.: Q2231 SAS No.: Q2231 SDG No.: Q2231
 Instrument ID: MSVOA_N Calibration Date(s): 06/06/2025 06/06/2025
 Heated Purge: (Y/N) N Calibration Time(s): 12:44 14:49
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF001 = VN086862.D			RRF005 = VN086863.D		RRF020 = VN086864.D		
	RRF050 = VN086865.D			RRF100 = VN086866.D		RRF150 = VN086867.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Dichlorodifluoromethane	0.467	0.444	0.539	0.501	0.535	0.506	0.499	7.5
Chloromethane	0.762	0.654	0.645	0.597	0.617	0.587	0.644	9.9
Vinyl Chloride	0.670	0.670	0.684	0.640	0.673	0.648	0.664	2.5
Bromomethane		0.375	0.380	0.357	0.379	0.368	0.372	2.6
Chloroethane	0.460	0.444	0.442	0.408	0.418	0.402	0.429	5.4
Trichlorofluoromethane	0.882	0.903	0.904	0.834	0.858	0.825	0.868	3.9
1,1,2-Trichlorotrifluoroethane	0.554	0.567	0.563	0.519	0.546	0.520	0.545	3.8
1,1-Dichloroethene	0.573	0.593	0.563	0.533	0.550	0.527	0.557	4.4
Acetone	0.426	0.366	0.366	0.322	0.334	0.316	0.355	11.5
Carbon Disulfide	1.718	1.622	1.542	1.426	1.496	1.433	1.539	7.4
Methyl tert-butyl Ether	2.120	2.038	2.051	1.933	2.021	1.926	2.015	3.7
Methyl Acetate	1.035	1.049	1.078	0.986	1.049	1.011	1.035	3.1
Methylene Chloride	0.822	0.688	0.643	0.605	0.629	0.601	0.665	12.5
trans-1,2-Dichloroethene	0.700	0.674	0.621	0.567	0.591	0.561	0.619	9.3
1,1-Dichloroethane	1.192	1.153	1.156	1.063	1.110	1.043	1.120	5.2
Cyclohexane		1.303	1.116	1.004	1.030	0.976	1.086	12.2
2-Butanone	0.604	0.598	0.604	0.551	0.573	0.533	0.577	5.2
Carbon Tetrachloride	0.453	0.449	0.434	0.409	0.435	0.421	0.433	3.9
cis-1,2-Dichloroethene	0.786	0.766	0.762	0.699	0.729	0.701	0.740	4.9
Bromochloromethane	0.579	0.564	0.616	0.466	0.517	0.560	0.550	9.5
Chloroform	1.235	1.152	1.145	1.061	1.085	1.030	1.118	6.7
1,1,1-Trichloroethane	1.029	0.995	0.969	0.895	0.925	0.893	0.951	5.9
Methylcyclohexane	0.633	0.645	0.588	0.570	0.603	0.589	0.605	4.8
Benzene	1.588	1.501	1.444	1.345	1.414	1.371	1.444	6.2
1,2-Dichloroethane	0.473	0.456	0.444	0.411	0.430	0.413	0.438	5.6
Trichloroethene	0.359	0.360	0.341	0.327	0.340	0.328	0.342	4.2
1,2-Dichloropropane	0.366	0.369	0.354	0.332	0.352	0.335	0.351	4.4
Bromodichloromethane	0.510	0.484	0.480	0.457	0.483	0.465	0.480	3.8
4-Methyl-2-Pentanone	0.505	0.549	0.576	0.538	0.562	0.528	0.543	4.6
Toluene	0.918	0.914	0.885	0.835	0.883	0.859	0.882	3.6

* 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.



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PARS02
 Lab Code: CHEM Case No.: Q2231 SAS No.: Q2231 SDG No.: Q2231
 Instrument ID: MSVOA_N Calibration Date(s): 06/06/2025 06/06/2025
 Heated Purge: (Y/N) N Calibration Time(s): 12:44 14:49
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF001 = VN086862.D	RRF005 = VN086863.D	RRF020 = VN086864.D	RRF050 = VN086865.D	RRF100 = VN086866.D	RRF150 = VN086867.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
t-1,3-Dichloropropene	0.571	0.526	0.524	0.522	0.548	0.530	0.537	3.6
cis-1,3-Dichloropropene	0.609	0.577	0.564	0.551	0.584	0.561	0.574	3.6
1,1,2-Trichloroethane	0.359	0.355	0.342	0.322	0.335	0.323	0.340	4.7
2-Hexanone	0.312	0.282	0.363	0.368	0.397	0.376	0.350	12.4
Dibromochloromethane	0.361	0.351	0.358	0.340	0.363	0.349	0.354	2.5
1,2-Dibromoethane	0.353	0.358	0.354	0.329	0.354	0.341	0.348	3.2
Tetrachloroethene	0.355	0.331	0.312	0.294	0.313	0.293	0.316	7.5
Chlorobenzene	1.233	1.135	1.107	1.023	1.089	1.030	1.103	7
Ethyl Benzene	1.989	1.975	1.907	1.796	1.913	1.816	1.900	4.2
m/p-Xylenes	0.730	0.751	0.741	0.701	0.736	0.703	0.727	2.8
o-Xylene	0.714	0.699	0.702	0.674	0.711	0.678	0.696	2.4
Styrene	1.177	1.193	1.226	1.162	1.229	1.164	1.192	2.5
Bromoform	0.217	0.266	0.276	0.265	0.286	0.267	0.263	9.1
Isopropylbenzene	3.864	3.749	3.649	3.426	3.621	3.546	3.643	4.2
1,1,2,2-Tetrachloroethane	1.292	1.299	1.273	1.178	1.205	1.157	1.234	5
1,3-Dichlorobenzene	1.763	1.709	1.657	1.554	1.612	1.566	1.644	5
1,4-Dichlorobenzene	1.820	1.786	1.657	1.572	1.642	1.576	1.676	6.3
1,2-Dichlorobenzene	1.675	1.651	1.596	1.500	1.557	1.496	1.579	4.8
1,2-Dibromo-3-Chloropropane	0.339	0.317	0.290	0.272	0.283	0.270	0.295	9.3
1,2,4-Trichlorobenzene	1.042	1.037	0.991	0.969	1.016	0.994	1.008	2.8
1,2,3-Trichlorobenzene	1.073	1.009	0.993	0.950	1.000	0.987	1.002	4
1,2-Dichloroethane-d4		0.732	0.707	0.500	0.656	0.751	0.669	15.1
Dibromofluoromethane		0.303	0.310	0.219	0.298	0.351	0.296	16.2
Toluene-d8		1.245	1.203	0.861	1.178	1.377	1.173	16.2
4-Bromofluorobenzene		0.441	0.446	0.325	0.446	0.521	0.436	16.2

* 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_N\methods\
 Method File : 82N060625W.M
 Title : SW846 8260
 Last Update : Sat Jun 07 02:12:50 2025
 Response Via : Initial Calibration

Calibration Files

1 =VN086862.D 5 =VN086863.D 20 =VN086864.D 50 =VN086865.D 100 =VN086866.D 150 =VN086867.D

	Compound	1	5	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.467	0.444	0.539	0.501	0.535	0.506	0.499	7.51
3) P	Chloromethane	0.762	0.654	0.645	0.597	0.617	0.587	0.644	9.85
4) C	Vinyl Chloride	0.670	0.670	0.684	0.640	0.673	0.648	0.664	2.49#
5) T	Bromomethane		0.375	0.380	0.357	0.379	0.368	0.372	2.57
6) T	Chloroethane	0.460	0.444	0.442	0.408	0.418	0.402	0.429	5.37
7) T	Trichlorofluor...	0.882	0.903	0.904	0.834	0.858	0.825	0.868	3.93
8) T	Diethyl Ether	0.372	0.397	0.383	0.363	0.384	0.369	0.378	3.28
9) T	1,1,2-Trichlor...	0.554	0.567	0.563	0.519	0.546	0.520	0.545	3.83
10) T	Methyl Iodide		0.720	0.729	0.683	0.722	0.679	0.707	3.35
11) T	Tert butyl alc...		0.192	0.194	0.176	0.180	0.166	0.182	6.37
12) CM	1,1-Dichloroet...	0.573	0.593	0.563	0.533	0.550	0.527	0.557	4.44#
13) T	Acrolein		0.073	0.051	0.045	0.052	0.066	0.057	20.26
14) T	Allyl chloride	0.985	0.911	0.925	0.865	0.905	0.947	0.923	4.40
15) T	Acrylonitrile	0.434	0.434	0.445	0.407	0.423	0.404	0.425	3.82
16) T	Acetone	0.426	0.366	0.366	0.322	0.334	0.316	0.355	11.53
17) T	Carbon Disulfide	1.718	1.621	1.542	1.426	1.496	1.433	1.539	7.38
18) T	Methyl Acetate	1.035	1.049	1.078	0.986	1.049	1.011	1.035	3.10
19) T	Methyl tert-bu...	2.120	2.038	2.051	1.933	2.021	1.926	2.015	3.69
20) T	Methylene Chlo...	0.822	0.688	0.643	0.605	0.629	0.601	0.665	12.52
21) T	trans-1,2-Dich...	0.700	0.674	0.621	0.567	0.591	0.561	0.619	9.25
22) T	Diisopropyl ether	2.018	2.020	2.036	1.856	1.915	1.828	1.945	4.70
23) T	Vinyl Acetate	1.743	1.692	1.715	1.591	1.604	1.517	1.644	5.29
24) P	1,1-Dichloroet...	1.192	1.152	1.156	1.063	1.110	1.043	1.120	5.17
25) T	2-Butanone	0.604	0.598	0.604	0.551	0.573	0.533	0.577	5.18
26) T	2,2-Dichloropr...	0.967	0.796	0.778	0.905	0.912	0.868	0.871	8.32
27) T	cis-1,2-Dichlo...	0.786	0.766	0.762	0.699	0.729	0.701	0.740	4.93
28) T	Bromochloromet...	0.579	0.564	0.616	0.466	0.517	0.560	0.550	9.48
29) T	Tetrahydrofuran	0.390	0.390	0.399	0.358	0.372	0.346	0.376	5.46
30) C	Chloroform	1.235	1.151	1.145	1.061	1.085	1.030	1.118	6.66#
31) T	Cyclohexane		1.303	1.116	1.004	1.030	0.976	1.086	12.21
32) T	1,1,1-Trichlor...	1.029	0.995	0.969	0.895	0.925	0.893	0.951	5.88
33) S	1,2-Dichloroet...		0.732	0.707	0.500	0.656	0.751	0.669	15.08
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.303	0.310	0.219	0.298	0.351	0.296	16.15
36) T	1,1-Dichloropr...	0.467	0.458	0.438	0.418	0.442	0.426	0.442	4.23
37) T	Ethyl Acetate	0.544	0.615	0.577	0.536	0.565	0.535	0.562	5.48
38) T	Carbon Tetrach...	0.453	0.449	0.434	0.409	0.435	0.421	0.433	3.88
39) T	Methylcyclohexane	0.633	0.645	0.588	0.570	0.603	0.589	0.605	4.75
40) TM	Benzene	1.588	1.501	1.444	1.345	1.414	1.371	1.444	6.20
41) T	Methacrylonitrile	0.356	0.319	0.318	0.303	0.299	0.299	0.316	6.84
42) TM	1,2-Dichloroet...	0.473	0.456	0.444	0.411	0.430	0.413	0.438	5.60
43) T	Isopropyl Acetate	0.975	0.950	0.906	0.852	0.884	0.845	0.902	5.79
44) TM	Trichloroethene	0.359	0.360	0.341	0.327	0.340	0.327	0.342	4.17
45) C	1,2-Dichloropr...	0.366	0.369	0.354	0.332	0.352	0.335	0.351	4.40#
46) T	Dibromomethane	0.233	0.242	0.241	0.221	0.237	0.226	0.233	3.54
47) T	Bromodichlorom...	0.510	0.484	0.480	0.457	0.483	0.465	0.480	3.80
48) T	Methyl methacr...	0.444	0.415	0.421	0.394	0.421	0.397	0.415	4.40
49) T	1,4-Dioxane	0.006	0.007	0.008	0.008	0.008	0.007	0.008	9.40
50) S	Toluene-d8		1.245	1.203	0.861	1.178	1.377	1.173	16.23
51) T	4-Methyl-2-Pen...	0.505	0.549	0.576	0.538	0.562	0.528	0.543	4.64
52) CM	Toluene	0.918	0.914	0.885	0.835	0.883	0.859	0.882	3.61#
53) T	t-1,3-Dichloro...	0.571	0.526	0.524	0.522	0.548	0.530	0.537	3.59
54) T	cis-1,3-Dichlo...	0.609	0.577	0.564	0.551	0.584	0.561	0.574	3.61
55) T	1,1,2-Trichlor...	0.359	0.355	0.342	0.322	0.335	0.323	0.340	4.66
56) T	Ethyl methacry...	0.433	0.516	0.567	0.556	0.595	0.578	0.541	10.92

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N060625W.M

57)	T	1,3-Dichloropr...	0.643	0.600	0.587	0.561	0.583	0.559	0.589	5.27
58)	T	2-Chloroethyl ...	0.278	0.305	0.334	0.274	0.340	0.405	0.323	15.07
59)	T	2-Hexanone	0.312	0.282	0.363	0.368	0.397	0.376	0.350	12.36
60)	T	Dibromochlorom...	0.361	0.351	0.358	0.340	0.363	0.349	0.354	2.49
61)	T	1,2-Dibromoethane	0.353	0.358	0.354	0.329	0.354	0.341	0.348	3.18
62)	S	4-Bromofluorob...	0.441	0.446	0.325	0.446	0.521	0.436		16.16
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.355	0.331	0.312	0.294	0.313	0.293	0.316	7.51
65)	PM	Chlorobenzene	1.233	1.135	1.107	1.023	1.089	1.030	1.103	7.01
66)	T	1,1,1,2-Tetrac...	0.362	0.374	0.358	0.338	0.356	0.338	0.354	3.99
67)	C	Ethyl Benzene	1.989	1.975	1.907	1.796	1.913	1.816	1.899	4.19#
68)	T	m/p-Xylenes	0.730	0.751	0.741	0.701	0.736	0.703	0.727	2.82
69)	T	o-Xylene	0.714	0.699	0.702	0.674	0.711	0.678	0.696	2.42
70)	T	Styrene	1.177	1.193	1.226	1.162	1.229	1.164	1.192	2.51
71)	P	Bromoform	0.217	0.266	0.276	0.265	0.286	0.267	0.263	9.09
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.864	3.749	3.649	3.426	3.621	3.546	3.643	4.21
74)	T	N-amyl acetate	1.376	1.110	1.187	1.266	1.372	1.327	1.273	8.42
75)	P	1,1,2,2-Tetrac...	1.292	1.299	1.273	1.178	1.205	1.157	1.234	4.99
76)	T	1,2,3-Trichlor...	1.297	1.189	1.129	1.173	1.201	1.142	1.189	5.03
77)	T	Bromobenzene	0.870	0.855	0.840	0.790	0.838	0.819	0.835	3.36
78)	T	n-propylbenzene	4.530	4.627	4.449	4.211	4.424	4.317	4.427	3.35
79)	T	2-Chlorotoluene	2.852	2.723	2.674	2.507	2.618	2.554	2.655	4.69
80)	T	1,3,5-Trimethy...	3.004	3.091	3.035	2.898	3.064	2.953	3.007	2.39
81)	T	trans-1,4-Dich...	0.510	0.522	0.476	0.546	0.528	0.516		5.06
82)	T	4-Chlorotoluene	2.899	2.757	2.671	2.531	2.664	2.595	2.686	4.81
83)	T	tert-Butylbenzene	2.942	2.810	2.736	2.617	2.745	2.668	2.753	4.14
84)	T	1,2,4-Trimethy...	2.952	3.122	3.063	2.914	3.075	2.968	3.016	2.73
85)	T	sec-Butylbenzene	4.114	4.126	4.037	3.829	4.018	3.861	3.998	3.15
86)	T	p-Isopropyltol...	3.305	3.425	3.321	3.184	3.366	3.227	3.305	2.68
87)	T	1,3-Dichlorobe...	1.763	1.709	1.657	1.554	1.612	1.566	1.644	5.01
88)	T	1,4-Dichlorobe...	1.820	1.786	1.657	1.572	1.642	1.576	1.676	6.27
89)	T	n-Butylbenzene	3.473	3.292	3.140	3.059	3.188	3.054	3.201	4.99
90)	T	Hexachloroethane	0.580	0.537	0.569	0.537	0.577	0.562	0.560	3.43
91)	T	1,2-Dichlorobe...	1.675	1.651	1.596	1.500	1.557	1.496	1.579	4.77
92)	T	1,2-Dibromo-3-...	0.339	0.317	0.290	0.272	0.283	0.270	0.295	9.29
93)	T	1,2,4-Trichlor...	1.042	1.037	0.991	0.969	1.016	0.994	1.008	2.82
94)	T	Hexachlorobuta...	0.364	0.391	0.385	0.363	0.382	0.369	0.376	3.11
95)	T	Naphthalene	3.820	3.727	3.761	3.600	3.839	3.772	3.753	2.27
96)	T	1,2,3-Trichlor...	1.073	1.009	0.993	0.950	1.000	0.987	1.002	4.05

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086862.D
 Acq On : 06 Jun 2025 12:44
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:54:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.235	168	212682	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	393457	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	348010	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	167399	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	2.153	85	1985	0.936	ug/l	72
3) Chloromethane	2.400	50	3241	1.184	ug/l	98
4) Vinyl Chloride	2.559	62	2848	1.008	ug/l #	88
6) Chloroethane	3.159	64	1957	1.073	ug/l #	79
7) Trichlorofluoromethane	3.530	101	3752	1.017	ug/l	97
8) Diethyl Ether	3.994	74	1583	0.984	ug/l	76
9) 1,1,2-Trichlorotrifluo...	4.377	101	2358m	1.017	ug/l	
12) 1,1-Dichloroethene	4.365	96	2436	1.029	ug/l	85
14) Allyl chloride	5.041	41	4189	1.067	ug/l #	75
15) Acrylonitrile	5.735	53	9222	5.106	ug/l	96
16) Acetone	4.459	43	9069	6.006	ug/l	95
17) Carbon Disulfide	4.730	76	7306	1.116	ug/l	97
18) Methyl Acetate	5.053	43	4402	1.000	ug/l #	66
19) Methyl tert-butyl Ether	5.824	73	9019	1.052	ug/l	92
20) Methylene Chloride	5.294	84	3496	1.237	ug/l	93
21) trans-1,2-Dichloroethene	5.800	96	2979	1.131	ug/l	87
22) Diisopropyl ether	6.682	45	8584	1.037	ug/l #	96
23) Vinyl Acetate	6.618	43	37075	5.303	ug/l	95
24) 1,1-Dichloroethane	6.588	63	5071	1.065	ug/l #	81
25) 2-Butanone	7.500	43	12841	5.231	ug/l	93
26) 2,2-Dichloropropane	7.500	77	4112	1.110	ug/l	94
27) cis-1,2-Dichloroethene	7.494	96	3345	1.062	ug/l	95
28) Bromochloromethane	7.824	49	2464	1.052	ug/l #	88
29) Tetrahydrofuran	7.853	42	8301	5.191	ug/l	100
30) Chloroform	7.971	83	5255	1.105	ug/l	97
32) 1,1,1-Trichloroethane	8.171	97	4378	1.082	ug/l #	50
36) 1,1-Dichloropropene	8.376	75	3678	1.059	ug/l	96
37) Ethyl Acetate	7.577	43	4282	0.968	ug/l #	78
38) Carbon Tetrachloride	8.376	117	3563	1.045	ug/l #	93
39) Methylcyclohexane	9.606	83	4981	1.046	ug/l #	90
40) Benzene	8.612	78	12498	1.100	ug/l	100
41) Methacrylonitrile	7.782	41	2799	1.127	ug/l	89
42) 1,2-Dichloroethane	8.682	62	3725	1.081	ug/l	82
43) Isopropyl Acetate	8.694	43	7673	1.081	ug/l #	96
44) Trichloroethene	9.365	130	2822	1.047	ug/l	71
45) 1,2-Dichloropropane	9.629	63	2883	1.043	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086862.D
 Acq On : 06 Jun 2025 12:44
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:54:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration

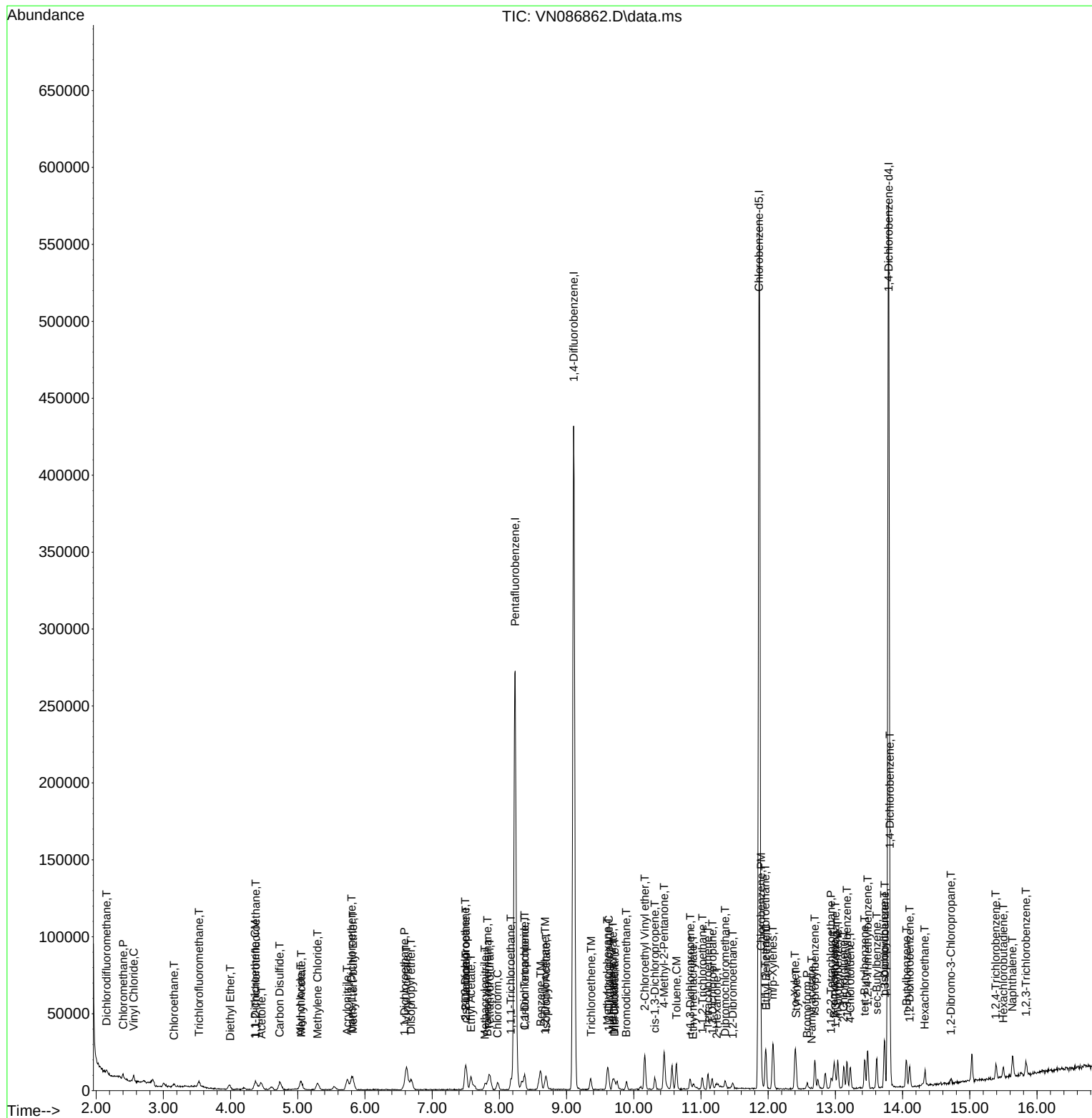
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	9.712	93	1835	0.999	ug/l	94
47) Bromodichloromethane	9.888	83	4017	1.063	ug/l #	96
48) Methyl methacrylate	9.688	41	3492	1.069	ug/l	88
49) 1,4-Dioxane	9.706	88	1004	16.891	ug/l #	74
51) 4-Methyl-2-Pentanone	10.453	43	19886	4.653	ug/l	99
52) Toluene	10.635	92	7227	1.041	ug/l	95
53) t-1,3-Dichloropropene	10.841	75	4494	1.064	ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	4792	1.060	ug/l	97
55) 1,1,2-Trichloroethane	11.023	97	2828	1.058	ug/l	89
56) Ethyl methacrylate	10.882	69	3406	0.800	ug/l #	85
57) 1,3-Dichloropropane	11.170	76	5062	1.092	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.165	63	10924	4.304	ug/l	97
59) 2-Hexanone	11.235	43	12295m	4.466	ug/l	
60) Dibromochloromethane	11.359	129	2843	1.021	ug/l	96
61) 1,2-Dibromoethane	11.470	107	2777	1.014	ug/l	96
64) Tetrachloroethene	11.106	164	2473	1.123	ug/l	94
65) Chlorobenzene	11.894	112	8581	1.118	ug/l #	87
66) 1,1,1,2-Tetrachloroethane	11.959	131	2523	1.023	ug/l #	63
67) Ethyl Benzene	11.970	91	13845	1.047	ug/l	94
68) m/p-Xylenes	12.070	106	10163	2.008	ug/l	95
69) o-Xylene	12.400	106	4970	1.025	ug/l	93
70) Styrene	12.417	104	8189	0.987	ug/l	98
71) Bromoform	12.582	173	1508	0.825	ug/l #	78
73) Isopropylbenzene	12.694	105	12938	1.061	ug/l	98
74) N-amyl acetate	12.647	43	4608m	1.138	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.935	83	4326	1.047	ug/l #	93
76) 1,2,3-Trichloropropane	13.000	75	4343m	1.088	ug/l	
77) Bromobenzene	12.982	156	2913	1.042	ug/l	96
78) n-propylbenzene	13.035	91	15168	1.023	ug/l	98
79) 2-Chlorotoluene	13.123	91	9550	1.074	ug/l	97
80) 1,3,5-Trimethylbenzene	13.170	105	10058	0.999	ug/l	96
82) 4-Chlorotoluene	13.223	91	9706	1.079	ug/l	96
83) tert-Butylbenzene	13.435	119	9849	1.069	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	9882	0.979	ug/l	99
85) sec-Butylbenzene	13.617	105	13775	1.029	ug/l	100
86) p-Isopropyltoluene	13.729	119	11065	1.000	ug/l	97
87) 1,3-Dichlorobenzene	13.735	146	5903	1.073	ug/l	94
88) 1,4-Dichlorobenzene	13.811	146	6094m	1.086	ug/l	
89) n-Butylbenzene	14.058	91	11627	1.085	ug/l	94
90) Hexachloroethane	14.329	117	1942	1.036	ug/l	93
91) 1,2-Dichlorobenzene	14.106	146	5607	1.061	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	1136	1.150	ug/l	78
93) 1,2,4-Trichlorobenzene	15.388	180	3489	1.034	ug/l	98
94) Hexachlorobutadiene	15.500	225	1219	0.969	ug/l	88
95) Naphthalene	15.635	128	12789	1.018	ug/l	98
96) 1,2,3-Trichlorobenzene	15.835	180	3594	1.072	ug/l	96

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086863.D
 Acq On : 06 Jun 2025 13:17
 Operator : JC\MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:55:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	229701	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	423980	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	371851	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	181065	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	16818	5.468	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	10.940%#		
35) Dibromofluoromethane	8.177	113	12867	5.121	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.240%#		
50) Toluene-d8	10.571	98	52794	5.308	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.620%#		
62) 4-Bromofluorobenzene	12.847	95	18697	5.059	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	10.120%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.154	85	10196	4.452	ug/l	93
3) Chloromethane	2.395	50	15025	5.080	ug/l	98
4) Vinyl Chloride	2.554	62	15384	5.043	ug/l	97
5) Bromomethane	2.989	94	8606	5.041	ug/l	97
6) Chloroethane	3.154	64	10190	5.171	ug/l	96
7) Trichlorofluoromethane	3.518	101	20740	5.203	ug/l	99
8) Diethyl Ether	3.971	74	9121	5.252	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.401	101	13034	5.205	ug/l	97
10) Methyl Iodide	4.606	142	16530	5.092	ug/l	98
11) Tert butyl alcohol	5.542	59	22000	26.363	ug/l	99
12) 1,1-Dichloroethene	4.359	96	13610	5.323	ug/l	94
13) Acrolein	4.195	56	8401	31.804	ug/l	99
14) Allyl chloride	5.042	41	20925	4.935	ug/l	99
15) Acrylonitrile	5.736	53	49826	25.545	ug/l	99
16) Acetone	4.448	43	41981	25.741	ug/l	99
17) Carbon Disulfide	4.736	76	37246	5.267	ug/l	97
18) Methyl Acetate	5.048	43	24096	5.070	ug/l	97
19) Methyl tert-butyl Ether	5.812	73	46823	5.058	ug/l	95
20) Methylene Chloride	5.300	84	15809	5.178	ug/l	96
21) trans-1,2-Dichloroethene	5.806	96	15480	5.442	ug/l #	81
22) Diisopropyl ether	6.689	45	46396	5.191	ug/l	99
23) Vinyl Acetate	6.618	43	194334	25.735	ug/l	100
24) 1,1-Dichloroethane	6.583	63	26473	5.147	ug/l	99
25) 2-Butanone	7.494	43	68629	25.888	ug/l	99
26) 2,2-Dichloropropane	7.500	77	18288	4.571	ug/l	100
27) cis-1,2-Dichloroethene	7.500	96	17594	5.172	ug/l	98
28) Bromochloromethane	7.830	49	12958	5.124	ug/l #	97
29) Tetrahydrofuran	7.853	42	44749	25.912	ug/l	98
30) Chloroform	7.977	83	26450	5.149	ug/l	95
31) Cyclohexane	8.271	56	29938	6.002	ug/l	95
32) 1,1,1-Trichloroethane	8.177	97	22857	5.232	ug/l #	50
36) 1,1-Dichloropropene	8.377	75	19410	5.184	ug/l	98
37) Ethyl Acetate	7.571	43	26073	5.470	ug/l	97
38) Carbon Tetrachloride	8.371	117	19056	5.184	ug/l	99
39) Methylcyclohexane	9.606	83	27353	5.333	ug/l	95
40) Benzene	8.612	78	63646	5.199	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086863.D
 Acq On : 06 Jun 2025 13:17
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:55:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M

Quant Title : SW846 8260

QLast Update : Sat Jun 07 01:51:02 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.783	41	13518	5.050	ug/l	99
42) 1,2-Dichloroethane	8.683	62	19329	5.205	ug/l	98
43) Isopropyl Acetate	8.700	43	40268	5.264	ug/l	98
44) Trichloroethene	9.359	130	15245	5.251	ug/l	96
45) 1,2-Dichloropropane	9.624	63	15632	5.248	ug/l	99
46) Dibromomethane	9.718	93	10241	5.176	ug/l	99
47) Bromodichloromethane	9.888	83	20512	5.039	ug/l	97
48) Methyl methacrylate	9.688	41	17591	4.996	ug/l	94
49) 1,4-Dioxane	9.700	88	6141	95.874	ug/l #	93
51) 4-Methyl-2-Pentanone	10.447	43	116434	25.283	ug/l	97
52) Toluene	10.630	92	38744	5.178	ug/l	99
53) t-1,3-Dichloropropene	10.841	75	22285	4.896	ug/l	98
54) cis-1,3-Dichloropropene	10.318	75	24477	5.026	ug/l	93
55) 1,1,2-Trichloroethane	11.018	97	15068	5.234	ug/l	97
56) Ethyl methacrylate	10.888	69	21893	4.774	ug/l	95
57) 1,3-Dichloropropane	11.165	76	25452	5.096	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.165	63	64722	23.664	ug/l	98
59) 2-Hexanone	11.212	43	59884	20.188	ug/l	99
60) Dibromochloromethane	11.359	129	14884	4.962	ug/l	98
61) 1,2-Dibromoethane	11.471	107	15172	5.141	ug/l	99
64) Tetrachloroethene	11.106	164	12322	5.236	ug/l	92
65) Chlorobenzene	11.894	112	42195	5.145	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.965	131	13897	5.271	ug/l	97
67) Ethyl Benzene	11.965	91	73443	5.199	ug/l	97
68) m/p-Xylenes	12.071	106	55859	10.330	ug/l	100
69) o-Xylene	12.400	106	26004	5.021	ug/l	96
70) Styrene	12.412	104	44380	5.008	ug/l	98
71) Bromoform	12.582	173	9890	5.063	ug/l #	96
73) Isopropylbenzene	12.694	105	67878	5.146	ug/l	100
74) N-amyl acetate	12.559	43	20096m	4.590	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.935	83	23516	5.262	ug/l	98
76) 1,2,3-Trichloropropane	12.994	75	21527m	4.986	ug/l	
77) Bromobenzene	12.976	156	15485	5.119	ug/l	92
78) n-propylbenzene	13.035	91	83781	5.226	ug/l	99
79) 2-Chlorotoluene	13.124	91	49297	5.128	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	55961	5.139	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.741	75	9234	4.939	ug/l	94
82) 4-Chlorotoluene	13.223	91	49924	5.132	ug/l	100
83) tert-Butylbenzene	13.435	119	50874	5.103	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	56525	5.176	ug/l	100
85) sec-Butylbenzene	13.618	105	74711	5.161	ug/l	99
86) p-Isopropyltoluene	13.729	119	62016	5.182	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	30949	5.200	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	32342	5.330	ug/l	96
89) n-Butylbenzene	14.053	91	59601	5.142	ug/l	99
90) Hexachloroethane	14.335	117	9725	4.794	ug/l	95
91) 1,2-Dichlorobenzene	14.106	146	29897	5.228	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	5731	5.363	ug/l	93
93) 1,2,4-Trichlorobenzene	15.394	180	18778	5.143	ug/l	99
94) Hexachlorobutadiene	15.500	225	7072	5.199	ug/l	99
95) Naphthalene	15.641	128	67481	4.965	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	18262	5.034	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086863.D
Acq On : 06 Jun 2025 13:17
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:55:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

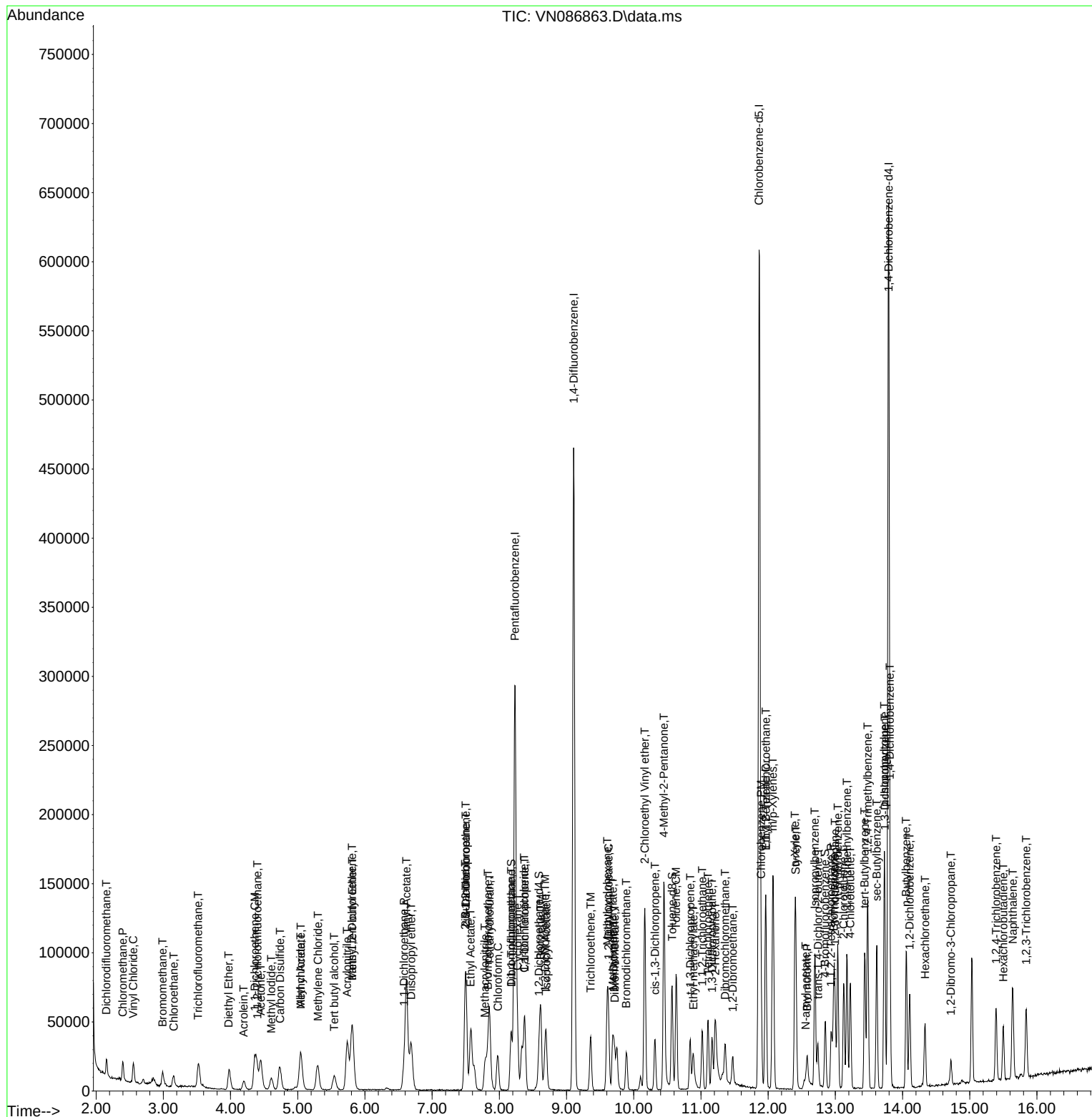
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086864.D
 Acq On : 06 Jun 2025 13:40
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:56:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.235	168	224006	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	418154	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	363172	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	181178	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	63390	21.136	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	42.280%#		
35) Dibromofluoromethane	8.177	113	51797	20.902	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	41.800%#		
50) Toluene-d8	10.571	98	201268	20.516	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	41.040%#		
62) 4-Bromofluorobenzene	12.853	95	74622	20.474	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	40.940%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.159	85	48254	21.605	ug/l	92
3) Chloromethane	2.401	50	57778	20.033	ug/l	93
4) Vinyl Chloride	2.559	62	61254	20.589	ug/l	99
5) Bromomethane	3.006	94	34022	20.435	ug/l	95
6) Chloroethane	3.159	64	39625	20.619	ug/l	99
7) Trichlorofluoromethane	3.524	101	80978	20.832	ug/l	94
8) Diethyl Ether	3.983	74	34288	20.245	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.395	101	50458	20.661	ug/l	98
10) Methyl Iodide	4.612	142	65360	20.646	ug/l	98
11) Tert butyl alcohol	5.547	59	87102	107.031	ug/l	99
12) 1,1-Dichloroethene	4.359	96	50485	20.249	ug/l	96
13) Acrolein	4.200	56	22866	88.767	ug/l	97
14) Allyl chloride	5.047	41	82924	20.055	ug/l	98
15) Acrylonitrile	5.742	53	199498	104.881	ug/l	99
16) Acetone	4.447	43	163979	103.099	ug/l	98
17) Carbon Disulfide	4.736	76	138195	20.038	ug/l	97
18) Methyl Acetate	5.047	43	96547	20.830	ug/l	99
19) Methyl tert-butyl Ether	5.818	73	183780	20.358	ug/l	98
20) Methylene Chloride	5.294	84	57611	19.348	ug/l	98
21) trans-1,2-Dichloroethene	5.806	96	55643	20.059	ug/l	94
22) Diisopropyl ether	6.689	45	182472	20.935	ug/l	98
23) Vinyl Acetate	6.624	43	768556	104.365	ug/l	99
24) 1,1-Dichloroethane	6.583	63	103578	20.650	ug/l	99
25) 2-Butanone	7.494	43	270477	104.621	ug/l	100
26) 2,2-Dichloropropane	7.506	77	69692	17.862	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	68292	20.585	ug/l	98
28) Bromochloromethane	7.824	49	55196	22.381	ug/l	99
29) Tetrahydrofuran	7.853	42	178571	106.031	ug/l	99
30) Chloroform	7.977	83	102615	20.485	ug/l	93
31) Cyclohexane	8.271	56	100026	20.563	ug/l	98
32) 1,1,1-Trichloroethane	8.177	97	86810	20.376	ug/l	98
36) 1,1-Dichloropropene	8.383	75	73252	19.838	ug/l	100
37) Ethyl Acetate	7.571	43	96467	20.522	ug/l	98
38) Carbon Tetrachloride	8.377	117	72628	20.034	ug/l	97
39) Methylcyclohexane	9.606	83	98425	19.455	ug/l	99
40) Benzene	8.612	78	241444	19.996	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086864.D
 Acq On : 06 Jun 2025 13:40
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:56:20 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M

Quant Title : SW846 8260

QLast Update : Sat Jun 07 01:51:02 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.788	41	53244	20.169	ug/l	98
42) 1,2-Dichloroethane	8.677	62	74238	20.270	ug/l	100
43) Isopropyl Acetate	8.694	43	151601	20.094	ug/l	99
44) Trichloroethene	9.359	130	57110	19.946	ug/l	96
45) 1,2-Dichloropropane	9.630	63	59293	20.184	ug/l	97
46) Dibromomethane	9.712	93	40290	20.648	ug/l	98
47) Bromodichloromethane	9.894	83	80353	20.015	ug/l	98
48) Methyl methacrylate	9.682	41	70457	20.290	ug/l	97
49) 1,4-Dioxane	9.706	88	28231	446.886	ug/l #	98
51) 4-Methyl-2-Pentanone	10.447	43	481741	106.066	ug/l	99
52) Toluene	10.635	92	148000	20.056	ug/l	98
53) t-1,3-Dichloropropene	10.841	75	87683	19.532	ug/l	99
54) cis-1,3-Dichloropropene	10.318	75	94315	19.636	ug/l	99
55) 1,1,2-Trichloroethane	11.018	97	57195	20.143	ug/l	99
56) Ethyl methacrylate	10.882	69	94829	20.968	ug/l	98
57) 1,3-Dichloropropane	11.165	76	98205	19.938	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.165	63	278986	103.426	ug/l	99
59) 2-Hexanone	11.206	43	303686	103.803	ug/l	95
60) Dibromochloromethane	11.359	129	59961	20.268	ug/l	99
61) 1,2-Dibromoethane	11.471	107	59139	20.320	ug/l	97
64) Tetrachloroethene	11.106	164	45374	19.742	ug/l	96
65) Chlorobenzene	11.894	112	160803	20.076	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	52069	20.223	ug/l	99
67) Ethyl Benzene	11.965	91	277087	20.083	ug/l	98
68) m/p-Xylenes	12.071	106	215378	40.780	ug/l	100
69) o-Xylene	12.400	106	102050	20.175	ug/l	98
70) Styrene	12.412	104	178061	20.572	ug/l	99
71) Bromoform	12.576	173	40070	21.004	ug/l #	99
73) Isopropylbenzene	12.694	105	264442	20.035	ug/l	100
74) N-amyl acetate	12.523	43	86003	19.633	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.941	83	92264	20.634	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	81846m	18.945	ug/l	
77) Bromobenzene	12.982	156	60877	20.111	ug/l	98
78) n-propylbenzene	13.035	91	322436	20.102	ug/l	100
79) 2-Chlorotoluene	13.123	91	193774	20.144	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	219937	20.183	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	37808	20.209	ug/l	92
82) 4-Chlorotoluene	13.223	91	193544	19.885	ug/l	99
83) tert-Butylbenzene	13.435	119	198303	19.880	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	221990	20.315	ug/l	100
85) sec-Butylbenzene	13.617	105	292563	20.196	ug/l	100
86) p-Isopropyltoluene	13.729	119	240682	20.099	ug/l	100
87) 1,3-Dichlorobenzene	13.735	146	120099	20.166	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	120102	19.780	ug/l	97
89) n-Butylbenzene	14.053	91	227536	19.617	ug/l	100
90) Hexachloroethane	14.335	117	41202	20.299	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	115645	20.212	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	21025	19.661	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	71826	19.659	ug/l	98
94) Hexachlorobutadiene	15.500	225	27887	20.486	ug/l	97
95) Naphthalene	15.641	128	272584	20.043	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	71929	19.815	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086864.D
Acq On : 06 Jun 2025 13:40
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:56:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

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

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

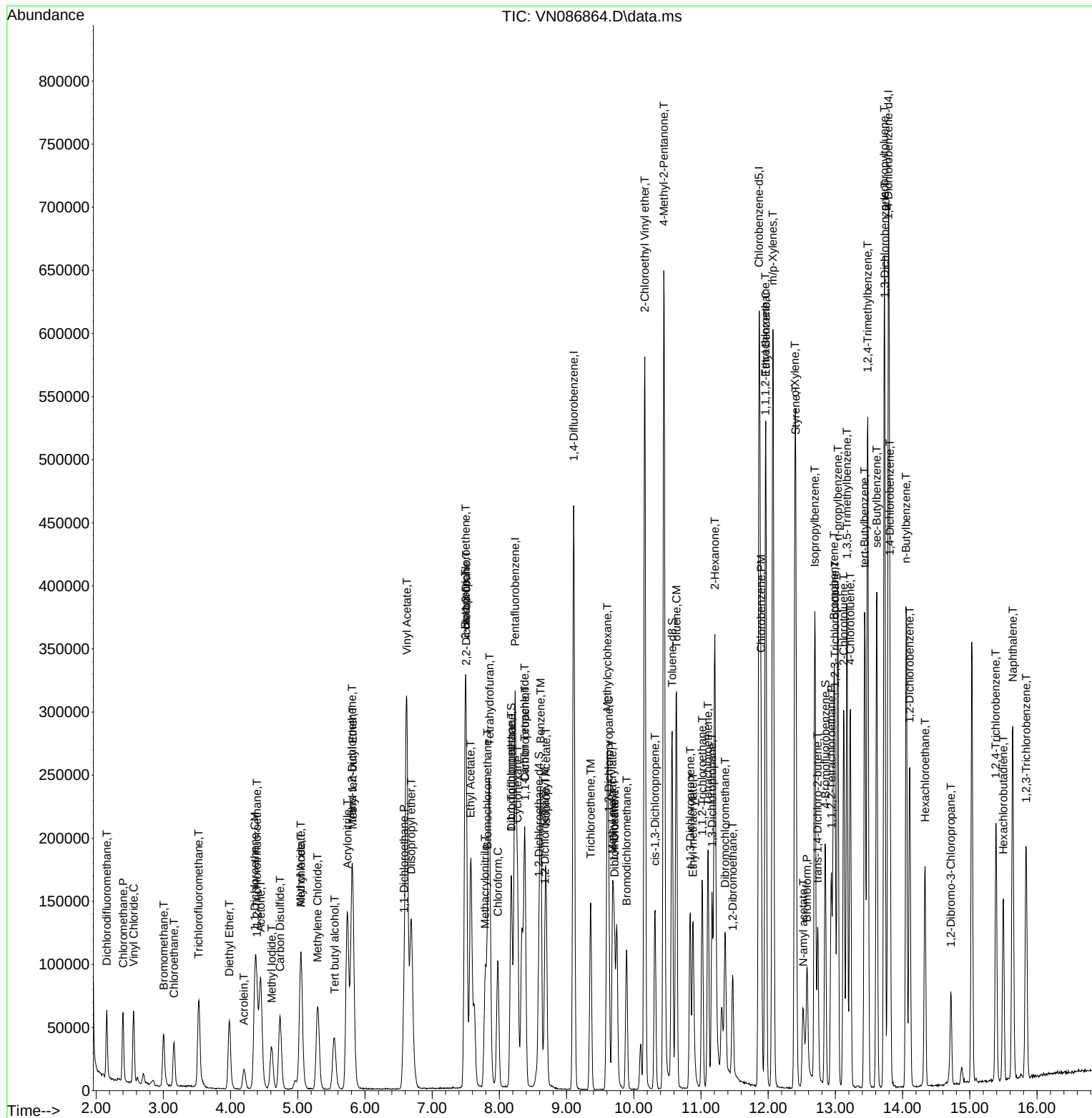
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086864.D
 Acq On : 06 Jun 2025 13:40
 Operator : JC\MD
 Sample : VSTDIC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Manual Integrations APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:56:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086865.D
 Acq On : 06 Jun 2025 14:03
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:57:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.236	168	207354	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	378587	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	332766	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	167532	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	103736	37.366	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	74.740%		
35) Dibromofluoromethane	8.171	113	83058	37.020	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	74.040%#		
50) Toluene-d8	10.571	98	326105	36.716	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	73.440%#		
62) 4-Bromofluorobenzene	12.847	95	122965	37.264	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	74.520%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.154	85	103958	50.283	ug/l	100
3) Chloromethane	2.395	50	123866	46.397	ug/l	100
4) Vinyl Chloride	2.554	62	132783	48.215	ug/l	100
5) Bromomethane	2.995	94	73974	47.999	ug/l	100
6) Chloroethane	3.154	64	84505	47.504	ug/l	100
7) Trichlorofluoromethane	3.524	101	172860	48.041	ug/l	100
8) Diethyl Ether	3.983	74	75193	47.963	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.395	101	107695	47.640	ug/l	100
10) Methyl Iodide	4.606	142	141678	48.346	ug/l	100
11) Tert butyl alcohol	5.548	59	182315	242.020	ug/l	100
12) 1,1-Dichloroethene	4.359	96	110549	47.900	ug/l	100
13) Acrolein	4.201	56	47026	197.217	ug/l	100
14) Allyl chloride	5.042	41	179313	46.848	ug/l	100
15) Acrylonitrile	5.742	53	421941	239.638	ug/l	100
16) Acetone	4.448	43	333857	226.765	ug/l	100
17) Carbon Disulfide	4.730	76	295753	46.328	ug/l	100
18) Methyl Acetate	5.042	43	204538	47.673	ug/l	100
19) Methyl tert-butyl Ether	5.812	73	400775	47.960	ug/l	100
20) Methylene Chloride	5.295	84	125498	45.531	ug/l	100
21) trans-1,2-Dichloroethene	5.806	96	117660	45.822	ug/l	100
22) Diisopropyl ether	6.689	45	384939	47.711	ug/l	100
23) Vinyl Acetate	6.618	43	1649023	241.910	ug/l	100
24) 1,1-Dichloroethane	6.583	63	220477	47.485	ug/l	100
25) 2-Butanone	7.494	43	571221	238.693	ug/l	100
26) 2,2-Dichloropropane	7.500	77	187567	51.933	ug/l	100
27) cis-1,2-Dichloroethene	7.500	96	144911	47.189	ug/l	100
28) Bromochloromethane	7.824	49	96707	42.362	ug/l	100
29) Tetrahydrofuran	7.853	42	371357	238.210	ug/l	100
30) Chloroform	7.977	83	220093	47.467	ug/l	100
31) Cyclohexane	8.271	56	208105	46.217	ug/l	100
32) 1,1,1-Trichloroethane	8.177	97	185502	47.037	ug/l	100
36) 1,1-Dichloropropene	8.377	75	158341	47.362	ug/l	100
37) Ethyl Acetate	7.577	43	203091	47.720	ug/l	100
38) Carbon Tetrachloride	8.371	117	154677	47.126	ug/l	100
39) Methylcyclohexane	9.606	83	215849	47.126	ug/l	100
40) Benzene	8.612	78	509334	46.590	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086865.D
 Acq On : 06 Jun 2025 14:03
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:57:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.789	41	114727	48.000	ug/l	100
42) 1,2-Dichloroethane	8.677	62	155713	46.960	ug/l	100
43) Isopropyl Acetate	8.694	43	322741	47.248	ug/l	100
44) Trichloroethene	9.359	130	123847	47.776	ug/l	100
45) 1,2-Dichloropropane	9.630	63	125673	47.251	ug/l	100
46) Dibromomethane	9.718	93	83811	47.442	ug/l	100
47) Bromodichloromethane	9.894	83	173200	47.651	ug/l	100
48) Methyl methacrylate	9.683	41	149019	47.399	ug/l	100
49) 1,4-Dioxane	9.700	88	59060	1032.607	ug/l #	100
51) 4-Methyl-2-Pentanone	10.447	43	1017688	247.484	ug/l	100
52) Toluene	10.635	92	316219	47.331	ug/l	100
53) t-1,3-Dichloropropene	10.841	75	197475	48.587	ug/l	100
54) cis-1,3-Dichloropropene	10.318	75	208523	47.950	ug/l	100
55) 1,1,2-Trichloroethane	11.018	97	121969	47.445	ug/l	100
56) Ethyl methacrylate	10.882	69	210467	51.401	ug/l	100
57) 1,3-Dichloropropane	11.165	76	212243	47.593	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.165	63	519139	212.570	ug/l	100
59) 2-Hexanone	11.200	43	696567	262.977	ug/l	100
60) Dibromochloromethane	11.359	129	128715	48.056	ug/l	100
61) 1,2-Dibromoethane	11.471	107	124522	47.258	ug/l	100
64) Tetrachloroethene	11.106	164	97679	46.382	ug/l	100
65) Chlorobenzene	11.894	112	340439	46.386	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.965	131	112333	47.615	ug/l	100
67) Ethyl Benzene	11.965	91	597593	47.271	ug/l	100
68) m/p-Xylenes	12.071	106	466620	96.424	ug/l	100
69) o-Xylene	12.400	106	224299	48.395	ug/l	100
70) Styrene	12.412	104	386596	48.745	ug/l	100
71) Bromoform	12.582	173	88127	50.415	ug/l #	100
73) Isopropylbenzene	12.694	105	573905	47.023	ug/l	100
74) N-amyl acetate	12.512	43	212064	52.353	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.941	83	197360	47.732	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	196473m	49.183	ug/l	
77) Bromobenzene	12.982	156	132381	47.296	ug/l	100
78) n-propylbenzene	13.035	91	705524	47.567	ug/l	100
79) 2-Chlorotoluene	13.124	91	419986	47.216	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	485499	48.181	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	79732	46.089	ug/l	100
82) 4-Chlorotoluene	13.224	91	424066	47.117	ug/l	100
83) tert-Butylbenzene	13.435	119	438417	47.531	ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	488189	48.314	ug/l	100
85) sec-Butylbenzene	13.618	105	641523	47.893	ug/l	100
86) p-Isopropyltoluene	13.729	119	533366	48.169	ug/l	100
87) 1,3-Dichlorobenzene	13.735	146	260310	47.269	ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	263358	46.907	ug/l	100
89) n-Butylbenzene	14.053	91	512519	47.787	ug/l	100
90) Hexachloroethane	14.335	117	89896	47.896	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	251235	47.486	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.718	75	45535	46.049	ug/l	100
93) 1,2,4-Trichlorobenzene	15.388	180	162374	48.061	ug/l	100
94) Hexachlorobutadiene	15.500	225	60866	48.356	ug/l	100
95) Naphthalene	15.641	128	603088	47.958	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	159113	47.402	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086865.D
Acq On : 06 Jun 2025 14:03
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:57:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 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_N\Data\VN060625\
 Data File : VN086865.D
 Acq On : 06 Jun 2025 14:03
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

MSVOA_N

Client SampleId :

VSTDICCC050

Manual Integrations

APPROVED

Reviewed By : John Carlone 06/09/2025

Supervised By : Mahesh Dadoda 06/09/2025

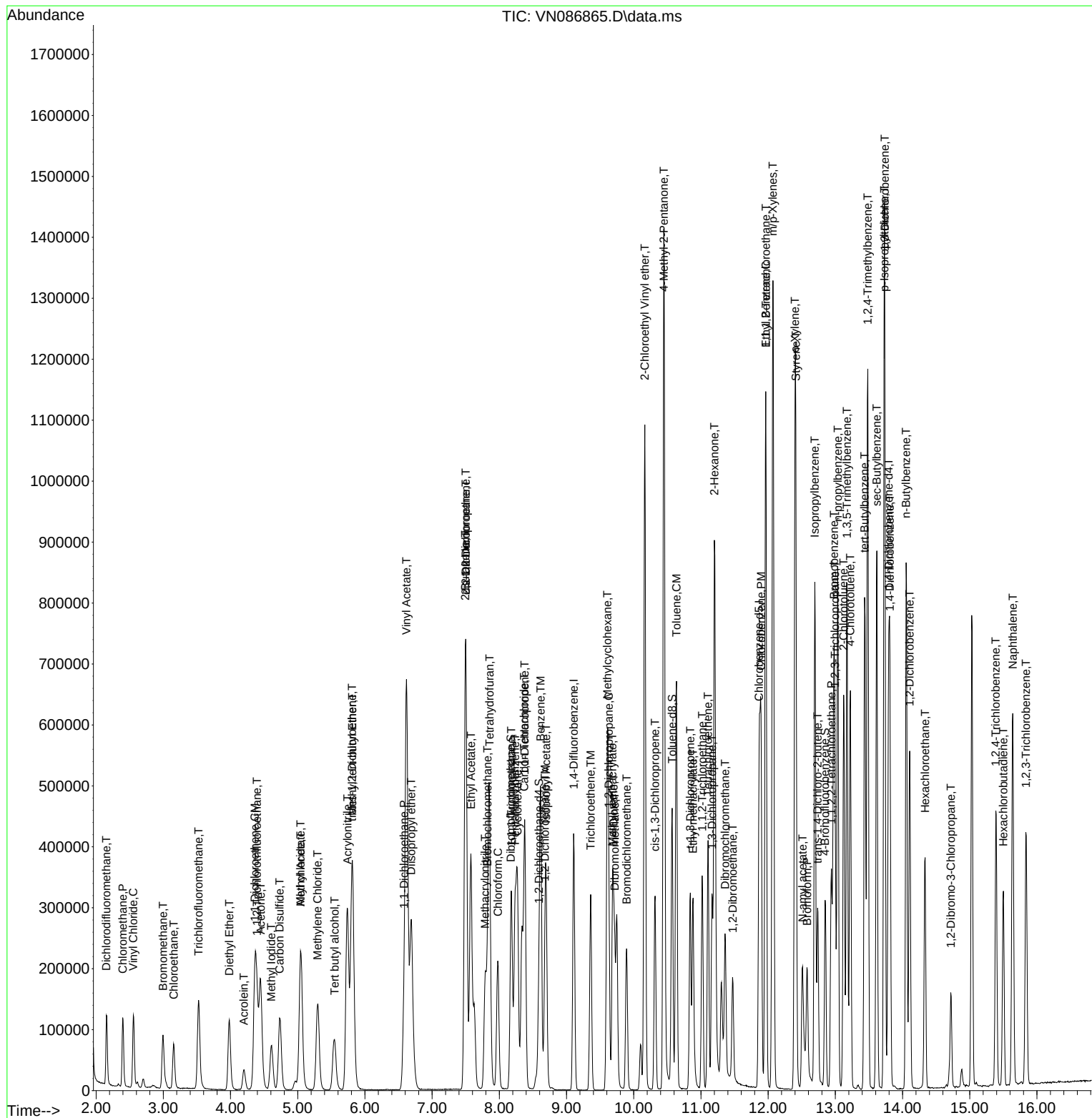
Quant Time: Jun 07 01:57:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M

Quant Title : SW846 8260

QLast Update : Sat Jun 07 01:51:02 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086866.D
 Acq On : 06 Jun 2025 14:26
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:58:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.235	168	181996	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	327782	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	290313	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	147098	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	238957	98.065	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 196.120%#			
35) Dibromofluoromethane	8.177	113	195212	100.495	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 200.980%#			
50) Toluene-d8	10.570	98	772210	100.419	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 200.840%#			
62) 4-Bromofluorobenzene	12.847	95	292385	102.339	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 204.680%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.153	85	194799	107.350	ug/l	100
3) Chloromethane	2.395	50	224558	95.833	ug/l	98
4) Vinyl Chloride	2.553	62	245135	101.414	ug/l	98
5) Bromomethane	2.977	94	137967	101.996	ug/l	99
6) Chloroethane	3.147	64	152150	97.447	ug/l	97
7) Trichlorofluoromethane	3.524	101	312394	98.917	ug/l	99
8) Diethyl Ether	3.983	74	139844	101.631	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.389	101	198739	100.163	ug/l	99
10) Methyl Iodide	4.612	142	262771	102.162	ug/l	99
11) Tert butyl alcohol	5.547	59	327987	496.062	ug/l	99
12) 1,1-Dichloroethene	4.359	96	200212	98.838	ug/l	99
13) Acrolein	4.200	56	94171	449.961	ug/l	98
14) Allyl chloride	5.047	41	329412	98.055	ug/l	99
15) Acrylonitrile	5.735	53	770470	498.552	ug/l	99
16) Acetone	4.447	43	608178	470.648	ug/l	98
17) Carbon Disulfide	4.736	76	544511	97.179	ug/l	100
18) Methyl Acetate	5.047	43	381808	101.390	ug/l	100
19) Methyl tert-butyl Ether	5.818	73	735694	100.306	ug/l	100
20) Methylene Chloride	5.294	84	228800	94.575	ug/l	97
21) trans-1,2-Dichloroethene	5.806	96	215177	95.476	ug/l	99
22) Diisopropyl ether	6.688	45	696881	98.409	ug/l	98
23) Vinyl Acetate	6.618	43	2919350	487.936	ug/l	100
24) 1,1-Dichloroethane	6.588	63	404207	99.186	ug/l	99
25) 2-Butanone	7.494	43	1043385	496.743	ug/l	100
26) 2,2-Dichloropropane	7.500	77	331995	104.729	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	265248	98.410	ug/l	99
28) Bromochloromethane	7.824	49	188050	93.851	ug/l	99
29) Tetrahydrofuran	7.847	42	677636	495.240	ug/l	99
30) Chloroform	7.977	83	394927	97.040	ug/l	99
31) Cyclohexane	8.265	56	374933	94.869	ug/l	99
32) 1,1,1-Trichloroethane	8.177	97	336819	97.306	ug/l	99
36) 1,1-Dichloropropene	8.382	75	289907	100.156	ug/l	99
37) Ethyl Acetate	7.571	43	370652	100.591	ug/l	99
38) Carbon Tetrachloride	8.371	117	285325	100.404	ug/l	98
39) Methylcyclohexane	9.606	83	395603	99.758	ug/l	99
40) Benzene	8.612	78	927083	97.946	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086866.D
 Acq On : 06 Jun 2025 14:26
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :John Carlone 06/09/2025
 Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:58:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.794	41	195946	94.688	ug/l	95
42) 1,2-Dichloroethane	8.676	62	282015	98.232	ug/l	100
43) Isopropyl Acetate	8.694	43	579464	97.981	ug/l	99
44) Trichloroethene	9.359	130	222822	99.280	ug/l	97
45) 1,2-Dichloropropane	9.629	63	230454	100.077	ug/l	98
46) Dibromomethane	9.712	93	155530	101.685	ug/l	99
47) Bromodichloromethane	9.894	83	316375	100.533	ug/l	100
48) Methyl methacrylate	9.682	41	275710	101.288	ug/l	99
49) 1,4-Dioxane	9.706	88	104771	2115.744	ug/l #	99
51) 4-Methyl-2-Pentanone	10.447	43	1843274	517.729	ug/l	99
52) Toluene	10.635	92	578978	100.092	ug/l	100
53) t-1,3-Dichloropropene	10.841	75	359200	102.077	ug/l	99
54) cis-1,3-Dichloropropene	10.318	75	383030	101.730	ug/l	99
55) 1,1,2-Trichloroethane	11.017	97	219922	98.808	ug/l	98
56) Ethyl methacrylate	10.882	69	389802	109.955	ug/l	99
57) 1,3-Dichloropropane	11.165	76	382510	99.069	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.165	63	1113523	526.621	ug/l	100
59) 2-Hexanone	11.200	43	1301539	567.535	ug/l	99
60) Dibromochloromethane	11.359	129	237965	102.616	ug/l	100
61) 1,2-Dibromoethane	11.470	107	232214	101.787	ug/l	98
64) Tetrachloroethene	11.106	164	181568	98.824	ug/l	94
65) Chlorobenzene	11.894	112	632563	98.793	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	206895	100.521	ug/l	100
67) Ethyl Benzene	11.964	91	1110803	100.717	ug/l	99
68) m/p-Xylenes	12.070	106	854557	202.411	ug/l	99
69) o-Xylene	12.400	106	412719	102.070	ug/l	100
70) Styrene	12.412	104	713548	103.127	ug/l	100
71) Bromoform	12.576	173	165781	108.707	ug/l #	99
73) Isopropylbenzene	12.694	105	1065297	99.410	ug/l	100
74) N-amyl acetate	12.506	43	403587	113.475	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.941	83	354386	97.616	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	353334m	100.738	ug/l	
77) Bromobenzene	12.982	156	246413	100.266	ug/l	99
78) n-propylbenzene	13.035	91	1301631	99.948	ug/l	100
79) 2-Chlorotoluene	13.123	91	770308	98.630	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	901317	101.873	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	160736	105.820	ug/l	92
82) 4-Chlorotoluene	13.223	91	783657	99.166	ug/l	100
83) tert-Butylbenzene	13.435	119	807528	99.710	ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	904794	101.983	ug/l	100
85) sec-Butylbenzene	13.617	105	1182155	100.513	ug/l	99
86) p-Isopropyltoluene	13.729	119	990273	101.857	ug/l	100
87) 1,3-Dichlorobenzene	13.735	146	474162	98.063	ug/l	100
88) 1,4-Dichlorobenzene	13.811	146	483003	97.978	ug/l	99
89) n-Butylbenzene	14.053	91	937913	99.598	ug/l	100
90) Hexachloroethane	14.335	117	169772	103.019	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	458049	98.602	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	83243	95.877	ug/l	96
93) 1,2,4-Trichlorobenzene	15.394	180	298870	100.751	ug/l	99
94) Hexachlorobutadiene	15.500	225	112496	101.789	ug/l	98
95) Naphthalene	15.641	128	1129434	102.290	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	294127	99.796	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086866.D
Acq On : 06 Jun 2025 14:26
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:58:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

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

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

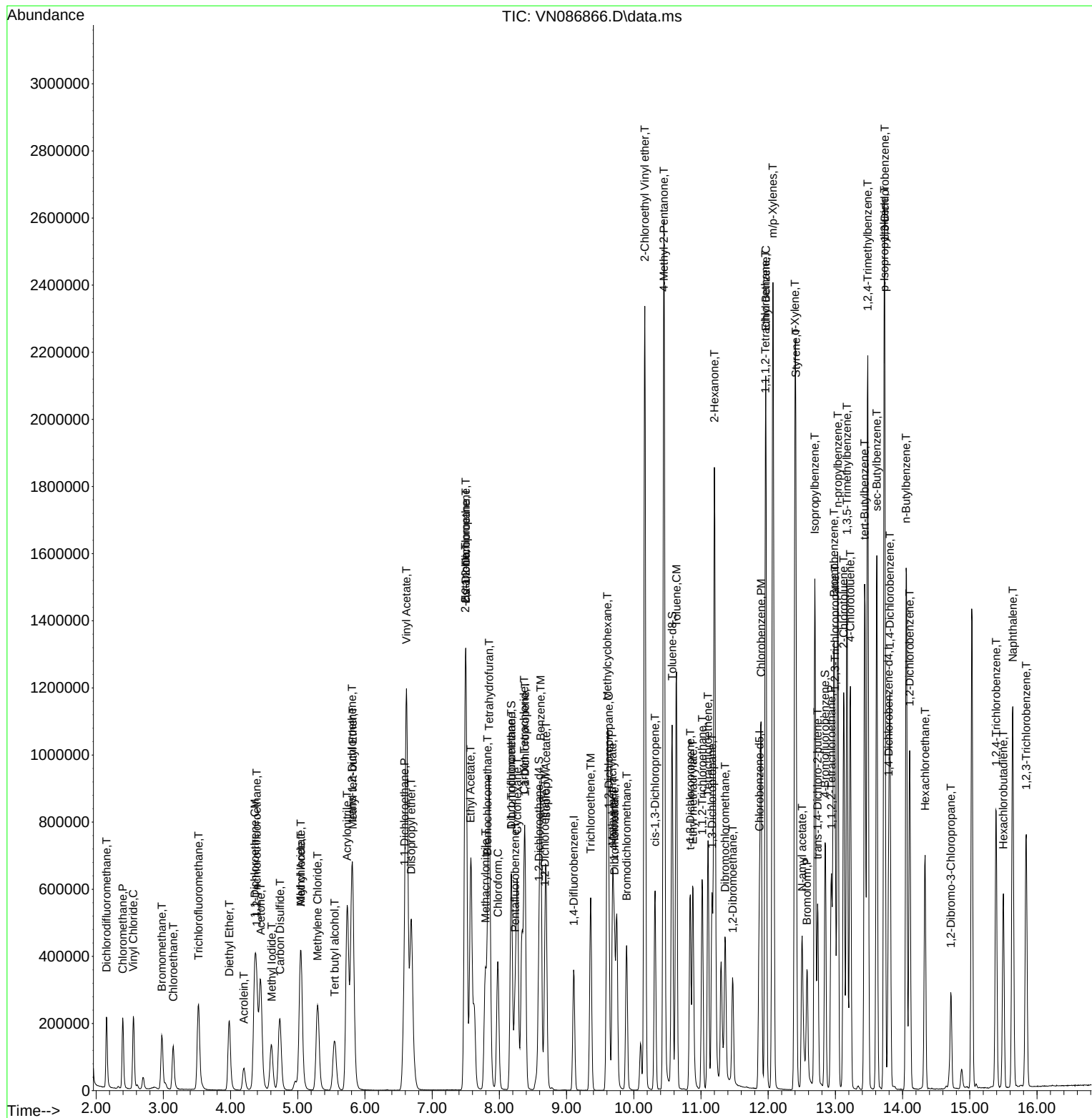
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086866.D
 Acq On : 06 Jun 2025 14:26
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:58:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086867.D
 Acq On : 06 Jun 2025 14:49
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:59:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.229	168	172832	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	307937	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.864	117	278552	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	136630	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	389297	168.233	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 336.460%#			
35) Dibromofluoromethane	8.176	113	324474	177.803	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 355.600%#			
50) Toluene-d8	10.570	98	1272348	176.120	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 352.240%#			
62) 4-Bromofluorobenzene	12.847	95	481421	179.364	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 358.720%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.153	85	262143	152.122	ug/l	100
3) Chloromethane	2.394	50	304558	136.865	ug/l	100
4) Vinyl Chloride	2.553	62	335834	146.303	ug/l	100
5) Bromomethane	2.965	94	190786	148.522	ug/l	98
6) Chloroethane	3.136	64	208568	140.664	ug/l	96
7) Trichlorofluoromethane	3.518	101	427871	142.666	ug/l	100
8) Diethyl Ether	3.983	74	191555	146.593	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.388	101	269810	143.192	ug/l	100
10) Methyl Iodide	4.606	142	352020	144.118	ug/l	99
11) Tert butyl alcohol	5.553	59	430866	686.213	ug/l	100
12) 1,1-Dichloroethene	4.353	96	273388	142.118	ug/l	98
13) Acrolein	4.194	56	171625	863.526	ug/l	99
14) Allyl chloride	5.035	41	490852	153.858	ug/l	92
15) Acrylonitrile	5.735	53	1048372	714.344	ug/l	99
16) Acetone	4.447	43	819041	667.435	ug/l	100
17) Carbon Disulfide	4.730	76	742788	139.594	ug/l	100
18) Methyl Acetate	5.041	43	523996	146.527	ug/l	100
19) Methyl tert-butyl Ether	5.818	73	998781	143.396	ug/l	99
20) Methylene Chloride	5.300	84	311597	135.628	ug/l	99
21) trans-1,2-Dichloroethene	5.806	96	290960	135.947	ug/l	97
22) Diisopropyl ether	6.688	45	947638	140.915	ug/l	98
23) Vinyl Acetate	6.618	43	3932872	692.189	ug/l	99
24) 1,1-Dichloroethane	6.582	63	540881	139.761	ug/l	99
25) 2-Butanone	7.494	43	1381940	692.809	ug/l	99
26) 2,2-Dichloropropane	7.500	77	450112	149.519	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	363398	141.974	ug/l	99
28) Bromochloromethane	7.824	49	290594	152.718	ug/l	98
29) Tetrahydrofuran	7.847	42	898159	691.211	ug/l	98
30) Chloroform	7.976	83	534038	138.179	ug/l	97
31) Cyclohexane	8.265	56	505795	134.766	ug/l	96
32) 1,1,1-Trichloroethane	8.176	97	462854	140.807	ug/l	99
36) 1,1-Dichloropropene	8.376	75	393166	144.584	ug/l	100
37) Ethyl Acetate	7.571	43	494000	142.706	ug/l	99
38) Carbon Tetrachloride	8.371	117	388595	145.557	ug/l	98
39) Methylcyclohexane	9.606	83	544437	146.136	ug/l	97
40) Benzene	8.612	78	1266139	142.388	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086867.D
 Acq On : 06 Jun 2025 14:49
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:59:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.788	41	276400	142.174	ug/l	98
42) 1,2-Dichloroethane	8.676	62	381516	141.455	ug/l	100
43) Isopropyl Acetate	8.694	43	780791	140.531	ug/l	99
44) Trichloroethene	9.359	130	302548	143.490	ug/l	96
45) 1,2-Dichloropropane	9.623	63	309047	142.856	ug/l	100
46) Dibromomethane	9.712	93	208461	145.074	ug/l	100
47) Bromodichloromethane	9.894	83	430011	145.449	ug/l	100
48) Methyl methacrylate	9.688	41	366967	143.502	ug/l	99
49) 1,4-Dioxane	9.712	88	138035	2967.116	ug/l #	100
51) 4-Methyl-2-Pentanone	10.447	43	2438311	728.995	ug/l	98
52) Toluene	10.635	92	793270	145.976	ug/l	100
53) t-1,3-Dichloropropene	10.841	75	489809	148.163	ug/l	97
54) cis-1,3-Dichloropropene	10.318	75	518092	146.469	ug/l	99
55) 1,1,2-Trichloroethane	11.017	97	298151	142.588	ug/l	99
56) Ethyl methacrylate	10.876	69	533912	160.311	ug/l	98
57) 1,3-Dichloropropane	11.165	76	516391	142.363	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.165	63	1869543	941.147	ug/l	99
59) 2-Hexanone	11.200	43	1735777	805.662	ug/l	99
60) Dibromochloromethane	11.365	129	322064	147.832	ug/l	98
61) 1,2-Dibromoethane	11.470	107	314606	146.790	ug/l	99
64) Tetrachloroethene	11.106	164	245122	139.048	ug/l	97
65) Chlorobenzene	11.894	112	860345	140.041	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	282739	143.171	ug/l	99
67) Ethyl Benzene	11.964	91	1517883	143.438	ug/l	98
68) m/p-Xylenes	12.070	106	1175378	290.155	ug/l	99
69) o-Xylene	12.400	106	566301	145.966	ug/l	100
70) Styrene	12.411	104	972318	146.459	ug/l	100
71) Bromoform	12.582	173	223200	152.538	ug/l #	99
73) Isopropylbenzene	12.694	105	1453651	146.042	ug/l	100
74) N-amyl acetate	12.500	43	543747	164.596	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.941	83	474426	140.693	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	468041m	143.665	ug/l	
77) Bromobenzene	12.982	156	335734	147.077	ug/l	98
78) n-propylbenzene	13.035	91	1769694	146.301	ug/l	99
79) 2-Chlorotoluene	13.123	91	1046916	144.317	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	1210325	147.279	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	216253	153.277	ug/l	95
82) 4-Chlorotoluene	13.223	91	1063581	144.900	ug/l	100
83) tert-Butylbenzene	13.435	119	1093406	145.352	ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	1216529	147.626	ug/l	100
85) sec-Butylbenzene	13.617	105	1582762	144.885	ug/l	99
86) p-Isopropyltoluene	13.729	119	1322780	146.482	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	641966	142.939	ug/l	100
88) 1,4-Dichlorobenzene	13.811	146	646188	141.124	ug/l	99
89) n-Butylbenzene	14.053	91	1251819	143.117	ug/l	100
90) Hexachloroethane	14.335	117	230195	150.387	ug/l	98
91) 1,2-Dichlorobenzene	14.105	146	613177	142.108	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	110677	137.242	ug/l	96
93) 1,2,4-Trichlorobenzene	15.394	180	407621	147.940	ug/l	99
94) Hexachlorobutadiene	15.500	225	151172	147.264	ug/l	98
95) Naphthalene	15.641	128	1545981	150.743	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	404450	147.743	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086867.D
Acq On : 06 Jun 2025 14:49
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:59:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

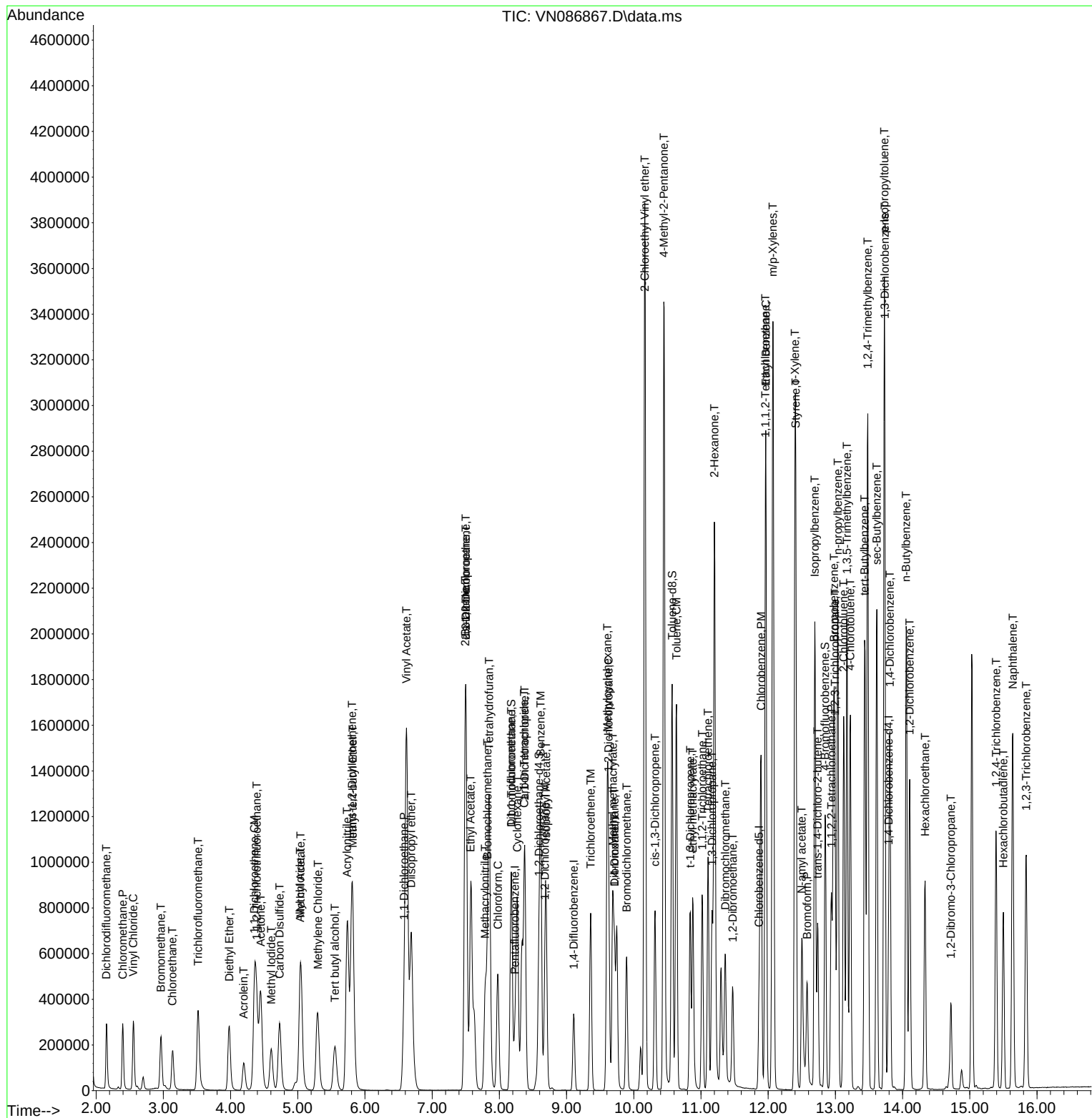
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086869.D
 Acq On : 06 Jun 2025 15:54
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN060625

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 02:16:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	218122	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	394140	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	348935	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	172710	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	152255	52.135	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.260%			
35) Dibromofluoromethane	8.177	113	127102	54.416	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.840%			
50) Toluene-d8	10.571	98	491265	53.129	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.260%			
62) 4-Bromofluorobenzene	12.847	95	185792	54.081	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.160%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.154	85	120237	55.286	ug/l	99
3) Chloromethane	2.401	50	139027	49.505	ug/l	99
4) Vinyl Chloride	2.554	62	151951	52.451	ug/l	99
5) Bromomethane	2.989	94	89638	55.292	ug/l	95
6) Chloroethane	3.154	64	95654	51.117	ug/l	96
7) Trichlorofluoromethane	3.524	101	196138	51.819	ug/l	97
8) Diethyl Ether	3.983	74	87405	53.001	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.395	101	127498	53.615	ug/l	99
10) Methyl Iodide	4.612	142	164080	53.227	ug/l	97
11) Tert butyl alcohol	5.542	59	207768	262.193	ug/l	99
12) 1,1-Dichloroethene	4.359	96	125461	51.678	ug/l	99
13) Acrolein	4.195	56	60336	240.545	ug/l	98
14) Allyl chloride	5.042	41	203344	50.504	ug/l	98
15) Acrylonitrile	5.736	53	479502	258.885	ug/l	100
16) Acetone	4.448	43	382146	246.750	ug/l	98
17) Carbon Disulfide	4.736	76	339466	50.550	ug/l	100
18) Methyl Acetate	5.042	43	234290	51.912	ug/l	100
19) Methyl tert-butyl Ether	5.818	73	454641	51.720	ug/l	100
20) Methylene Chloride	5.295	84	143862	49.617	ug/l	97
21) trans-1,2-Dichloroethene	5.806	96	133535	49.437	ug/l	99
22) Diisopropyl ether	6.689	45	440080	51.853	ug/l	99
23) Vinyl Acetate	6.618	43	1828919	255.055	ug/l	99
24) 1,1-Dichloroethane	6.589	63	251473	51.487	ug/l	98
25) 2-Butanone	7.494	43	644194	255.897	ug/l	99
26) 2,2-Dichloropropane	7.500	77	216678	57.031	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	164985	51.073	ug/l	99
28) Bromochloromethane	7.824	49	108810	45.310	ug/l	99
29) Tetrahydrofuran	7.847	42	420891	256.656	ug/l	100
30) Chloroform	7.977	83	248429	50.933	ug/l	97
31) Cyclohexane	8.265	56	237836	50.212	ug/l	97
32) 1,1,1-Trichloroethane	8.177	97	209927	50.603	ug/l	97
36) 1,1-Dichloropropene	8.377	75	181414	52.123	ug/l	99
37) Ethyl Acetate	7.571	43	222090	50.125	ug/l	99
38) Carbon Tetrachloride	8.371	117	179281	52.466	ug/l	98
39) Methylcyclohexane	9.606	83	251231	52.686	ug/l	98
40) Benzene	8.612	78	579667	50.931	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086869.D
 Acq On : 06 Jun 2025 15:54
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN060625

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 02:16:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.789	41	130903	52.607	ug/l	100
42) 1,2-Dichloroethane	8.677	62	177746	51.489	ug/l	100
43) Isopropyl Acetate	8.694	43	359378	50.536	ug/l	100
44) Trichloroethene	9.359	130	139763	51.788	ug/l	100
45) 1,2-Dichloropropane	9.624	63	142463	51.450	ug/l	99
46) Dibromomethane	9.712	93	97199	52.849	ug/l	98
47) Bromodichloromethane	9.894	83	196104	51.824	ug/l	100
48) Methyl methacrylate	9.688	41	168001	51.328	ug/l	98
49) 1,4-Dioxane	9.706	88	66102	1110.123	ug/l #	99
51) 4-Methyl-2-Pentanone	10.447	43	1146622	267.835	ug/l	99
52) Toluene	10.635	92	361963	52.040	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	224839	53.137	ug/l	99
54) cis-1,3-Dichloropropene	10.318	75	237774	52.519	ug/l	99
55) 1,1,2-Trichloroethane	11.018	97	137998	51.562	ug/l	99
56) Ethyl methacrylate	10.882	69	241649	56.688	ug/l	98
57) 1,3-Dichloropropane	11.165	76	238572	51.386	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.165	63	625479	246.006	ug/l	100
59) 2-Hexanone	11.200	43	781717	283.478	ug/l	100
60) Dibromochloromethane	11.359	129	146749	52.627	ug/l	99
61) 1,2-Dibromoethane	11.471	107	142338	51.887	ug/l	99
64) Tetrachloroethene	11.106	164	111409	50.450	ug/l	98
65) Chlorobenzene	11.894	112	391661	50.892	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	129045	52.164	ug/l	99
67) Ethyl Benzene	11.965	91	683879	51.590	ug/l	98
68) m/p-Xylenes	12.071	106	527293	103.912	ug/l	98
69) o-Xylene	12.400	106	254600	52.387	ug/l	100
70) Styrene	12.412	104	438751	52.758	ug/l	99
71) Bromoform	12.582	173	100357	54.751	ug/l #	99
73) Isopropylbenzene	12.694	105	652045	51.823	ug/l	100
74) N-amyl acetate	12.506	43	238355	54.212	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.941	83	220643	51.763	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	220957m	53.821	ug/l	
77) Bromobenzene	12.982	156	150950	52.313	ug/l	100
78) n-propylbenzene	13.035	91	801180	52.397	ug/l	100
79) 2-Chlorotoluene	13.123	91	473629	51.650	ug/l	99
80) 1,3,5-Trimethylbenzene	13.171	105	548347	52.787	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	99341	55.702	ug/l	97
82) 4-Chlorotoluene	13.223	91	481403	51.884	ug/l	99
83) tert-Butylbenzene	13.441	119	499519	52.532	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	552333	53.024	ug/l	100
85) sec-Butylbenzene	13.618	105	723986	52.428	ug/l	100
86) p-Isopropyltoluene	13.729	119	606979	53.174	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	290810	51.224	ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	298412	51.557	ug/l	100
89) n-Butylbenzene	14.059	91	579636	52.424	ug/l	100
90) Hexachloroethane	14.335	117	102254	52.847	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	280025	51.340	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.723	75	50115	49.161	ug/l	98
93) 1,2,4-Trichlorobenzene	15.394	180	181064	51.986	ug/l	99
94) Hexachlorobutadiene	15.500	225	68570	52.843	ug/l	99
95) Naphthalene	15.641	128	674187	52.005	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	174888	50.539	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086869.D
Acq On : 06 Jun 2025 15:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 02:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

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

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

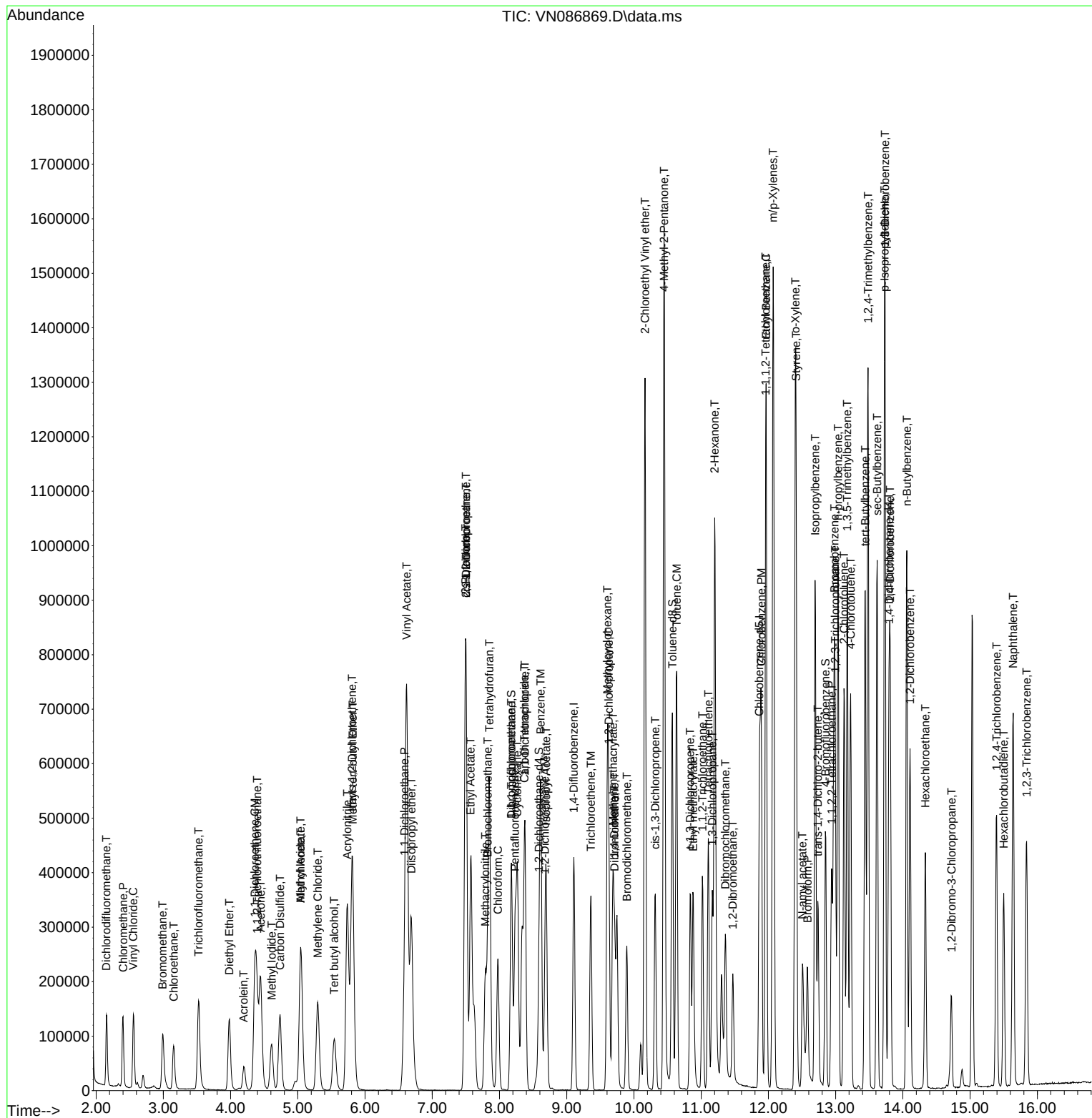
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086869.D
Acq On : 06 Jun 2025 15:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 02:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086869.D
 Acq On : 06 Jun 2025 15:54
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN060625

Quant Time: Jun 07 02:16:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 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	105	0.00
2 T	Dichlorodifluoromethane	0.499	0.551	-10.4	116	0.00
3 P	Chloromethane	0.644	0.637	1.1	112	0.00
4 C	Vinyl Chloride	0.664	0.697	-5.0#	114	0.00
5 T	Bromomethane	0.372	0.411	-10.5	121	0.00
6 T	Chloroethane	0.429	0.439	-2.3	113	0.00
7 T	Trichlorofluoromethane	0.868	0.899	-3.6	113	0.00
8 T	Diethyl Ether	0.378	0.401	-6.1	116	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.545	0.585	-7.3	118	0.00
10 T	Methyl Iodide	0.707	0.752	-6.4	116	0.00
11 T	Tert butyl alcohol	0.182	0.191	-4.9	114	0.00
12 CM	1,1-Dichloroethene	0.557	0.575	-3.2#	113	0.00
13 T	Acrolein	0.057	0.055	3.5	128	0.00
14 T	Allyl chloride	0.923	0.932	-1.0	113	0.00
15 T	Acrylonitrile	0.425	0.440	-3.5	114	0.00
16 T	Acetone	0.355	0.350	1.4	114	0.00
17 T	Carbon Disulfide	1.539	1.556	-1.1	115	0.00
18 T	Methyl Acetate	1.035	1.074	-3.8	115	0.00
19 T	Methyl tert-butyl Ether	2.015	2.084	-3.4	113	0.00
20 T	Methylene Chloride	0.665	0.660	0.8	115	0.00
21 T	trans-1,2-Dichloroethene	0.619	0.612	1.1	113	0.00
22 T	Diisopropyl ether	1.945	2.018	-3.8	114	0.00
23 T	Vinyl Acetate	1.644	1.677	-2.0	111	0.00
24 P	1,1-Dichloroethane	1.120	1.153	-2.9	114	0.00
25 T	2-Butanone	0.577	0.591	-2.4	113	0.00
26 T	2,2-Dichloropropane	0.871	0.993	-14.0	116	0.00
27 T	cis-1,2-Dichloroethene	0.740	0.756	-2.2	114	0.00
28 T	Bromochloromethane	0.550	0.499	9.3	113	0.00
29 T	Tetrahydrofuran	0.376	0.386	-2.7	113	0.00
30 C	Chloroform	1.118	1.139	-1.9#	113	0.00
31 T	Cyclohexane	1.086	1.090	-0.4	114	0.00
32 T	1,1,1-Trichloroethane	0.951	0.962	-1.2	113	0.00
33 S	1,2-Dichloroethane-d4	0.669	0.698	-4.3	147	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	104	0.00
35 S	Dibromofluoromethane	0.296	0.322	-8.8	153#	0.00
36 T	1,1-Dichloropropene	0.442	0.460	-4.1	115	0.00
37 T	Ethyl Acetate	0.562	0.563	-0.2	109	0.00
38 T	Carbon Tetrachloride	0.433	0.455	-5.1	116	0.00
39 T	Methylcyclohexane	0.605	0.637	-5.3	116	0.00
40 TM	Benzene	1.444	1.471	-1.9	114	0.00
41 T	Methacrylonitrile	0.316	0.332	-5.1	114	0.00
42 TM	1,2-Dichloroethane	0.438	0.451	-3.0	114	0.00
43 T	Isopropyl Acetate	0.902	0.912	-1.1	111	0.00
44 TM	Trichloroethene	0.342	0.355	-3.8	113	0.00
45 C	1,2-Dichloropropane	0.351	0.361	-2.8#	113	0.00
46 T	Dibromomethane	0.233	0.247	-6.0	116	0.00
47 T	Bromodichloromethane	0.480	0.498	-3.8	113	0.00
48 T	Methyl methacrylate	0.415	0.426	-2.7	113	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086869.D
 Acq On : 06 Jun 2025 15:54
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN060625

Quant Time: Jun 07 02:16:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 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	0.008	0.008	0.0	112	0.00
50 S	Toluene-d8	1.173	1.246	-6.2	151#	0.00
51 T	4-Methyl-2-Pentanone	0.543	0.582	-7.2	113	0.00
52 CM	Toluene	0.882	0.918	-4.1#	114	0.00
53 T	t-1,3-Dichloropropene	0.537	0.570	-6.1	114	0.00
54 T	cis-1,3-Dichloropropene	0.574	0.603	-5.1	114	0.00
55 T	1,1,2-Trichloroethane	0.340	0.350	-2.9	113	0.00
56 T	Ethyl methacrylate	0.541	0.613	-13.3	115	0.00
57 T	1,3-Dichloropropane	0.589	0.605	-2.7	112	0.00
58 T	2-Chloroethyl Vinyl ether	0.323	0.317	1.9	120	0.00
59 T	2-Hexanone	0.350	0.397	-13.4	112	0.00
60 T	Dibromochloromethane	0.354	0.372	-5.1	114	0.00
61 T	1,2-Dibromoethane	0.348	0.361	-3.7	114	0.00
62 S	4-Bromofluorobenzene	0.436	0.471	-8.0	151#	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00
64 T	Tetrachloroethene	0.316	0.319	-0.9	114	0.00
65 PM	Chlorobenzene	1.103	1.122	-1.7	115	0.00
66 T	1,1,1,2-Tetrachloroethane	0.354	0.370	-4.5	115	0.00
67 C	Ethyl Benzene	1.899	1.960	-3.2#	114	0.00
68 T	m/p-Xylenes	0.727	0.756	-4.0	113	0.00
69 T	o-Xylene	0.696	0.730	-4.9	114	0.00
70 T	Styrene	1.192	1.257	-5.5	113	0.00
71 P	Bromoform	0.263	0.288	-9.5	114	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
73 T	Isopropylbenzene	3.643	3.775	-3.6	114	0.00
74 T	N-amyl acetate	1.273	1.380	-8.4	112	0.00
75 P	1,1,2,2-Tetrachloroethane	1.234	1.278	-3.6	112	0.00
76 T	1,2,3-Trichloropropane	1.189	1.279	-7.6	112	0.00
77 T	Bromobenzene	0.835	0.874	-4.7	114	0.00
78 T	n-propylbenzene	4.427	4.639	-4.8	114	0.00
79 T	2-Chlorotoluene	2.655	2.742	-3.3	113	0.00
80 T	1,3,5-Trimethylbenzene	3.007	3.175	-5.6	113	0.00
81 T	trans-1,4-Dichloro-2-butene	0.516	0.575	-11.4	125	0.00
82 T	4-Chlorotoluene	2.686	2.787	-3.8	114	0.00
83 T	tert-Butylbenzene	2.753	2.892	-5.0	114	0.00
84 T	1,2,4-Trimethylbenzene	3.016	3.198	-6.0	113	0.00
85 T	sec-Butylbenzene	3.998	4.192	-4.9	113	0.00
86 T	p-Isopropyltoluene	3.305	3.514	-6.3	114	0.00
87 T	1,3-Dichlorobenzene	1.644	1.684	-2.4	112	0.00
88 T	1,4-Dichlorobenzene	1.676	1.728	-3.1	113	0.00
89 T	n-Butylbenzene	3.201	3.356	-4.8	113	0.00
90 T	Hexachloroethane	0.560	0.592	-5.7	114	0.00
91 T	1,2-Dichlorobenzene	1.579	1.621	-2.7	111	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.295	0.290	1.7	110	0.00
93 T	1,2,4-Trichlorobenzene	1.008	1.048	-4.0	112	0.00
94 T	Hexachlorobutadiene	0.376	0.397	-5.6	113	0.00
95 T	Naphthalene	3.753	3.904	-4.0	112	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086869.D
Acq On : 06 Jun 2025 15:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Quant Time: Jun 07 02:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 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	1.002	1.013	-1.1	110	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086869.D
 Acq On : 06 Jun 2025 15:54
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN060625

Quant Time: Jun 07 02:16:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 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	105	0.00
2 T	Dichlorodifluoromethane	50.000	55.286	-10.6	116	0.00
3 P	Chloromethane	50.000	49.505	1.0	112	0.00
4 C	Vinyl Chloride	50.000	52.451	-4.9#	114	0.00
5 T	Bromomethane	50.000	55.292	-10.6	121	0.00
6 T	Chloroethane	50.000	51.117	-2.2	113	0.00
7 T	Trichlorofluoromethane	50.000	51.819	-3.6	113	0.00
8 T	Diethyl Ether	50.000	53.001	-6.0	116	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	53.615	-7.2	118	0.00
10 T	Methyl Iodide	50.000	53.227	-6.5	116	0.00
11 T	Tert butyl alcohol	250.000	262.193	-4.9	114	0.00
12 CM	1,1-Dichloroethene	50.000	51.678	-3.4#	113	0.00
13 T	Acrolein	250.000	240.545	3.8	128	0.00
14 T	Allyl chloride	50.000	50.504	-1.0	113	0.00
15 T	Acrylonitrile	250.000	258.885	-3.6	114	0.00
16 T	Acetone	250.000	246.750	1.3	114	0.00
17 T	Carbon Disulfide	50.000	50.550	-1.1	115	0.00
18 T	Methyl Acetate	50.000	51.912	-3.8	115	0.00
19 T	Methyl tert-butyl Ether	50.000	51.720	-3.4	113	0.00
20 T	Methylene Chloride	50.000	49.617	0.8	115	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.437	1.1	113	0.00
22 T	Diisopropyl ether	50.000	51.853	-3.7	114	0.00
23 T	Vinyl Acetate	250.000	255.055	-2.0	111	0.00
24 P	1,1-Dichloroethane	50.000	51.487	-3.0	114	0.00
25 T	2-Butanone	250.000	255.897	-2.4	113	0.00
26 T	2,2-Dichloropropane	50.000	57.031	-14.1	116	0.00
27 T	cis-1,2-Dichloroethene	50.000	51.073	-2.1	114	0.00
28 T	Bromochloromethane	50.000	45.310	9.4	113	0.00
29 T	Tetrahydrofuran	250.000	256.656	-2.7	113	0.00
30 C	Chloroform	50.000	50.933	-1.9#	113	0.00
31 T	Cyclohexane	50.000	50.212	-0.4	114	0.00
32 T	1,1,1-Trichloroethane	50.000	50.603	-1.2	113	0.00
33 S	1,2-Dichloroethane-d4	50.000	52.135	-4.3	147	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	104	0.00
35 S	Dibromofluoromethane	50.000	54.416	-8.8	153	0.00
36 T	1,1-Dichloropropene	50.000	52.123	-4.2	115	0.00
37 T	Ethyl Acetate	50.000	50.125	-0.3	109	0.00
38 T	Carbon Tetrachloride	50.000	52.466	-4.9	116	0.00
39 T	Methylcyclohexane	50.000	52.686	-5.4	116	0.00
40 TM	Benzene	50.000	50.931	-1.9	114	0.00
41 T	Methacrylonitrile	50.000	52.607	-5.2	114	0.00
42 TM	1,2-Dichloroethane	50.000	51.489	-3.0	114	0.00
43 T	Isopropyl Acetate	50.000	50.536	-1.1	111	0.00
44 TM	Trichloroethene	50.000	51.788	-3.6	113	0.00
45 C	1,2-Dichloropropane	50.000	51.450	-2.9#	113	0.00
46 T	Dibromomethane	50.000	52.849	-5.7	116	0.00
47 T	Bromodichloromethane	50.000	51.824	-3.6	113	0.00
48 T	Methyl methacrylate	50.000	51.328	-2.7	113	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086869.D
 Acq On : 06 Jun 2025 15:54
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN060625

Quant Time: Jun 07 02:16:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 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	1110.123	-11.0	112	0.00
50 S	Toluene-d8	50.000	53.129	-6.3	151	0.00
51 T	4-Methyl-2-Pentanone	250.000	267.835	-7.1	113	0.00
52 CM	Toluene	50.000	52.040	-4.1#	114	0.00
53 T	t-1,3-Dichloropropene	50.000	53.137	-6.3	114	0.00
54 T	cis-1,3-Dichloropropene	50.000	52.519	-5.0	114	0.00
55 T	1,1,2-Trichloroethane	50.000	51.562	-3.1	113	0.00
56 T	Ethyl methacrylate	50.000	56.688	-13.4	115	0.00
57 T	1,3-Dichloropropane	50.000	51.386	-2.8	112	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	246.006	1.6	120	0.00
59 T	2-Hexanone	250.000	283.478	-13.4	112	0.00
60 T	Dibromochloromethane	50.000	52.627	-5.3	114	0.00
61 T	1,2-Dibromoethane	50.000	51.887	-3.8	114	0.00
62 S	4-Bromofluorobenzene	50.000	54.081	-8.2	151	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	105	0.00
64 T	Tetrachloroethene	50.000	50.450	-0.9	114	0.00
65 PM	Chlorobenzene	50.000	50.892	-1.8	115	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	52.164	-4.3	115	0.00
67 C	Ethyl Benzene	50.000	51.590	-3.2#	114	0.00
68 T	m/p-Xylenes	100.000	103.912	-3.9	113	0.00
69 T	o-Xylene	50.000	52.387	-4.8	114	0.00
70 T	Styrene	50.000	52.758	-5.5	113	0.00
71 P	Bromoform	50.000	54.751	-9.5	114	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	103	0.00
73 T	Isopropylbenzene	50.000	51.823	-3.6	114	0.00
74 T	N-amyl acetate	50.000	54.212	-8.4	112	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	51.763	-3.5	112	0.00
76 T	1,2,3-Trichloropropane	50.000	53.821	-7.6	112	0.00
77 T	Bromobenzene	50.000	52.313	-4.6	114	0.00
78 T	n-propylbenzene	50.000	52.397	-4.8	114	0.00
79 T	2-Chlorotoluene	50.000	51.650	-3.3	113	0.00
80 T	1,3,5-Trimethylbenzene	50.000	52.787	-5.6	113	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	55.702	-11.4	125	0.00
82 T	4-Chlorotoluene	50.000	51.884	-3.8	114	0.00
83 T	tert-Butylbenzene	50.000	52.532	-5.1	114	0.00
84 T	1,2,4-Trimethylbenzene	50.000	53.024	-6.0	113	0.00
85 T	sec-Butylbenzene	50.000	52.428	-4.9	113	0.00
86 T	p-Isopropyltoluene	50.000	53.174	-6.3	114	0.00
87 T	1,3-Dichlorobenzene	50.000	51.224	-2.4	112	0.00
88 T	1,4-Dichlorobenzene	50.000	51.557	-3.1	113	0.00
89 T	n-Butylbenzene	50.000	52.424	-4.8	113	0.00
90 T	Hexachloroethane	50.000	52.847	-5.7	114	0.00
91 T	1,2-Dichlorobenzene	50.000	51.340	-2.7	111	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.161	1.7	110	0.00
93 T	1,2,4-Trichlorobenzene	50.000	51.986	-4.0	112	0.00
94 T	Hexachlorobutadiene	50.000	52.843	-5.7	113	0.00
95 T	Naphthalene	50.000	52.005	-4.0	112	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086869.D
Acq On : 06 Jun 2025 15:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Quant Time: Jun 07 02:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 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	50.539	-1.1	110	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: PARS02

Lab Code: CHEM Case No.: Q2231 SAS No.: Q2231 SDG No.: Q2231

Instrument ID: MSVOA_N Calibration Date/Time: 06/11/2025 11:32

Lab File ID: VN086940.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.499	0.538		7.82	20
Chloromethane	0.644	0.555	0.1	-13.82	20
Vinyl Chloride	0.664	0.701		5.57	20
Bromomethane	0.372	0.312		-16.13	20
Chloroethane	0.429	0.457		6.53	20
Trichlorofluoromethane	0.868	0.930		7.14	20
1,1,2-Trichlorotrifluoroethane	0.545	0.582		6.79	20
1,1-Dichloroethene	0.557	0.593		6.46	20
Acetone	0.355	0.384		8.17	20
Carbon Disulfide	1.539	1.505		-2.21	20
Methyl tert-butyl Ether	2.015	2.172		7.79	20
Methyl Acetate	1.035	1.085		4.83	20
Methylene Chloride	0.665	0.673		1.2	20
trans-1,2-Dichloroethene	0.619	0.633		2.26	20
1,1-Dichloroethane	1.120	1.178	0.1	5.18	20
Cyclohexane	1.086	1.017		-6.35	20
2-Butanone	0.577	0.568		-1.56	20
Carbon Tetrachloride	0.433	0.472		9.01	20
cis-1,2-Dichloroethene	0.740	0.793		7.16	20
Bromochloromethane	0.550	0.578		5.09	20
Chloroform	1.118	1.176		5.19	20
1,1,1-Trichloroethane	0.951	0.976		2.63	20
Methylcyclohexane	0.605	0.576		-4.79	20
Benzene	1.444	1.554		7.55	20
1,2-Dichloroethane	0.438	0.472		7.76	20
Trichloroethene	0.342	0.382		11.7	20
1,2-Dichloropropane	0.351	0.384		9.4	20
Bromodichloromethane	0.480	0.532		10.83	20
4-Methyl-2-Pentanone	0.543	0.590		8.66	20
Toluene	0.882	0.978		10.88	20
t-1,3-Dichloropropene	0.537	0.609		13.41	20
cis-1,3-Dichloropropene	0.574	0.661		15.16	20
1,1,2-Trichloroethane	0.340	0.383		12.65	20
2-Hexanone	0.350	0.395		12.86	20
Dibromochloromethane	0.354	0.414		16.95	20
1,2-Dibromoethane	0.348	0.385		10.63	20
Tetrachloroethene	0.316	0.337		6.65	20
Chlorobenzene	1.103	1.222	0.3	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.



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PARS02

Lab Code: CHEM Case No.: Q2231 SAS No.: Q2231 SDG No.: Q2231

Instrument ID: MSVOA_N Calibration Date/Time: 06/11/2025 11:32

Lab File ID: VN086940.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.900	2.059		8.37	20
m/p-Xylenes	0.727	0.802		10.32	20
o-Xylene	0.696	0.782		12.36	20
Styrene	1.192	1.358		13.93	20
Bromoform	0.263	0.319	0.1	21.29	20
Isopropylbenzene	3.643	3.898		7	20
1,1,2,2-Tetrachloroethane	1.234	1.402	0.3	13.61	20
1,3-Dichlorobenzene	1.644	1.843		12.1	20
1,4-Dichlorobenzene	1.676	1.887		12.59	20
1,2-Dichlorobenzene	1.579	1.761		11.53	20
1,2-Dibromo-3-Chloropropane	0.295	0.311		5.42	20
1,2,4-Trichlorobenzene	1.008	1.052		4.36	20
1,2,3-Trichlorobenzene	1.002	0.995		-0.7	20
1,2-Dichloroethane-d4	0.669	0.622		-7.03	20
Dibromofluoromethane	0.296	0.309		4.39	20
Toluene-d8	1.173	1.181		0.68	20
4-Bromofluorobenzene	0.436	0.440		0.92	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_N\Data\VN061125\
 Data File : VN086940.D
 Acq On : 11 Jun 2025 11:32
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/12/2025
 Supervised By : Semsettin Yesilyurt 06/12/2025

Quant Time: Jun 12 01:28:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	205098	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	357643	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	312173	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	152136	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.583	65	127629	46.478	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	92.960%
35) Dibromofluoromethane	8.177	113	110532	52.151	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	104.300%
50) Toluene-d8	10.565	98	422391	50.342	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.680%
62) 4-Bromofluorobenzene	12.847	95	157388	50.489	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	100.980%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.154	85	110255	53.916	ug/l	100
3) Chloromethane	2.395	50	113731	43.069	ug/l	94
4) Vinyl Chloride	2.554	62	143755	52.773	ug/l	99
5) Bromomethane	2.989	94	63914	41.928	ug/l	96
6) Chloroethane	3.154	64	93702	53.253	ug/l	99
7) Trichlorofluoromethane	3.524	101	190657	53.570	ug/l	99
8) Diethyl Ether	3.983	74	85722	55.281	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.401	101	119322	53.364	ug/l	99
10) Methyl Iodide	4.618	142	115825	39.959	ug/l	97
11) Tert butyl alcohol	5.542	59	183049	245.667	ug/l	99
12) 1,1-Dichloroethene	4.365	96	121690	53.307	ug/l	94
13) Acrolein	4.201	56	68006	288.340	ug/l	99
14) Allyl chloride	5.048	41	187099	49.420	ug/l	96
15) Acrylonitrile	5.736	53	456903	262.349	ug/l	99
16) Acetone	4.442	43	393802	270.423	ug/l	97
17) Carbon Disulfide	4.736	76	308706	48.889	ug/l	100
18) Methyl Acetate	5.042	43	222452	52.419	ug/l	98
19) Methyl tert-butyl Ether	5.812	73	445459	53.894	ug/l	98
20) Methylene Chloride	5.295	84	138117	50.660	ug/l	95
21) trans-1,2-Dichloroethene	5.806	96	129921	51.154	ug/l	98
22) Diisopropyl ether	6.683	45	412097	51.639	ug/l	99
23) Vinyl Acetate	6.618	43	1766271	261.960	ug/l	98
24) 1,1-Dichloroethane	6.589	63	241575	52.602	ug/l	99
25) 2-Butanone	7.489	43	582343	246.018	ug/l	95
26) 2,2-Dichloropropane	7.506	77	215080	60.206	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	162658	53.551	ug/l	98
28) Bromochloromethane	7.824	49	118461	52.462	ug/l	95
29) Tetrahydrofuran	7.847	42	380103	246.502	ug/l	96
30) Chloroform	7.977	83	241191	52.589	ug/l	98
31) Cyclohexane	8.265	56	208644	46.846	ug/l	97
32) 1,1,1-Trichloroethane	8.177	97	200139	51.307	ug/l	97
36) 1,1-Dichloropropene	8.377	75	172642	54.664	ug/l	99
37) Ethyl Acetate	7.571	43	211755	52.670	ug/l	99
38) Carbon Tetrachloride	8.371	117	168940	54.485	ug/l	94
39) Methylcyclohexane	9.606	83	206018	47.613	ug/l	96
40) Benzene	8.612	78	555597	53.798	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
 Data File : VN086940.D
 Acq On : 11 Jun 2025 11:32
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :John Carlone 06/12/2025
 Supervised By :Semsettin Yesilyurt 06/12/2025

Quant Time: Jun 12 01:28:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.789	41	115191	51.017	ug/l	93
42) 1,2-Dichloroethane	8.677	62	168630	53.833	ug/l	99
43) Isopropyl Acetate	8.694	43	338399	52.442	ug/l	97
44) Trichloroethene	9.353	130	136748	55.842	ug/l	98
45) 1,2-Dichloropropane	9.624	63	137250	54.626	ug/l	100
46) Dibromomethane	9.712	93	94620	56.697	ug/l	99
47) Bromodichloromethane	9.888	83	190362	55.440	ug/l	100
48) Methyl methacrylate	9.683	41	154138	51.898	ug/l	96
49) 1,4-Dioxane	9.700	88	60969	1128.409	ug/l #	96
51) 4-Methyl-2-Pentanone	10.447	43	1054797	271.529	ug/l	98
52) Toluene	10.630	92	349873	55.435	ug/l	98
53) t-1,3-Dichloropropene	10.835	75	217752	56.714	ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	236296	57.518	ug/l	97
55) 1,1,2-Trichloroethane	11.018	97	137099	56.454	ug/l	99
56) Ethyl methacrylate	10.877	69	231226	59.778	ug/l	95
57) 1,3-Dichloropropane	11.165	76	232746	55.247	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	665780	288.579	ug/l	99
59) 2-Hexanone	11.200	43	705660	282.011	ug/l	97
60) Dibromochloromethane	11.359	129	148069	58.520	ug/l	99
61) 1,2-Dibromoethane	11.471	107	137779	55.351	ug/l	99
64) Tetrachloroethene	11.106	164	105084	53.190	ug/l	95
65) Chlorobenzene	11.888	112	381598	55.424	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	124964	56.463	ug/l	99
67) Ethyl Benzene	11.965	91	642857	54.206	ug/l	99
68) m/p-Xylenes	12.071	106	500895	110.334	ug/l	99
69) o-Xylene	12.400	106	244038	56.127	ug/l	98
70) Styrene	12.412	104	424060	56.996	ug/l	100
71) Bromoform	12.576	173	99616	60.747	ug/l #	100
73) Isopropylbenzene	12.694	105	593080	53.511	ug/l	99
74) N-amyl acetate	12.512	43	208229	53.765	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.935	83	213329	56.816	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	179987m	49.771	ug/l	
77) Bromobenzene	12.976	156	146181	57.512	ug/l	98
78) n-propylbenzene	13.035	91	717012	53.234	ug/l	99
79) 2-Chlorotoluene	13.123	91	439522	54.413	ug/l	98
80) 1,3,5-Trimethylbenzene	13.171	105	490727	53.628	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	93790	59.701	ug/l #	87
82) 4-Chlorotoluene	13.218	91	446237	54.598	ug/l	99
83) tert-Butylbenzene	13.435	119	448106	53.498	ug/l	97
84) 1,2,4-Trimethylbenzene	13.482	105	495936	54.048	ug/l	99
85) sec-Butylbenzene	13.612	105	617792	50.788	ug/l	99
86) p-Isopropyltoluene	13.729	119	524440	52.156	ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	280357	56.062	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	287122	56.315	ug/l	99
89) n-Butylbenzene	14.053	91	477306	49.007	ug/l	100
90) Hexachloroethane	14.329	117	89886	52.738	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	267932	55.766	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	47326	52.704	ug/l	92
93) 1,2,4-Trichlorobenzene	15.388	180	160030	52.161	ug/l	99
94) Hexachlorobutadiene	15.500	225	51073	44.682	ug/l	99
95) Naphthalene	15.635	128	624421	54.679	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	151411	49.672	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086940.D
Acq On : 11 Jun 2025 11:32
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025

Quant Time: Jun 12 01:28:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

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

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

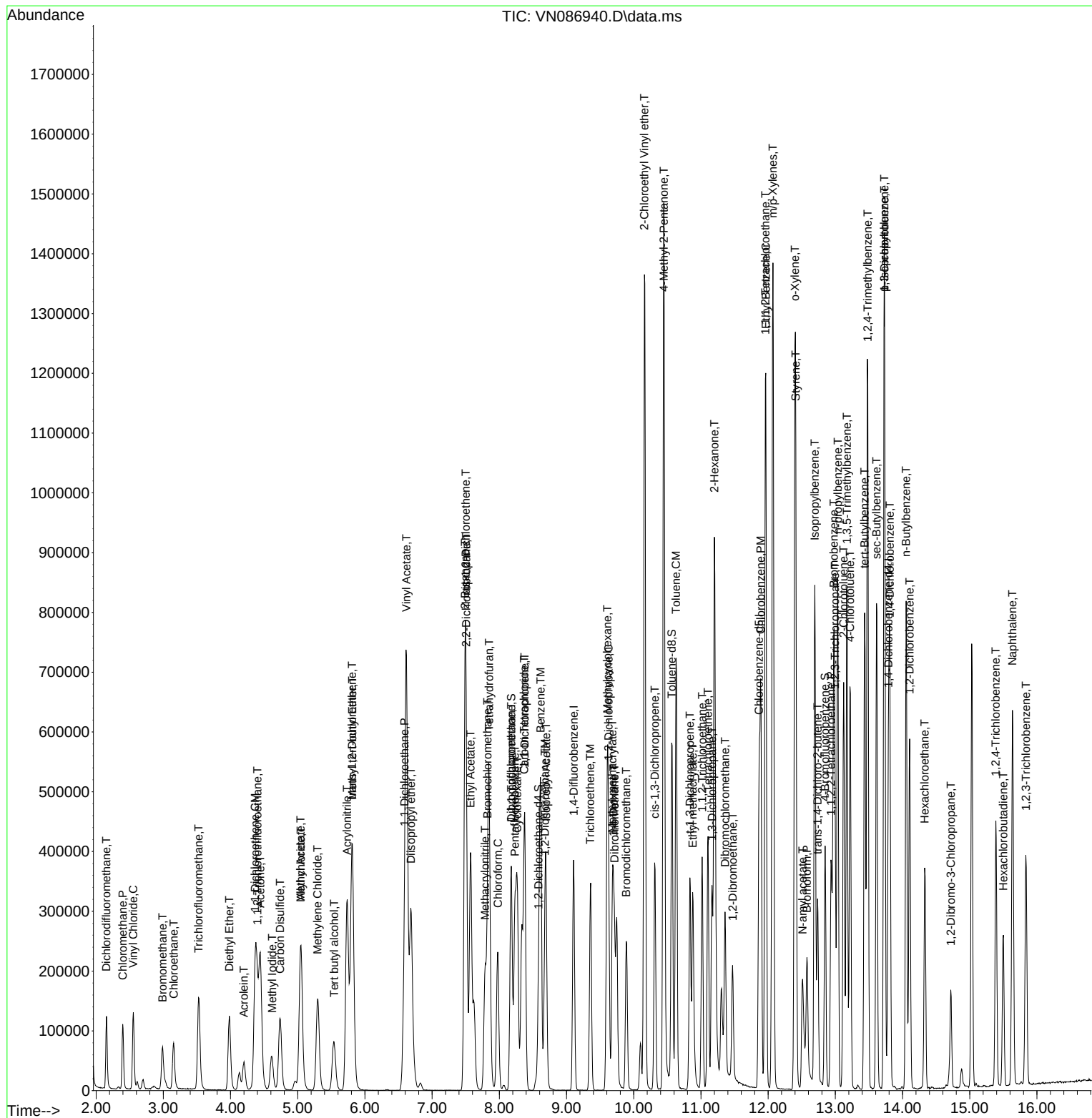
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086940.D
Acq On : 11 Jun 2025 11:32
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025

Quant Time: Jun 12 01:28:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
 Data File : VN086940.D
 Acq On : 11 Jun 2025 11:32
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jun 12 01:28:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 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	99	0.00
2 T	Dichlorodifluoromethane	0.499	0.538	-7.8	106	0.00
3 P	Chloromethane	0.644	0.555	13.8	92	0.00
4 C	Vinyl Chloride	0.664	0.701	-5.6#	108	0.00
5 T	Bromomethane	0.372	0.312	16.1	86	0.00
6 T	Chloroethane	0.429	0.457	-6.5	111	0.00
7 T	Trichlorofluoromethane	0.868	0.930	-7.1	110	0.00
8 T	Diethyl Ether	0.378	0.418	-10.6	114	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.545	0.582	-6.8	111	0.00
10 T	Methyl Iodide	0.707	0.565	20.1	82	0.01
11 T	Tert butyl alcohol	0.182	0.178	2.2	100	0.00
12 CM	1,1-Dichloroethene	0.557	0.593	-6.5#	110	0.00
13 T	Acrolein	0.057	0.066	-15.8	145	0.00
14 T	Allyl chloride	0.923	0.912	1.2	104	0.00
15 T	Acrylonitrile	0.425	0.446	-4.9	108	0.00
16 T	Acetone	0.355	0.384	-8.2	118	0.00
17 T	Carbon Disulfide	1.539	1.505	2.2	104	0.00
18 T	Methyl Acetate	1.035	1.085	-4.8	109	0.00
19 T	Methyl tert-butyl Ether	2.015	2.172	-7.8	111	0.00
20 T	Methylene Chloride	0.665	0.673	-1.2	110	0.00
21 T	trans-1,2-Dichloroethene	0.619	0.633	-2.3	110	0.00
22 T	Diisopropyl ether	1.945	2.009	-3.3	107	0.00
23 T	Vinyl Acetate	1.644	1.722	-4.7	107	0.00
24 P	1,1-Dichloroethane	1.120	1.178	-5.2	110	0.00
25 T	2-Butanone	0.577	0.568	1.6	102	0.00
26 T	2,2-Dichloropropane	0.871	1.049	-20.4	115	0.00
27 T	cis-1,2-Dichloroethene	0.740	0.793	-7.2	112	0.00
28 T	Bromochloromethane	0.550	0.578	-5.1	122	0.00
29 T	Tetrahydrofuran	0.376	0.371	1.3	102	0.00
30 C	Chloroform	1.118	1.176	-5.2#	110	0.00
31 T	Cyclohexane	1.086	1.017	6.4	100	0.00
32 T	1,1,1-Trichloroethane	0.951	0.976	-2.6	108	0.00
33 S	1,2-Dichloroethane-d4	0.669	0.622	7.0	123	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	94	0.00
35 S	Dibromofluoromethane	0.296	0.309	-4.4	133	0.00
36 T	1,1-Dichloropropene	0.442	0.483	-9.3	109	0.00
37 T	Ethyl Acetate	0.562	0.592	-5.3	104	0.00
38 T	Carbon Tetrachloride	0.433	0.472	-9.0	109	0.00
39 T	Methylcyclohexane	0.605	0.576	4.8	95	0.00
40 TM	Benzene	1.444	1.553	-7.5	109	0.00
41 T	Methacrylonitrile	0.316	0.322	-1.9	100	0.00
42 TM	1,2-Dichloroethane	0.438	0.472	-7.8	108	0.00
43 T	Isopropyl Acetate	0.902	0.946	-4.9	105	0.00
44 TM	Trichloroethene	0.342	0.382	-11.7	110	0.00
45 C	1,2-Dichloropropane	0.351	0.384	-9.4#	109	0.00
46 T	Dibromomethane	0.233	0.265	-13.7	113	0.00
47 T	Bromodichloromethane	0.480	0.532	-10.8	110	0.00
48 T	Methyl methacrylate	0.415	0.431	-3.9	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
 Data File : VN086940.D
 Acq On : 11 Jun 2025 11:32
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jun 12 01:28:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 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	0.008	0.009	-12.5	103	0.00
50 S	Toluene-d8	1.173	1.181	-0.7	130	0.00
51 T	4-Methyl-2-Pentanone	0.543	0.590	-8.7	104	0.00
52 CM	Toluene	0.882	0.978	-10.9#	111	0.00
53 T	t-1,3-Dichloropropene	0.537	0.609	-13.4	110	0.00
54 T	cis-1,3-Dichloropropene	0.574	0.661	-15.2	113	0.00
55 T	1,1,2-Trichloroethane	0.340	0.383	-12.6	112	0.00
56 T	Ethyl methacrylate	0.541	0.647	-19.6	110	0.00
57 T	1,3-Dichloropropane	0.589	0.651	-10.5	110	0.00
58 T	2-Chloroethyl Vinyl ether	0.323	0.372	-15.2	128	0.00
59 T	2-Hexanone	0.350	0.395	-12.9	101	0.00
60 T	Dibromochloromethane	0.354	0.414	-16.9	115	0.00
61 T	1,2-Dibromoethane	0.348	0.385	-10.6	111	0.00
62 S	4-Bromofluorobenzene	0.436	0.440	-0.9	128	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
64 T	Tetrachloroethene	0.316	0.337	-6.6	108	0.00
65 PM	Chlorobenzene	1.103	1.222	-10.8	112	0.00
66 T	1,1,1,2-Tetrachloroethane	0.354	0.400	-13.0	111	0.00
67 C	Ethyl Benzene	1.899	2.059	-8.4#	108	0.00
68 T	m/p-Xylenes	0.727	0.802	-10.3	107	0.00
69 T	o-Xylene	0.696	0.782	-12.4	109	0.00
70 T	Styrene	1.192	1.358	-13.9	110	0.00
71 P	Bromoform	0.263	0.319	-21.3	113	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00
73 T	Isopropylbenzene	3.643	3.898	-7.0	103	0.00
74 T	N-amyl acetate	1.273	1.369	-7.5	98	0.00
75 P	1,1,2,2-Tetrachloroethane	1.234	1.402	-13.6	108	0.00
76 T	1,2,3-Trichloropropane	1.189	1.183	0.5	92	0.00
77 T	Bromobenzene	0.835	0.961	-15.1	110	0.00
78 T	n-propylbenzene	4.427	4.713	-6.5	102	0.00
79 T	2-Chlorotoluene	2.655	2.889	-8.8	105	0.00
80 T	1,3,5-Trimethylbenzene	3.007	3.226	-7.3	101	0.00
81 T	trans-1,4-Dichloro-2-butene	0.516	0.616	-19.4	118	0.00
82 T	4-Chlorotoluene	2.686	2.933	-9.2	105	0.00
83 T	tert-Butylbenzene	2.753	2.945	-7.0	102	0.00
84 T	1,2,4-Trimethylbenzene	3.016	3.260	-8.1	102	0.00
85 T	sec-Butylbenzene	3.998	4.061	-1.6	96	0.00
86 T	p-Isopropyltoluene	3.305	3.447	-4.3	98	0.00
87 T	1,3-Dichlorobenzene	1.644	1.843	-12.1	108	0.00
88 T	1,4-Dichlorobenzene	1.676	1.887	-12.6	109	0.00
89 T	n-Butylbenzene	3.201	3.137	2.0	93	0.00
90 T	Hexachloroethane	0.560	0.591	-5.5	100	0.00
91 T	1,2-Dichlorobenzene	1.579	1.761	-11.5	107	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.295	0.311	-5.4	104	0.00
93 T	1,2,4-Trichlorobenzene	1.008	1.052	-4.4	99	0.00
94 T	Hexachlorobutadiene	0.376	0.336	10.6	84	0.00
95 T	Naphthalene	3.753	4.104	-9.4	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086940.D
Acq On : 11 Jun 2025 11:32
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 12 01:28:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 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	1.002	0.995	0.7	95	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
 Data File : VN086940.D
 Acq On : 11 Jun 2025 11:32
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jun 12 01:28:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 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	99	0.00
2 T	Dichlorodifluoromethane	50.000	53.916	-7.8	106	0.00
3 P	Chloromethane	50.000	43.069	13.9	92	0.00
4 C	Vinyl Chloride	50.000	52.773	-5.5#	108	0.00
5 T	Bromomethane	50.000	41.928	16.1	86	0.00
6 T	Chloroethane	50.000	53.253	-6.5	111	0.00
7 T	Trichlorofluoromethane	50.000	53.570	-7.1	110	0.00
8 T	Diethyl Ether	50.000	55.281	-10.6	114	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	53.364	-6.7	111	0.00
10 T	Methyl Iodide	50.000	39.959	20.1	82	0.01
11 T	Tert butyl alcohol	250.000	245.667	1.7	100	0.00
12 CM	1,1-Dichloroethene	50.000	53.307	-6.6#	110	0.00
13 T	Acrolein	250.000	288.340	-15.3	145	0.00
14 T	Allyl chloride	50.000	49.420	1.2	104	0.00
15 T	Acrylonitrile	250.000	262.349	-4.9	108	0.00
16 T	Acetone	250.000	270.423	-8.2	118	0.00
17 T	Carbon Disulfide	50.000	48.889	2.2	104	0.00
18 T	Methyl Acetate	50.000	52.419	-4.8	109	0.00
19 T	Methyl tert-butyl Ether	50.000	53.894	-7.8	111	0.00
20 T	Methylene Chloride	50.000	50.660	-1.3	110	0.00
21 T	trans-1,2-Dichloroethene	50.000	51.154	-2.3	110	0.00
22 T	Diisopropyl ether	50.000	51.639	-3.3	107	0.00
23 T	Vinyl Acetate	250.000	261.960	-4.8	107	0.00
24 P	1,1-Dichloroethane	50.000	52.602	-5.2	110	0.00
25 T	2-Butanone	250.000	246.018	1.6	102	0.00
26 T	2,2-Dichloropropane	50.000	60.206	-20.4	115	0.00
27 T	cis-1,2-Dichloroethene	50.000	53.551	-7.1	112	0.00
28 T	Bromochloromethane	50.000	52.462	-4.9	122	0.00
29 T	Tetrahydrofuran	250.000	246.502	1.4	102	0.00
30 C	Chloroform	50.000	52.589	-5.2#	110	0.00
31 T	Cyclohexane	50.000	46.846	6.3	100	0.00
32 T	1,1,1-Trichloroethane	50.000	51.307	-2.6	108	0.00
33 S	1,2-Dichloroethane-d4	50.000	46.478	7.0	123	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	94	0.00
35 S	Dibromofluoromethane	50.000	52.151	-4.3	133	0.00
36 T	1,1-Dichloropropene	50.000	54.664	-9.3	109	0.00
37 T	Ethyl Acetate	50.000	52.670	-5.3	104	0.00
38 T	Carbon Tetrachloride	50.000	54.485	-9.0	109	0.00
39 T	Methylcyclohexane	50.000	47.613	4.8	95	0.00
40 TM	Benzene	50.000	53.798	-7.6	109	0.00
41 T	Methacrylonitrile	50.000	51.017	-2.0	100	0.00
42 TM	1,2-Dichloroethane	50.000	53.833	-7.7	108	0.00
43 T	Isopropyl Acetate	50.000	52.442	-4.9	105	0.00
44 TM	Trichloroethene	50.000	55.842	-11.7	110	0.00
45 C	1,2-Dichloropropane	50.000	54.626	-9.3#	109	0.00
46 T	Dibromomethane	50.000	56.697	-13.4	113	0.00
47 T	Bromodichloromethane	50.000	55.440	-10.9	110	0.00
48 T	Methyl methacrylate	50.000	51.898	-3.8	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
 Data File : VN086940.D
 Acq On : 11 Jun 2025 11:32
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jun 12 01:28:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 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	1128.409	-12.8	103	0.00
50 S	Toluene-d8	50.000	50.342	-0.7	130	0.00
51 T	4-Methyl-2-Pentanone	250.000	271.529	-8.6	104	0.00
52 CM	Toluene	50.000	55.435	-10.9#	111	0.00
53 T	t-1,3-Dichloropropene	50.000	56.714	-13.4	110	0.00
54 T	cis-1,3-Dichloropropene	50.000	57.518	-15.0	113	0.00
55 T	1,1,2-Trichloroethane	50.000	56.454	-12.9	112	0.00
56 T	Ethyl methacrylate	50.000	59.778	-19.6	110	0.00
57 T	1,3-Dichloropropane	50.000	55.247	-10.5	110	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	288.579	-15.4	128	0.00
59 T	2-Hexanone	250.000	282.011	-12.8	101	0.00
60 T	Dibromochloromethane	50.000	58.520	-17.0	115	0.00
61 T	1,2-Dibromoethane	50.000	55.351	-10.7	111	0.00
62 S	4-Bromofluorobenzene	50.000	50.489	-1.0	128	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	94	0.00
64 T	Tetrachloroethene	50.000	53.190	-6.4	108	0.00
65 PM	Chlorobenzene	50.000	55.424	-10.8	112	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	56.463	-12.9	111	0.00
67 C	Ethyl Benzene	50.000	54.206	-8.4#	108	0.00
68 T	m/p-Xylenes	100.000	110.334	-10.3	107	0.00
69 T	o-Xylene	50.000	56.127	-12.3	109	0.00
70 T	Styrene	50.000	56.996	-14.0	110	0.00
71 P	Bromoform	50.000	60.747	-21.5	113	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	91	0.00
73 T	Isopropylbenzene	50.000	53.511	-7.0	103	0.00
74 T	N-amyl acetate	50.000	53.765	-7.5	98	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	56.816	-13.6	108	0.00
76 T	1,2,3-Trichloropropane	50.000	49.771	0.5	92	0.00
77 T	Bromobenzene	50.000	57.512	-15.0	110	0.00
78 T	n-propylbenzene	50.000	53.234	-6.5	102	0.00
79 T	2-Chlorotoluene	50.000	54.413	-8.8	105	0.00
80 T	1,3,5-Trimethylbenzene	50.000	53.628	-7.3	101	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	59.701	-19.4	118	0.00
82 T	4-Chlorotoluene	50.000	54.598	-9.2	105	0.00
83 T	tert-Butylbenzene	50.000	53.498	-7.0	102	0.00
84 T	1,2,4-Trimethylbenzene	50.000	54.048	-8.1	102	0.00
85 T	sec-Butylbenzene	50.000	50.788	-1.6	96	0.00
86 T	p-Isopropyltoluene	50.000	52.156	-4.3	98	0.00
87 T	1,3-Dichlorobenzene	50.000	56.062	-12.1	108	0.00
88 T	1,4-Dichlorobenzene	50.000	56.315	-12.6	109	0.00
89 T	n-Butylbenzene	50.000	49.007	2.0	93	0.00
90 T	Hexachloroethane	50.000	52.738	-5.5	100	0.00
91 T	1,2-Dichlorobenzene	50.000	55.766	-11.5	107	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	52.704	-5.4	104	0.00
93 T	1,2,4-Trichlorobenzene	50.000	52.161	-4.3	99	0.00
94 T	Hexachlorobutadiene	50.000	44.682	10.6	84	0.00
95 T	Naphthalene	50.000	54.679	-9.4	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086940.D
Acq On : 11 Jun 2025 11:32
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 12 01:28:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 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	49.672	0.7	95	0.00

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



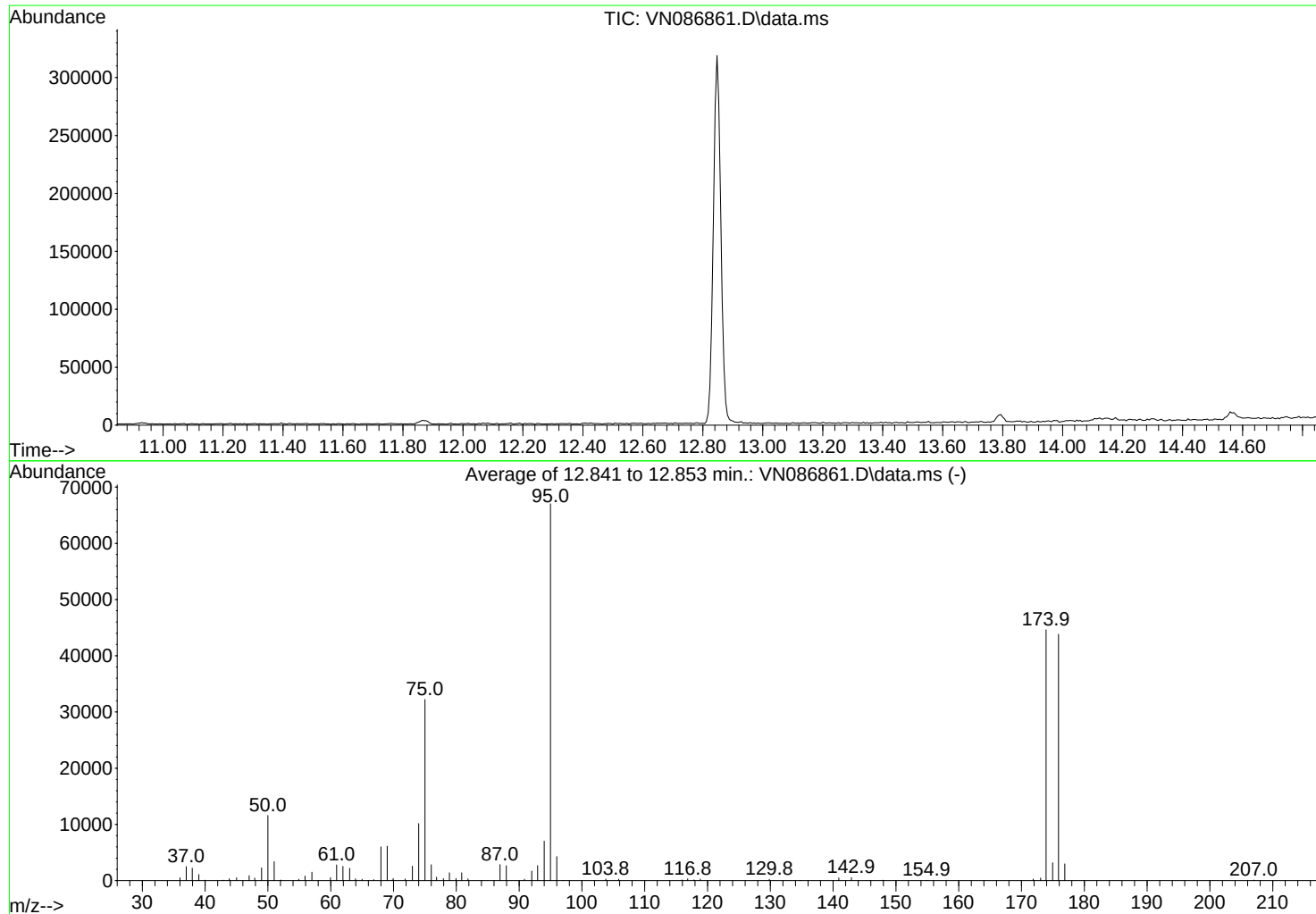
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086861.D
Acq On : 06 Jun 2025 07:59
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Title : SW846 8260
Last Update : Sat Jun 07 02:12:50 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.3	11610	PASS
75	95	30	60	48.1	32235	PASS
95	95	100	100	100.0	67037	PASS
96	95	5	9	6.4	4284	PASS
173	174	0.00	2	1.0	453	PASS
174	95	50	100	66.6	44632	PASS
175	174	5	9	7.1	3184	PASS
176	174	95	101	98.1	43805	PASS
177	176	5	9	6.8	2979	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	508	50.00	11610	63.95	331	76.00	281
37.00	2495	51.00	3387	65.00	260	76.85	60
37.95	2209	52.05	112	66.85	177	77.95	34
39.00	1096	54.90	253	68.00	6008	78.90	141
39.95	84	55.90	806	69.00	6141	79.95	395
42.90	88	57.00	1501	69.80	100	80.85	1397
43.85	329	58.00	50	69.95	383	81.85	328
45.00	512	59.95	526	71.85	297	86.95	2851
47.00	882	60.95	2806	73.00	2562	87.95	2646
47.90	460	61.95	2535	74.00	10138	90.85	264
49.00	2276	63.00	2195	75.00	32235	92.00	1704

Average of 12.841 to 12.853 min.: VN086861.D\data.ms

BFB

Modified:subtracted

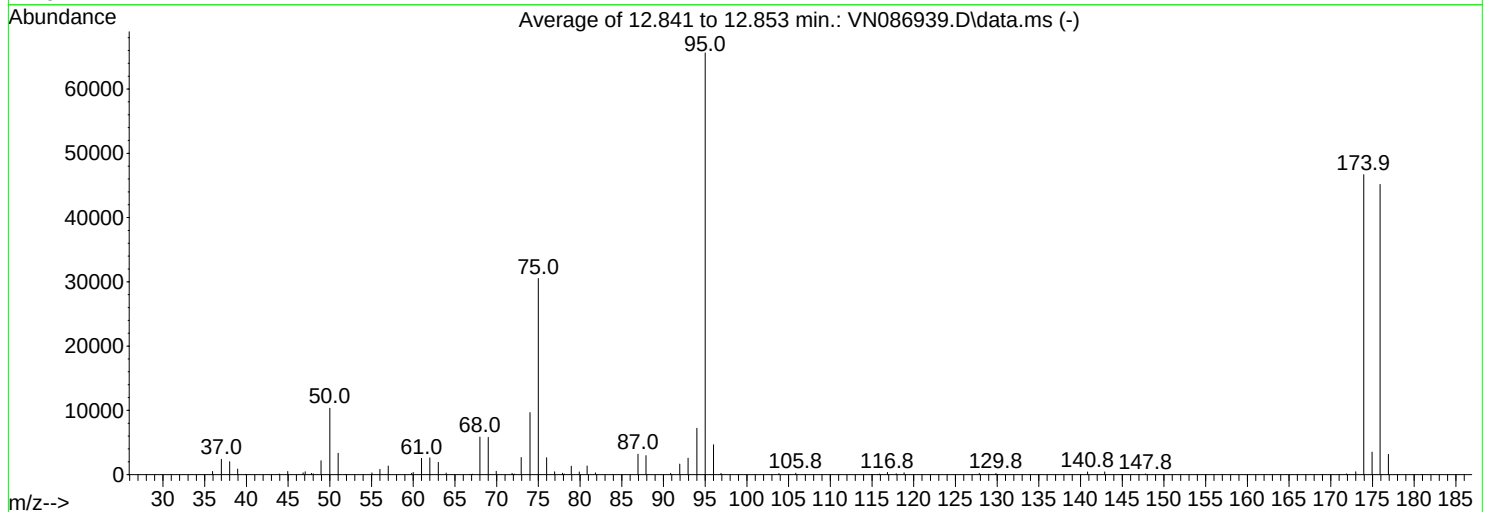
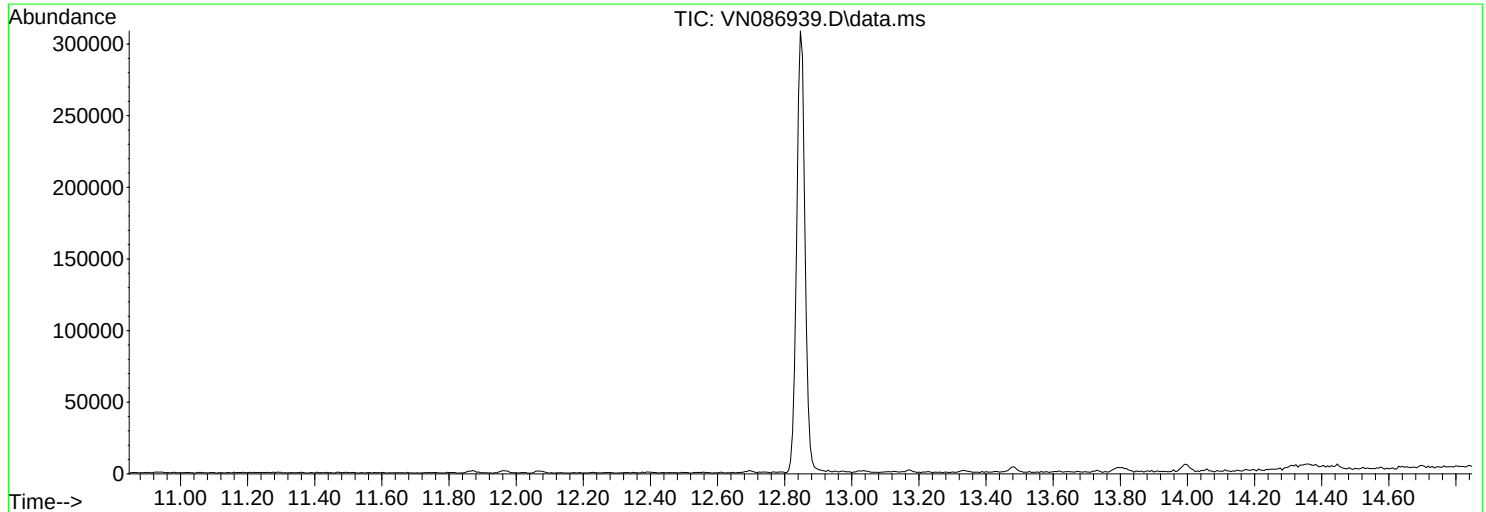
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.95	2660	129.85	228	175.90	43805		
94.00	7029	134.80	66	176.90	2979		
95.00	67037	140.90	488	207.00	111		
96.00	4284	142.90	542				
97.00	57	145.90	54				
103.80	279	147.90	82				
105.85	267	154.90	64				
115.90	128	171.85	288				
116.85	345	173.05	453				
117.85	116	173.90	44632				
118.85	274	174.95	3184				

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086939.D
Acq On : 11 Jun 2025 10:22
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Title : SW846 8260
Last Update : Sat Jun 07 02:12:50 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	15.7	10335	PASS
75	95	30	60	46.5	30525	PASS
95	95	100	100	100.0	65627	PASS
96	95	5	9	7.1	4656	PASS
173	174	0.00	2	1.0	446	PASS
174	95	50	100	71.1	46675	PASS
175	174	5	9	7.5	3520	PASS
176	174	95	101	96.8	45165	PASS
177	176	5	9	7.0	3156	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	494	48.95	2163	63.00	1912	74.00	964
37.00	2403	50.00	10335	63.95	253	75.00	3052
38.00	2017	51.00	3344	64.90	57	76.00	263
38.95	867	51.90	62	66.80	56	76.95	44
39.90	50	55.05	275	67.10	81	77.90	239
43.95	113	56.00	819	68.00	5863	78.10	106
44.95	490	57.00	1338	69.00	5810	78.95	1316
46.80	268	59.80	202	69.95	516	79.90	417
47.05	461	60.00	356	71.85	193	80.85	1355
47.80	192	61.00	2534	72.10	100	81.85	284
48.00	136	62.00	2606	72.95	2656	86.95	3197

Average of 12.841 to 12.853 min.: VN086939.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.90	2968	115.90	106	171.90	125		
90.85	197	116.85	346	173.00	446		
91.95	1650	117.90	153	173.95	46675		
92.95	2576	118.85	289	174.95	3520		
94.00	7225	127.85	197	175.90	45165		
95.00	65627	129.00	74	176.90	3156		
96.00	4656	129.85	202				
96.90	194	140.85	437				
103.85	167	142.90	425				
105.85	223	147.00	54				
115.70	63	147.80	119				

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.		Date Collected:	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	
Client Sample ID:	VN0611WBL01		SDG No.:	Q2231
Lab Sample ID:	VN0611WBL01		Matrix:	Water
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086942.D	1		06/11/25 12:28	VN061125

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:	PARSONS Engineering of New York, Inc.		Date Collected:	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	
Client Sample ID:	VN0611WBL01		SDG No.:	Q2231
Lab Sample ID:	VN0611WBL01		Matrix:	Water
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086942.D	1		06/11/25 12:28	VN061125

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	48.3		74 - 125	97%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	51.7		86 - 113	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.4		77 - 121	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	328000	8.23			
540-36-3	1,4-Difluorobenzene	619000	9.106			
3114-55-4	Chlorobenzene-d5	543000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	257000	13.788			

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	
Client Sample ID:	VN0611WBL01	SDG No.:	Q2231
Lab Sample ID:	VN0611WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086942.D	1		06/11/25 12:28	VN061125

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_N\Data\VN061125\
 Data File : VN086942.D
 Acq On : 11 Jun 2025 12:28
 Operator : JC\MD
 Sample : VN0611WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0611WBL01

Quant Time: Jun 12 01:30:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	328120	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	618651	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	543433	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	257257	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	212062	48.271	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	96.540%
35) Dibromofluoromethane	8.177	113	180701	49.287	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.580%
50) Toluene-d8	10.565	98	749967	51.673	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.340%
62) 4-Bromofluorobenzene	12.847	95	266545	49.431	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	98.860%

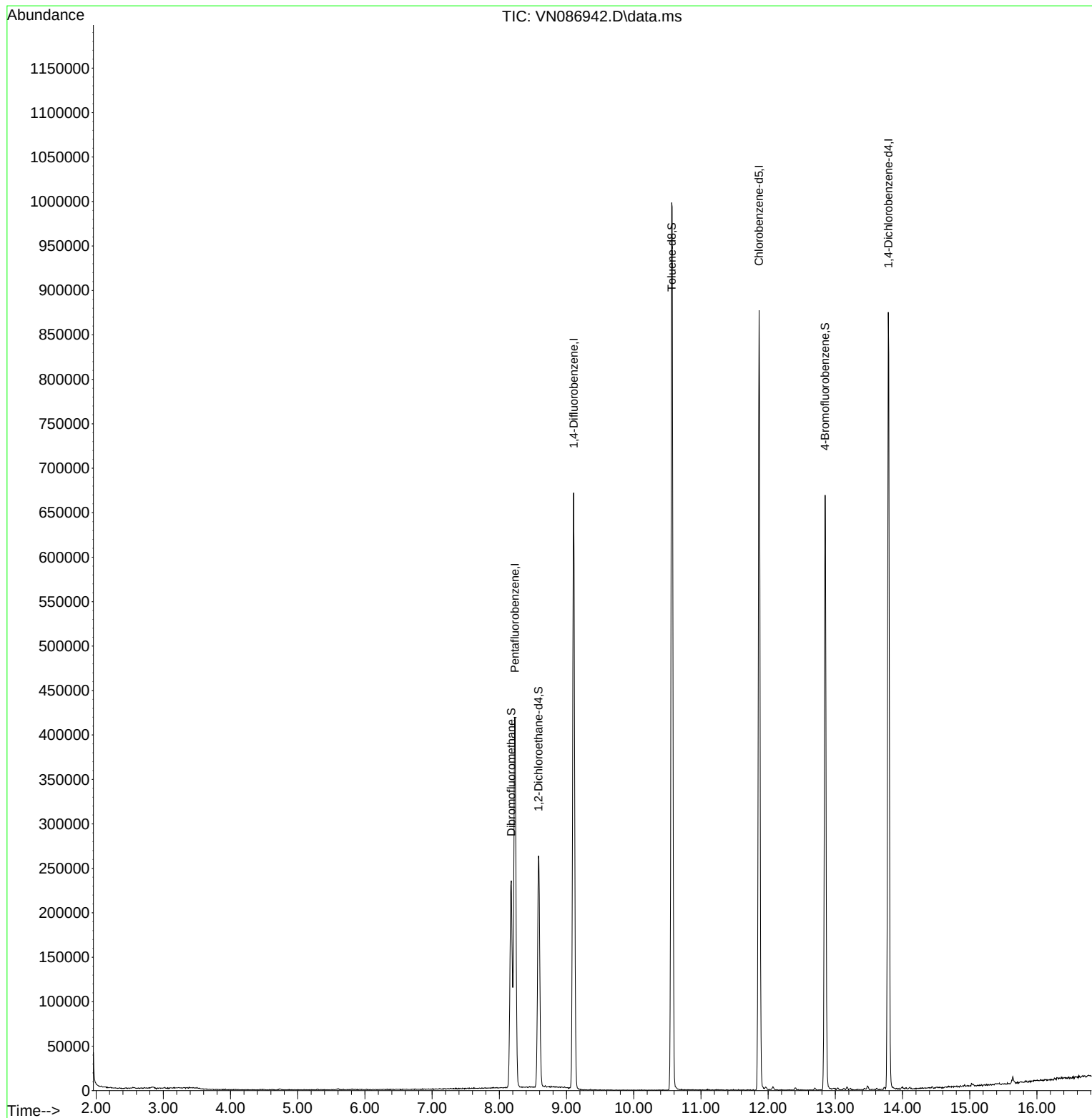
Target Compounds	Qvalue

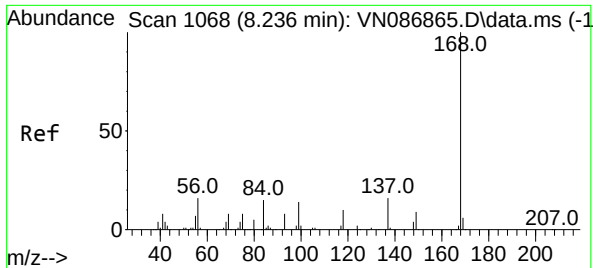
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086942.D
Acq On : 11 Jun 2025 12:28
Operator : JC\MD
Sample : VN0611WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0611WBL01

Quant Time: Jun 12 01:30:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

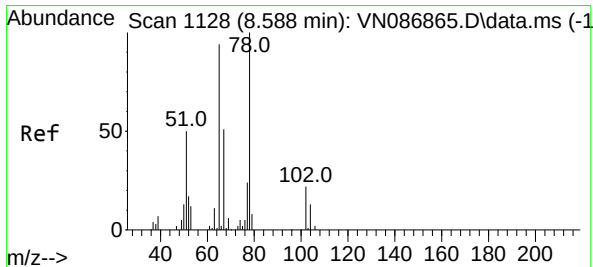
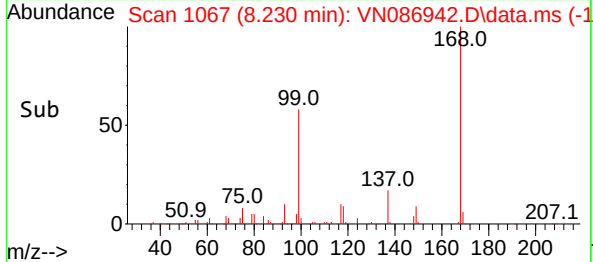
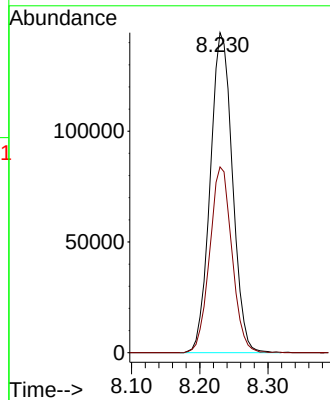
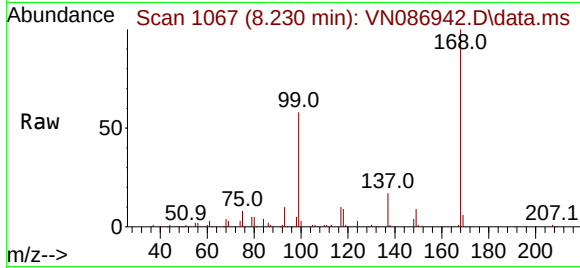




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN086942.D
Acq: 11 Jun 2025 12:28

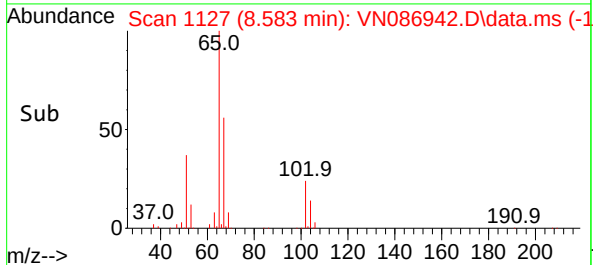
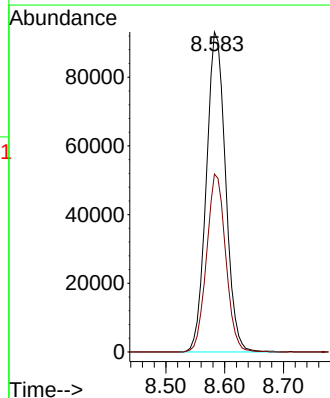
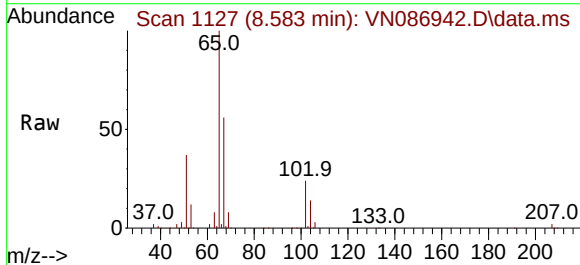
Instrument :
MSVOA_N
ClientSampleId :
VN0611WBL01

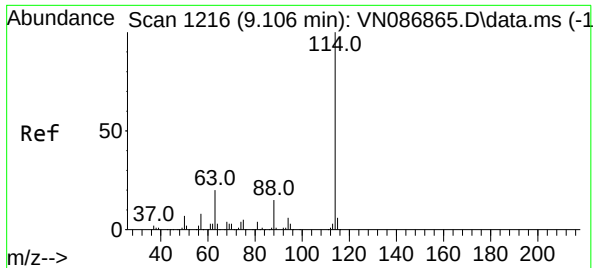
Tgt Ion:168 Resp: 328120
Ion Ratio Lower Upper
168 100
99 58.0 49.1 73.7



#33
1,2-Dichloroethane-d4
Concen: 48.271 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN086942.D
Acq: 11 Jun 2025 12:28

Tgt Ion: 65 Resp: 212062
Ion Ratio Lower Upper
65 100
67 55.4 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086942.D

Acq: 11 Jun 2025 12:28

Instrument :

MSVOA_N

ClientSampleId :

VN0611WBL01

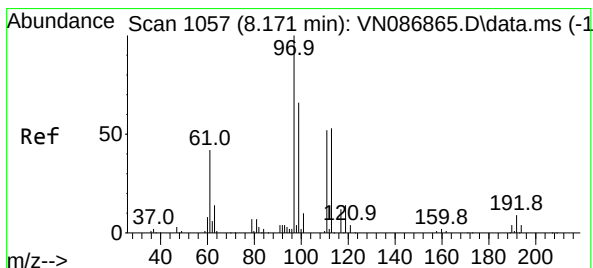
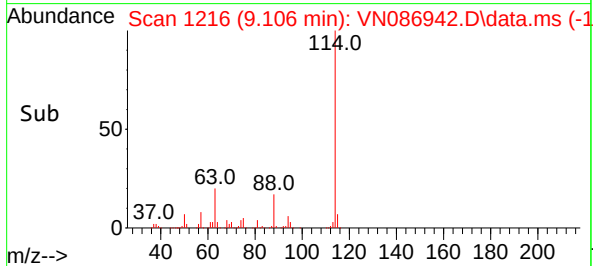
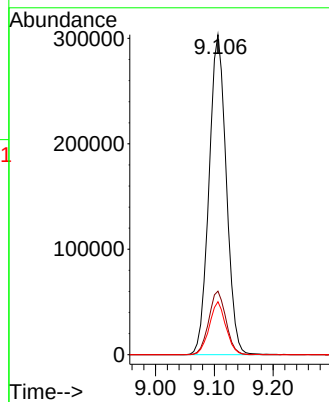
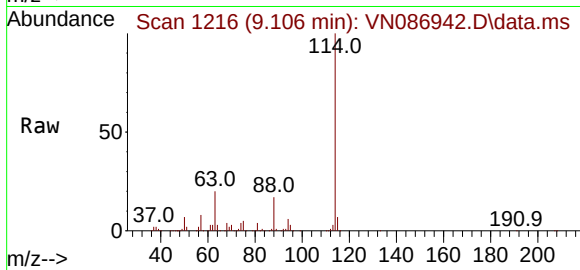
Tgt Ion:114 Resp: 618651

Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.6

88 16.5 0.0 30.2



#35

Dibromofluoromethane

Concen: 49.287 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN086942.D

Acq: 11 Jun 2025 12:28

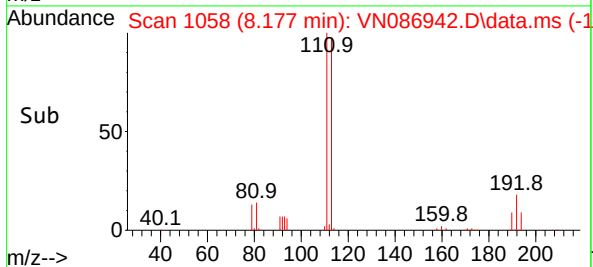
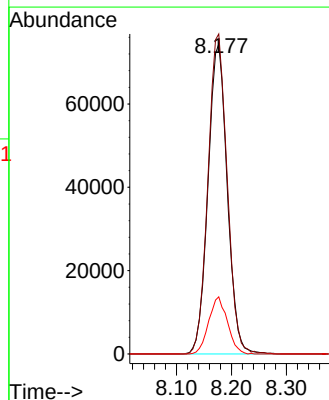
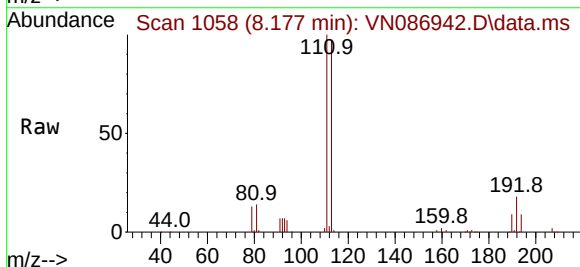
Tgt Ion:113 Resp: 180701

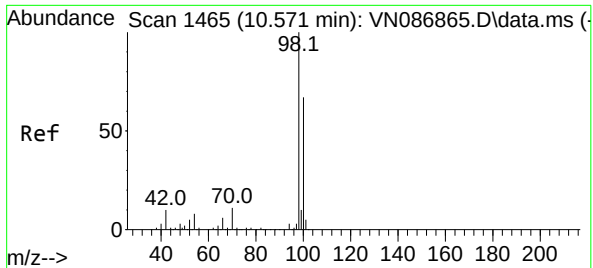
Ion Ratio Lower Upper

113 100

111 103.1 84.2 126.2

192 18.0 14.2 21.4

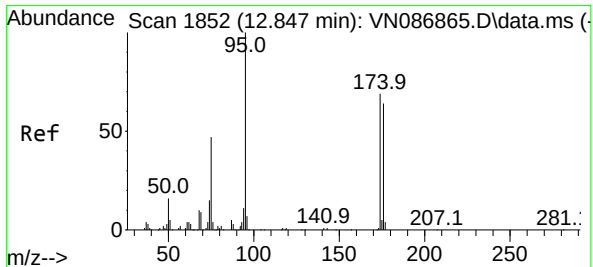
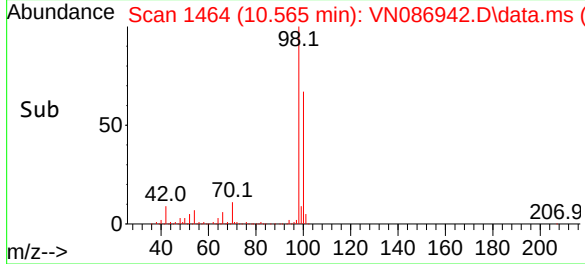
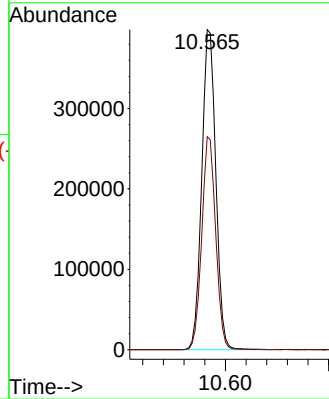
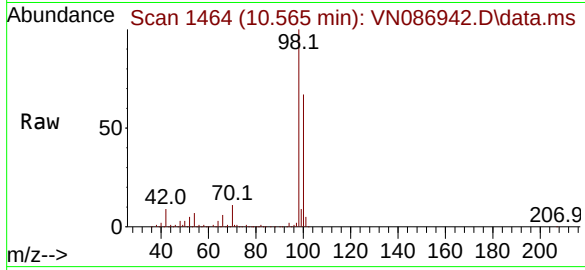




#50
Toluene-d8
Concen: 51.673 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN086942.D
Acq: 11 Jun 2025 12:28

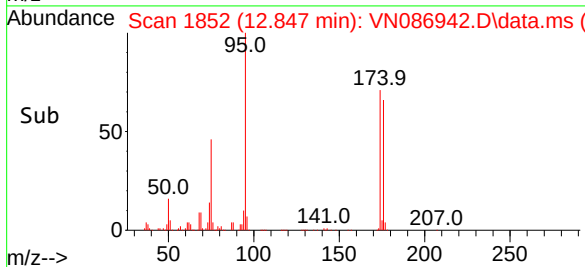
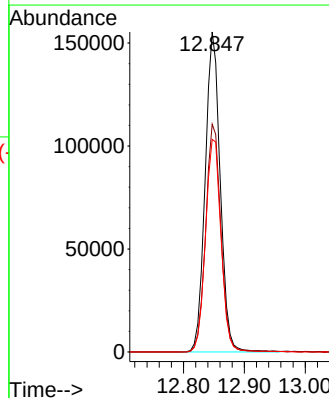
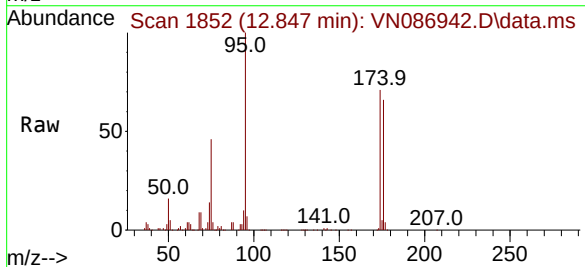
Instrument :
MSVOA_N
ClientSampleId :
VN0611WBL01

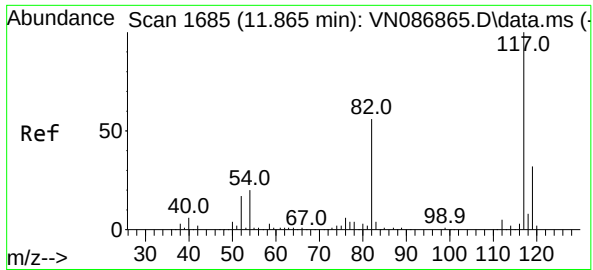
Tgt Ion: 98 Resp: 749967
Ion Ratio Lower Upper
98 100
100 66.0 53.4 80.0



#62
4-Bromofluorobenzene
Concen: 49.431 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086942.D
Acq: 11 Jun 2025 12:28

Tgt Ion: 95 Resp: 266545
Ion Ratio Lower Upper
95 100
174 72.3 0.0 141.8
176 68.8 0.0 132.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086942.D

Acq: 11 Jun 2025 12:28

Instrument :

MSVOA_N

ClientSampleId :

VN0611WBL01

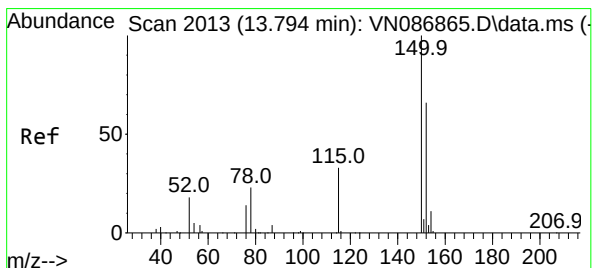
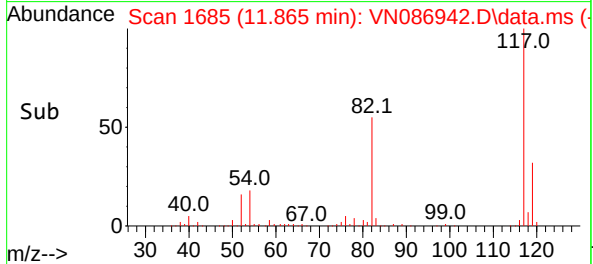
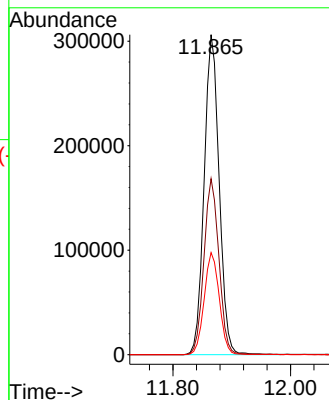
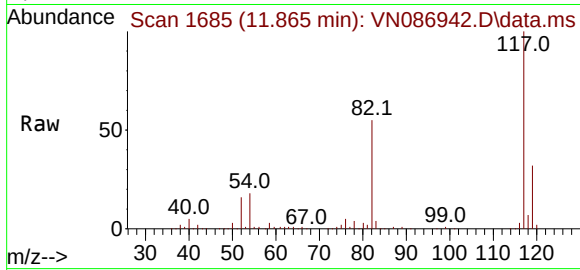
Tgt Ion:117 Resp: 543433

Ion Ratio Lower Upper

117 100

82 55.0 44.6 67.0

119 31.9 25.5 38.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.006 min

Lab File: VN086942.D

Acq: 11 Jun 2025 12:28

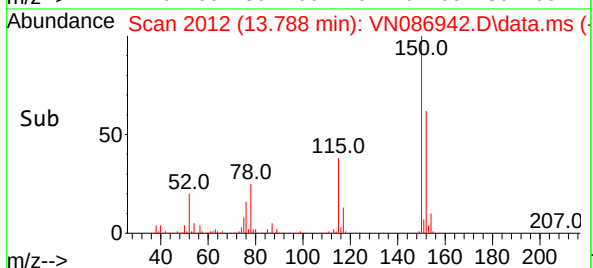
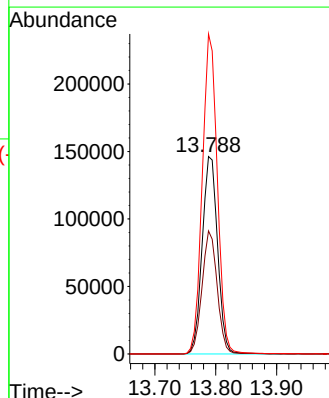
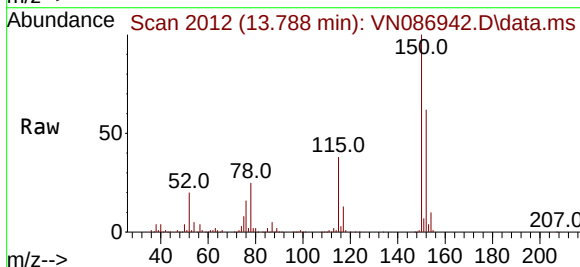
Tgt Ion:152 Resp: 257257

Ion Ratio Lower Upper

152 100

115 61.2 30.1 90.5

150 157.9 0.0 345.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086942.D
Acq On : 11 Jun 2025 12:28
Operator : JC\MD
Sample : VN0611WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0611WBL01

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_N\methods\82N060625W.M

Title : SW846 8260

Signal : TIC: VN086942.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.177	1047	1058	1062	rBV	233085	565978	30.02%	5.919%
2	8.230	1062	1067	1080	rVB	416474	938498	49.77%	9.815%
3	8.583	1118	1127	1138	rBV	260361	595602	31.59%	6.229%
4	9.106	1207	1216	1229	rVB	670915	1364473	72.36%	14.270%
5	10.565	1456	1464	1474	rBV	997779	1885613	100.00%	19.720%
6	11.865	1677	1685	1698	rBV	876609	1557898	82.62%	16.293%
7	12.847	1844	1852	1864	rBV	669132	1151656	61.08%	12.044%
8	13.788	2005	2012	2022	rBV	873448	1502092	79.66%	15.709%

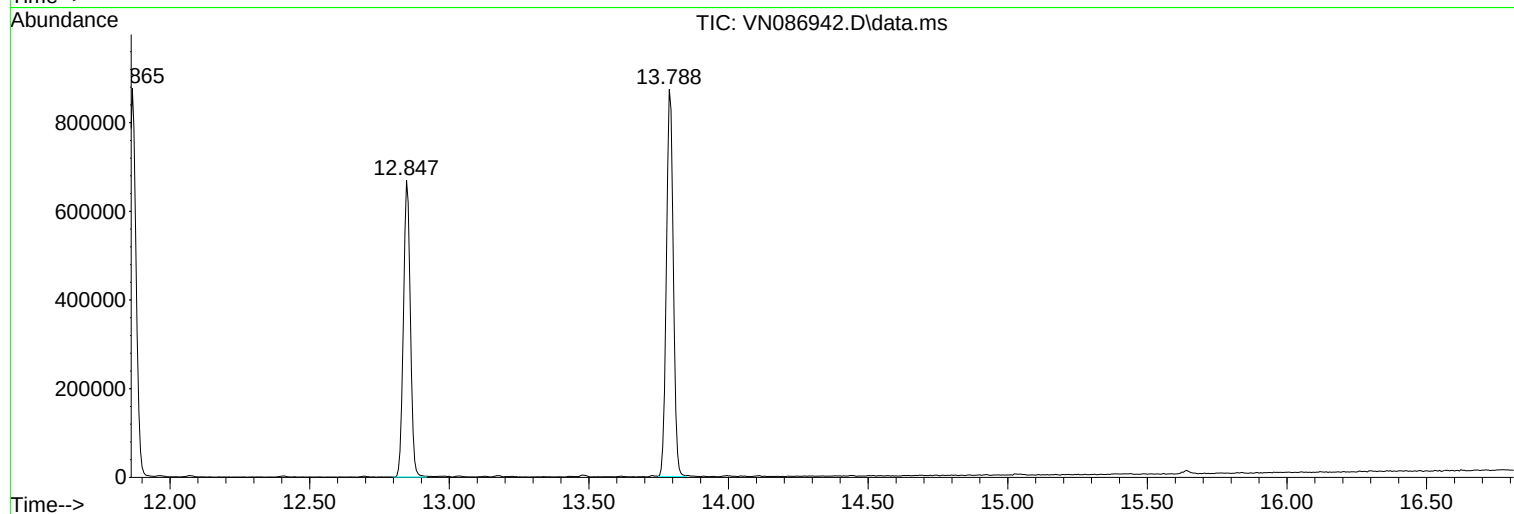
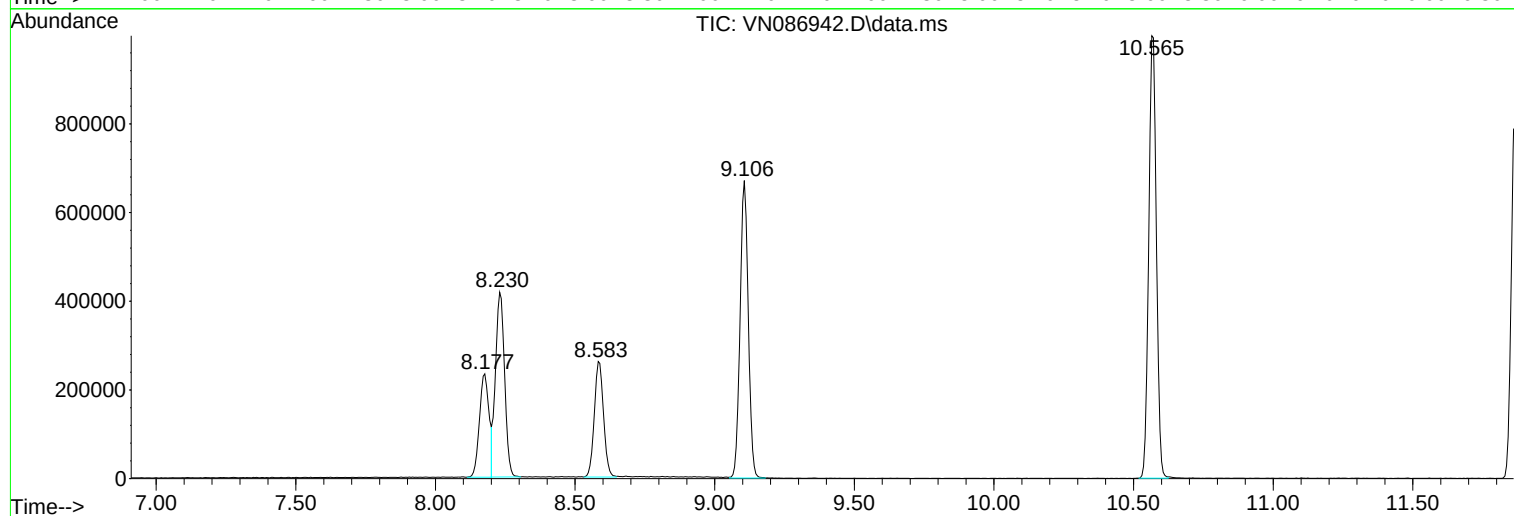
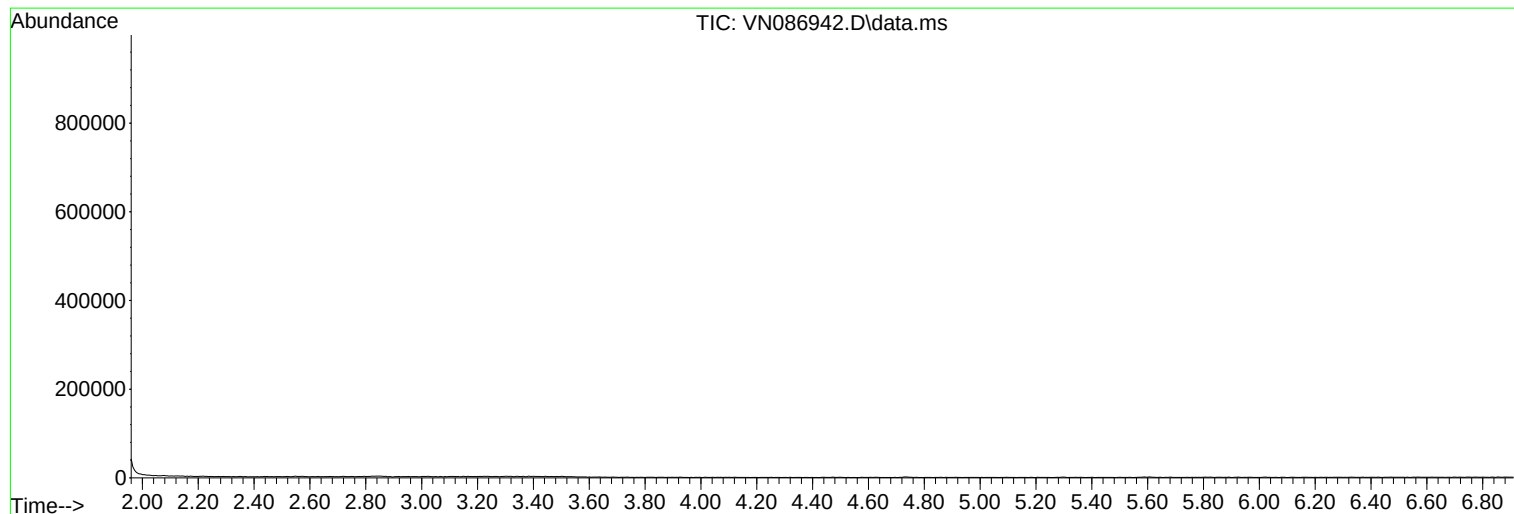
Sum of corrected areas: 9561810

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086942.D
Acq On : 11 Jun 2025 12:28
Operator : JC\MD
Sample : VN0611WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0611WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086942.D
Acq On : 11 Jun 2025 12:28
Operator : JC\MD
Sample : VN0611WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0611WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.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_N\Data\VN061125\
Data File : VN086942.D
Acq On : 11 Jun 2025 12:28
Operator : JC\MD
Sample : VN0611WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0611WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.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:	PARSONS Engineering of New York, Inc.		Date Collected:	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	
Client Sample ID:	VN0611WBS02		SDG No.:	Q2231
Lab Sample ID:	VN0611WBS02		Matrix:	Water
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086944.D	1		06/11/25 13:27	VN061125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.7		0.22	1.00	ug/L
74-87-3	Chloromethane	16.1		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	18.9		0.26	1.00	ug/L
74-83-9	Bromomethane	16.6		1.40	5.00	ug/L
75-00-3	Chloroethane	19.4		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.2		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.6		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.2		0.23	1.00	ug/L
67-64-1	Acetone	99.0		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	17.8		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.6		0.16	1.00	ug/L
79-20-9	Methyl Acetate	19.0		0.27	1.00	ug/L
75-09-2	Methylene Chloride	19.0		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	19.4		0.23	1.00	ug/L
110-82-7	Cyclohexane	17.6		1.50	5.00	ug/L
78-93-3	2-Butanone	90.4		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.2		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.5		0.19	1.00	ug/L
74-97-5	Bromochloromethane	19.9		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	19.0		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	16.9		0.16	1.00	ug/L
71-43-2	Benzene	19.3		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.5		0.22	1.00	ug/L
79-01-6	Trichloroethene	19.9		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.6		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	19.6		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	98.0		0.68	5.00	ug/L
108-88-3	Toluene	19.5		0.14	1.00	ug/L

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	
Client Sample ID:	VN0611WBS02	SDG No.:	Q2231
Lab Sample ID:	VN0611WBS02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086944.D	1		06/11/25 13:27	VN061125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.9		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	20.4		0.21	1.00	ug/L
591-78-6	2-Hexanone	89.2		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	20.5		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.7		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	19.2		0.23	1.00	ug/L
108-90-7	Chlorobenzene	20.0		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	19.6		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	39.6		0.24	2.00	ug/L
95-47-6	o-Xylene	20.2		0.12	1.00	ug/L
100-42-5	Styrene	20.1		0.15	1.00	ug/L
75-25-2	Bromoform	21.0		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	19.3		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.0		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.3		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.4		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.0		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.2		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.4		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.8		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.1		74 - 125	94%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	48.7		86 - 113	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.0		77 - 121	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	207000	8.235			
540-36-3	1,4-Difluorobenzene	371000	9.106			
3114-55-4	Chlorobenzene-d5	321000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	157000	13.788			

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	
Client Sample ID:	VN0611WBS02	SDG No.:	Q2231
Lab Sample ID:	VN0611WBS02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086944.D	1		06/11/25 13:27	VN061125

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_N\Data\VN061125\
 Data File : VN086944.D
 Acq On : 11 Jun 2025 13:27
 Operator : JC\MD
 Sample : VN0611WBS02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0611WBS02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/12/2025
 Supervised By : Semsettin Yesilyurt 06/12/2025

Quant Time: Jun 12 01:31:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.235	168	206799	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	370524	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	321188	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	157403	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	130342	47.075	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.160%		
35) Dibromofluoromethane	8.177	113	112198	51.096	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	102.200%		
50) Toluene-d8	10.571	98	423380	48.706	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	97.420%		
62) 4-Bromofluorobenzene	12.847	95	161321	49.951	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	99.900%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.153	85	40672	19.725	ug/l	100
3) Chloromethane	2.401	50	42812	16.079	ug/l	97
4) Vinyl Chloride	2.553	62	51780	18.852	ug/l	95
5) Bromomethane	3.000	94	25577	16.641	ug/l	90
6) Chloroethane	3.153	64	34500	19.446	ug/l	99
7) Trichlorofluoromethane	3.530	101	68752	19.159	ug/l	99
8) Diethyl Ether	3.983	74	30914	19.772	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.400	101	44117	19.568	ug/l	99
10) Methyl Iodide	4.612	142	36924	12.634	ug/l	100
11) Tert butyl alcohol	5.541	59	69743	92.831	ug/l	99
12) 1,1-Dichloroethene	4.365	96	44269	19.233	ug/l	97
13) Acrolein	4.206	56	22290	93.730	ug/l	98
14) Allyl chloride	5.047	41	68027	17.821	ug/l	97
15) Acrylonitrile	5.741	53	166971	95.084	ug/l	100
16) Acetone	4.447	43	145322	98.972	ug/l	98
17) Carbon Disulfide	4.742	76	113132	17.769	ug/l	100
18) Methyl Acetate	5.047	43	81357	19.013	ug/l	99
19) Methyl tert-butyl Ether	5.812	73	163338	19.599	ug/l	98
20) Methylene Chloride	5.294	84	52196	18.988	ug/l	96
21) trans-1,2-Dichloroethene	5.812	96	47284	18.464	ug/l	95
22) Diisopropyl ether	6.688	45	155508	19.326	ug/l	97
23) Vinyl Acetate	6.618	43	653278	96.092	ug/l	98
24) 1,1-Dichloroethane	6.588	63	89930	19.421	ug/l	100
25) 2-Butanone	7.494	43	215760	90.401	ug/l	96
26) 2,2-Dichloropropane	7.500	77	78031	21.663	ug/l	98
27) cis-1,2-Dichloroethene	7.500	96	59578	19.453	ug/l	99
28) Bromochloromethane	7.824	49	45329	19.909	ug/l	95
29) Tetrahydrofuran	7.853	42	143866	92.532	ug/l	97
30) Chloroform	7.977	83	90272	19.521	ug/l	98
31) Cyclohexane	8.265	56	79050	17.603	ug/l	97
32) 1,1,1-Trichloroethane	8.182	97	74861	19.033	ug/l	97
36) 1,1-Dichloropropene	8.377	75	63577	19.431	ug/l	99
37) Ethyl Acetate	7.571	43	80415	19.306	ug/l	99
38) Carbon Tetrachloride	8.371	117	61747	19.222	ug/l	97
39) Methylcyclohexane	9.606	83	75971	16.947	ug/l	98
40) Benzene	8.612	78	206255	19.277	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
 Data File : VN086944.D
 Acq On : 11 Jun 2025 13:27
 Operator : JC\MD
 Sample : VN0611WBS02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0611WBS02

Manual Integrations
 APPROVED

Reviewed By :John Carlone 06/12/2025
 Supervised By :Semsettin Yesilyurt 06/12/2025

Quant Time: Jun 12 01:31:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.788	41	42617	18.218	ug/l	93
42) 1,2-Dichloroethane	8.677	62	63379	19.530	ug/l	98
43) Isopropyl Acetate	8.694	43	126914	18.984	ug/l	98
44) Trichloroethene	9.359	130	50593	19.942	ug/l	99
45) 1,2-Dichloropropane	9.624	63	51091	19.628	ug/l	95
46) Dibromomethane	9.712	93	34741	20.093	ug/l	99
47) Bromodichloromethane	9.894	83	69845	19.634	ug/l	98
48) Methyl methacrylate	9.682	41	57757	18.771	ug/l	99
49) 1,4-Dioxane	9.706	88	22914	409.347	ug/l #	97
51) 4-Methyl-2-Pentanone	10.447	43	394396	97.997	ug/l	99
52) Toluene	10.629	92	127563	19.509	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	79224	19.917	ug/l	100
54) cis-1,3-Dichloropropene	10.318	75	85586	20.109	ug/l	99
55) 1,1,2-Trichloroethane	11.018	97	51421	20.438	ug/l	94
56) Ethyl methacrylate	10.882	69	80942	20.198	ug/l	94
57) 1,3-Dichloropropane	11.165	76	85602	19.613	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.165	63	243584	101.910	ug/l	99
59) 2-Hexanone	11.206	43	231264	89.210	ug/l	95
60) Dibromochloromethane	11.359	129	53655	20.468	ug/l	99
61) 1,2-Dibromoethane	11.471	107	50832	19.711	ug/l	99
64) Tetrachloroethene	11.106	164	38926	19.150	ug/l	98
65) Chlorobenzene	11.894	112	141721	20.006	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	46404	20.378	ug/l	99
67) Ethyl Benzene	11.965	91	239733	19.647	ug/l	100
68) m/p-Xylenes	12.070	106	185026	39.613	ug/l	99
69) o-Xylene	12.400	106	90240	20.172	ug/l	99
70) Styrene	12.412	104	154149	20.137	ug/l	99
71) Bromoform	12.582	173	35350	20.952	ug/l #	96
73) Isopropylbenzene	12.694	105	221545	19.320	ug/l	99
74) N-amyl acetate	12.529	43	63289	15.794	ug/l #	85
75) 1,1,2,2-Tetrachloroethane	12.941	83	81476	20.973	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	71582m	19.132	ug/l	
77) Bromobenzene	12.982	156	55176	20.981	ug/l	98
78) n-propylbenzene	13.035	91	267384	19.187	ug/l	100
79) 2-Chlorotoluene	13.123	91	164813	19.721	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	181773	19.200	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	30121	18.532	ug/l #	82
82) 4-Chlorotoluene	13.217	91	167991	19.866	ug/l	100
83) tert-Butylbenzene	13.435	119	161593	18.646	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	182431	19.216	ug/l	98
85) sec-Butylbenzene	13.617	105	228907	18.189	ug/l	100
86) p-Isopropyltoluene	13.729	119	192991	18.551	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	104883	20.271	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	107750	20.426	ug/l	99
89) n-Butylbenzene	14.053	91	177482	17.613	ug/l	100
90) Hexachloroethane	14.329	117	33456	18.972	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	99394	19.995	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	17796	19.155	ug/l	98
93) 1,2,4-Trichlorobenzene	15.394	180	58509	18.433	ug/l	98
94) Hexachlorobutadiene	15.500	225	19592	16.567	ug/l	97
95) Naphthalene	15.635	128	232760	19.700	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	56144	17.802	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086944.D
Acq On : 11 Jun 2025 13:27
Operator : JC\MD
Sample : VN0611WBS02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025

Quant Time: Jun 12 01:31:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

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

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

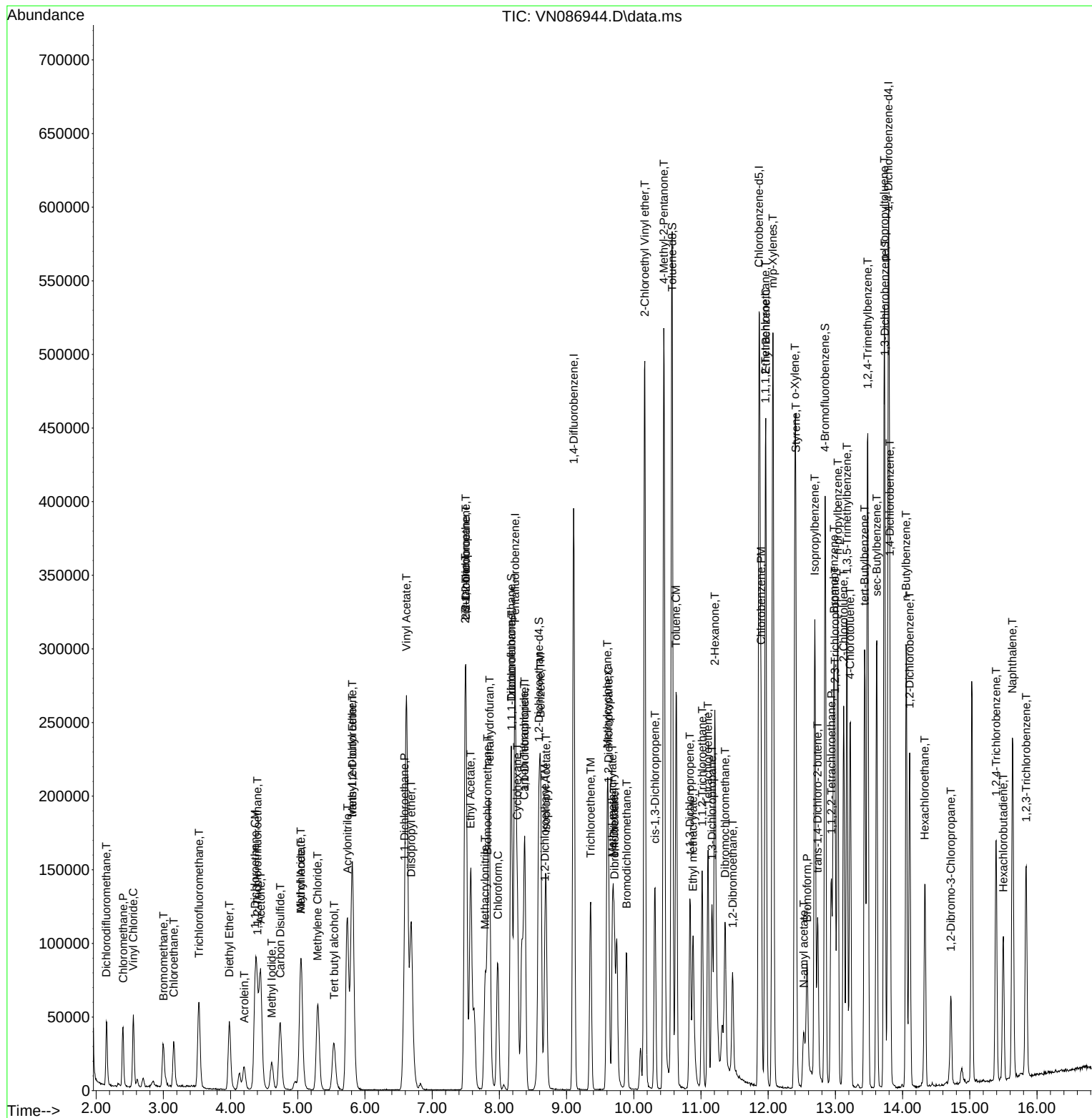

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\  
Data File : VN086944.D  
Acq On    : 11 Jun 2025  13:27  
Operator  : JC\MD  
Sample    : VN0611WBS02  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 6      Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02

Manual Integrations

Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025

Quant Time: Jun 12 01:31:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



Report of Analysis

Client:	PARSONS Engineering of New York, Inc.		Date Collected:	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	
Client Sample ID:	VN0611WBSD02		SDG No.:	Q2231
Lab Sample ID:	VN0611WBSD02		Matrix:	Water
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086945.D	1		06/11/25 14:01	VN061125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.1		0.22	1.00	ug/L
74-87-3	Chloromethane	15.5		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	18.7		0.26	1.00	ug/L
74-83-9	Bromomethane	16.2		1.40	5.00	ug/L
75-00-3	Chloroethane	18.9		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.0		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.7		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.1		0.23	1.00	ug/L
67-64-1	Acetone	92.4		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	17.2		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.2		0.16	1.00	ug/L
79-20-9	Methyl Acetate	20.1		0.27	1.00	ug/L
75-09-2	Methylene Chloride	19.1		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.6		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.3		0.23	1.00	ug/L
110-82-7	Cyclohexane	17.2		1.50	5.00	ug/L
78-93-3	2-Butanone	94.9		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.5		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.6		0.19	1.00	ug/L
74-97-5	Bromochloromethane	21.1		0.22	1.00	ug/L
67-66-3	Chloroform	19.4		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.8		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	16.6		0.16	1.00	ug/L
71-43-2	Benzene	19.7		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.3		0.22	1.00	ug/L
79-01-6	Trichloroethene	20.1		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.0		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	20.7		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.68	5.00	ug/L
108-88-3	Toluene	19.9		0.14	1.00	ug/L

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.		Date Collected:	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	
Client Sample ID:	VN0611WBSD02		SDG No.:	Q2231
Lab Sample ID:	VN0611WBSD02		Matrix:	Water
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086945.D	1		06/11/25 14:01	VN061125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.7		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.7		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.9		0.21	1.00	ug/L
591-78-6	2-Hexanone	93.8		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	21.2		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.7		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	18.5		0.23	1.00	ug/L
108-90-7	Chlorobenzene	20.2		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	19.3		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	39.5		0.24	2.00	ug/L
95-47-6	o-Xylene	20.0		0.12	1.00	ug/L
100-42-5	Styrene	20.6		0.15	1.00	ug/L
75-25-2	Bromoform	22.4		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	19.3		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.7		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.5		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.4		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.6		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.8		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.7		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.1		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.9		74 - 125	96%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		75 - 124	105%	SPK: 50
2037-26-5	Toluene-d8	49.5		86 - 113	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.1		77 - 121	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	200000	8.229			
540-36-3	1,4-Difluorobenzene	354000	9.106			
3114-55-4	Chlorobenzene-d5	311000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	152000	13.788			

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	
Client Sample ID:	VN0611WBSD02	SDG No.:	Q2231
Lab Sample ID:	VN0611WBSD02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086945.D	1		06/11/25 14:01	VN061125

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_N\Data\VN061125\
 Data File : VN086945.D
 Acq On : 11 Jun 2025 14:01
 Operator : JC\MD
 Sample : VN0611WBSD02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0611WBSD02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/12/2025
 Supervised By : Semsettin Yesilyurt 06/12/2025

Quant Time: Jun 12 01:32:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.229	168	199904	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	354069	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	310598	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	151691	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	128166	47.886	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	95.780%		
35) Dibromofluoromethane	8.177	113	109657	52.260	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	104.520%		
50) Toluene-d8	10.571	98	411227	49.506	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.020%		
62) 4-Bromofluorobenzene	12.847	95	154682	50.121	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	100.240%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.153	85	38145	19.138	ug/l	96
3) Chloromethane	2.400	50	39948	15.521	ug/l	99
4) Vinyl Chloride	2.553	62	49695	18.717	ug/l	97
5) Bromomethane	3.000	94	24041	16.181	ug/l	95
6) Chloroethane	3.153	64	32368	18.874	ug/l	100
7) Trichlorofluoromethane	3.530	101	66071	19.047	ug/l	96
8) Diethyl Ether	3.977	74	29872	19.765	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.394	101	40831	18.735	ug/l	97
10) Methyl Iodide	4.612	142	36500	12.919	ug/l	100
11) Tert butyl alcohol	5.541	59	71180	98.012	ug/l	100
12) 1,1-Dichloroethene	4.365	96	42515	19.108	ug/l	92
13) Acrolein	4.200	56	22554	98.112	ug/l	100
14) Allyl chloride	5.053	41	65845	17.844	ug/l	98
15) Acrylonitrile	5.736	53	167429	98.634	ug/l	100
16) Acetone	4.447	43	131189	92.428	ug/l	97
17) Carbon Disulfide	4.736	76	105790	17.189	ug/l	98
18) Methyl Acetate	5.047	43	83025	20.072	ug/l	99
19) Methyl tert-butyl Ether	5.818	73	162549	20.177	ug/l	99
20) Methylene Chloride	5.300	84	50840	19.132	ug/l	96
21) trans-1,2-Dichloroethene	5.806	96	46018	18.589	ug/l	99
22) Diisopropyl ether	6.688	45	152785	19.643	ug/l	98
23) Vinyl Acetate	6.618	43	656574	99.908	ug/l	98
24) 1,1-Dichloroethane	6.588	63	86331	19.287	ug/l	99
25) 2-Butanone	7.494	43	218999	94.923	ug/l	99
26) 2,2-Dichloropropane	7.506	77	74316	21.343	ug/l	98
27) cis-1,2-Dichloroethene	7.500	96	57947	19.573	ug/l	97
28) Bromochloromethane	7.824	49	46411	21.088	ug/l	97
29) Tetrahydrofuran	7.853	42	145366	96.721	ug/l	98
30) Chloroform	7.977	83	86604	19.374	ug/l	100
31) Cyclohexane	8.265	56	74510	17.164	ug/l	98
32) 1,1,1-Trichloroethane	8.177	97	71441	18.790	ug/l	98
36) 1,1-Dichloropropene	8.382	75	60912	19.481	ug/l	99
37) Ethyl Acetate	7.571	43	80010	20.102	ug/l	99
38) Carbon Tetrachloride	8.371	117	59839	19.494	ug/l	96
39) Methylcyclohexane	9.606	83	71058	16.588	ug/l	97
40) Benzene	8.612	78	200940	19.653	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
 Data File : VN086945.D
 Acq On : 11 Jun 2025 14:01
 Operator : JC\MD
 Sample : VN0611WBSD02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0611WBSD02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/12/2025
 Supervised By : Semsettin Yesilyurt 06/12/2025

Quant Time: Jun 12 01:32:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.788	41	46047	20.600	ug/l	98
42) 1,2-Dichloroethane	8.677	62	63066	20.336	ug/l	100
43) Isopropyl Acetate	8.694	43	127320	19.930	ug/l	99
44) Trichloroethene	9.359	130	48830	20.141	ug/l	97
45) 1,2-Dichloropropane	9.624	63	49815	20.027	ug/l	95
46) Dibromomethane	9.712	93	35176	21.290	ug/l	99
47) Bromodichloromethane	9.894	83	70222	20.658	ug/l	99
48) Methyl methacrylate	9.688	41	56099	19.079	ug/l	95
49) 1,4-Dioxane	9.700	88	24300	454.282	ug/l #	93
51) 4-Methyl-2-Pentanone	10.447	43	399735	103.940	ug/l	99
52) Toluene	10.629	92	124298	19.893	ug/l	100
53) t-1,3-Dichloropropene	10.841	75	78850	20.744	ug/l	100
54) cis-1,3-Dichloropropene	10.318	75	84225	20.709	ug/l	97
55) 1,1,2-Trichloroethane	11.018	97	50307	20.924	ug/l	97
56) Ethyl methacrylate	10.882	69	79449	20.747	ug/l	97
57) 1,3-Dichloropropane	11.165	76	85222	20.434	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.165	63	241856	105.889	ug/l	99
59) 2-Hexanone	11.206	43	232463	93.840	ug/l	95
60) Dibromochloromethane	11.359	129	53154	21.220	ug/l	100
61) 1,2-Dibromoethane	11.470	107	51056	20.718	ug/l	99
64) Tetrachloroethene	11.106	164	36363	18.499	ug/l	98
65) Chlorobenzene	11.894	112	138224	20.178	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.965	131	45014	20.442	ug/l	99
67) Ethyl Benzene	11.965	91	227138	19.250	ug/l	100
68) m/p-Xylenes	12.070	106	178421	39.501	ug/l	98
69) o-Xylene	12.400	106	86537	20.004	ug/l	100
70) Styrene	12.412	104	152236	20.565	ug/l	98
71) Bromoform	12.582	173	36528	22.388	ug/l #	98
73) Isopropylbenzene	12.694	105	213019	19.276	ug/l	100
74) N-amyl acetate	12.529	43	69705	18.051	ug/l #	88
75) 1,1,2,2-Tetrachloroethane	12.935	83	81389	21.740	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	71147m	19.732	ug/l	
77) Bromobenzene	12.976	156	54030	21.319	ug/l	98
78) n-propylbenzene	13.035	91	257426	19.168	ug/l	99
79) 2-Chlorotoluene	13.123	91	157627	19.571	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	175428	19.228	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	29703	18.963	ug/l	95
82) 4-Chlorotoluene	13.223	91	162421	19.931	ug/l	100
83) tert-Butylbenzene	13.435	119	156588	18.749	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	177241	19.373	ug/l	99
85) sec-Butylbenzene	13.611	105	219639	18.109	ug/l	99
86) p-Isopropyltoluene	13.729	119	182853	18.238	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	102302	20.517	ug/l	100
88) 1,4-Dichlorobenzene	13.811	146	103614	20.382	ug/l	98
89) n-Butylbenzene	14.053	91	171576	17.668	ug/l	99
90) Hexachloroethane	14.329	117	31966	18.810	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	98864	20.638	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.723	75	18610	20.786	ug/l	99
93) 1,2,4-Trichlorobenzene	15.388	180	57083	18.660	ug/l	99
94) Hexachlorobutadiene	15.500	225	17672	15.506	ug/l	98
95) Naphthalene	15.635	128	230927	20.281	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	55026	18.105	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086945.D
Acq On : 11 Jun 2025 14:01
Operator : JC\MD
Sample : VN0611WBSD02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0611WBSD02

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025

Quant Time: Jun 12 01:32:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

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

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

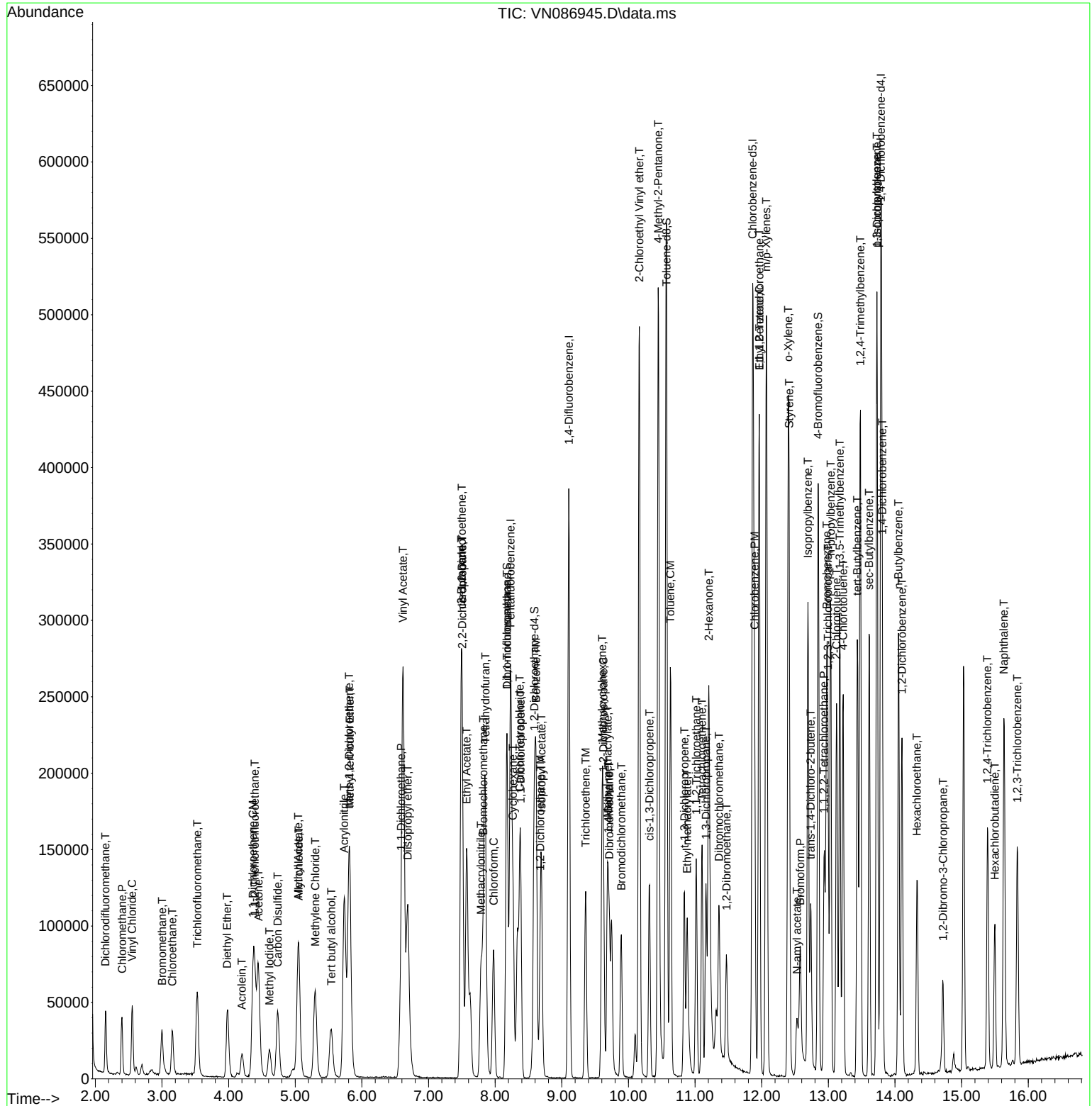
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
 Data File : VN086945.D
 Acq On : 11 Jun 2025 14:01
 Operator : JC\MD
 Sample : VN0611WBSD02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0611WBSD02

Manual Integrations APPROVED

Reviewed By : John Carlone 06/12/2025
 Supervised By : Semsettin Yesilyurt 06/12/2025

Quant Time: Jun 12 01:32:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration



Manual Integration Report

Sequence:	vn060625	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VN086862.D	1,1,2-Trichlorotrifluoroethane	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC001	VN086862.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC001	VN086862.D	1,4-Dichlorobenzene	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC001	VN086862.D	2-Hexanone	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC001	VN086862.D	N-amyl acetate	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC005	VN086863.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:13 AM	MMDadoda	6/9/2025 1:13:19 PM	Peak Integrated by Software
VSTDICC005	VN086863.D	N-amyl acetate	JOHN	6/9/2025 8:02:13 AM	MMDadoda	6/9/2025 1:13:19 PM	Peak Integrated by Software
VSTDICC020	VN086864.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:19 AM	MMDadoda	6/9/2025 1:13:21 PM	Peak Integrated by Software
VSTDICCC050	VN086865.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:25 AM	MMDadoda	6/9/2025 1:13:23 PM	Peak Integrated by Software
VSTDICC100	VN086866.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:29 AM	MMDadoda	6/9/2025 1:13:28 PM	Peak Integrated by Software
VSTDICC150	VN086867.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:34 AM	MMDadoda	6/9/2025 1:13:30 PM	Peak Integrated by Software
VSTDICV050	VN086869.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:38 AM	MMDadoda	6/9/2025 1:13:34 PM	Peak Integrated by Software
VSTDCCC050	VN086886.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:55 AM	MMDadoda	6/9/2025 1:13:44 PM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

vn060625

Instrument

MSVOA_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	vn061125	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN086940.D	1,2,3-Trichloropropane	JOHN	6/12/2025 9:47:09 AM	Sam	6/12/2025 3:54:50 PM	Peak Integrated by Software
VN0611WBS02	VN086944.D	1,2,3-Trichloropropane	JOHN	6/12/2025 9:47:21 AM	Sam	6/12/2025 3:54:50 PM	Peak Integrated by Software
VN0611WBSD02	VN086945.D	1,2,3-Trichloropropane	JOHN	6/12/2025 9:47:26 AM	Sam	6/12/2025 3:54:52 PM	Peak Integrated by Software
Q2231-02	VN086954.D	n-Butylbenzene	JOHN	6/12/2025 9:47:38 AM	Sam	6/12/2025 3:54:55 PM	Peak Integrated by Software
Q2231-02	VN086954.D	p-Isopropyltoluene	JOHN	6/12/2025 9:47:38 AM	Sam	6/12/2025 3:54:55 PM	Peak Integrated by Software
VSTDCCC050	VN086965.D	1,2,3-Trichloropropane	JOHN	6/12/2025 9:53:57 AM	Sam	6/12/2025 3:54:56 PM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN060625

Review By	John Carlone	Review On	6/9/2025 8:08:23 AM
Supervise By	Maresh Dadoda	Supervise On	6/9/2025 1:13:51 PM
SubDirectory	VN060625	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134155		
Initial Calibration Stds	VP134242,VP134243,VP134244,VP134245,VP134246,VP134247		
CCC	VP134156		
Internal Standard/PEM			
ICV/I.BLK	VP134248		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN086861.D	06 Jun 2025 07:59	JC\MD	Ok
2	VSTDIC001	VN086862.D	06 Jun 2025 12:44	JC\MD	Ok,M
3	VSTDIC005	VN086863.D	06 Jun 2025 13:17	JC\MD	Ok,M
4	VSTDIC020	VN086864.D	06 Jun 2025 13:40	JC\MD	Ok,M
5	VSTDIC050	VN086865.D	06 Jun 2025 14:03	JC\MD	Ok,M
6	VSTDIC100	VN086866.D	06 Jun 2025 14:26	JC\MD	Ok,M
7	VSTDIC150	VN086867.D	06 Jun 2025 14:49	JC\MD	Ok,M
8	IBLK	VN086868.D	06 Jun 2025 15:12	JC\MD	Ok
9	VSTDICV050	VN086869.D	06 Jun 2025 15:54	JC\MD	Ok,M
10	VN0606WBL01	VN086870.D	06 Jun 2025 16:47	JC\MD	Ok
11	VN0606WBL02	VN086871.D	06 Jun 2025 17:10	JC\MD	Ok
12	VN0606WBS01	VN086872.D	06 Jun 2025 17:33	JC\MD	Ok,M
13	VN0606WBSD01	VN086873.D	06 Jun 2025 17:56	JC\MD	Ok,M
14	Q2254-01	VN086874.D	06 Jun 2025 18:19	JC\MD	Not Ok
15	Q2237-02	VN086875.D	06 Jun 2025 18:42	JC\MD	Ok
16	Q2216-02	VN086876.D	06 Jun 2025 19:05	JC\MD	Ok
17	Q2216-03	VN086877.D	06 Jun 2025 19:28	JC\MD	Ok
18	Q2216-04	VN086878.D	06 Jun 2025 19:51	JC\MD	Ok
19	Q2216-05	VN086879.D	06 Jun 2025 20:13	JC\MD	Not Ok
20	Q2216-06	VN086880.D	06 Jun 2025 20:36	JC\MD	Not Ok
21	Q2206-04	VN086881.D	06 Jun 2025 20:59	JC\MD	Not Ok

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QCBatch ID # VN060625

Review By	John Carlone	Review On	6/9/2025 8:08:23 AM
Supervise By	Maresh Dadoda	Supervise On	6/9/2025 1:13:51 PM
SubDirectory	VN060625	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134155		
Initial Calibration Stds	VP134242,VP134243,VP134244,VP134245,VP134246,VP134247		
CCC	VP134156		
Internal Standard/PEM			
ICV/I.BLK	VP134248		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q2242-04	VN086882.D	06 Jun 2025 21:21	JC\MD	Not Ok
23	Q2192-01	VN086883.D	06 Jun 2025 21:44	JC\MD	Not Ok
24	Q2198-02	VN086884.D	06 Jun 2025 22:07	JC\MD	Not Ok
25	Q2198-04	VN086885.D	06 Jun 2025 22:29	JC\MD	Not Ok
26	VSTDCCC050	VN086886.D	06 Jun 2025 22:52	JC\MD	Not Ok

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN061125

Review By	John Carlone	Review On	6/12/2025 9:57:37 AM
Supervise By	Semsettin Yesilyurt	Supervise On	6/12/2025 3:55:33 PM
SubDirectory	VN061125	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134284		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134285,VP134286		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN086939.D	11 Jun 2025 10:22	JC\MD	Ok
2	VSTDCCC050	VN086940.D	11 Jun 2025 11:32	JC\MD	Ok,M
3	VN0611MBL01	VN086941.D	11 Jun 2025 12:06	JC\MD	Ok
4	VN0611WBL01	VN086942.D	11 Jun 2025 12:28	JC\MD	Ok
5	VN0611WBS01	VN086943.D	11 Jun 2025 12:50	JC\MD	Not Ok
6	VN0611WBS02	VN086944.D	11 Jun 2025 13:27	JC\MD	Ok,M
7	VN0611WBSD02	VN086945.D	11 Jun 2025 14:01	JC\MD	Ok,M
8	Q2251-06	VN086946.D	11 Jun 2025 14:22	JC\MD	Ok
9	Q2202-03DL	VN086947.D	11 Jun 2025 14:44	JC\MD	Ok,M
10	Q2250-01DL	VN086948.D	11 Jun 2025 15:06	JC\MD	Ok
11	Q2202-06	VN086949.D	11 Jun 2025 15:28	JC\MD	Ok
12	Q2189-01	VN086950.D	11 Jun 2025 15:50	JC\MD	Ok
13	Q2202-05	VN086951.D	11 Jun 2025 16:12	JC\MD	Ok
14	Q2202-04	VN086952.D	11 Jun 2025 16:35	JC\MD	Ok
15	Q2231-01	VN086953.D	11 Jun 2025 16:57	JC\MD	Ok
16	Q2231-02	VN086954.D	11 Jun 2025 17:19	JC\MD	Ok,M
17	Q2231-03	VN086955.D	11 Jun 2025 17:41	JC\MD	Ok
18	Q2231-04	VN086956.D	11 Jun 2025 18:04	JC\MD	Ok
19	Q2231-05	VN086957.D	11 Jun 2025 18:26	JC\MD	Ok
20	Q2231-06	VN086958.D	11 Jun 2025 18:48	JC\MD	Ok
21	Q2210-01	VN086959.D	11 Jun 2025 19:10	JC\MD	Ok

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN061125

Review By	John Carlone	Review On	6/12/2025 9:57:37 AM
Supervise By	Semsettin Yesilyurt	Supervise On	6/12/2025 3:55:33 PM
SubDirectory	VN061125	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134284		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134285,VP134286		

22	Q2209-01	VN086960.D	11 Jun 2025 19:33	JC\MD	Ok
23	IBLK	VN086961.D	11 Jun 2025 19:55	JC\MD	Ok
24	IBLK	VN086962.D	11 Jun 2025 20:17	JC\MD	Ok
25	Q2263-01	VN086963.D	11 Jun 2025 20:39	JC\MD	Ok
26	Q2263-02	VN086964.D	11 Jun 2025 21:01	JC\MD	Ok
27	VSTDCCC050	VN086965.D	11 Jun 2025 21:23	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN060625

Review By	John Carlone	Review On	6/9/2025 8:08:23 AM
Supervise By	Maresh Dadoda	Supervise On	6/9/2025 1:13:51 PM
SubDirectory	VN060625	HP Acquire Method	HP Processing Method 82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134155
Initial Calibration Stds	VP134242,VP134243,VP134244,VP134245,VP134246,VP134247
CCC	VP134156
Internal Standard/PEM	
ICV/I.BLK	VP134248
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN086861.D	06 Jun 2025 07:59		JC\MD	Ok
2	VSTDICC001	VSTDICC001	VN086862.D	06 Jun 2025 12:44	Method failed for com.#13	JC\MD	Ok,M
3	VSTDICC005	VSTDICC005	VN086863.D	06 Jun 2025 13:17		JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN086864.D	06 Jun 2025 13:40		JC\MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VN086865.D	06 Jun 2025 14:03		JC\MD	Ok,M
6	VSTDICC100	VSTDICC100	VN086866.D	06 Jun 2025 14:26		JC\MD	Ok,M
7	VSTDICC150	VSTDICC150	VN086867.D	06 Jun 2025 14:49		JC\MD	Ok,M
8	IBLK	IBLK	VN086868.D	06 Jun 2025 15:12		JC\MD	Ok
9	VSTDICV050	ICVVN060625	VN086869.D	06 Jun 2025 15:54		JC\MD	Ok,M
10	VN0606WBL01	VN0606WBL01	VN086870.D	06 Jun 2025 16:47		JC\MD	Ok
11	VN0606WBL02	VN0606WBL02	VN086871.D	06 Jun 2025 17:10		JC\MD	Ok
12	VN0606WBS01	VN0606WBS01	VN086872.D	06 Jun 2025 17:33		JC\MD	Ok,M
13	VN0606WBSD01	VN0606WBSD01	VN086873.D	06 Jun 2025 17:56		JC\MD	Ok,M
14	Q2254-01	BP-VPB-182-GW-810-8	VN086874.D	06 Jun 2025 18:19	vial A pH<2 endccc out of tune	JC\MD	Not Ok
15	Q2237-02	TW-WTS-10	VN086875.D	06 Jun 2025 18:42	vial A pH<2	JC\MD	Ok
16	Q2216-02	3887	VN086876.D	06 Jun 2025 19:05	vial A pH<2	JC\MD	Ok
17	Q2216-03	3888	VN086877.D	06 Jun 2025 19:28	vial A pH<2	JC\MD	Ok
18	Q2216-04	3864	VN086878.D	06 Jun 2025 19:51	vial A pH<2	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN060625

Review By	John Carlone	Review On	6/9/2025 8:08:23 AM
Supervise By	Maresh Dadoda	Supervise On	6/9/2025 1:13:51 PM
SubDirectory	VN060625	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134155 VP134242,VP134243,VP134244,VP134245,VP134246,VP134247		
CCC Internal Standard/PEM	VP134156		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134248		

19	Q2216-05	3865	VN086879.D	06 Jun 2025 20:13	vial A pH<2 Out of Tune	JC\MD	Not Ok
20	Q2216-06	3851	VN086880.D	06 Jun 2025 20:36	vial A pH<2 Out of Tune	JC\MD	Not Ok
21	Q2206-04	TP-1	VN086881.D	06 Jun 2025 20:59	vial A pH<2 Out of Tune	JC\MD	Not Ok
22	Q2242-04	TP09-MHJ	VN086882.D	06 Jun 2025 21:21	vial A pH<2 Out of Tune	JC\MD	Not Ok
23	Q2192-01	SB-1	VN086883.D	06 Jun 2025 21:44	vial A pH<2 Out of Tune	JC\MD	Not Ok
24	Q2198-02	B-202-SB02	VN086884.D	06 Jun 2025 22:07	vial A pH<2 Out of Tune	JC\MD	Not Ok
25	Q2198-04	B-207-SB02	VN086885.D	06 Jun 2025 22:29	vial A pH<2 Out of Tune	JC\MD	Not Ok
26	VSTDCCC050	VSTDCCC050EC	VN086886.D	06 Jun 2025 22:52	Out of Tune	JC\MD	Not Ok

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN061125

Review By	John Carlone	Review On	6/12/2025 9:57:37 AM
Supervise By	Semsettin Yesilyurt	Supervise On	6/12/2025 3:55:33 PM
SubDirectory	VN061125	HP Acquire Method	HP Processing Method 82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP134284
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134285,VP134286

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN086939.D	11 Jun 2025 10:22		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN086940.D	11 Jun 2025 11:32	pH#Lot#V12668	JC\MD	Ok,M
3	VN0611MBL01	VN0611MBL01	VN086941.D	11 Jun 2025 12:06		JC\MD	Ok
4	VN0611WBL01	VN0611WBL01	VN086942.D	11 Jun 2025 12:28		JC\MD	Ok
5	VN0611WBS01	VN0611WBS01	VN086943.D	11 Jun 2025 12:50	Recovery fail	JC\MD	Not Ok
6	VN0611WBS02	VN0611WBS02	VN086944.D	11 Jun 2025 13:27		JC\MD	Ok,M
7	VN0611WBSD02	VN0611WBSD02	VN086945.D	11 Jun 2025 14:01		JC\MD	Ok,M
8	Q2251-06	VPB182-HYD-2025060	VN086946.D	11 Jun 2025 14:22	vial A pH<2	JC\MD	Ok
9	Q2202-03DL	MW-12-20250603DL	VN086947.D	11 Jun 2025 14:44	vial B pH<2	JC\MD	Ok,M
10	Q2250-01DL	MW-11A-13.5-060525D	VN086948.D	11 Jun 2025 15:06	vial B pH<2	JC\MD	Ok
11	Q2202-06	TB-20250603	VN086949.D	11 Jun 2025 15:28	vial A pH<2 TB	JC\MD	Ok
12	Q2189-01	MW-7-20250602	VN086950.D	11 Jun 2025 15:50	vial B pH<2	JC\MD	Ok
13	Q2202-05	MW-1A-20250603	VN086951.D	11 Jun 2025 16:12	vial A pH<2	JC\MD	Ok
14	Q2202-04	MW-130-20250603	VN086952.D	11 Jun 2025 16:35	vial A pH<2	JC\MD	Ok
15	Q2231-01	MW-10D-20250604	VN086953.D	11 Jun 2025 16:57	vial A pH<2	JC\MD	Ok
16	Q2231-02	MW-14-20250604	VN086954.D	11 Jun 2025 17:19	vial A pH<2	JC\MD	Ok,M
17	Q2231-03	MW-15-20250604	VN086955.D	11 Jun 2025 17:41	vial A pH<2	JC\MD	Ok
18	Q2231-04	MW-16D-20250604	VN086956.D	11 Jun 2025 18:04	vial A pH<2	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN061125

Review By	John Carlone	Review On	6/12/2025 9:57:37 AM
Supervise By	Semsettin Yesilyurt	Supervise On	6/12/2025 3:55:33 PM
SubDirectory	VN061125	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134284		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134285,VP134286		

19	Q2231-05	MW-17-20250604	VN086957.D	11 Jun 2025 18:26	vial A pH<2	JC\MD	Ok
20	Q2231-06	TB-20250604	VN086958.D	11 Jun 2025 18:48	vial A pH<2 TB	JC\MD	Ok
21	Q2210-01	TW1	VN086959.D	11 Jun 2025 19:10	vial A pH<2	JC\MD	Ok
22	Q2209-01	P01W	VN086960.D	11 Jun 2025 19:33	vial A pH<2	JC\MD	Ok
23	IBLK	IBLK	VN086961.D	11 Jun 2025 19:55		JC\MD	Ok
24	IBLK	IBLK	VN086962.D	11 Jun 2025 20:17		JC\MD	Ok
25	Q2263-01	RW9-MW01D3-202506	VN086963.D	11 Jun 2025 20:39	vial A pH<2	JC\MD	Ok
26	Q2263-02	RW9-MW01D3-202506	VN086964.D	11 Jun 2025 21:01	vial A pH<2	JC\MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VN086965.D	11 Jun 2025 21:23		JC\MD	Ok,M

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : Q2231

Test : VOCMS Group1

Prepbatch ID :

Sequence ID/Qc Batch ID: vn061125,

Standard ID :

VP133174,VP133887,VP133935,VP133953,VP133991,VP134142,VP134149,VP134284,VP134285,VP134286,

Chemical ID :

V13391,V13706,V14290,V14432,V14435,V14503,V14504,V14525,V14526,V14613,V14620,V14626,V14636,V14637,V14638,V14639,V14668,V14671,V14673,V14675,V14711,V14717,V14718,V14721,V14749,V14750,V14811,V14812,V14843,V14921,V14929,V14944,V14945,V14946,V14947,W3112,

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
617	8260 Surrogate, 400PPM	VP133174	02/27/2025	08/27/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								03/04/2025

FROM 0.40000ml of V13706 + 24.60000ml of V14613 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
257	8260 Calibration Working STD Mix-First source, 160PPM	VP133887	05/12/2025	06/23/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								05/14/2025

FROM 0.40000ml of V14843 + 1.00000ml of V14432 + 1.00000ml of V14435 + 1.00000ml of V14503 + 1.00000ml of V14504 + 1.00000ml of V14525 + 1.00000ml of V14526 + 1.00000ml of V14711 + 1.00000ml of V14717 + 1.00000ml of V14718 + 1.00000ml of V14721 + 1.00000ml of V14749 + 1.00000ml of V14750 + 1.00000ml of V14811 + 1.00000ml of V14812 + 10.60000ml of V14921 = Final Quantity: 25.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
247	8260 Internal Standard, 250PPM	VP133935	05/16/2025	11/12/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								05/21/2025

FROM 0.25000ml of V14290 + 24.75000ml of V14921 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
218	BFB, 25PPM	VP133953	05/19/2025	11/09/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								05/21/2025

FROM 0.25000ml of V13391 + 24.75000ml of V14626 = Final Quantity: 25.000 ml



VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
51	8260 Working STD (Acrolein) -first source, 800PPM	VP133991	05/22/2025	06/19/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/24/2025

FROM 1.00000ml of V14944 + 1.00000ml of V14945 + 1.00000ml of V14946 + 1.00000ml of V14947 + 21.00000ml of V14620 = Final
Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
719	8260 Working STD (BCM)-First source, 400PPM	VP134142	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 1.00000ml of V14668 + 1.00000ml of V14671 + 1.00000ml of V14673 + 1.00000ml of V14675 + 16.00000ml of V14929 = Final
Quantity: 20.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1810	8260 Working Std(2-CVE)-800ppm	VP134149	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/10/2025

FROM 1.00000ml of V14636 + 1.00000ml of V14637 + 1.00000ml of V14638 + 1.00000ml of V14639 + 46.00000ml of V14929 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
589	BFB TUNE CHECK	VP134284	06/11/2025	06/12/2025	John Carlone	None	None	Maresh Dadoda
								06/12/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP133953 = Final Quantity: 40.000 ml

[illegible]

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
620	50 PPB CCC, 8260-Water	VP134286	06/11/2025	06/12/2025	John Carlone	None	None	Mahesh Dadoda 06/12/2025
<u>FROM</u> 39.94450ml of W3112 + 0.00500ml of VP133174 + 0.00500ml of VP134142 + 0.00800ml of VP133935 + 0.01250ml of VP133887 + 0.01250ml of VP133991 + 0.01250ml of VP134149 = Final Quantity: 40.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	02/27/2026	02/27/2025 / SAM	04/12/2023 / SAM	V13706

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	12/12/2025	12/12/2024 / SAM	04/15/2024 / SAM	V14290

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/30/2025	05/12/2025 / SAM	08/15/2024 / SAM	V14432

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/20/2025	03/20/2025 / SAM	08/15/2024 / SAM	V14435

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	11/12/2025	05/12/2025 / SAM	09/17/2024 / SAM	V14503

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	11/12/2025	05/12/2025 / SAM	09/17/2024 / SAM	V14504

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	11/12/2025	05/12/2025 / SAM	09/18/2024 / SAM	V14525

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	11/12/2025	05/12/2025 / SAM	09/18/2024 / SAM	V14526

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	08/27/2025	02/27/2025 / SAM	11/26/2024 / SAM	V14613

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	10/25/2025	05/09/2025 / SAM	11/26/2024 / SAM	V14620

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	11/09/2025	05/09/2025 / SAM	11/26/2024 / SAM	V14626

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14636

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14637

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14638

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14639

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14668

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14671

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14673

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14675

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14711

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14717

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14718

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14721

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	11/13/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14749

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14750

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0220471	11/12/2025	05/12/2025 / SAM	01/08/2025 / SAM	V14811

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0220471	06/30/2026	05/12/2025 / SAM	01/08/2025 / SAM	V14812

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0217535	11/12/2025	05/12/2025 / SAM	01/21/2025 / SAM	V14843

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	11/12/2025	05/12/2025 / SAM	05/09/2025 / SAM	V14921

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	12/06/2025	06/06/2025 / SAM	05/09/2025 / SAM	V14929

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	051925	06/19/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14944

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	051925	06/19/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14945

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	051925	06/19/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14946

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	051925	06/19/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14947

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

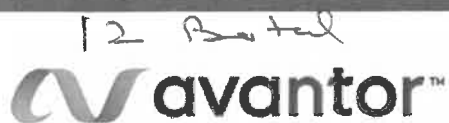
Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

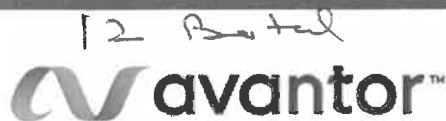
Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



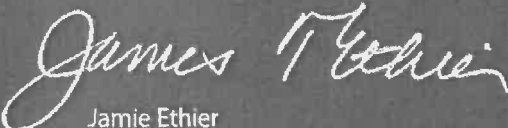
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality



Ree 03117/24

CERTIFIED WEIGHT REPORT

Part Number: 95317

Lot Number: 021624

Description: Universal VOA Megamix

69 components

Expiration Date: 021627

Recommended Storage: Freezer (0 °C)

Nominal Concentration (µg/mL): 2000

NIST Test ID#: BUTB

Solvent(s): Lot#
Methanol EG359-USQ12Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Balance Uncertainty
Flask Uncertainty

Formulated By:	Prashant Chauhan	021624
Reviewed By:	Pedro L. Renteria	021624
DATE		

Compound	(K049)	Lot	Dir.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Expanded	SDS Information				
	Part Number	Number	Factor	Vol. (mL)	Conc.(µg/mL)	Conc (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Actual Conc (µg/mL)	Uncertainty (µg/mL)	(Solvent Safety Info. On Attached pg.)	CASE	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2480mg/kg	
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 700mg/kg	
3. Carbon disulfide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg	
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21056	0.21069	2001.1	8.5	1478-11-5	N/A	N/A	
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20746	2001.7	8.4	110-57-6	N/A	N/A	
6. Diethyl ether	(0153)	IK18CAS000C	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A	
7. Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	N/A	
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm (28mg/m3/8H) (skin)	or-rat 14800mg/kg	
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	or-rat 2460mg/kg	
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	128-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 120mg/kg	
11. Methyl acrylate	(0755)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm (35mg/m3/8H) (skin)	or-rat 277mg/kg	
12. Methyl methacrylate	(0404)	MKGW6137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 7872mg/kg	
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H) (skin)	or-rat 780mg/kg	
14. 2-Nitropropane	(0461)	14002JK	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	78-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg	
15. Perchloroethane	(0460)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	78-01-7	N/A	N/A	
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	78-13-1	1000 ppm (7600mg/m3/8H)	or-rat 435g/kg	
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 915mg/kg	
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 848mg/kg	
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A	
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	N/A	
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg	
22. 1,1-Dichloroethane	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg	
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 933mg/kg	
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg	
25. Chloroform	95321	020724	0.10	10.00	20004.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	67-68-3	60 ppm (240mg/m3) (CL)	or-rat 908mg/kg	
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	or-rat 108mg/kg	
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A	
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	or-rat 725mg/kg	
29. Trichloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.8	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg	
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg	
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	or-rat 170mg/kg	
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	or-rat 108mg/kg	
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	or-rat 670mg/kg	
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	or-rat 1847mg/kg	
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	or-rat 3600mg/kg	
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	28.7	563-58-6	N/A	N/A	
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A	
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A	
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg	
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	830-20-6	N/A	or-rat 670mg/kg	
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H) (skin)	or-rat 800mg/kg	
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H) (skin)	or-rat 936mg/kg	
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-mus 2402mg/kg	
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	or-rat 149.8mg/kg	
45. Benzene	35162	050823	0.05	5.00	40006.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4894mg/kg	
46. Bromobenzene	35162	050823	0.05	5.00	40006.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	or-rat 2699mg/kg	
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg	
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	or-rat 4750mg/kg	
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg	
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg	
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-98-3	200 ppm	or-rat 5000mg/kg	
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-81-6	N/A	or-rat 1390mg/kg	
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 756mg/kg	
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	or-rat 5g/kg	
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-87-8	N/A	or-rat 5000mg/kg	
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg	
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	96-06-6	N/A	N/A	
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	or-rat 2240mg/kg	
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg	
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg	
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg	
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg	
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73			

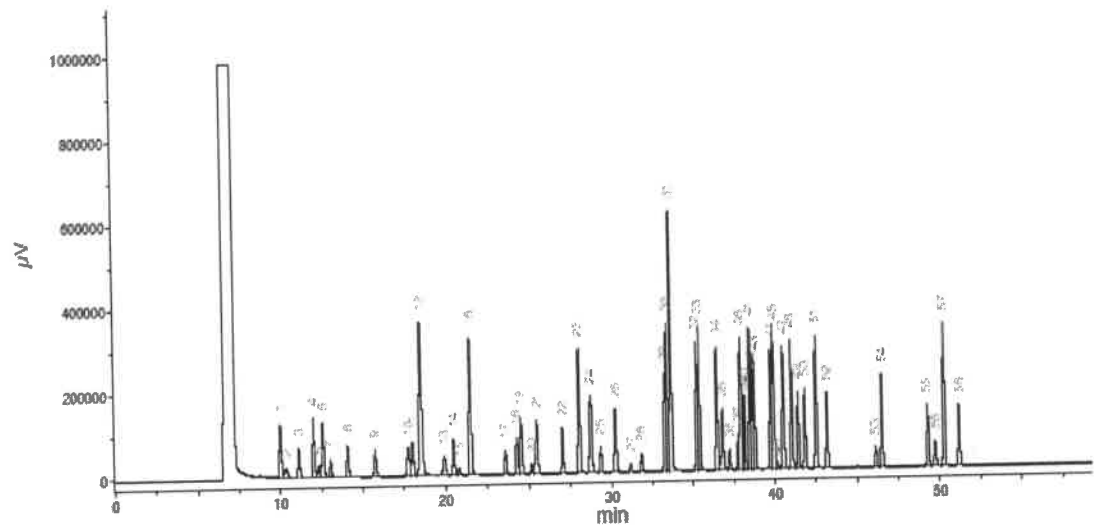


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.53
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.60
5	Iodomethane	12.91
6	Allyl chloride	12.96
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethane	18.00
12	Methoxyvinylbenzene/Methyl acrylate/Chloroform	18.49
13	Isobutene/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethane	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromochloropropane	25.46
21	Dibromomethane/2-Pentene	27.07
22	cis-1,2-Dichloroethane	28.03
23	Toluene	28.73
24	Ethyl methacrylate/trans-1,2-Dichloroethane	29.34
25	1,1,2-Trichloroethane	30.34
26	Tetrachloroethane/1,2-Dichloropropane	31.16
27	Dibromochloromethane	31.84
28	1,2-Dibromomethane	33.06
29	Chlorobenzene	33.40
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.85
31	m-Xylene/p-Xylene	35.33
32	o-Xylene	35.70
33	Styrene	35.70
34	Isopropylbenzene/Bromofarm	36.48
35	cis-1,4-Dichloro-3-butene	36.80
36	1,1,2-Trichloropropane	37.23
37	n-Propylbenzene	37.77
38	trans-1,4-Dichloro-3-butene	37.92
39	Bromobenzene	38.05
40	1,3,5-Trimethylbenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	Chlorobenzene	38.63
43	4-Chlorobenzene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropylbenzene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.40
55	1,2,4-Trifluorobenzene	49.28
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.56
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225 H370 P271 P302,332	Highly Flammable Liquid and Vapor Cause damage to organs Use in ventilated area If on skin, wash with soap and water	H301, 311, 331 H351 P280 P305,351,338	Toxic if swallowed, skin contact, inhaled Suspected of causing cancer Use gloves, eye protection/face shield If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#	% (optional)
Methanol METHYL ALCOHOL	67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption	ingestion and inhalation.
Personal protective equipment	Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing.	Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Ree 03117/24

CERTIFIED WEIGHT REPORT

Part Number: 95317

Lot Number: 021624

Description: Universal VOA Megamix

69 components

Expiration Date: 021627

Recommended Storage: Freezer (0 °C)

Nominal Concentration (µg/mL): 2000

NIST Test ID#: BUTB

Solvent(s): Lot#
Methanol EG359-USQ12Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Balance Uncertainty
Flask Uncertainty

Formulated By:	Prashant Chauhan	021624
Reviewed By:	Pedro L. Renteria	021624
DATE		

Compound	(KMe) Part Number	Lot Number	Dir. Factor	Initial Vol. (mL)	Initial Conc. (µg/mL)	Nominal Conc. (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
														CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2400mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 700mg/kg
3. Carbon disulfide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21056	0.21069	2001.1	8.5	1478-11-6	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP9041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20746	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS000C	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	N/A
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm (28mg/m3/8H) (skin)	or-rat 14800mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	or-rat 3460mg/kg
10. Methacrylonitrile	(0472)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	128-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm (35mg/m3/8H) (skin)	or-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKGW6137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H) (skin)	or-rat 780mg/kg
14. 2-Nitropropane	(0461)	HG002JK	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	78-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg
15. Pentachloroethane	(0460)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	78-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18990	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	78-13-1	1000 ppm (7600mg/m3/8H)	or-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	NA	or-rat 915mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg
22. 1,1-Dichloroethane	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 930mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20004.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	67-68-3	60 ppm (240mg/m3) (CL)	or-rat 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	or-rat 106mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29. Trichloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.8	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	86-12-8	0.001 ppm	or-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	or-rat 108mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	or-rat 670mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	or-rat 1847mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	or-rat 3600mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	28.7	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	830-20-6	N/A	or-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H) (skin)	or-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H) (skin)	or-rat 936mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	or-rat 149.8mg/kg
45. Benzene	35162	050823	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	or-rat 4750mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-98-3	200 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-81-6	N/A	or-rat 1390mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 756mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	23.0	95-63-6	N/A	or-rat 5g/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-87-6	N/A	or-rat 5000mg/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	96-06-6	N/A	N/A
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-6	N/A	or-rat 2240mg/kg
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	or-mus 1062mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	108-46-7	75 ppm (450mg/m3/8H)	or-rat

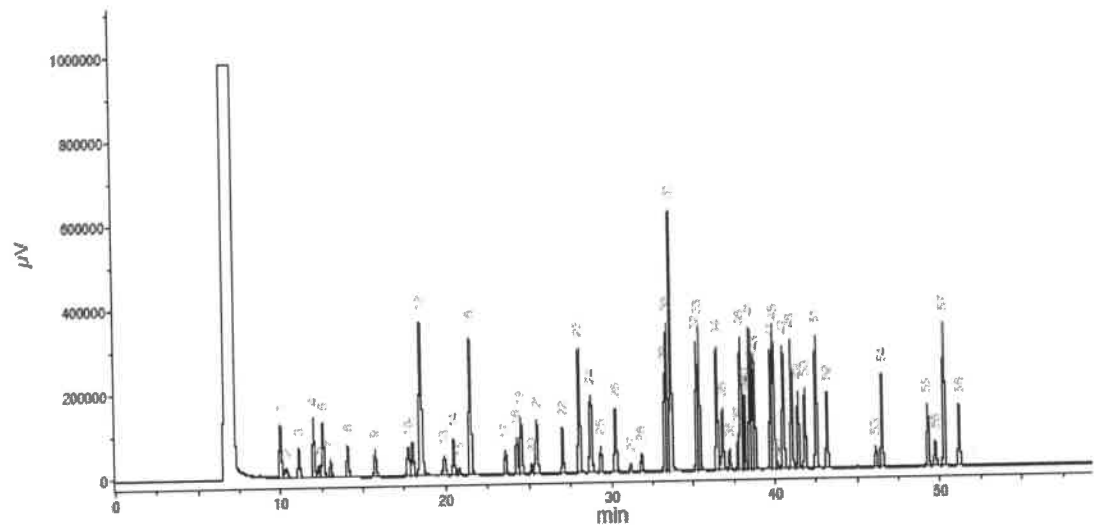


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.53
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.60
5	Iodomethane	12.91
6	Allyl chloride	13.56
7	Carbon disulfide/Methylene chloride	13.94
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methoxyvinylbenzene/Methyl acrylate/Chloroform	18.49
13	Isobutene/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromochloropropane	25.46
21	Dibromomethane/2,2-Dichloropropane	27.07
22	cis-1,2-Dichloroethene	28.03
23	Toluene	28.73
24	Ethyl methacrylate/trans-1,2-Dichloroethene	29.34
25	1,1,2-Trichloroethane	30.34
26	Tetrachloroethane/1,2-Dichloropropane	31.16
27	Dibromochloromethane	31.84
28	1,2-Dibromomethane	33.05
29	Chlorobenzene	33.40
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.85
31	m-Xylene/p-Xylene	35.33
32	o-Xylene	35.70
33	Styrene	35.70
34	Isopropylbenzene/Bromofarm	36.48
35	cis-1,4-Dichloro-3-butene	36.80
36	1,1,2-Trichloropropane	37.23
37	n-Propylbenzene	37.77
38	trans-1,4-Dichloro-3-butene	37.92
39	Bromobenzene	38.05
40	1,3,5-Trimethylbenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	Chlorobenzene	38.63
43	4-Chlorobenzene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropylbenzene	41.02
49	1,3-Trichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.40
55	1,2,4-Trifluorobenzene	49.28
56	Hexachlorocyclopentadiene	49.72
57	Naphthalene	50.56
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225 H370 P271 P302,332	Highly Flammable Liquid and Vapor Cause damage to organs Use in ventilated area If on skin, wash with soap and water	H301, 311, 331 H351 P280 P305,351,338	Toxic if swallowed, skin contact, inhaled Suspected of causing cancer Use gloves, eye protection/face shield If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		
Methanol	METHYL ALCOHOL	CAS#: 67-56-1
		% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



Dec 09/17/24

CERTIFIED WEIGHT REPORT

Part Number:

91980

Lot Number:

091424

Description:

Acrolein

Solvent(s):

Water

Lot#

072324Q

Expiration Date:

101424

Recommended Storage:

Refrigerate (4 °C)

Nominal Concentration (µg/mL):

5000

NIST Test ID#:

6UTB

5E-05 Balance Uncertainty

0.001 Flask Uncertainty

10.0

Weight(s) shown below were combined and diluted to (mL):

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50

1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC/MSD-1, Detector: Mass Selective Detector (Scan mode). Columns: Vocol (60m X 0.25mm ID X 1.5µm film thickness), Oven Profile: Temp. 1 = 35°C (Time 1 = 0min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas, NOTE: Due to the instability of acrolein in solution, all solutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

TIC: [BSB2]79005.D

Scan 232 (8.927 min): [BSB2]79005.D

Abundance

27

250000

8.93

200000

C=CC=O

50000

56

150000

40000

30000

20000

50000

10000

37

Time-->

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00

m/z-->

0

20

30

40

50

60

70

80

85

119

158

169

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Certified Reference Material CRM



Dec 09/17/24

CERTIFIED WEIGHT REPORT

Part Number:

91980

Lot Number:

091424

Description:

Acrolein

Solvent(s):

Water

Lot#

072324Q

Expiration Date:

101424

Recommended Storage:

Refrigerate (4 °C)

Nominal Concentration (µg/mL):

5000

NIST Test ID#:

6UTB

5E-05 Balance Uncertainty

0.001 Flask Uncertainty

10.0

Weight(s) shown below were combined and diluted to (mL):

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50

1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC/MSD-1, Detector: Mass Selective Detector (Scan mode). Columns: Vocol (60m X 0.25mm ID X 1.5µm film thickness), Oven Profile: Temp. 1 = 35°C (Time 1 = 0min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas, NOTE: Due to the instability of acrolein in solution, all solutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

TIC: [BSB2]79005.D

Scan 232 (8.927 min): [BSB2]79005.D

Abundance

27

250000

8.93

200000

56

150000

40000

30000

20000

10000

37

Time-->

0

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00

m/z-->

0

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

119

158 169

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
 * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
 * Standards are certified (±) 0.5% of the stated value, unless otherwise stated.
 * All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
 * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Dec 12/6/24
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

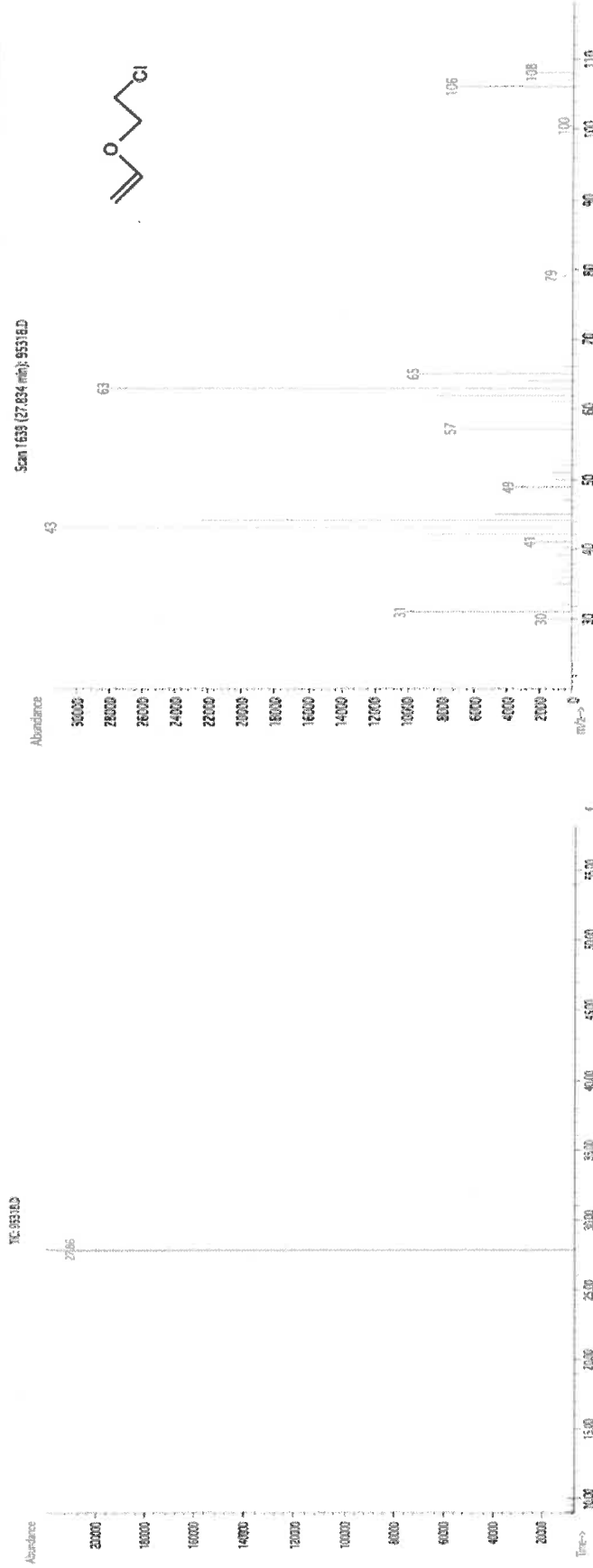
✓ 14630 to
✓ 14649

Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	(Solvent Safety Info. On Attached pg.)
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8 N/A or-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp. = 220°C. Analyst: Candice Warren.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (±) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rosotto Dr. Hamden CT. 06514	Emergency Telephone International Date Prepared/Revised	1-352-323-3500 January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#	% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm		
Skin notation	TWA 200 ppm		
Potential for skin absorption, ingestion and inhalation.			
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.	Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.			

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Dec 12/6/24
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

✓ 14630 to
✓ 14649

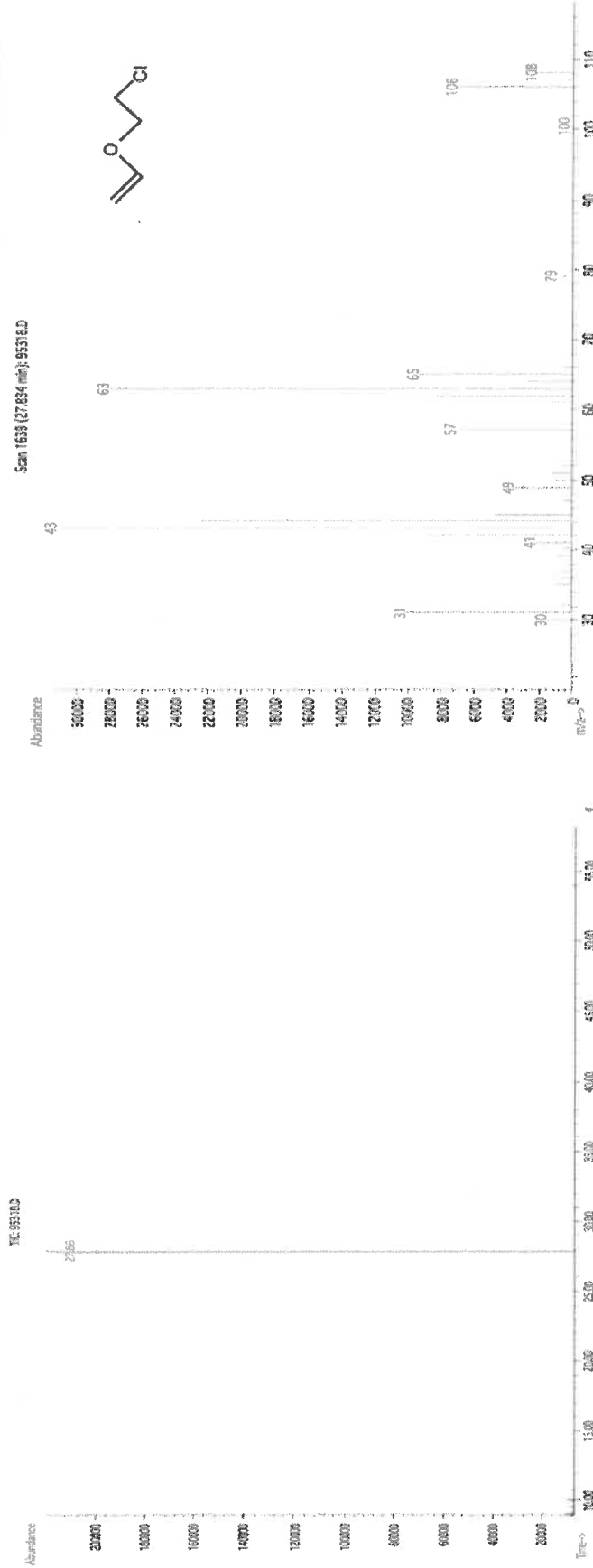
Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50

1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	or-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp. = 220°C. Analyst: Candice Warren.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (±) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	67-56-1	TWA 200 ppm
Skin notation			TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.			
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.	Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.			

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Dec 12/16/24
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

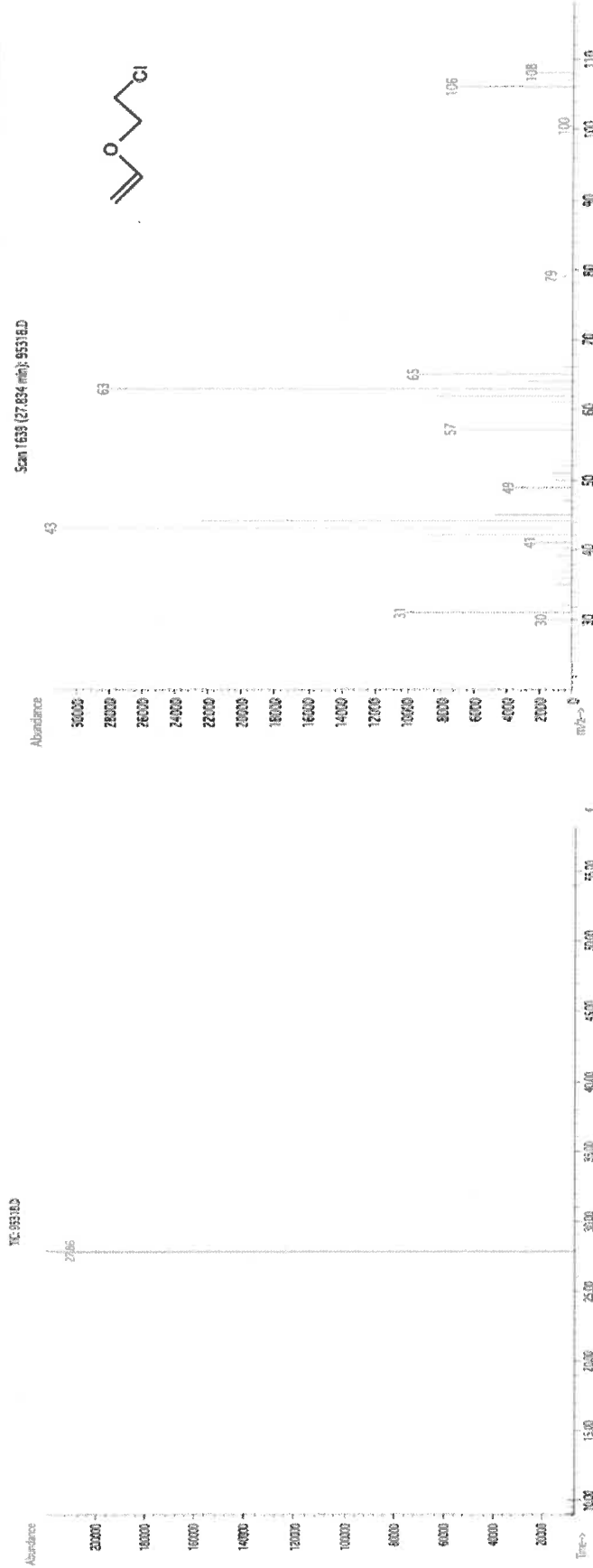
✓ 14630 to
✓ 14649

Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8 N/A or-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp. = 220°C. Analyst: Candice Warren.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (±) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	67-56-1	TWA 200 ppm
Skin notation			TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.			
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.	Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.			

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Dec 12/6/24
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

✓ 14630 to
✓ 14649

Weight(s) shown below were combined and diluted to (mL):

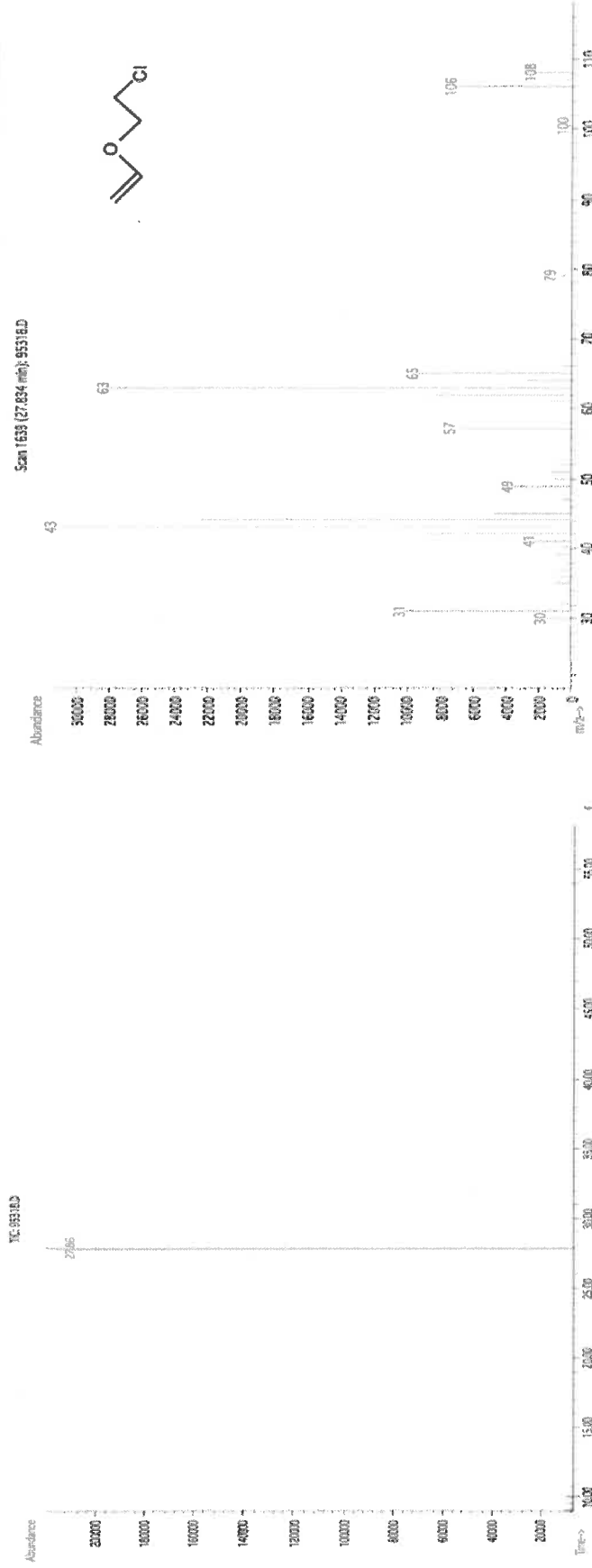
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By: Prashant Chauhan	120524	DATE
Reviewed By: Pedro L. Rentas	120524	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50

1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	or-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



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See Certified Weight Report For Other Analytes Present At Trace Quantities.

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DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

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110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

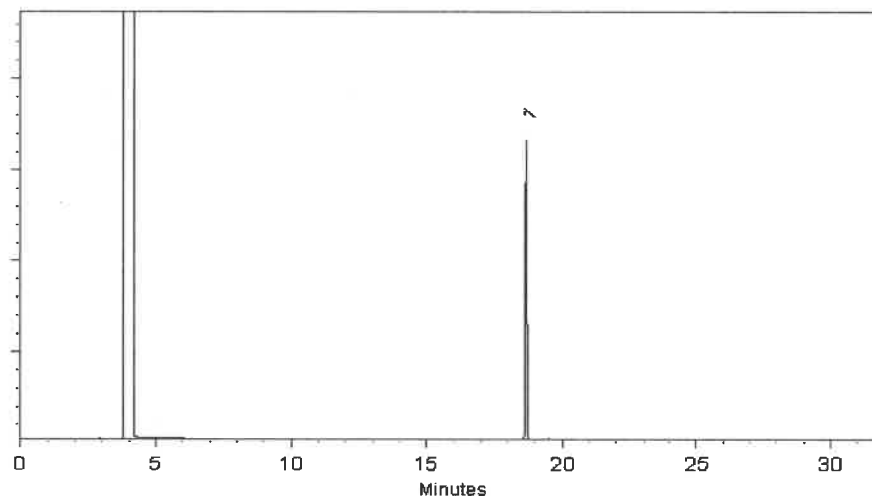
FID

Split Vent:

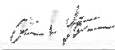
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022

Balance Serial # B251644995


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0196865

Description : Custom 8260A/B Surrogate Mix
Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-32845	99%	25,036.0 µg/mL	+/- 1,417.9179
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	25,132.0 µg/mL	+/- 1,423.3549
3	Dibromofluoromethane	1868-53-7	022013	99%	25,040.0 µg/mL	+/- 1,418.1445
4	Toluene-d8	2037-26-5	PR-33397	99%	25,028.0 µg/mL	+/- 1,417.4648

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2023

Balance: 1127510105

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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CERTIFIED REFERENCE MATERIAL

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chromatographic plus



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Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

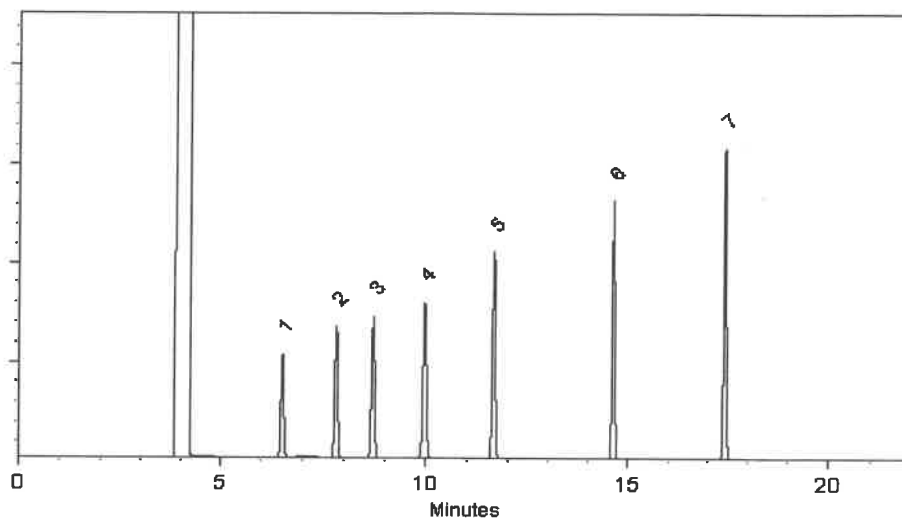
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024

Balance Serial # B707717271

Dillon Murphy
Dillon Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

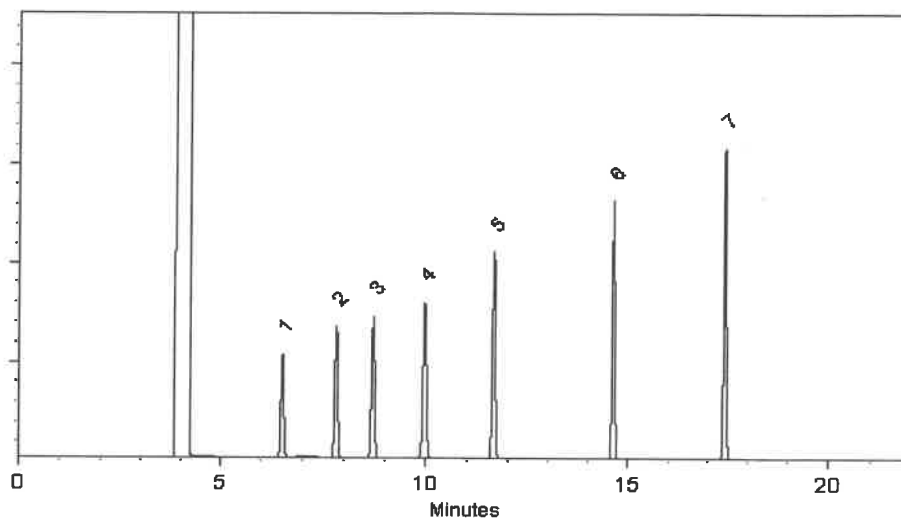
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024

Balance Serial # B707717271

Dillon Murphy
Dillon Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



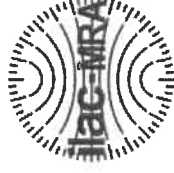
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gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 555581 **Lot No.:** A0210184

Description: Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size: 2 mL **Pkg Amt:** > 1 mL

Expiration Date: April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024

Balance: 11275.10105



Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

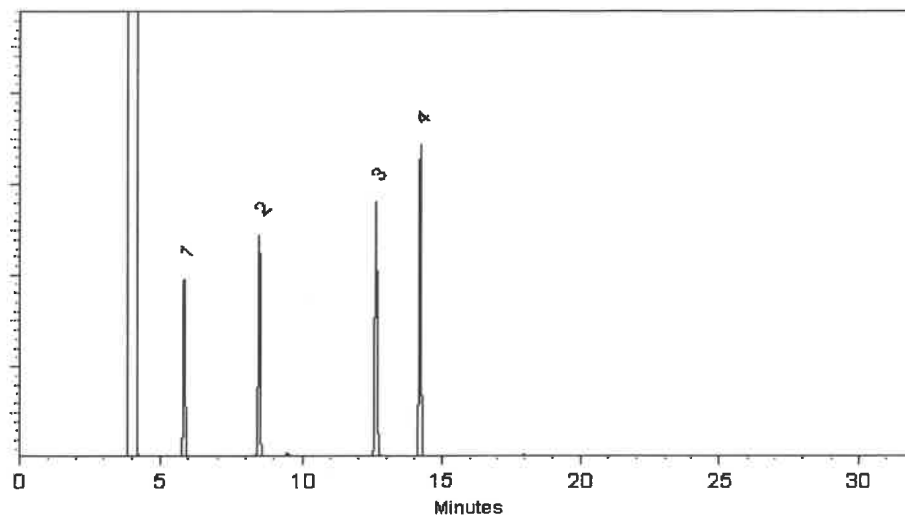
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

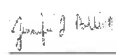


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

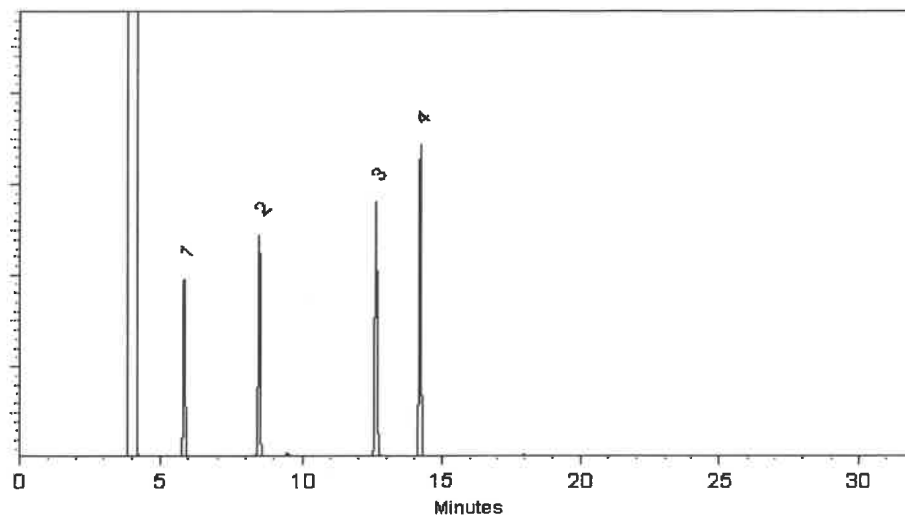
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

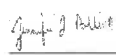


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

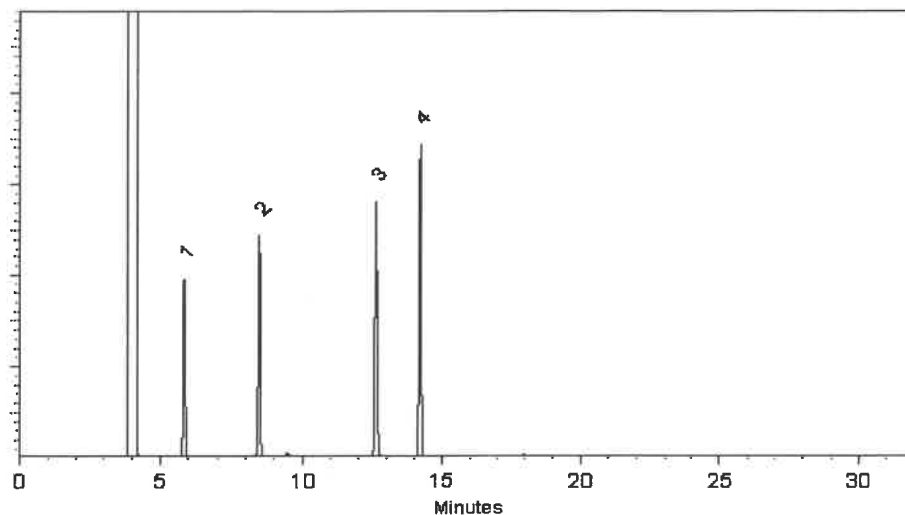
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

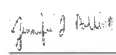


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

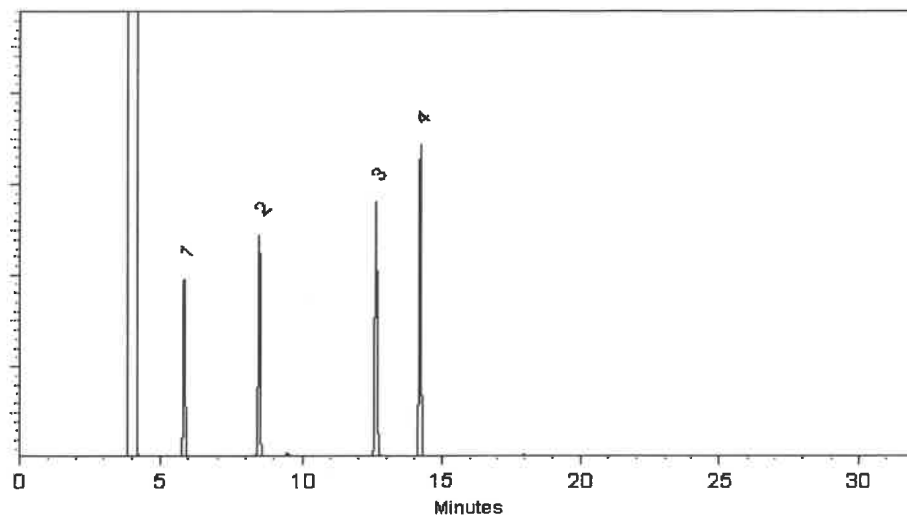
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

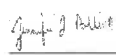


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

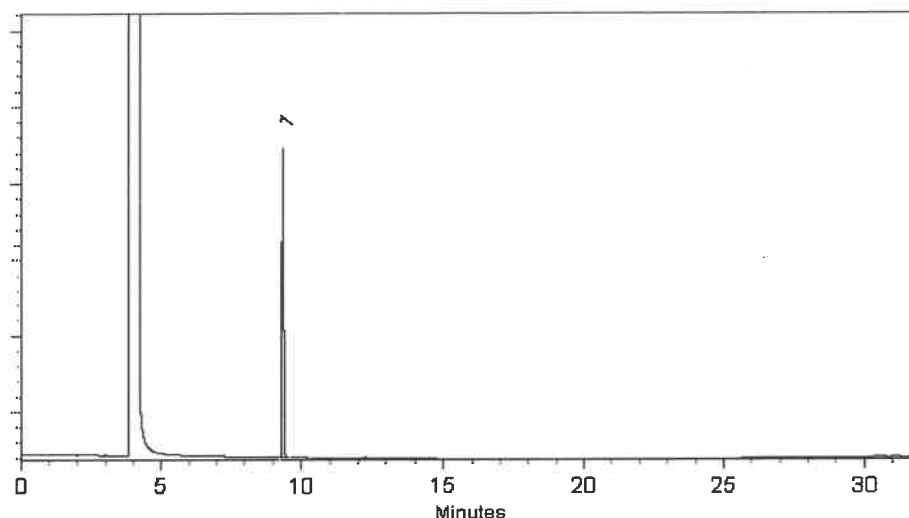
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

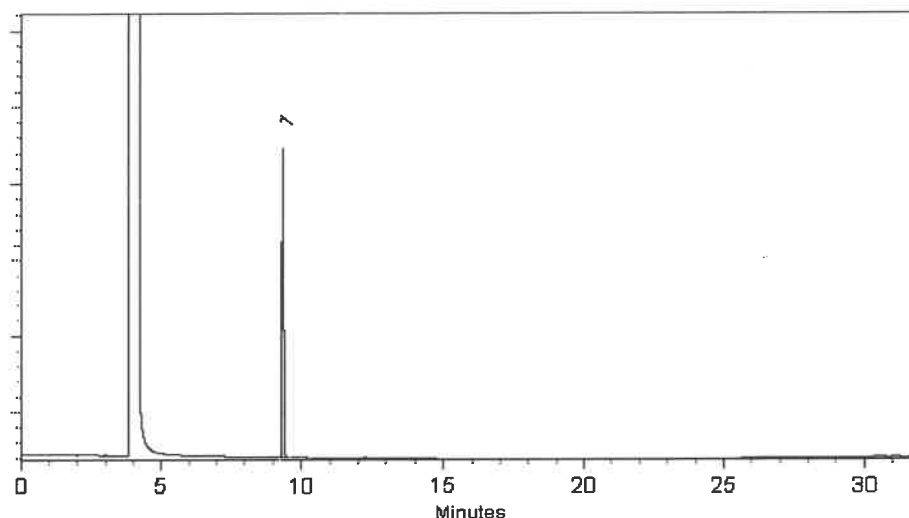
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
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Certified Uncertainty Value Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

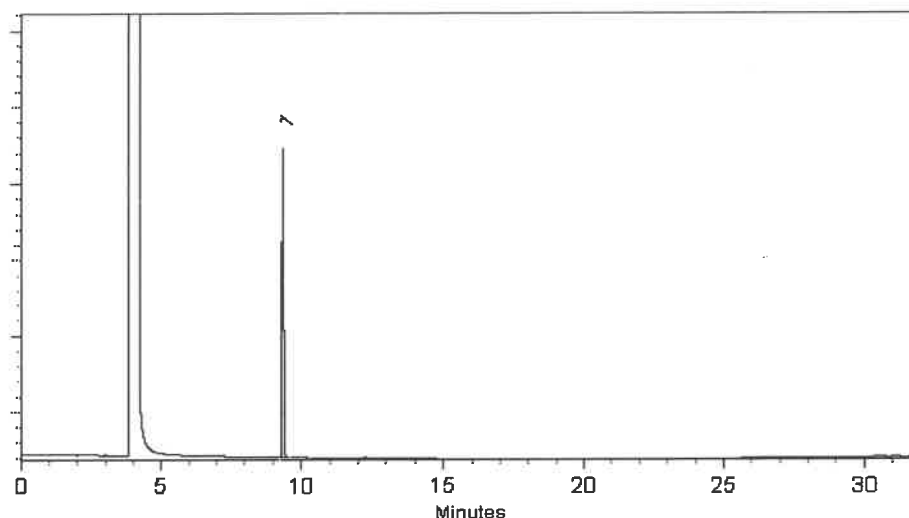
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

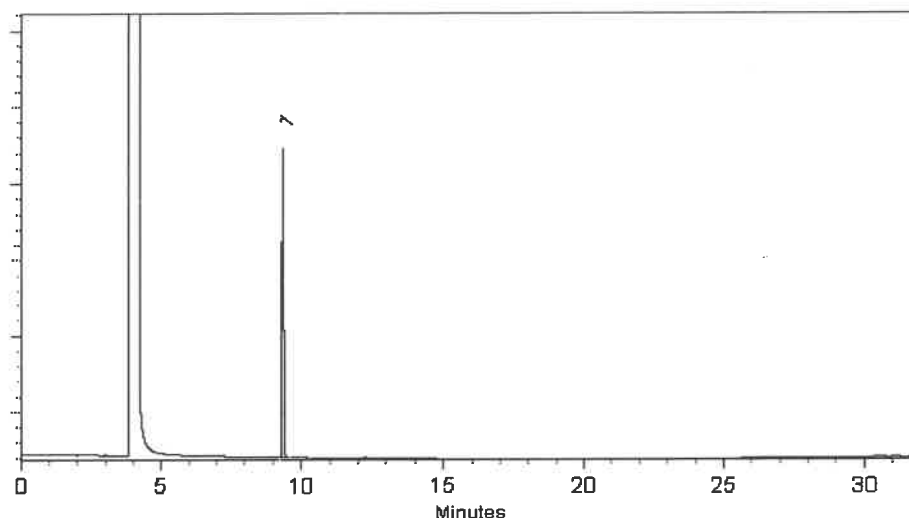
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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- Purity values are rounded to the nearest whole number.

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Manufacturing Notes:

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Handling Notes:

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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826
Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2031 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

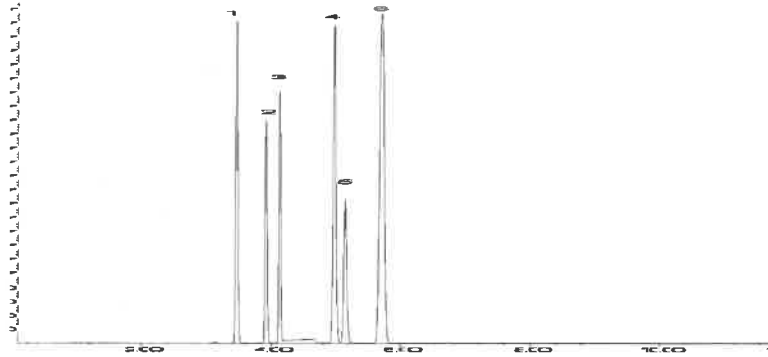
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Rec 12/17/24
CERTIFIED REFERENCE MATERIAL

30 ml
Certificate of Analysis
chromatographic plus

V14727 to
V14756



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826
Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2031 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

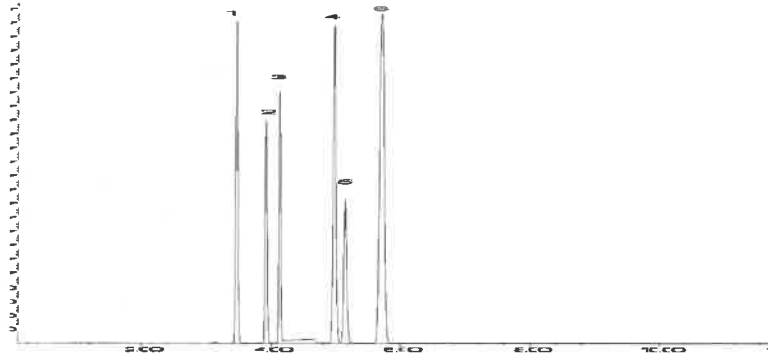
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

✓ 14842 to 14846



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0217535

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002-1	99%	50,007.5 µg/mL	+/- 717.6137

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

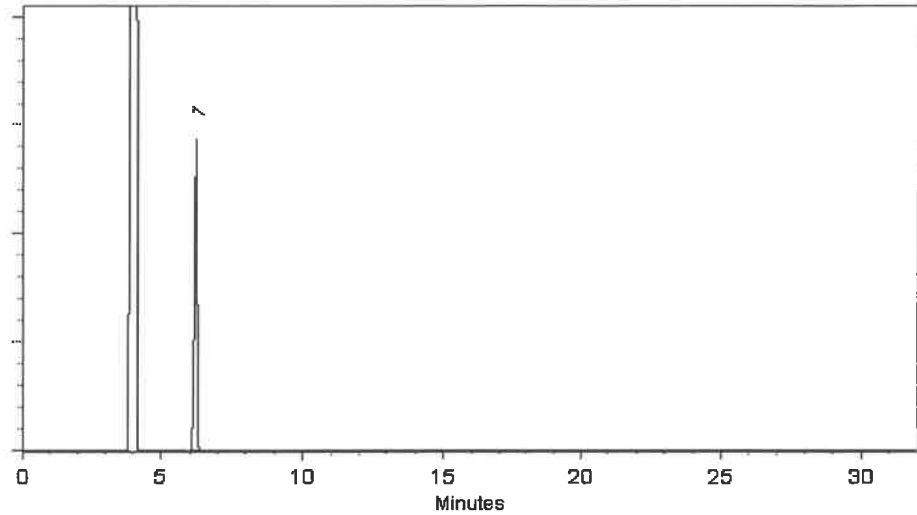
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

A. O. E.
Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024

Balance Serial # B251644995

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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2014 Dec 01/08/21
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

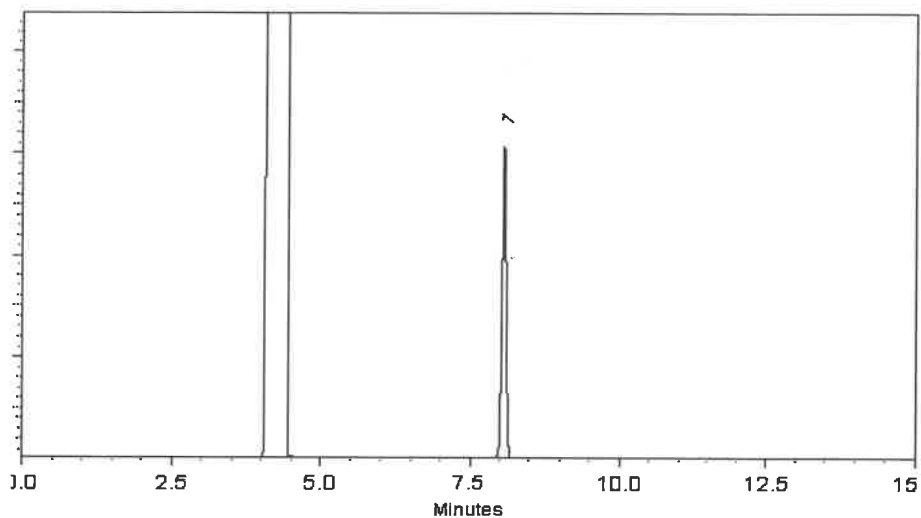
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024

Balance Serial # 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pollock at 7:12 am, Jan 05, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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2014 Dec 01/08/21
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

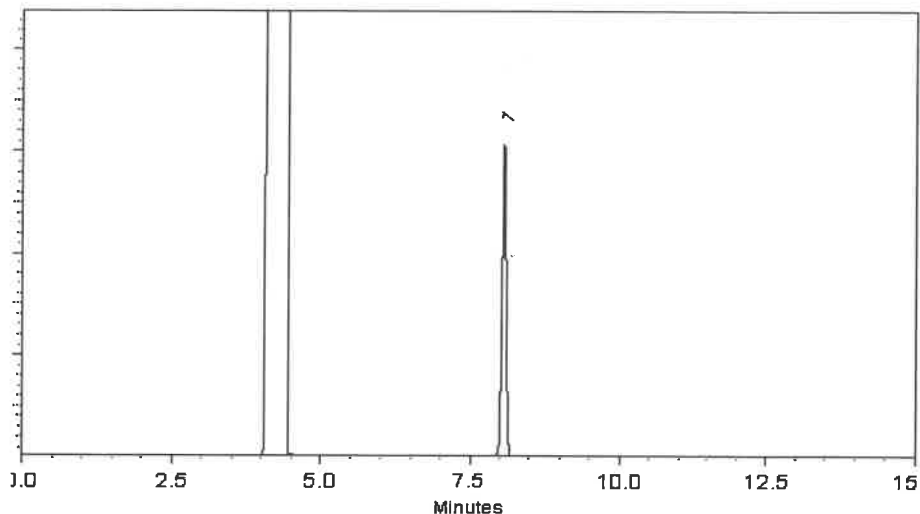
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024

Balance Serial # 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pollock at 7:12 am, Jan 05, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25
Avantor™



*V14921 to
V14938*

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μeq/g)	≤ 0.3	0.3
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 82608 CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μeq/g)	≤ 0.3	0.3
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Mark
Jamie Croak
Director Quality Operations, Bioscience Production



Certified Reference Material CRM

see 05/21/25



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 051925
Description: Acrolein

Solvent(s): Water
Lot#: 041725Q

5.019

114944-114948

		051925
Formulated By:	Lawrence Barry	DATE
		051925
Reviewed By:	Pedro L. Rentas	DATE

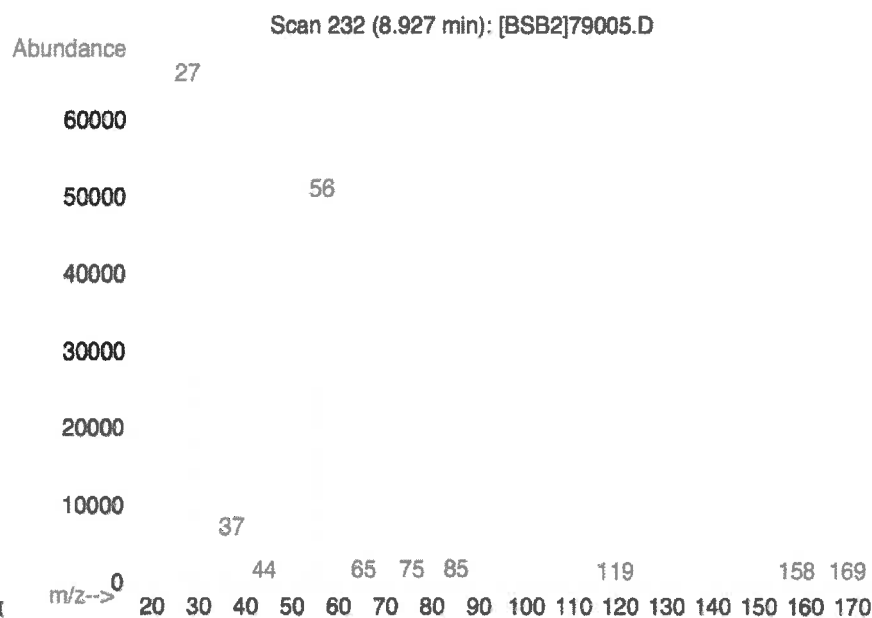
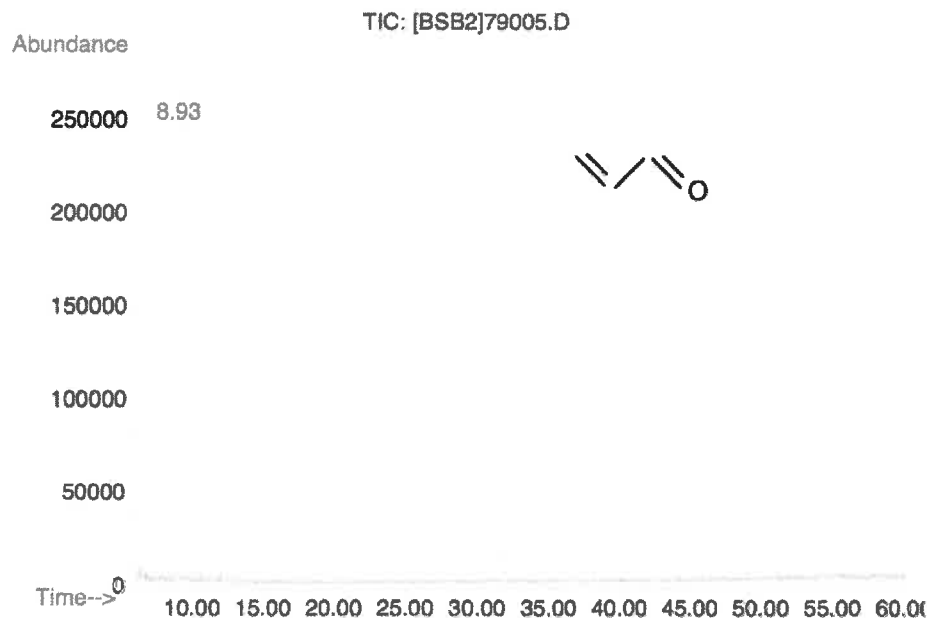
Expiration Date: 061925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
 - Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
 - Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
 - All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
 - Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).
- Rev 1.0, 2/25/2025



Certified Reference Material CRM

see 05/21/25



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 051925
Description: Acrolein

Solvent(s): Water
Lot#: 041725Q

5.019

114944-114948

		051925
Formulated By:	Lawrence Barry	DATE
		051925
Reviewed By:	Pedro L. Rentas	DATE

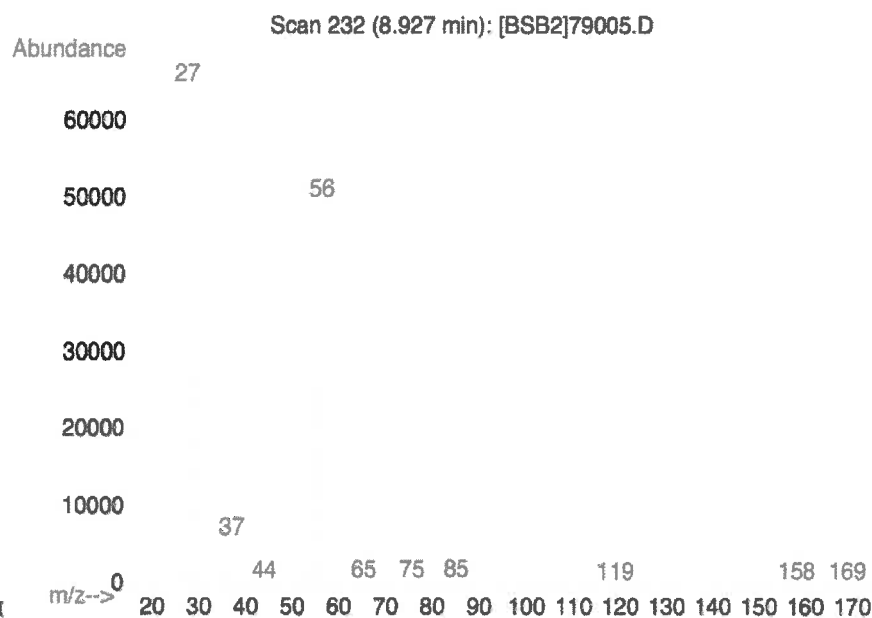
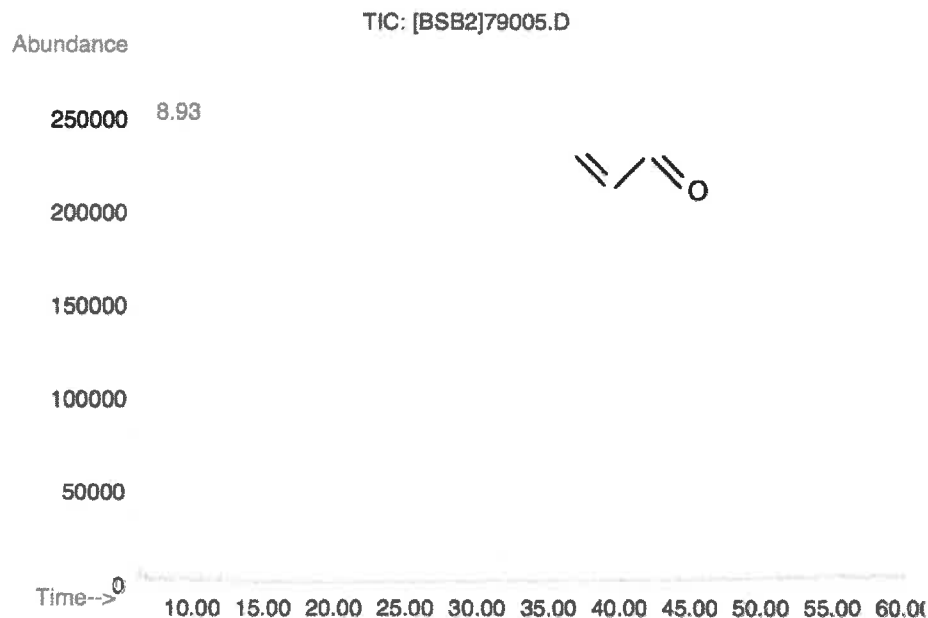
Expiration Date: 061925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



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- Rev 1.0, 2/25/2025



Certified Reference Material CRM

see 05/21/25



CERTIFIED WEIGHT REPORT

Part Number: **91980**
Lot Number: **051925**
Description: **Acrolein**

Solvent(s):
Water

Lot#
041725Q

5.019

114944-114948

		051925
Formulated By:	Lawrence Barry	DATE
		051925
Reviewed By:	Pedro L. Rentas	DATE

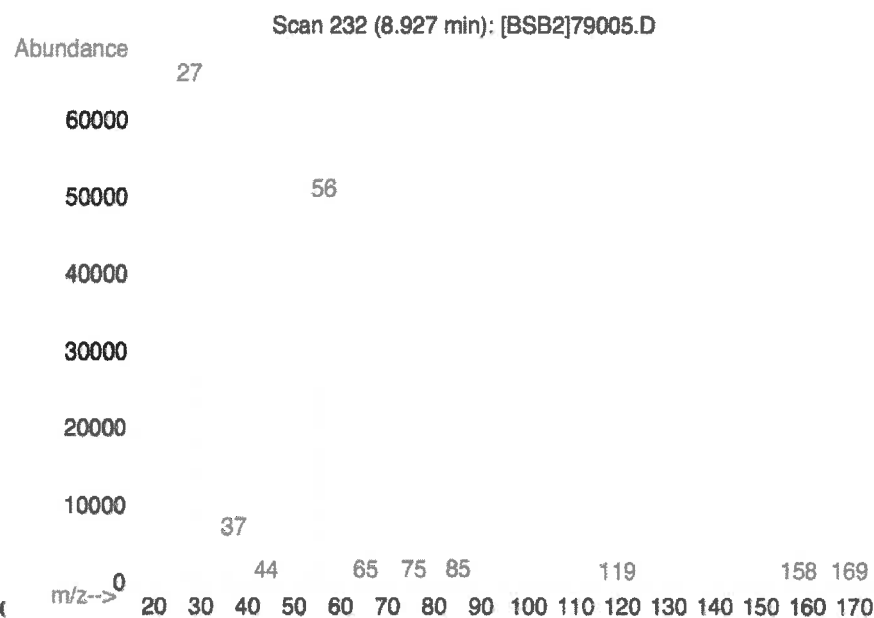
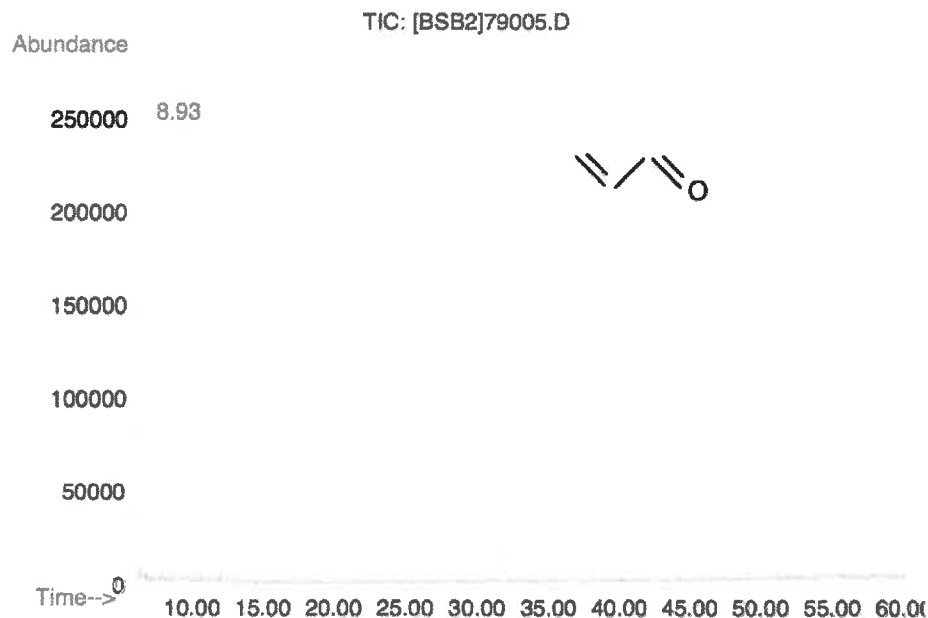
Expiration Date: **061925**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **5000**
NIST Test ID#: **6UTB**

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): **10.0**

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



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- Rev 1.0, 2/25/2025



Certified Reference Material CRM

see 05/21/25



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 051925
Description: Acrolein

Solvent(s): Water
Lot#: 041725Q

5.019

114944-114948

		051925
Formulated By:	Lawrence Barry	DATE
		051925
Reviewed By:	Pedro L. Rentas	DATE

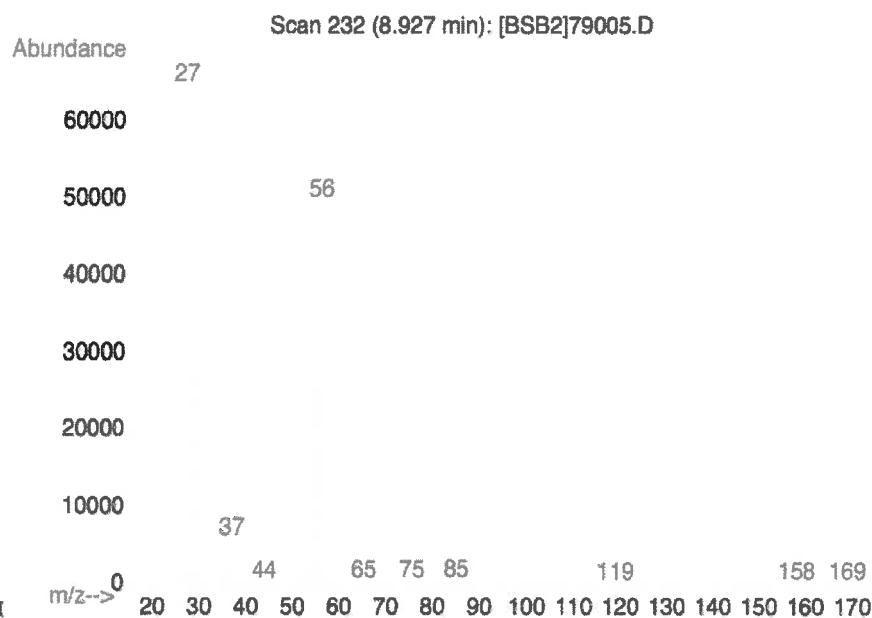
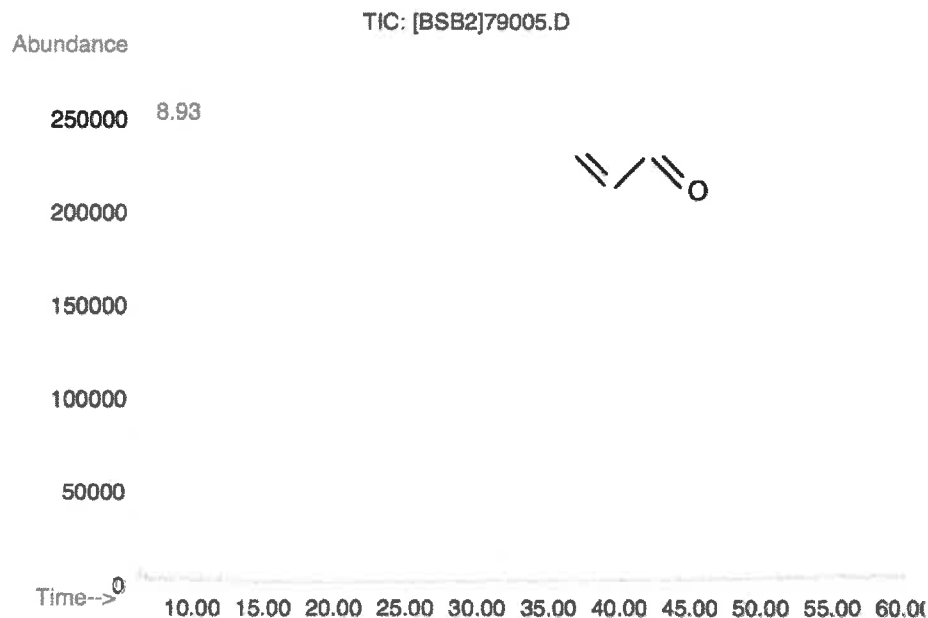
Expiration Date: 061925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

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0.001 Flask Uncertainty

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- Rev 1.0, 2/25/2025



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Parsons
ADDRESS: 301 Plainfield Rd
CITY Syracuse STATE: NY ZIP: 13212
ATTENTION: Stephen Liberatore
PHONE: 315-418-8767 FAX: NA

CLIENT PROJECT INFORMATION

PROJECT NAME: Con Ed Atlantic Ave
PROJECT NO.: 153957-01000 LOCATION: Brooklyn, NY
PROJECT MANAGER: Stephen Liberatore
e-mail: Stephen.Liberatore@parsons.com
PHONE: 315-418-8767 FAX: NA

CLIENT BILLING INFORMATION

BILL TO: Parsons PO#:
ADDRESS: 301 Plainfield Rd
CITY Syracuse STATE: NY ZIP: 13212
ATTENTION: Stephen Liberatore PHONE: 315-418-8767

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) Standard DAYS*
HARDCOPY (DATA PACKAGE): ↓ DAYS*
EDD: 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

VOCs + TICs
SVOCs + TICs
TDS
Sulfate

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS ← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
			COMP	GRAB	DATE	TIME		A	E	E	E						
1.	MW-10D-20250604	W		X	6/4/25	1320	4	X		X	X						
2.	MW-14-20250604	W		X	6/4/25	1430	3	X	X								
3.	MW-15-20250604	W		X	6/4/25	0915	4	X		X	X						
4.	MW-16D-20250604	W		X	6/4/25	1015	4	X		X	X						
5.	MW-17-20250604	W		X	6/4/25	1130	4	X		X	X						
6.	TB-20250604	W		X	6/4/25	—	2	X									
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. <u>FWH</u>	DATE/TIME: <u>6/4/25 1600</u>	RECEIVED BY: <u>[Signature]</u> <u>6-4-25</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>3.0</u> °C
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY:	Comments: <u>Please CC Kirsten.Valentini@parsons.com</u>
RELINQUISHED BY SAMPLER: 3. <u>[Signature]</u>	DATE/TIME: <u>1830</u> <u>6-4-25</u>	RECEIVED BY: 3.	Page <u></u> of <u></u> CLIENT: ☐ Hand Delivered. ☐ Other <u></u> 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



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2231 PARS02

Order Date : 6/4/2025 4:40:00 PM

Project Mgr :

Client Name : PARSONS Engineering of I

Project Name : Con Ed Non MGP – Atlanti

Report Type : NYS ASPB Level 2

Client Contact : Stephen Liberatore

Receive DateTime : 6/4/2025 ~~12:00:00~~ AM

EDD Type : Excel NY

Invoice Name : PARSONS Engineering of I

Purchase Order :

Hard Copy Date :

Invoice Contact : Stephen Liberatore

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2231-01	MW-10D-20250604	Water	06/04/2025	13:20					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2231-02	MW-14-20250604	Water	06/04/2025	14:30					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2231-03	MW-15-20250604	Water	06/04/2025	09:15					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2231-04	MW-16D-20250604	Water	06/04/2025	10:15					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2231-05	MW-17-20250604	Water	06/04/2025	11:30					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2231-06	TB-20250604	Water	06/04/2025	00:00					
					VOCMS Group1		8260-Low	10 Bus. Days	



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2231	PARS02	Order Date : 6/4/2025 4:40:00 PM	Project Mgr :
Client Name : PARSONS Engineering of I		Project Name : Con Ed Non MGP – Atlanti	Report Type : ~~NYS ASPB~~ level 2
Client Contact : Stephen Liberatore		Receive DateTime : 6/4/2025 12:00:00 AM 18:30	EDD Type : Excel NY
Invoice Name : PARSONS Engineering of I		Purchase Order :	Hard Copy Date :
Invoice Contact : Stephen Liberatore			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinquished By : CP

Date / Time : 6/8/25 11:38

Received By : Samy

Date / Time : 06/10/25 11:35

Storage Area : VOA Refridgerator Room