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Cover Page

Order ID : Q1066

Project ID : PVSC Monthly 2025

Client : Ardmore Chemical

Lab Sample Number	Client Sample Number
Q1066-01	EFF-WASTE WATER
Q1066-02	EFF-WASTE WATER

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: 1/16/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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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 is 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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q1066**

	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: **PRADIP PRAJAPATI** **Date:** **01/16/2025**

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LAB CHRONICLE

OrderID:	Q1066	**OrderDate:**	1/10/2025 12:15:00 PM
Client:	Ardmore Chemical	**Project:**	PVSC Monthly 2025
Contact:	Michael Sharphouse	**Location:**	M11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1066-01	**EFF-WASTE WATER**	**Water**			**01/10/25**			**01/10/25**
			VOC-PP	624.1			01/10/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1066

Client: Ardmore Chemical

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**EFF-WASTE WATER**							
Q1066-01	EFF-WASTE WATE	Water	Chloroform	14.8	J	3.60	25.0	ug/L
			Total Voc :	14.8				
			Total Concentration:	14.8				

QC SUMMARY

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Surrogate Summary

SDG No.: Q1066

Client: Ardmore Chemical

Analytical Method: SW624.1

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1066-01	EFF-WASTE WATER	1,2-Dichloroethane-d4	30	29.6	99	91	110
		Toluene-d8	30	28.2	94	91	112
		4-Bromofluorobenzene	30	24.4	81	63	112
VN0110WBL01	VN0110WBL01	1,2-Dichloroethane-d4	30	29.6	99	91	110
		Toluene-d8	30	28.9	96	91	112
		4-Bromofluorobenzene	30	23.5	78	63	112
VN0110WBS01	VN0110WBS01	1,2-Dichloroethane-d4	30	29.6	99	91	110
		Toluene-d8	30	30.0	100	91	112
		4-Bromofluorobenzene	30	29.5	98	63	112
VN0110WBSD0	VN0110WBSD01	1,2-Dichloroethane-d4	30	29.4	98	91	110
		Toluene-d8	30	29.5	98	91	112
		4-Bromofluorobenzene	30	28.9	96	63	112

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1066

Client: Ardmore Chemical

Analytical Method: SW624.1 **Datafile :** VN085419.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0110WBS01	Chloromethane	20	20.2	ug/L	101			1	205	
	Vinyl Chloride	20	20.2	ug/L	101			5	195	
	Bromomethane	20	21.0	ug/L	105			15	185	
	Chloroethane	20	20.8	ug/L	104			40	160	
	Trichlorofluoromethane	20	21.7	ug/L	109			50	150	
	1,1-Dichloroethene	20	21.6	ug/L	108			50	150	
	Acrolein	100	110	ug/L	110			60	140	
	Acrylonitrile	100	96.6	ug/L	97			60	140	
	Methylene Chloride	20	21.3	ug/L	106			60	140	
	trans-1,2-Dichloroethene	20	21.5	ug/L	108			70	130	
	1,1-Dichloroethane	20	21.8	ug/L	109			70	130	
	Carbon Tetrachloride	20	20.6	ug/L	103			70	130	
	Chloroform	20	21.6	ug/L	108			70	135	
	1,1,1-Trichloroethane	20	20.3	ug/L	102			70	130	
	Benzene	20	20.6	ug/L	103			65	135	
	1,2-Dichloroethane	20	20.1	ug/L	101			70	130	
	Trichloroethene	20	20.5	ug/L	103			65	135	
	1,2-Dichloropropane	20	20.5	ug/L	103			35	165	
	Bromodichloromethane	20	20.2	ug/L	101			65	135	
	Toluene	20	21.1	ug/L	106			70	130	
	t-1,3-Dichloropropene	20	20.4	ug/L	102			50	150	
	cis-1,3-Dichloropropene	20	20.7	ug/L	104			25	175	
	1,1,2-Trichloroethane	20	19.8	ug/L	99			70	130	
	2-Chloroethyl vinyl ether	100	85.4	ug/L	85			1	225	
	Dibromochloromethane	20	19.8	ug/L	99			70	135	
	Tetrachloroethene	20	22.1	ug/L	111			70	130	
	Chlorobenzene	20	21.6	ug/L	108			65	135	
	Ethyl Benzene	20	20.8	ug/L	104			60	140	
	m/p-Xylenes	40	42.9	ug/L	107			87	111	
	o-Xylene	20	21.2	ug/L	106			87	111	
	Bromoform	20	18.2	ug/L	91			70	130	
	1,1,2,2-Tetrachloroethane	20	19.1	ug/L	96			60	140	
	1,3-Dichlorobenzene	20	21.0	ug/L	105			70	130	
	1,4-Dichlorobenzene	20	20.7	ug/L	104			65	135	
	1,2-Dichlorobenzene	20	21.6	ug/L	108			65	135	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1066

Client: Ardmore Chemical

Analytical Method: SW624.1 **Datafile :** VN085420.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0110WBSD01	Chloromethane	20	18.2	ug/L	91	10		1	205	20
	Vinyl Chloride	20	18.6	ug/L	93	8		5	195	20
	Bromomethane	20	19.2	ug/L	96	9		15	185	20
	Chloroethane	20	18.7	ug/L	94	10		40	160	20
	Trichlorofluoromethane	20	20.1	ug/L	101	8		50	150	20
	1,1-Dichloroethene	20	20.2	ug/L	101	7		50	150	20
	Acrolein	100	120	ug/L	120	9		60	140	20
	Acrylonitrile	100	97.6	ug/L	98	1		60	140	20
	Methylene Chloride	20	20.1	ug/L	101	5		60	140	20
	trans-1,2-Dichloroethene	20	20.5	ug/L	103	5		70	130	20
	1,1-Dichloroethane	20	20.7	ug/L	104	5		70	130	20
	Carbon Tetrachloride	20	19.7	ug/L	99	4		70	130	20
	Chloroform	20	20.2	ug/L	101	7		70	135	20
	1,1,1-Trichloroethane	20	19.7	ug/L	99	3		70	130	20
	Benzene	20	20.2	ug/L	101	2		65	135	20
	1,2-Dichloroethane	20	20.0	ug/L	100	1		70	130	20
	Trichloroethene	20	20.2	ug/L	101	2		65	135	20
	1,2-Dichloropropane	20	20.4	ug/L	102	1		35	165	20
	Bromodichloromethane	20	20.4	ug/L	102	1		65	135	20
	Toluene	20	19.8	ug/L	99	7		70	130	20
	t-1,3-Dichloropropene	20	19.9	ug/L	100	2		50	150	20
	cis-1,3-Dichloropropene	20	20.3	ug/L	102	2		25	175	20
	1,1,2-Trichloroethane	20	20.1	ug/L	101	2		70	130	20
	2-Chloroethyl vinyl ether	100	110	ug/L	110	26	*	1	225	20
	Dibromochloromethane	20	19.4	ug/L	97	2		70	135	20
	Tetrachloroethene	20	20.5	ug/L	103	7		70	130	20
	Chlorobenzene	20	20.8	ug/L	104	4		65	135	20
	Ethyl Benzene	20	20.0	ug/L	100	4		60	140	20
	m/p-Xylenes	40	40.8	ug/L	102	5		87	111	20
	o-Xylene	20	20.2	ug/L	101	5		87	111	20
	Bromoform	20	18.8	ug/L	94	3		70	130	20
	1,1,2,2-Tetrachloroethane	20	19.4	ug/L	97	1		60	140	20
	1,3-Dichlorobenzene	20	20.1	ug/L	101	4		70	130	20
	1,4-Dichlorobenzene	20	19.7	ug/L	99	5		65	135	20
	1,2-Dichlorobenzene	20	19.6	ug/L	98	10		65	135	20

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0110WBL01

Lab Name: CHEMTECH Contract: ARDM01

Lab Code: CHEM Case No.: Q1066 SAS No.: Q1066 SDG NO.: Q1066

Lab File ID: VN085421.D Lab Sample ID: VN0110WBL01

Date Analyzed: 01/10/2025 Time Analyzed: 12:21

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
VN0110WBS01	VN0110WBS01	VN085419.D	01/10/2025
VN0110WBSD01	VN0110WBSD01	VN085420.D	01/10/2025
EFF-WASTE WATER	Q1066-01	VN085425.D	01/10/2025

COMMENTS:

Raw Data: **VN085271.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ARDM01

Lab Code: CHEM Case No.: Q1066 SAS No.: Q1066 SDG NO.: Q1066

Lab File ID: VN085271.D BFB Injection Date: 12/20/2024

Instrument ID: MSVOA_N BFB Injection Time: 09:21

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	24
75	30.0 - 60.0% of mass 95	59.8
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	1.1 (1.5) 1
174	50.0 - 100.0% of mass 95	73.2
175	5.0 - 9.0% of mass 174	5.9 (8) 1
176	95.0 - 101.0% of mass 174	71 (97) 1
177	5.0 - 9.0% of mass 176	4.5 (6.4) 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
VSTDICC005	VSTDICC005	VN085272.D	12/20/2024	10:05
VSTDICCC020	VSTDICCC020	VN085273.D	12/20/2024	10:29
VSTDICC050	VSTDICC050	VN085274.D	12/20/2024	10:53
VSTDICC100	VSTDICC100	VN085275.D	12/20/2024	11:17
VSTDICC150	VSTDICC150	VN085276.D	12/20/2024	11:42

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ARDM01

Lab Code: CHEM Case No.: Q1066 SAS No.: Q1066 SDG NO.: Q1066

Lab File ID: VN085417.D BFB Injection Date: 01/10/2025

Instrument ID: MSVOA_N BFB Injection Time: 09:42

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	21.7
75	30.0 - 60.0% of mass 95	57.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	1.3 (1.7) 1
174	50.0 - 100.0% of mass 95	77.1
175	5.0 - 9.0% of mass 174	6.5 (8.4) 1
176	95.0 - 101.0% of mass 174	72.3 (93.8) 1
177	5.0 - 9.0% of mass 176	5 (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
VSTDCCC020	VSTDCCC020	VN085418.D	01/10/2025	10:56
VN0110WBS01	VN0110WBS01	VN085419.D	01/10/2025	11:33
VN0110WBSD01	VN0110WBSD01	VN085420.D	01/10/2025	11:57
VN0110WBL01	VN0110WBL01	VN085421.D	01/10/2025	12:21
EFF-WASTE WATER	Q1066-01	VN085425.D	01/10/2025	14:08

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ARDM01

Lab Code: CHEM Case No.: Q1066 SAS No.: Q1066 SDG NO.: Q1066

Lab File ID: VN085418.D Date Analyzed: 01/10/2025

Instrument ID: MSVOA_N Time Analyzed: 10:56

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	32951	7.81	181970	9.09	160429	11.87
UPPER LIMIT	65902	8.312	363940	9.594	320858	12.365
LOWER LIMIT	16475.5	7.312	90985	8.594	80214.5	11.365
EPA SAMPLE NO.						
EFF-WASTE WATER	30932	7.81	152538	9.10	138971	11.87
VN0110WBL01	28161	7.81	139569	9.10	125667	11.87
VN0110WBS01	31512	7.81	174744	9.09	158580	11.86
VN0110WBSD01	34644	7.81	184595	9.10	172668	11.86

IS1 = Bromochloromethane
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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ARDM01

Lab Code: CHEM Case No.: Q1066 SAS No.: Q1066 SDG NO.: Q1066

Lab File ID: VN085418.D Date Analyzed: 01/10/2025

Instrument ID: MSVOA_N Time Analyzed: 10:56

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	0	0				
UPPER LIMIT	0					
LOWER LIMIT	0					
EPA SAMPLE NO.						
EFF-WASTE WATER	0	0.00				
VN0110WBL01	0	0.00				
VN0110WBS01	0	0.00				
VN0110WBSD01	0	0.00				

IS4 =

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

Raw Data: **VN085425.D**

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Report of Analysis

Client:	Ardmore Chemical	Date Collected:	01/10/25
Project:	PVSC Monthly 2025	Date Received:	01/10/25
Client Sample ID:	EFF-WASTE WATER	SDG No.:	Q1066
Lab Sample ID:	Q1066-01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-PP
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085425.D	5		01/10/25 14:08	VN011025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
74-87-3	Chloromethane	5.90	U	5.90	25.0	ug/L
75-01-4	Vinyl Chloride	6.10	U	6.10	25.0	ug/L
74-83-9	Bromomethane	6.90	U	6.90	25.0	ug/L
75-00-3	Chloroethane	14.6	U	14.6	25.0	ug/L
75-69-4	Trichlorofluoromethane	5.10	U	5.10	25.0	ug/L
75-35-4	1,1-Dichloroethene	5.30	U	5.30	25.0	ug/L
107-02-8	Acrolein	46.5	U	46.5	130	ug/L
107-13-1	Acrylonitrile	18.4	U	18.4	130	ug/L
75-09-2	Methylene Chloride	6.10	U	6.10	25.0	ug/L
156-60-5	trans-1,2-Dichloroethene	4.80	U	4.80	25.0	ug/L
75-34-3	1,1-Dichloroethane	4.10	U	4.10	25.0	ug/L
56-23-5	Carbon Tetrachloride	4.60	U	4.60	25.0	ug/L
67-66-3	Chloroform	14.8	J	3.60	25.0	ug/L
71-55-6	1,1,1-Trichloroethane	4.00	U	4.00	25.0	ug/L
71-43-2	Benzene	3.50	U	3.50	25.0	ug/L
107-06-2	1,2-Dichloroethane	3.80	U	3.80	25.0	ug/L
79-01-6	Trichloroethene	3.90	U	3.90	25.0	ug/L
78-87-5	1,2-Dichloropropane	3.30	U	3.30	25.0	ug/L
75-27-4	Bromodichloromethane	4.10	U	4.10	25.0	ug/L
108-88-3	Toluene	3.60	U	3.60	25.0	ug/L
10061-02-6	t-1,3-Dichloropropene	4.00	U	4.00	25.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	4.20	U	4.20	25.0	ug/L
79-00-5	1,1,2-Trichloroethane	3.40	U	3.40	25.0	ug/L
110-75-8	2-Chloroethyl vinyl ether	28.2	U	28.2	130	ug/L
124-48-1	Dibromochloromethane	3.60	U	3.60	25.0	ug/L
127-18-4	Tetrachloroethene	4.70	U	4.70	25.0	ug/L
108-90-7	Chlorobenzene	3.40	U	3.40	25.0	ug/L
100-41-4	Ethyl Benzene	3.70	U	3.70	25.0	ug/L
179601-23-1	m/p-Xylenes	8.60	U	8.60	50.0	ug/L
95-47-6	o-Xylene	4.10	U	4.10	25.0	ug/L

Raw Data: **VN085425.D**

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Report of Analysis

Client:	Ardmore Chemical	Date Collected:	01/10/25
Project:	PVSC Monthly 2025	Date Received:	01/10/25
Client Sample ID:	EFF-WASTE WATER	SDG No.:	Q1066
Lab Sample ID:	Q1066-01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-PP
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085425.D	5		01/10/25 14:08	VN011025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
75-25-2	Bromoform	5.00	U	5.00	25.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	3.00	U	3.00	25.0	ug/L
541-73-1	1,3-Dichlorobenzene	4.40	U	4.40	25.0	ug/L
106-46-7	1,4-Dichlorobenzene	4.80	U	4.80	25.0	ug/L
95-50-1	1,2-Dichlorobenzene	4.40	U	4.40	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.6		91 - 110	99%	SPK: 30
2037-26-5	Toluene-d8	28.2		91 - 112	94%	SPK: 30
460-00-4	4-Bromofluorobenzene	24.4		63 - 112	81%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	30900	7.812			
540-36-3	1,4-Difluorobenzene	153000	9.1			
3114-55-4	Chlorobenzene-d5	139000	11.865			

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\VN011025\
Data File : VN085425.D
Acq On : 10 Jan 2025 14:08
Operator : JC\MD
Sample : Q1066-01 5X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE WATER

Quant Time: Jan 10 22:48:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
Response via : Initial Calibration

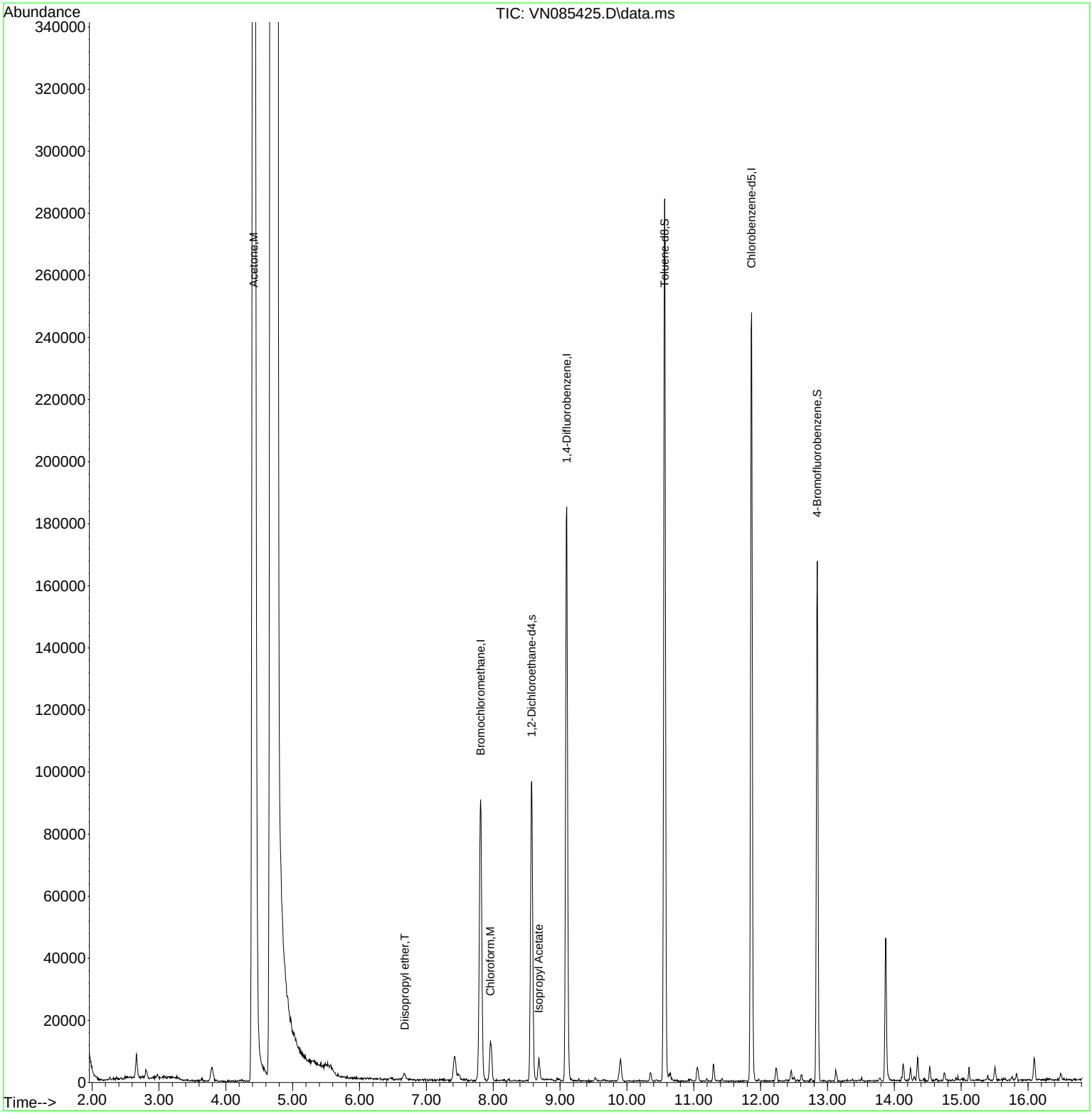
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.812	128	30932	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	152538	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	138971	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	80452	29.566	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 98.567%			
60) 4-Bromofluorobenzene	12.847	95	54938	24.405	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 81.333%			
63) Toluene-d8	10.565	98	191449	28.213	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 94.033%			
Target Compounds						Qvalue
15) Acetone	4.418	58	491967	1766.985	ug/l	91
20) Diisopropyl ether	6.677	45	2887m	0.408	ug/l	
25) Chloroform	7.959	83	12429	2.961	ug/l	95
44) Isopropyl Acetate	8.683	43	8101	1.687	ug/l #	81

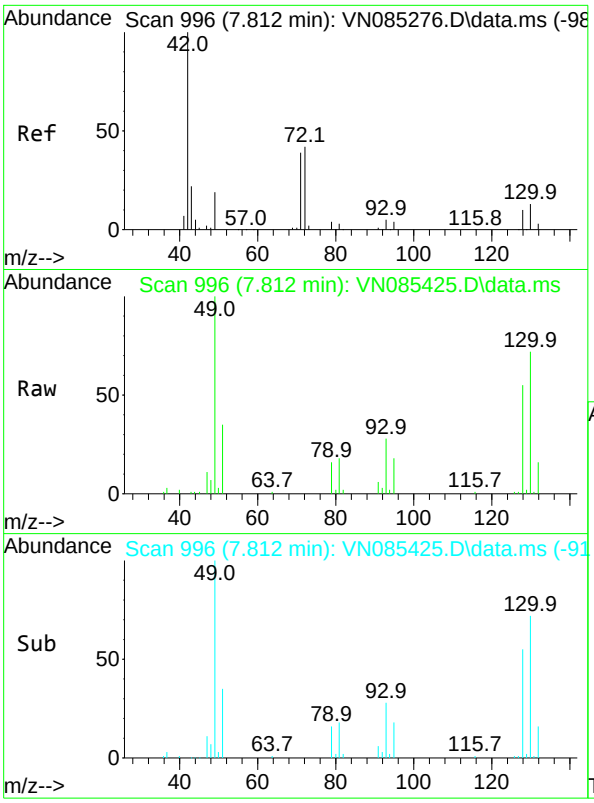
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011025\
Data File : VN085425.D
Acq On : 10 Jan 2025 14:08
Operator : JC\MD
Sample : Q1066-01 5X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE WATER

Quant Time: Jan 10 22:48:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
Response via : Initial Calibration



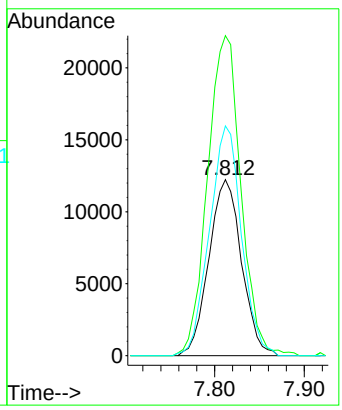


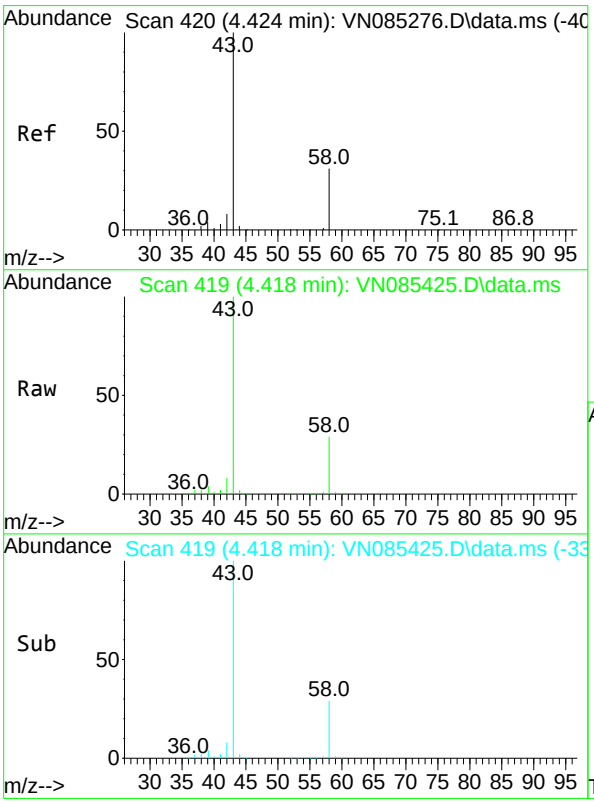
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN085425.D
Acq: 10 Jan 2025 14:08

Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE WATER

Tgt Ion:128 Resp: 30932

Ion	Ratio	Lower	Upper
128	100		
49	184.0	0.0	497.8
130	128.0	0.0	328.5

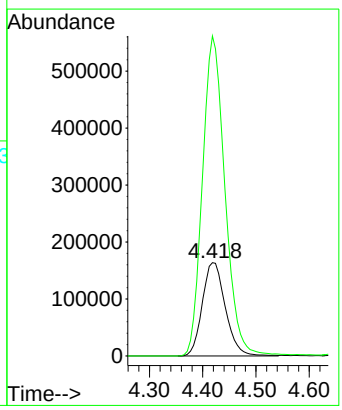


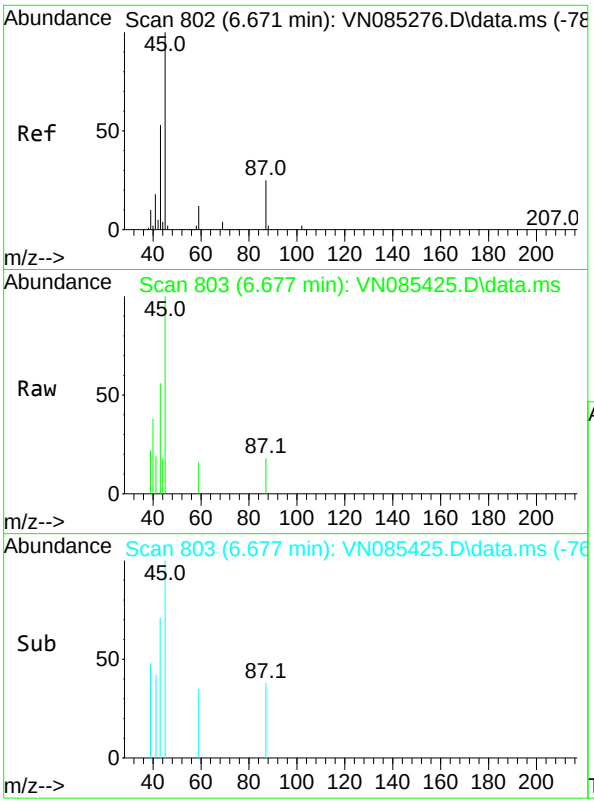


#15
Acetone
Concen: 1766.985 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.012 min
Lab File: VN085425.D
Acq: 10 Jan 2025 14:08

Tgt Ion: 58 Resp: 491967

Ion	Ratio	Lower	Upper
58	100		
43	342.7	258.8	388.2



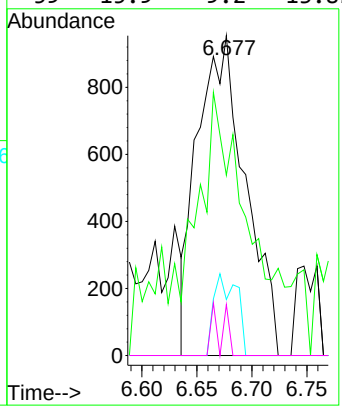


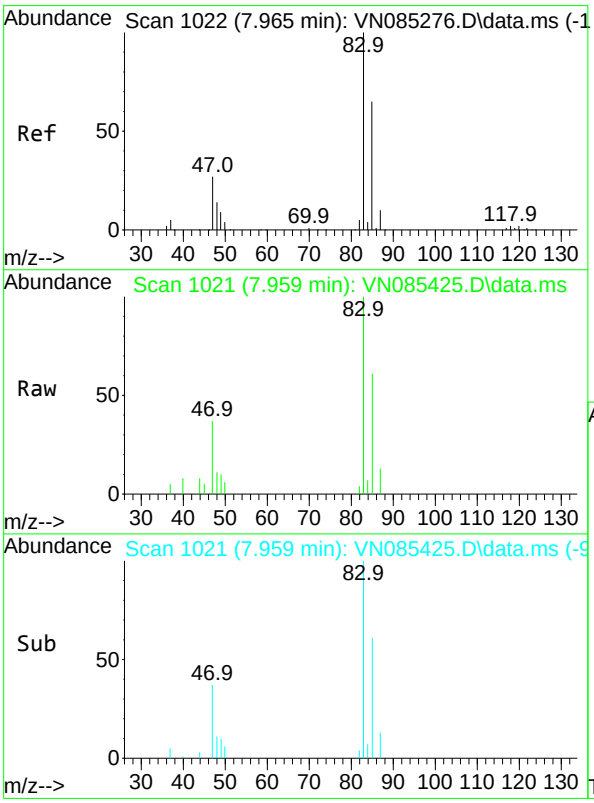
#20
Diisopropyl ether
Concen: 0.408 ug/l m
RT: 6.677 min Scan# 8
Delta R.T. 0.006 min
Lab File: VN085425.D
Acq: 10 Jan 2025 14:08

Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE WATER

Tgt Ion: 45 Resp: 2887

Ion	Ratio	Lower	Upper
45	100		
43	56.4	46.6	69.8
87	17.5	22.3	33.5#
59	15.9	9.2	13.8#

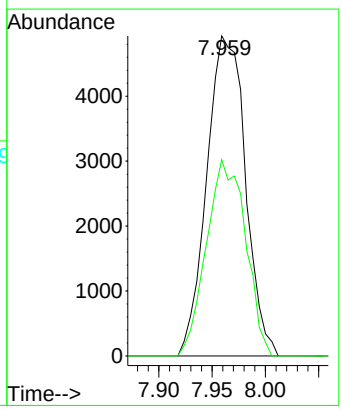


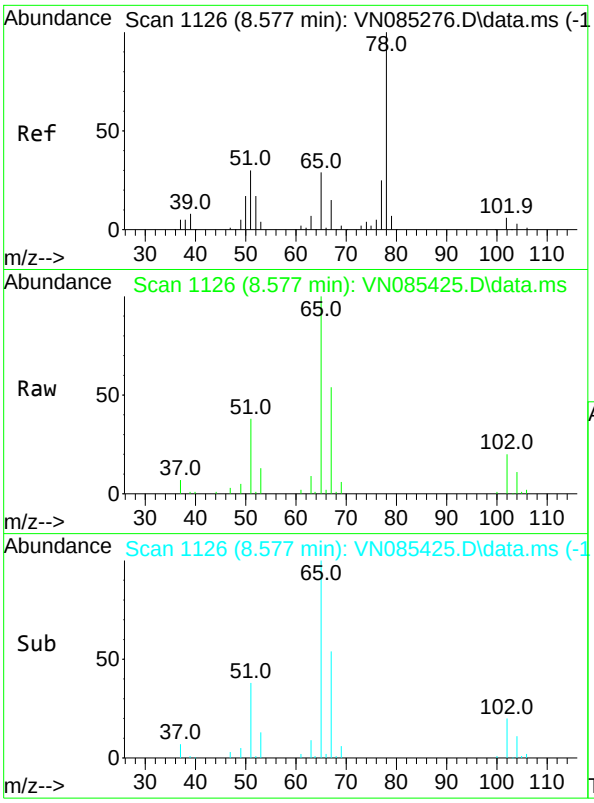


#25
Chloroform
Concen: 2.961 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. -0.006 min
Lab File: VN085425.D
Acq: 10 Jan 2025 14:08

Tgt Ion: 83 Resp: 12429

Ion	Ratio	Lower	Upper
83	100		
85	61.3	52.0	78.0



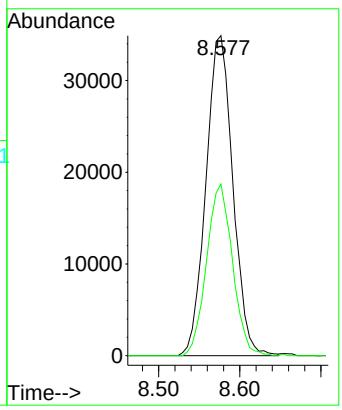


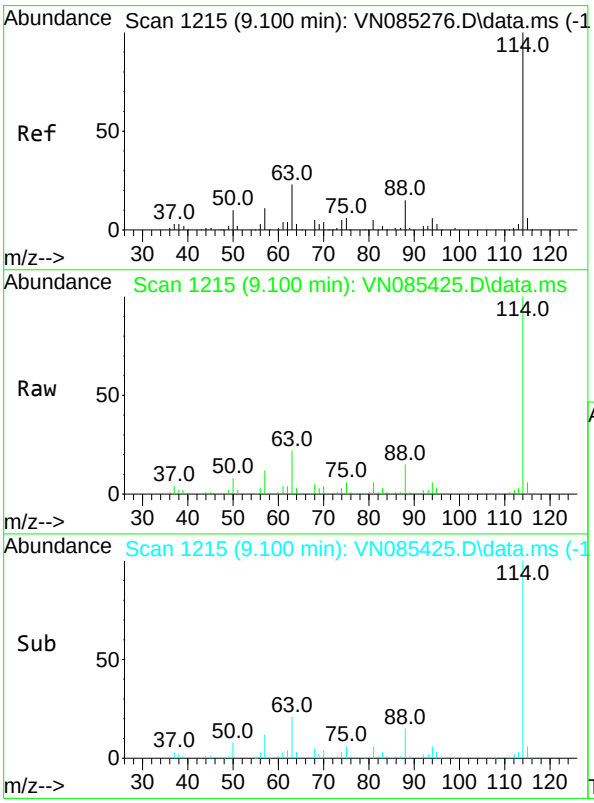
#27
1,2-Dichloroethane-d4
Concen: 29.566 ug/l
RT: 8.577 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085425.D
Acq: 10 Jan 2025 14:08

Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE WATER

Tgt Ion: 65 Resp: 80452

Ion	Ratio	Lower	Upper
65	100		
67	51.6	42.0	63.0

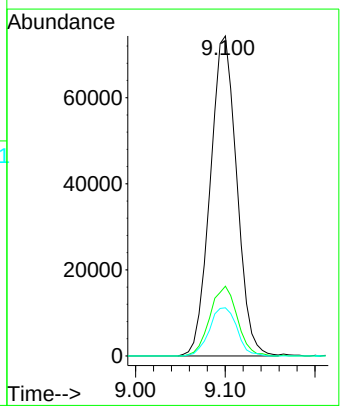


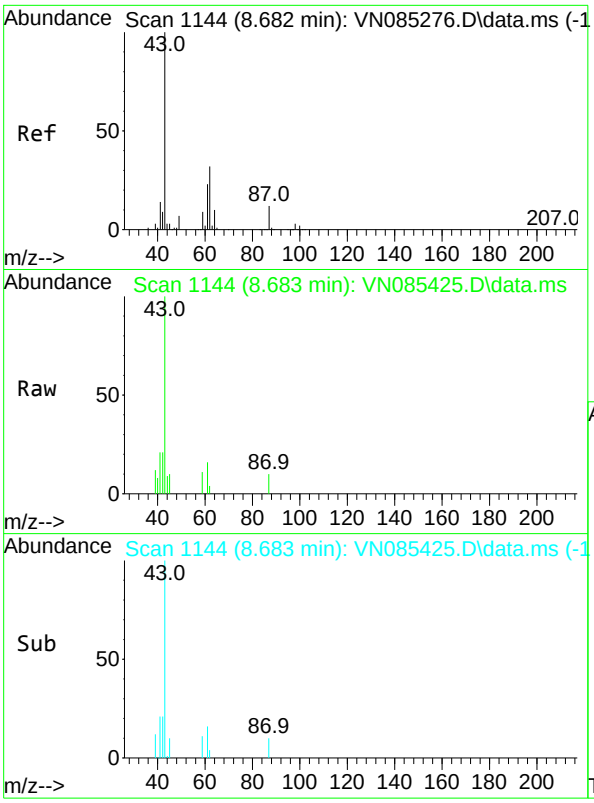


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN085425.D
Acq: 10 Jan 2025 14:08

Tgt Ion:114 Resp: 152538

Ion	Ratio	Lower	Upper
114	100		
63	22.4	18.0	27.0
88	15.7	12.9	19.3



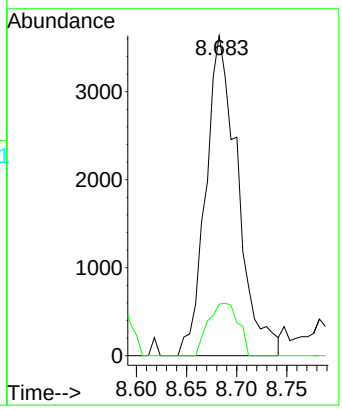


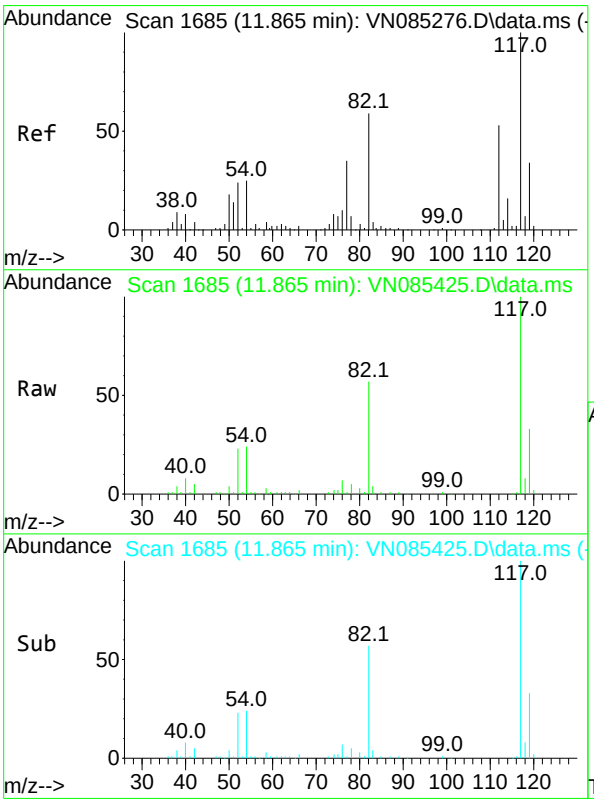
#44
Isopropyl Acetate
Concen: 1.687 ug/l
RT: 8.683 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN085425.D
Acq: 10 Jan 2025 14:08

Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE WATER

Tgt Ion: 43 Resp: 8101

Ion	Ratio	Lower	Upper
43	100		
61	15.4	19.7	29.5#

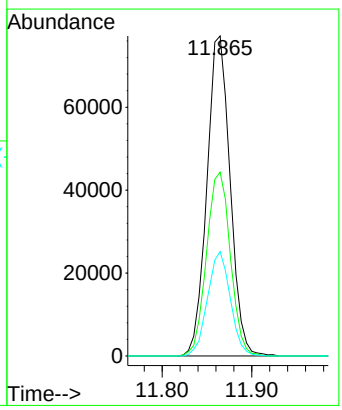


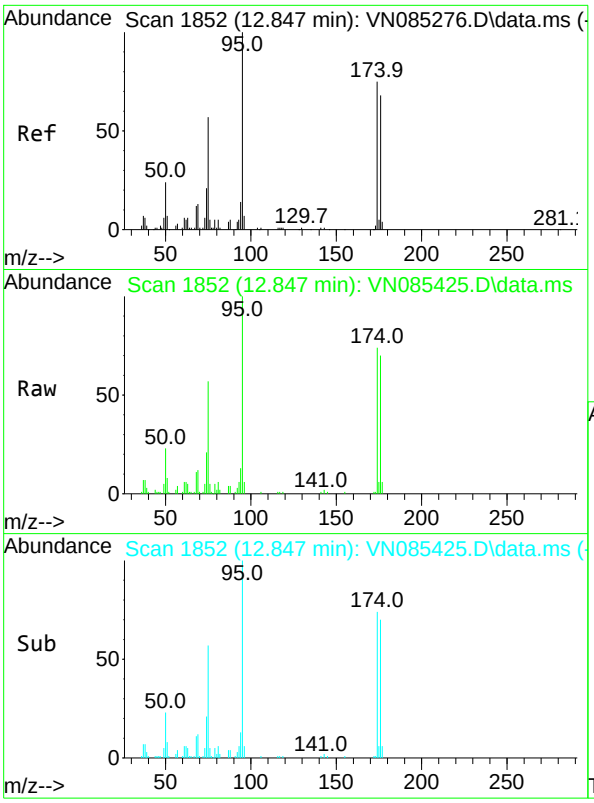


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN085425.D
Acq: 10 Jan 2025 14:08

Tgt Ion:117 Resp: 138971

Ion	Ratio	Lower	Upper
117	100		
82	58.9	47.4	71.0
119	32.0	25.3	37.9



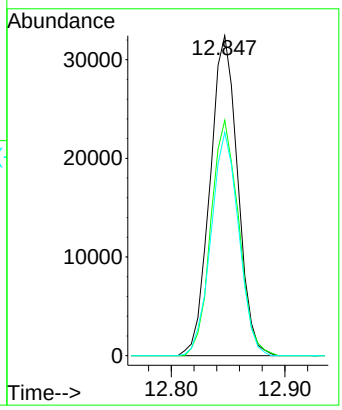


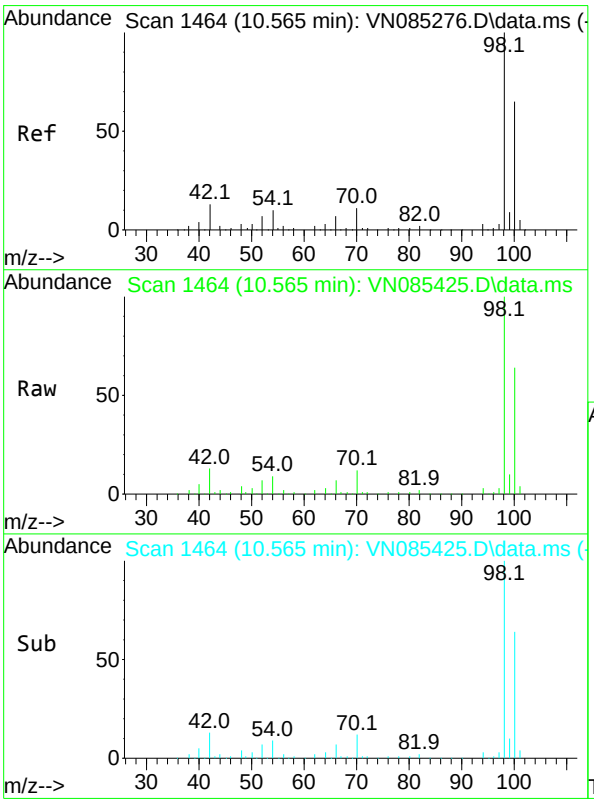
#60
4-Bromofluorobenzene
Concen: 24.405 ug/l
RT: 12.847 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085425.D
Acq: 10 Jan 2025 14:08

Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE WATER

Tgt Ion: 95 Resp: 54938

Ion	Ratio	Lower	Upper
95	100		
174	73.5	57.8	86.8
176	69.6	57.1	85.7

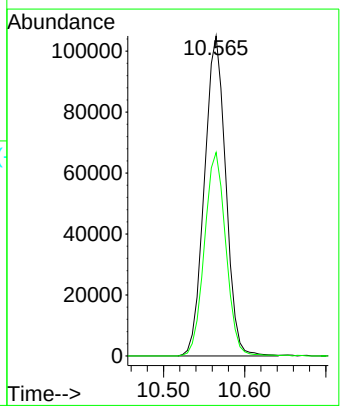




#63
Toluene-d8
Concen: 28.213 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085425.D
Acq: 10 Jan 2025 14:08

Tgt Ion: 98 Resp: 191449

Ion	Ratio	Lower	Upper
98	100		
100	63.5	50.8	76.2



CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ARDM01

Lab Code: CHEM Case No.: Q1066 SAS No.: Q1066 SDG No.: Q1066

Instrument ID: MSVOA_N Calibration Date(s): 12/20/2024 12/20/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:05 11:42

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

LAB FILE ID: RRF005 = VN085272.D RRF020 = VN085273.D RRF050 = VN085274.D
RRF100 = VN085275.D RRF150 = VN085276.D RRF =

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	$\overline{RRF}$	% RSD
Chloromethane	2.717	2.623	2.537	2.356	2.430		2.533	5.7
Vinyl Chloride	2.739	2.617	2.511	2.443	2.548		2.572	4.4
Bromomethane	1.684	1.486	1.447	1.406	1.495		1.503	7.1
Chloroethane	1.819	1.683	1.574	1.486	1.555		1.623	8
Trichlorofluoromethane	3.660	3.639	3.515	3.359	3.492		3.533	3.5
1,1-Dichloroethene	1.861	1.828	1.825	1.812	1.940		1.853	2.8
Acrolein	0.327	0.221	0.221	0.212	0.255		0.247	19.4
Acrylonitrile	0.962	1.074	1.078	1.080	1.158		1.070	6.5
Methylene Chloride	2.390	2.246	2.145	2.069	2.193		2.208	5.4
trans-1,2-Dichloroethene	1.886	1.924	1.933	1.885	2.011		1.928	2.7
1,1-Dichloroethane	4.112	4.091	3.945	3.848	4.088		4.017	2.9
Carbon Tetrachloride	0.643	0.605	0.581	0.573	0.561		0.593	5.5
Chloroform	4.294	4.193	3.985	3.831	4.055		4.072	4.4
1,1,1-Trichloroethane	0.743	0.695	0.657	0.649	0.641		0.677	6.3
Benzene	1.746	1.700	1.610	1.606	1.570		1.646	4.5
1,2-Dichloroethane	0.669	0.610	0.577	0.568	0.553		0.595	7.7
Trichloroethene	0.383	0.368	0.354	0.353	0.352		0.362	3.7
1,2-Dichloropropane	0.441	0.431	0.413	0.405	0.404		0.419	3.9
Bromodichloromethane	0.645	0.633	0.595	0.592	0.587		0.610	4.4
Toluene	1.976	1.904	1.792	1.773	1.770		1.843	5
t-1,3-Dichloropropene	0.583	0.595	0.604	0.614	0.619		0.603	2.4
cis-1,3-Dichloropropene	0.647	0.645	0.644	0.655	0.650		0.648	0.7
1,1,2-Trichloroethane	0.421	0.402	0.367	0.365	0.355		0.382	7.4
2-Chloroethyl vinyl ether	0.283	0.293	0.300	0.297	0.315		0.298	4
Dibromochloromethane	0.475	0.466	0.437	0.431	0.429		0.448	4.8
Tetrachloroethene	0.387	0.344	0.324	0.310	0.310		0.335	9.6
Chlorobenzene	1.163	1.131	1.095	1.080	1.089		1.112	3.1
Ethyl Benzene	1.810	1.922	1.957	2.001	2.007		1.939	4.1
m/p-Xylenes	0.658	0.752	0.748	0.743	0.737		0.728	5.4
o-Xylene	0.645	0.695	0.705	0.714	0.706		0.693	4

* 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: ARDM01

Lab Code: CHEM Case No.: Q1066 SAS No.: Q1066 SDG No.: Q1066

Instrument ID: MSVOA_N Calibration Date(s): 12/20/2024 12/20/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:05 11:42

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

LAB FILE ID: RRF005 = VN085272.D RRF020 = VN085273.D RRF050 = VN085274.D
RRF100 = VN085275.D RRF150 = VN085276.D RRF =

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	$\overline{RRF}$	% RSD
Bromoform	0.304	0.294	0.284	0.291	0.288		0.292	2.6
1,1,2,2-Tetrachloroethane	0.698	0.626	0.594	0.586	0.583		0.617	7.8
1,3-Dichlorobenzene	0.775	0.818	0.808	0.810	0.798		0.802	2.1
1,4-Dichlorobenzene	0.741	0.754	0.794	0.791	0.798		0.776	3.4
1,2-Dichlorobenzene	0.730	0.768	0.784	0.766	0.760		0.762	2.6
1,2-Dichloroethane-d4	2.636	2.656	2.614	2.597	2.692		2.639	1.4
Toluene-d8	1.528	1.510	1.446	1.411	1.430		1.465	3.5
4-Bromofluorobenzene	0.468	0.488	0.484	0.489	0.501		0.486	2.5

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

Response Factor Report MSVOA_N_NEW

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 624N122024W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Sat Dec 21 02:03:07 2024
Response Via : Initial Calibration

Calibration Files
5 =VN085272.D 20 =VN085273.D 50 =VN085274.D 100 =VN085275.D 150 =VN085276.D

		Compound	5	20	50	100	150	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------						
2)	M	Dichlorodifluoro...	2.400	2.651	2.538	2.398	2.555	2.508	4.33
3)	M	Chloromethane	2.717	2.623	2.537	2.356	2.430	2.533	5.72
4)	M	Vinyl Chloride	2.739	2.617	2.511	2.443	2.548	2.572	4.38
5)	M	Bromomethane	1.684	1.486	1.447	1.406	1.495	1.503	7.12
6)	M	Chloroethane	1.819	1.683	1.574	1.486	1.555	1.623	8.01
7)	M	Trichlorofluorom...	3.660	3.639	3.515	3.359	3.492	3.533	3.45
8)	T	Diethyl Ether	1.187	1.178	1.211	1.214	1.293	1.217	3.75
9)		1,1,2-Trichlorot...	2.102	2.090	1.976	1.943	2.033	2.029	3.42
10)	M	1,1-Dichloroethene	1.861	1.828	1.825	1.812	1.940	1.853	2.80
11)		Methyl Iodide	1.796	2.134	2.294	2.348	2.534	2.221	12.47
12)		Methyl Acetate	2.533	2.813	2.754	2.736	3.003	2.768	6.09
13)	M	Acrolein	0.327	0.221	0.221	0.212	0.255	0.247	19.38
14)	M	Acrylonitrile	0.962	1.074	1.078	1.080	1.158	1.070	6.53
15)	M	Acetone	0.271	0.275	0.263	0.262	0.279	0.270	2.80
16)	M	Carbon Disulfide	5.982	5.697	5.501	5.326	5.663	5.634	4.34
17)		Allyl chloride	2.801	2.937	3.000	2.997	3.255	2.998	5.49
18)	M	Methylene Chloride	2.390	2.246	2.145	2.069	2.193	2.208	5.45
19)	M	trans-1,2-Dichlo...	1.886	1.924	1.933	1.885	2.011	1.928	2.66
20)	T	Diisopropyl ether	6.232	7.037	6.941	6.842	7.302	6.871	5.76
21)	M	1,1-Dichloroethane	4.112	4.091	3.945	3.848	4.088	4.017	2.88
22)	M	cis-1,2-Dichloro...	2.237	2.285	2.270	2.289	2.396	2.295	2.61
23)	M	tert-Butyl Alcohol	0.310	0.337	0.354	0.368	0.396	0.353	9.20
24)	M	Methyl tert-Buty...	5.238	6.026	6.157	6.242	6.753	6.083	8.99
25)	M	Chloroform	4.294	4.193	3.985	3.831	4.055	4.072	4.43
26)		Cyclohexane	2.588	3.018	3.154	3.187	3.367	3.063	9.57
27)	s	1,2-Dichloroetha...	2.636	2.656	2.614	2.597	2.692	2.639	1.41
28)	I	1,4-Difluorobenzene	----------ISTD----------						
29)		1,1-Dichloropropene	0.512	0.528	0.518	0.529	0.518	0.521	1.41
30)	M	2-Butanone	0.258	0.280	0.275	0.282	0.279	0.275	3.51
31)		2,2-Dichloropropane	0.688	0.678	0.647	0.648	0.639	0.660	3.31
32)	M	1,1,1-Trichloroe...	0.743	0.695	0.657	0.649	0.641	0.677	6.25
33)	M	Carbon Tetrachlo...	0.643	0.605	0.581	0.573	0.561	0.593	5.47
34)	M	Benzene	1.746	1.700	1.610	1.606	1.570	1.646	4.47
35)		Methacrylonitrile	0.296	0.307	0.300	0.307	0.311	0.304	1.94
36)	M	1,2-Dichloroethane	0.669	0.610	0.577	0.568	0.553	0.595	7.73
37)	M	Trichloroethene	0.383	0.368	0.354	0.353	0.352	0.362	3.72
38)		Methylcyclohexane	0.495	0.500	0.547	0.582	0.571	0.539	7.46
39)	M	1,2-Dichloropropane	0.441	0.431	0.413	0.405	0.404	0.419	3.94
40)		Dibromomethane	0.318	0.299	0.287	0.281	0.276	0.292	5.76
41)	M	Bromodichloromet...	0.645	0.633	0.595	0.592	0.587	0.610	4.38
42)	M	Vinyl Acetate	0.845	0.964	0.995	1.025	1.025	0.971	7.69
43)		Ethyl Acetate	0.564	0.558	0.567	0.581	0.573	0.569	1.59
44)		Isopropyl Acetate	0.920	0.950	0.929	0.966	0.958	0.945	2.08
45)	T	1,4-Dioxane	0.007	0.007	0.008	0.008	0.007	0.007	5.72
46)		Methyl methacrylate	0.385	0.441	0.449	0.460	0.457	0.438	7.00
47)		n-amyl Acetate	0.647	0.787	0.819	0.877	0.893	0.805	12.18
48)	M	t-1,3-Dichloropr...	0.583	0.595	0.604	0.614	0.619	0.603	2.39
49)	T	cis-1,3-Dichloro...	0.647	0.645	0.644	0.655	0.650	0.648	0.74
50)	M	1,1,2-Trichloroe...	0.421	0.402	0.367	0.365	0.355	0.382	7.39
51)		Ethyl methacrylate	0.464	0.555	0.596	0.631	0.641	0.578	12.43
52)		1,3-Dichloropropane	0.678	0.694	0.659	0.662	0.641	0.667	3.01
53)	M	Dibromochloromet...	0.475	0.466	0.437	0.431	0.429	0.448	4.81
54)	M	1,2-Dibromoethane	0.375	0.376	0.364	0.369	0.364	0.370	1.56
55)	M	2-Chloroethyl vi...	0.283	0.293	0.300	0.297	0.315	0.298	3.96
56)	M	Bromoform	0.304	0.294	0.284	0.291	0.288	0.292	2.56

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 624N122024W.M

57)	I	Chlorobenzene-d5	----------ISTD----------						
58)	M	4-Methyl-2-Penta...	0.568	0.637	0.612	0.608	0.616	0.608	4.11
59)	M	2-Hexanone	0.392	0.459	0.451	0.452	0.455	0.442	6.29
60)	S	4-Bromofluoroben...	0.468	0.488	0.484	0.489	0.501	0.486	2.49
61)	M	Tetrachloroethene	0.387	0.344	0.324	0.310	0.310	0.335	9.63
62)	M	Toluene	1.976	1.904	1.792	1.773	1.770	1.843	5.02
63)	S	Toluene-d8	1.528	1.510	1.446	1.411	1.430	1.465	3.51
64)	M	Chlorobenzene	1.163	1.131	1.095	1.080	1.089	1.112	3.13
65)		1,1,1,2-Tetrachl...	0.434	0.420	0.393	0.385	0.384	0.403	5.59
66)	M	Ethyl Benzene	1.810	1.922	1.957	2.001	2.007	1.939	4.12
67)	M	m/p-Xylenes	0.658	0.752	0.748	0.743	0.737	0.728	5.40
68)	M	o-Xylene	0.645	0.695	0.705	0.714	0.706	0.693	4.03
69)	M	Styrene	0.978	1.193	1.232	1.227	1.225	1.171	9.31
70)		Isopropylbenzene	1.500	1.731	1.802	1.822	1.846	1.740	8.11
71)	M	1,1,2,2-Tetrachl...	0.698	0.626	0.594	0.586	0.583	0.617	7.84
72)		1,2,3-Trichlorop...	0.611	0.505	0.558	0.480	0.473	0.525	11.11
73)		Bromobenzene	0.422	0.444	0.432	0.426	0.425	0.430	2.04
74)		n-propylbenzene	1.954	2.178	2.211	2.249	2.248	2.168	5.68
75)		2-Chlorotoluene	1.208	1.315	1.329	1.346	1.333	1.306	4.30
76)		1,3,5-Trimethylb...	1.270	1.515	1.555	1.556	1.529	1.485	8.18
77)		t-1,4-Dichloro-2...	0.189	0.201	0.216	0.228	0.240	0.215	9.39
78)		4-Chlorotoluene	1.236	1.330	1.355	1.362	1.356	1.328	3.98
79)		tert-butylbenzene	1.058	1.174	1.266	1.288	1.285	1.214	8.15
80)		1,2,4-Trimethylb...	1.223	1.494	1.555	1.569	1.549	1.478	9.84
81)		sec-Butylbenzene	1.509	1.713	1.826	1.858	1.858	1.753	8.48
82)		p-Isopropyltoluene	1.196	1.376	1.521	1.561	1.565	1.444	10.96
83)	M	1,3-Dichlorobenzene	0.775	0.818	0.808	0.810	0.798	0.802	2.08
84)	M	1,4-Dichlorobenzene	0.741	0.754	0.794	0.791	0.798	0.776	3.36
85)		n-Butylbenzene	0.997	1.149	1.290	1.387	1.410	1.247	13.90
86)	T	Hexachloroethane	0.313	0.318	0.305	0.306	0.308	0.310	1.76
87)	M	1,2-Dichlorobenzene	0.730	0.768	0.784	0.766	0.760	0.762	2.61
88)		1,2-Dibromo-3-Ch...	0.101	0.112	0.115	0.116	0.120	0.113	6.08
89)		1,2,4-Trichlorob...	0.303	0.344	0.373	0.383	0.402	0.361	10.66
90)		Hexachlorobutadiene	0.202	0.179	0.174	0.174	0.172	0.180	6.87
91)	M	Naphthalene	0.790	1.044	1.199	1.333	1.431	1.159	21.79
92)		1,2,3-Trichlorob...	0.303	0.344	0.373	0.383	0.402	0.361	10.66

(#) = Out of Range

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085272.D
Acq On : 20 Dec 2024 10:05
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Quant Time: Dec 21 01:40:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 01:29:00 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.818	128	29925	30.000	ug/l		0.00
28) 1,4-Difluorobenzene	9.100	114	147950	30.000	ug/l		0.00
57) Chlorobenzene-d5	11.865	117	134950	30.000	ug/l		0.00
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.571	65	78890	29.968	ug/l		0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 99.900%				
60) 4-Bromofluorobenzene	12.847	95	63148	28.888	ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.300%				
63) Toluene-d8	10.565	98	206247	31.299	ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 104.333%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	11972	4.785	ug/l		93
3) Chloromethane	2.360	50	13552	5.364	ug/l		96
4) Vinyl Chloride	2.513	62	13662	5.326	ug/l		92
5) Bromomethane	2.954	94	8400	5.602	ug/l		99
6) Chloroethane	3.118	64	9071	5.602	ug/l		97
7) Trichlorofluoromethane	3.501	101	18255	5.180	ug/l		93
8) Diethyl Ether	3.960	74	5921	4.878	ug/l		98
9) 1,1,2-Trichlorotrifluo...	4.365	101	10482	5.180	ug/l		91
10) 1,1-Dichloroethene	4.336	96	9284m	5.022	ug/l		
11) Methyl Iodide	4.589	142	8960	4.044	ug/l		90
12) Methyl Acetate	5.012	43	12634m	4.580	ug/l		
13) Acrolein	4.177	56	8162	33.117	ug/l	#	63
14) Acrylonitrile	5.724	53	23999	22.475	ug/l		99
15) Acetone	4.436	58	6761m	25.100	ug/l		
16) Carbon Disulfide	4.707	76	29834	5.309	ug/l		96
17) Allyl chloride	5.024	41	13971	4.672	ug/l		89
18) Methylene Chloride	5.277	84	11918	5.410	ug/l		89
19) trans-1,2-Dichloroethene	5.789	96	9407	4.892	ug/l	#	76
20) Diisopropyl ether	6.665	45	31084	4.535	ug/l	#	93
21) 1,1-Dichloroethane	6.571	63	20511	5.119	ug/l	#	89
22) cis-1,2-Dichloroethene	7.483	96	11156	4.872	ug/l		100
23) tert-Butyl Alcohol	5.518	59	7725m	21.952	ug/l		
24) Methyl tert-Butyl Ether	5.795	73	26125	4.305	ug/l	#	66
25) Chloroform	7.965	83	21418	5.273	ug/l		98
26) Cyclohexane	8.253	56	12906	4.225	ug/l	#	97
29) 1,1-Dichloropropene	8.365	75	12620	4.913	ug/l	#	62
30) 2-Butanone	7.477	43	31835	23.479	ug/l	#	63
31) 2,2-Dichloropropane	7.489	77	16976	5.215	ug/l		99
32) 1,1,1-Trichloroethane	8.165	97	18325	5.488	ug/l		99
33) Carbon Tetrachloride	8.359	117	15855	5.424	ug/l		84
34) Benzene	8.606	78	43060	5.303	ug/l		93
35) Methacrylonitrile	7.783	41	7309m	4.869	ug/l		
36) 1,2-Dichloroethane	8.665	62	16492	5.617	ug/l		98
37) Trichloroethene	9.347	130	9449	5.289	ug/l		99
38) Methylcyclohexane	9.600	83	12207	4.592	ug/l		99
39) 1,2-Dichloropropane	9.624	63	10877	5.265	ug/l		94
40) Dibromomethane	9.706	93	7832	5.438	ug/l		99
41) Bromodichloromethane	9.883	83	15902	5.283	ug/l		99
42) Vinyl Acetate	6.601	43	104153	21.761	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085272.D
Acq On : 20 Dec 2024 10:05
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Quant Time: Dec 21 01:40:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 01:29:00 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) Ethyl Acetate	7.559	43	13903	4.958	ug/l		98
44) Isopropyl Acetate	8.683	43	22675	4.868	ug/l		95
45) 1,4-Dioxane	9.700	88	3355	92.601	ug/l	#	83
46) Methyl methacrylate	9.677	41	9500	4.394	ug/l		91
47) n-amyl Acetate	12.494	43	15955	4.021	ug/l		95
48) t-1,3-Dichloropropene	10.830	75	14385	4.838	ug/l		95
49) cis-1,3-Dichloropropene	10.306	75	15948	4.989	ug/l		93
50) 1,1,2-Trichloroethane	11.012	97	10385	5.513	ug/l		89
51) Ethyl methacrylate	10.871	69	11450	4.019	ug/l		87
52) 1,3-Dichloropropane	11.159	76	16708	5.081	ug/l		97
53) Dibromochloromethane	11.359	129	11724	5.312	ug/l		98
54) 1,2-Dibromoethane	11.465	107	9241	5.069	ug/l		98
55) 2-Chloroethyl vinyl ether	10.159	63	34874	23.763	ug/l		99
56) Bromoform	12.577	173	7486	5.199	ug/l	#	92
58) 4-Methyl-2-Pentanone	10.442	43	63871	23.347	ug/l		99
59) 2-Hexanone	11.194	43	44133	22.206	ug/l		95
61) Tetrachloroethene	11.106	164	8697	5.773	ug/l		86
62) Toluene	10.624	91	44448	5.361	ug/l		99
64) Chlorobenzene	11.888	112	26160	5.232	ug/l		98
65) 1,1,1,2-Tetrachloroethane	11.959	131	9761	5.383	ug/l		96
66) Ethyl Benzene	11.959	91	40717	4.667	ug/l		97
67) m/p-Xylenes	12.071	106	29599	9.044	ug/l		99
68) o-Xylene	12.394	106	14496	4.650	ug/l		96
69) Styrene	12.412	104	21997	4.175	ug/l		95
70) Isopropylbenzene	12.694	105	33727	4.309	ug/l		99
71) 1,1,2,2-Tetrachloroethane	12.935	83	15703	5.656	ug/l		94
72) 1,2,3-Trichloropropane	12.994	75	13741m	5.523	ug/l		
73) Bromobenzene	12.977	156	9490	4.907	ug/l		93
74) n-propylbenzene	13.035	91	43948	4.507	ug/l		98
75) 2-Chlorotoluene	13.124	91	27159	4.623	ug/l		99
76) 1,3,5-Trimethylbenzene	13.171	105	28562	4.276	ug/l		99
77) t-1,4-Dichloro-2-butene	12.730	75	4250	4.401	ug/l		93
78) 4-Chlorotoluene	13.218	91	27799	4.654	ug/l		100
79) tert-butylbenzene	13.435	119	23802	4.357	ug/l		98
80) 1,2,4-Trimethylbenzene	13.482	105	27501	4.138	ug/l		95
81) sec-Butylbenzene	13.612	105	33950	4.305	ug/l		98
82) p-Isopropyltoluene	13.730	119	26904	4.142	ug/l		98
83) 1,3-Dichlorobenzene	13.730	146	17432	4.833	ug/l		98
84) 1,4-Dichlorobenzene	13.812	146	16668	4.777	ug/l		98
85) n-Butylbenzene	14.053	91	22425	3.999	ug/l		97
86) Hexachloroethane	14.329	117	7051	5.057	ug/l		99
87) 1,2-Dichlorobenzene	14.106	146	16417	4.791	ug/l		99
88) 1,2-Dibromo-3-Chloropr...	14.724	75	2281m	4.501	ug/l		
89) 1,2,4-Trichlorobenzene	15.841	180	6811	4.196	ug/l		96
90) Hexachlorobutadiene	15.500	225	4533	5.602	ug/l		97
91) Naphthalene	15.641	128	17764	3.406	ug/l		98
92) 1,2,3-Trichlorobenzene	15.841	180	6811	4.196	ug/l		96

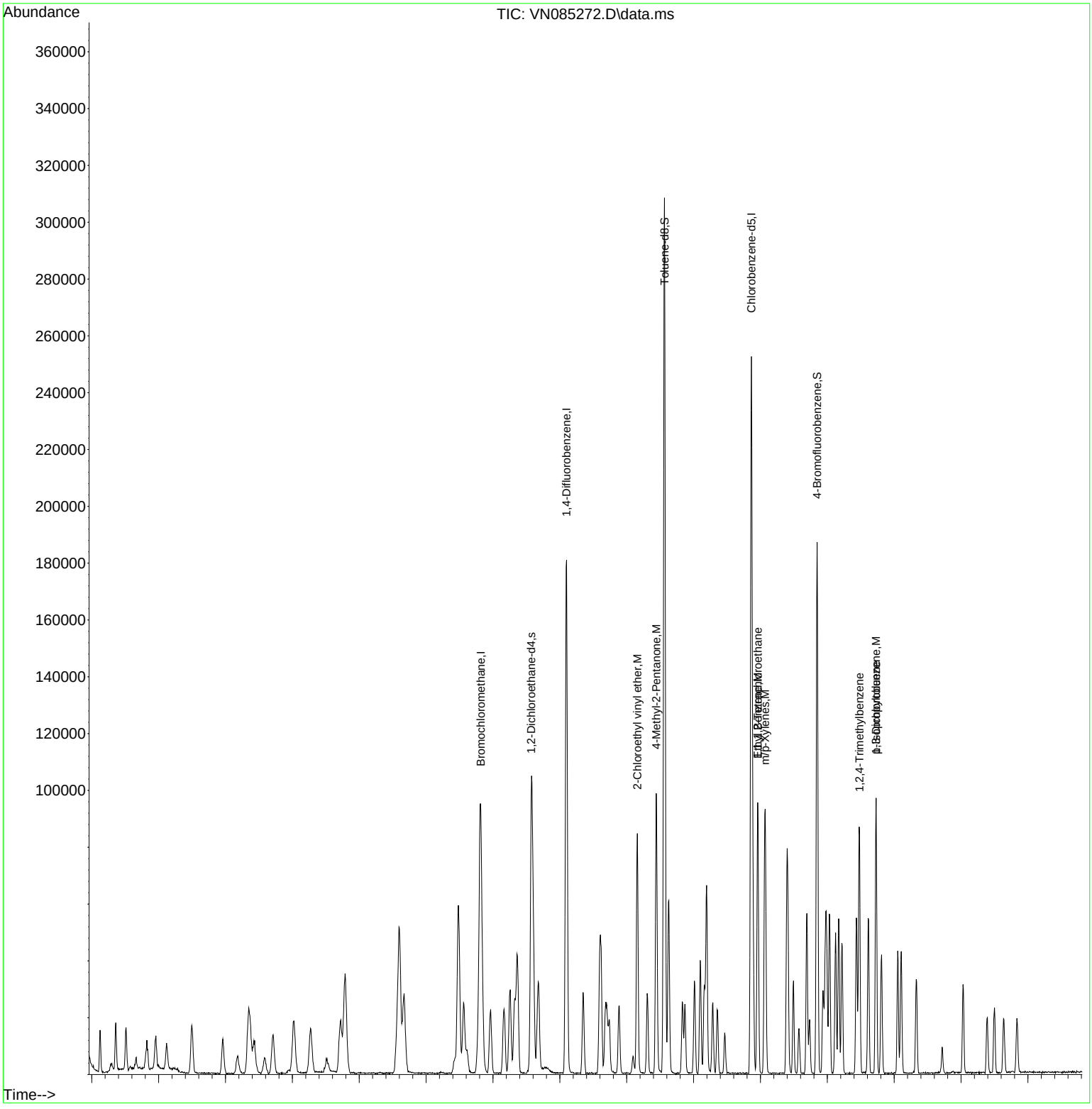
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085272.D
Acq On : 20 Dec 2024 10:05
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Quant Time: Dec 21 01:40:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 01:29:00 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085273.D
Acq On : 20 Dec 2024 10:29
Operator : JC\MD
Sample : VSTDICCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Quant Time: Dec 21 01:54:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 01:51:00 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.812	128	29576	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	153203	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	143051	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	78544	30.189	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.633%			
60) 4-Bromofluorobenzene	12.847	95	69746	30.099	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.333%			
63) Toluene-d8	10.565	98	215956	30.916	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.067%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	52267	21.135	ug/l	100
3) Chloromethane	2.359	50	51713	20.711	ug/l	100
4) Vinyl Chloride	2.512	62	51594	20.351	ug/l	100
5) Bromomethane	2.959	94	29293	19.765	ug/l	100
6) Chloroethane	3.118	64	33189	20.738	ug/l	100
7) Trichlorofluoromethane	3.500	101	71742	20.598	ug/l	100
8) Diethyl Ether	3.959	74	23223	19.360	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	41211	20.605	ug/l	100
10) 1,1-Dichloroethene	4.342	96	36049	19.730	ug/l	100
11) Methyl Iodide	4.589	142	42072	19.213	ug/l	100
12) Methyl Acetate	5.024	43	55461	20.341	ug/l	100
13) Acrolein	4.183	56	21739	89.245	ug/l	100
14) Acrylonitrile	5.718	53	105856	100.305	ug/l	100
15) Acetone	4.430	58	27144	101.962	ug/l	100
16) Carbon Disulfide	4.712	76	112335	20.226	ug/l	100
17) Allyl chloride	5.024	41	57914	19.594	ug/l	100
18) Methylene Chloride	5.271	84	44276	20.336	ug/l	100
19) trans-1,2-Dichloroethene	5.783	96	37932	19.960	ug/l	100
20) Diisopropyl ether	6.671	45	138751	20.483	ug/l	100
21) 1,1-Dichloroethane	6.565	63	80659	20.368	ug/l	100
22) cis-1,2-Dichloroethene	7.482	96	45052	19.908	ug/l	100
23) tert-Butyl Alcohol	5.518	59	33206	95.473	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	118809	19.811	ug/l	100
25) Chloroform	7.965	83	82672	20.595	ug/l	100
26) Cyclohexane	8.253	56	59501	19.707	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	53883	20.257	ug/l	100
30) 2-Butanone	7.477	43	143077	101.902	ug/l	100
31) 2,2-Dichloropropane	7.488	77	69250	20.546	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	71008	20.535	ug/l	100
33) Carbon Tetrachloride	8.359	117	61840	20.430	ug/l	100
34) Benzene	8.606	78	173626	20.650	ug/l	100
35) Methacrylonitrile	7.771	41	31344	20.166	ug/l	100
36) 1,2-Dichloroethane	8.665	62	62275	20.482	ug/l	100
37) Trichloroethene	9.347	130	37633	20.343	ug/l	100
38) Methylcyclohexane	9.600	83	51030	18.539	ug/l	100
39) 1,2-Dichloropropane	9.618	63	44023	20.579	ug/l	100
40) Dibromomethane	9.706	93	30578	20.502	ug/l	100
41) Bromodichloromethane	9.882	83	64696	20.756	ug/l	100
42) Vinyl Acetate	6.600	43	492149	99.300	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085273.D
Acq On : 20 Dec 2024 10:29
Operator : JC\MD
Sample : VSTDICCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Quant Time: Dec 21 01:54:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 01:51:00 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	56967	19.619	ug/l	100
44) Isopropyl Acetate	8.688	43	97067	20.124	ug/l	100
45) 1,4-Dioxane	9.688	88	15163	404.160	ug/l	100
46) Methyl methacrylate	9.682	41	44997	20.097	ug/l	100
47) n-amyl Acetate	12.494	43	80353	19.555	ug/l	100
48) t-1,3-Dichloropropene	10.829	75	60723	19.723	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	65832	19.889	ug/l	100
50) 1,1,2-Trichloroethane	11.012	97	41047	21.044	ug/l	100
51) Ethyl methacrylate	10.871	69	56707	19.221	ug/l	100
52) 1,3-Dichloropropane	11.159	76	70899	20.823	ug/l	100
53) Dibromochloromethane	11.359	129	47574	20.815	ug/l	100
54) 1,2-Dibromoethane	11.465	107	38439	20.363	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	149446	98.342	ug/l	100
56) Bromoform	12.576	173	30002	20.122	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	303556	104.675	ug/l	100
59) 2-Hexanone	11.194	43	219043	103.973	ug/l	100
61) Tetrachloroethene	11.100	164	32838	20.563	ug/l	100
62) Toluene	10.629	91	181570	20.660	ug/l	100
64) Chlorobenzene	11.888	112	107869	20.351	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	40031	20.825	ug/l	100
66) Ethyl Benzene	11.965	91	183288	19.821	ug/l	100
67) m/p-Xylenes	12.070	106	143364	41.324	ug/l	100
68) o-Xylene	12.394	106	66310	20.067	ug/l	100
69) Styrene	12.412	104	113798	20.377	ug/l	100
70) Isopropylbenzene	12.694	105	165058	19.892	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	59675	20.277	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	48125m	19.213	ug/l	
73) Bromobenzene	12.976	156	42355	20.662	ug/l	100
74) n-propylbenzene	13.035	91	207704	20.092	ug/l	100
75) 2-Chlorotoluene	13.123	91	125363	20.131	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	144488	20.407	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	19212	18.768	ug/l	100
78) 4-Chlorotoluene	13.217	91	126859	20.036	ug/l	100
79) tert-butylbenzene	13.435	119	111921	19.329	ug/l	100
80) 1,2,4-Trimethylbenzene	13.482	105	142514	20.230	ug/l	100
81) sec-Butylbenzene	13.611	105	163388	19.545	ug/l	100
82) p-Isopropyltoluene	13.729	119	131247	19.064	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	78045	20.415	ug/l	100
84) 1,4-Dichlorobenzene	13.811	146	71930	19.448	ug/l	100
85) n-Butylbenzene	14.053	91	109530	18.428	ug/l	100
86) Hexachloroethane	14.329	117	30284	20.490	ug/l	100
87) 1,2-Dichlorobenzene	14.106	146	73249	20.167	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	10690	19.898	ug/l	100
89) 1,2,4-Trichlorobenzene	15.835	180	32846	19.089	ug/l	100
90) Hexachlorobutadiene	15.500	225	17028	19.853	ug/l	100
91) Naphthalene	15.641	128	99596	18.015	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	32846	19.089	ug/l	100

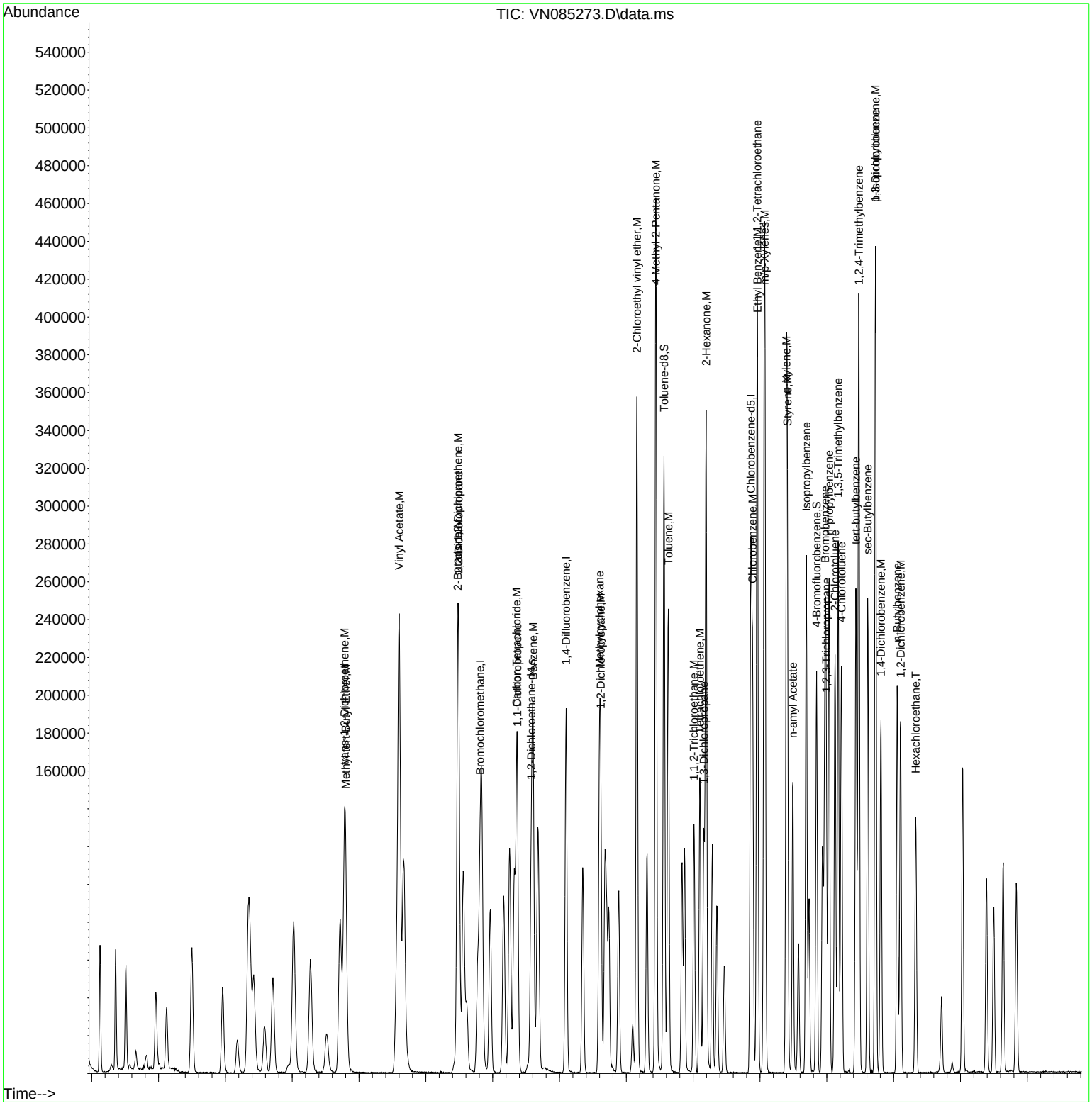
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085273.D
Acq On : 20 Dec 2024 10:29
Operator : JC\MD
Sample : VSTDICCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Quant Time: Dec 21 01:54:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 01:51:00 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085274.D
Acq On : 20 Dec 2024 10:53
Operator : JC\MD
Sample : VSTDICC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Quant Time: Dec 21 01:42:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 01:29:00 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.812	128	29588	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	155749	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	147286	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	77354	29.719	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 99.067%			
60) 4-Bromofluorobenzene	12.847	95	71225	29.854	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.500%			
63) Toluene-d8	10.565	98	212997	29.616	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.733%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	125152	50.588	ug/l	100
3) Chloromethane	2.359	50	125132	50.096	ug/l	100
4) Vinyl Chloride	2.512	62	123837	48.826	ug/l	97
5) Bromomethane	2.948	94	71335	48.112	ug/l	100
6) Chloroethane	3.112	64	77595	48.464	ug/l	92
7) Trichlorofluoromethane	3.495	101	173348	49.749	ug/l	97
8) Diethyl Ether	3.959	74	59743	49.784	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	97445	48.701	ug/l	98
10) 1,1-Dichloroethene	4.336	96	89996	49.235	ug/l	90
11) Methyl Iodide	4.583	142	113125	51.640	ug/l	97
12) Methyl Acetate	5.024	43	135823	49.796	ug/l	97
13) Acrolein	4.177	56	54376	223.139	ug/l	100
14) Acrylonitrile	5.712	53	265775	251.737	ug/l	99
15) Acetone	4.430	58	64795	243.294	ug/l	98
16) Carbon Disulfide	4.706	76	271267	48.822	ug/l	98
17) Allyl chloride	5.018	41	147944	50.034	ug/l	95
18) Methylene Chloride	5.271	84	105769	48.560	ug/l	95
19) trans-1,2-Dichloroethene	5.783	96	95330	50.143	ug/l	96
20) Diisopropyl ether	6.671	45	342293	50.511	ug/l	98
21) 1,1-Dichloroethane	6.565	63	194526	49.102	ug/l	96
22) cis-1,2-Dichloroethene	7.483	96	111942	49.447	ug/l	98
23) tert-Butyl Alcohol	5.524	59	87172	250.534	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	303617	50.607	ug/l	98
25) Chloroform	7.965	83	196531	48.939	ug/l	100
26) Cyclohexane	8.253	56	155515	51.487	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	134525	49.747	ug/l	99
30) 2-Butanone	7.483	43	357311	250.324	ug/l	100
31) 2,2-Dichloropropane	7.489	77	167877	48.993	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	170514	48.506	ug/l	99
33) Carbon Tetrachloride	8.359	117	150812	49.008	ug/l	96
34) Benzene	8.600	78	417957	48.897	ug/l	97
35) Methacrylonitrile	7.777	41	77907	49.305	ug/l	97
36) 1,2-Dichloroethane	8.671	62	149871	48.487	ug/l	100
37) Trichloroethene	9.347	130	91953	48.894	ug/l	96
38) Methylcyclohexane	9.600	83	141960	50.730	ug/l	96
39) 1,2-Dichloropropane	9.618	63	107319	49.348	ug/l	98
40) Dibromomethane	9.706	93	74458	49.107	ug/l	99
41) Bromodichloromethane	9.882	83	154374	48.718	ug/l	98
42) Vinyl Acetate	6.600	43	1291146	256.254	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085274.D
Acq On : 20 Dec 2024 10:53
Operator : JC\MD
Sample : VSTDICC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Quant Time: Dec 21 01:42:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 01:29:00 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	147156	49.852	ug/l	95
44) Isopropyl Acetate	8.688	43	241079	49.163	ug/l	98
45) 1,4-Dioxane	9.694	88	39688	1040.566	ug/l	96
46) Methyl methacrylate	9.677	41	116559	51.209	ug/l	98
47) n-amyl Acetate	12.494	43	212696	50.916	ug/l	98
48) t-1,3-Dichloropropene	10.835	75	156703	50.066	ug/l	99
49) cis-1,3-Dichloropropene	10.312	75	167067	49.650	ug/l	97
50) 1,1,2-Trichloroethane	11.018	97	95304	48.061	ug/l	94
51) Ethyl methacrylate	10.871	69	154832	51.624	ug/l	93
52) 1,3-Dichloropropane	11.159	76	171106	49.432	ug/l	100
53) Dibromochloromethane	11.359	129	113404	48.807	ug/l	99
54) 1,2-Dibromoethane	11.471	107	94603	49.297	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	389749	252.280	ug/l	99
56) Bromoform	12.576	173	73622	48.571	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	750694	251.417	ug/l	99
59) 2-Hexanone	11.194	43	553103	254.992	ug/l	99
61) Tetrachloroethene	11.100	164	79591	48.406	ug/l	95
62) Toluene	10.630	91	439961	48.622	ug/l	99
64) Chlorobenzene	11.888	112	268859	49.265	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	96474	48.745	ug/l	99
66) Ethyl Benzene	11.965	91	480323	50.448	ug/l	97
67) m/p-Xylenes	12.071	106	367404	102.858	ug/l	99
68) o-Xylene	12.394	106	173012	50.851	ug/l	100
69) Styrene	12.412	104	302535	52.615	ug/l	99
70) Isopropylbenzene	12.694	105	442423	51.786	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	145707	48.087	ug/l	98
72) 1,2,3-Trichloropropane	12.988	75	136966m	50.442	ug/l	
73) Bromobenzene	12.976	156	106099	50.270	ug/l	99
74) n-propylbenzene	13.035	91	542722	50.991	ug/l	98
75) 2-Chlorotoluene	13.123	91	326274	50.887	ug/l	100
76) 1,3,5-Trimethylbenzene	13.171	105	381614	52.349	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	52968	50.256	ug/l	98
78) 4-Chlorotoluene	13.218	91	332540	51.010	ug/l	100
79) tert-butylbenzene	13.435	119	310813	52.136	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	381672	52.620	ug/l	99
81) sec-Butylbenzene	13.612	105	448352	52.091	ug/l	99
82) p-Isopropyltoluene	13.729	119	373378	52.675	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	198317	50.383	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	194944	51.191	ug/l	97
85) n-Butylbenzene	14.053	91	316703	51.751	ug/l	99
86) Hexachloroethane	14.329	117	74758	49.126	ug/l	98
87) 1,2-Dichlorobenzene	14.106	146	192508	51.479	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	28112	50.822	ug/l	96
89) 1,2,4-Trichlorobenzene	15.835	180	91492	51.642	ug/l	99
90) Hexachlorobutadiene	15.500	225	42618	48.259	ug/l	94
91) Naphthalene	15.641	128	294265	51.695	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	91492	51.642	ug/l	99

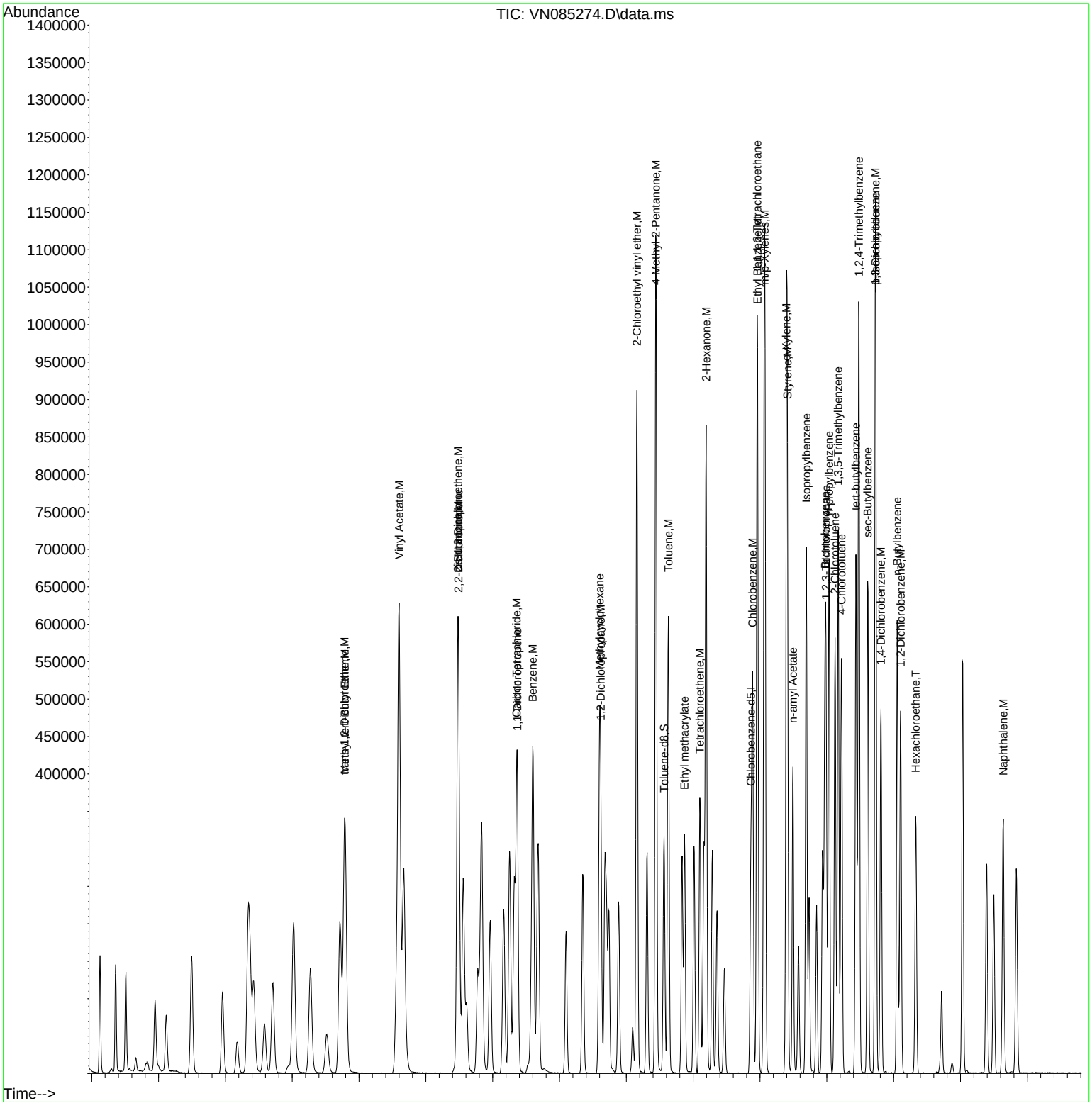
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085274.D
Acq On : 20 Dec 2024 10:53
Operator : JC\MD
Sample : VSTDICC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Quant Time: Dec 21 01:42:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 01:29:00 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085275.D
Acq On : 20 Dec 2024 11:17
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Quant Time: Dec 21 01:43:35 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 01:29:00 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.812	128	30847	30.000	ug/l		0.00
28) 1,4-Difluorobenzene	9.100	114	160498	30.000	ug/l		0.00
57) Chlorobenzene-d5	11.865	117	153405	30.000	ug/l		0.00
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.571	65	80099	29.518	ug/l		0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 98.400%				
60) 4-Bromofluorobenzene	12.847	95	75053	30.203	ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.667%				
63) Toluene-d8	10.565	98	216384	28.887	ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 96.300%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	246556	95.593	ug/l		99
3) Chloromethane	2.359	50	242223	93.014	ug/l		98
4) Vinyl Chloride	2.506	62	251220	95.008	ug/l		98
5) Bromomethane	2.936	94	144535	93.503	ug/l		100
6) Chloroethane	3.106	64	152824	91.555	ug/l		90
7) Trichlorofluoromethane	3.489	101	345388	95.078	ug/l		98
8) Diethyl Ether	3.959	74	124805	99.756	ug/l		96
9) 1,1,2-Trichlorotrifluo...	4.365	101	199737	95.751	ug/l		98
10) 1,1-Dichloroethene	4.336	96	186282	97.752	ug/l		98
11) Methyl Iodide	4.583	142	241406	105.701	ug/l		98
12) Methyl Acetate	5.018	43	281279	98.914	ug/l		97
13) Acrolein	4.177	56	108832	428.379	ug/l		99
14) Acrylonitrile	5.712	53	555218	504.428	ug/l		99
15) Acetone	4.424	58	134644	484.930	ug/l		95
16) Carbon Disulfide	4.706	76	547597	94.533	ug/l		96
17) Allyl chloride	5.018	41	308150	99.962	ug/l		97
18) Methylene Chloride	5.277	84	212750	93.689	ug/l		96
19) trans-1,2-Dichloroethene	5.783	96	193775	97.765	ug/l		99
20) Diisopropyl ether	6.665	45	703508	99.577	ug/l		96
21) 1,1-Dichloroethane	6.565	63	395631	95.790	ug/l	#	96
22) cis-1,2-Dichloroethene	7.482	96	235386	99.731	ug/l		98
23) tert-Butyl Alcohol	5.512	59	188938	520.848	ug/l	#	100
24) Methyl tert-Butyl Ether	5.794	73	641818	102.611	ug/l		97
25) Chloroform	7.965	83	393899	94.083	ug/l		99
26) Cyclohexane	8.253	56	327709	104.067	ug/l	#	98
29) 1,1-Dichloropropene	8.371	75	283121	101.600	ug/l		100
30) 2-Butanone	7.477	43	753754	512.438	ug/l		99
31) 2,2-Dichloropropane	7.488	77	346752	98.201	ug/l		99
32) 1,1,1-Trichloroethane	8.165	97	347150	95.831	ug/l		98
33) Carbon Tetrachloride	8.359	117	306524	96.662	ug/l		95
34) Benzene	8.606	78	859140	97.537	ug/l		98
35) Methacrylonitrile	7.777	41	164485	101.017	ug/l		96
36) 1,2-Dichloroethane	8.671	62	304004	95.442	ug/l		99
37) Trichloroethene	9.353	130	189053	97.550	ug/l		97
38) Methylcyclohexane	9.600	83	311600	108.056	ug/l		93
39) 1,2-Dichloropropane	9.618	63	216881	96.777	ug/l		95
40) Dibromomethane	9.706	93	150157	96.103	ug/l		99
41) Bromodichloromethane	9.888	83	316593	96.956	ug/l		99
42) Vinyl Acetate	6.600	43	2741189	527.947	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085275.D
Acq On : 20 Dec 2024 11:17
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Quant Time: Dec 21 01:43:35 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 01:29:00 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	311058	102.259	ug/l	94
44) Isopropyl Acetate	8.688	43	516730	102.257	ug/l	99
45) 1,4-Dioxane	9.688	88	83662	2128.602	ug/l	97
46) Methyl methacrylate	9.676	41	246088	104.916	ug/l	98
47) n-amyl Acetate	12.494	43	469368	109.035	ug/l	95
48) t-1,3-Dichloropropene	10.835	75	328441	101.831	ug/l	97
49) cis-1,3-Dichloropropene	10.312	75	350611	101.113	ug/l	99
50) 1,1,2-Trichloroethane	11.012	97	195079	95.466	ug/l	98
51) Ethyl methacrylate	10.871	69	337682	109.258	ug/l	94
52) 1,3-Dichloropropane	11.159	76	354047	99.257	ug/l	98
53) Dibromochloromethane	11.359	129	230512	96.273	ug/l	98
54) 1,2-Dibromoethane	11.470	107	197287	99.764	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	794467	499.033	ug/l	100
56) Bromoform	12.576	173	155445	99.517	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	1555548	500.192	ug/l	98
59) 2-Hexanone	11.194	43	1155911	511.643	ug/l	97
61) Tetrachloroethene	11.100	164	158376	92.479	ug/l	95
62) Toluene	10.629	91	906601	96.195	ug/l	99
64) Chlorobenzene	11.888	112	552038	97.120	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	196883	95.511	ug/l	99
66) Ethyl Benzene	11.965	91	1023076	103.167	ug/l	98
67) m/p-Xylenes	12.070	106	759711	204.205	ug/l	99
68) o-Xylene	12.394	106	365116	103.033	ug/l	99
69) Styrene	12.412	104	627310	104.745	ug/l	99
70) Isopropylbenzene	12.694	105	931902	104.729	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	299530	94.909	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	245228m	86.710	ug/l	
73) Bromobenzene	12.976	156	217768	99.063	ug/l	97
74) n-propylbenzene	13.035	91	1150009	103.738	ug/l	98
75) 2-Chlorotoluene	13.123	91	688133	103.043	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	795513	104.774	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	116397	106.032	ug/l	90
78) 4-Chlorotoluene	13.217	91	696441	102.569	ug/l	99
79) tert-butylbenzene	13.435	119	658635	106.072	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	802332	106.203	ug/l	99
81) sec-Butylbenzene	13.612	105	950101	105.983	ug/l	99
82) p-Isopropyltoluene	13.729	119	797992	108.087	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	414079	101.002	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	404547	101.995	ug/l	97
85) n-Butylbenzene	14.053	91	709360	111.289	ug/l	98
86) Hexachloroethane	14.335	117	156383	98.666	ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	391699	100.567	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	59160	102.685	ug/l	95
89) 1,2,4-Trichlorobenzene	15.841	180	195643	106.025	ug/l	100
90) Hexachlorobutadiene	15.500	225	88782	96.524	ug/l	94
91) Naphthalene	15.641	128	681808	114.999	ug/l	100
92) 1,2,3-Trichlorobenzene	15.841	180	195643	106.025	ug/l	100

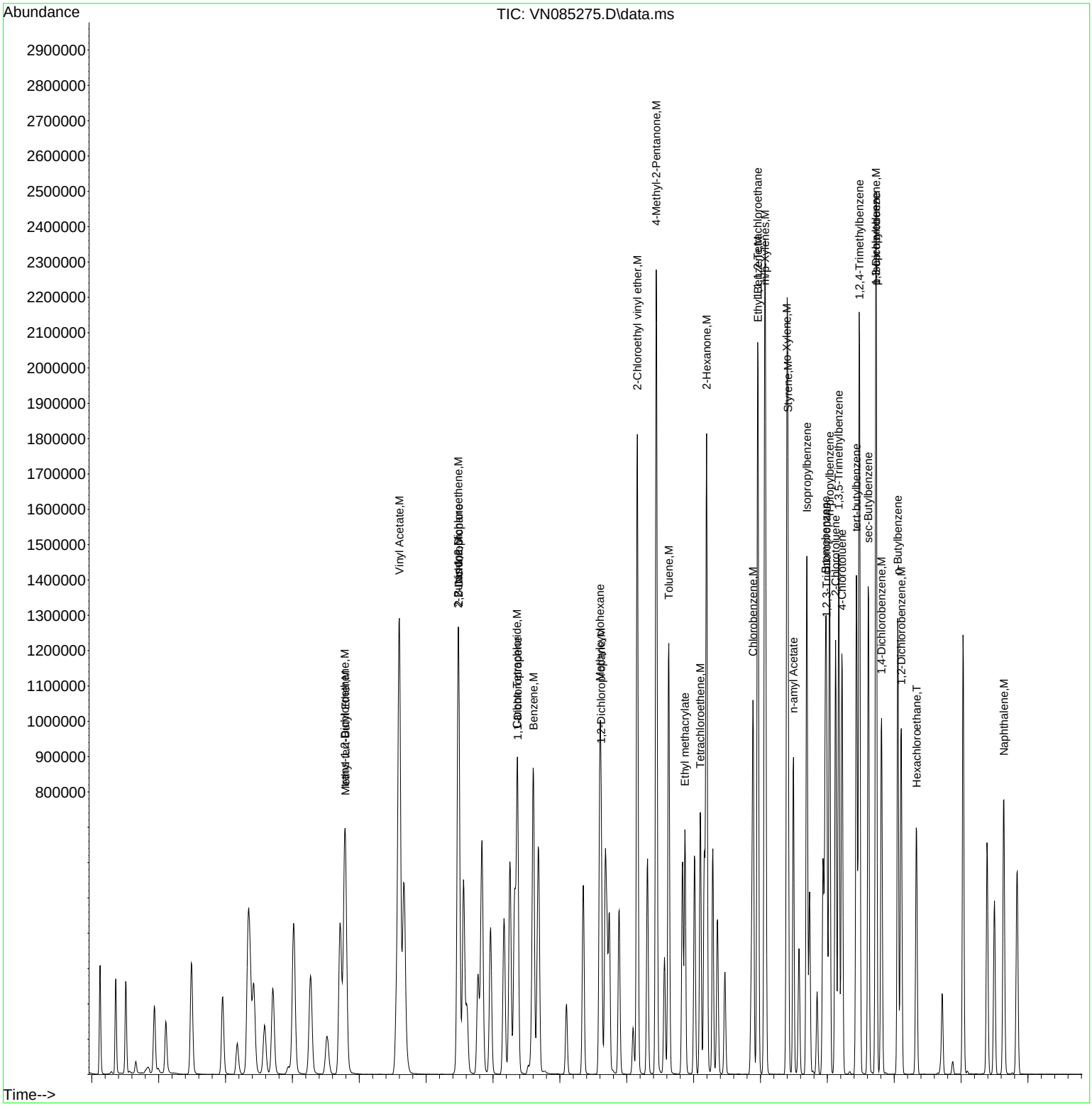
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085275.D
Acq On : 20 Dec 2024 11:17
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Quant Time: Dec 21 01:43:35 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 01:29:00 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085276.D
Acq On : 20 Dec 2024 11:42
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Quant Time: Dec 21 01:44:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 01:29:00 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.812	128	29871	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	167650	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	157508	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	80425	30.606	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.033%			
60) 4-Bromofluorobenzene	12.847	95	78980	30.956	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 103.200%			
63) Toluene-d8	10.565	98	225212	29.282	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 97.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	381612	152.790	ug/l	97
3) Chloromethane	2.353	50	362946	143.926	ug/l	98
4) Vinyl Chloride	2.506	62	380504	148.603	ug/l	100
5) Bromomethane	2.924	94	223224	149.127	ug/l	96
6) Chloroethane	3.100	64	232256	143.688	ug/l	91
7) Trichlorofluoromethane	3.489	101	521516	148.252	ug/l	98
8) Diethyl Ether	3.953	74	193189	159.461	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.365	101	303693	150.342	ug/l	97
10) 1,1-Dichloroethene	4.330	96	289766	157.023	ug/l	96
11) Methyl Iodide	4.583	142	378427	171.110	ug/l	99
12) Methyl Acetate	5.018	43	448482	162.865	ug/l	92
13) Acrolein	4.171	56	190706	775.174	ug/l	99
14) Acrylonitrile	5.712	53	865051	811.596	ug/l	100
15) Acetone	4.424	58	208374	774.994	ug/l	99
16) Carbon Disulfide	4.706	76	845730	150.770	ug/l	97
17) Allyl chloride	5.018	41	486116	162.845	ug/l	96
18) Methylene Chloride	5.271	84	327575	148.968	ug/l	97
19) trans-1,2-Dichloroethene	5.777	96	300282	156.451	ug/l	94
20) Diisopropyl ether	6.671	45	1090650	159.418	ug/l	95
21) 1,1-Dichloroethane	6.565	63	610620	152.673	ug/l	97
22) cis-1,2-Dichloroethene	7.483	96	357862	156.578	ug/l	98
23) tert-Butyl Alcohol	5.524	59	295956	842.524	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	1008587	166.517	ug/l	98
25) Chloroform	7.965	83	605692	149.397	ug/l	100
26) Cyclohexane	8.253	56	502835	164.897	ug/l #	98
29) 1,1-Dichloropropene	8.371	75	433829	149.042	ug/l	100
30) 2-Butanone	7.477	43	1170394	761.746	ug/l	99
31) 2,2-Dichloropropane	7.488	77	535416	145.163	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	537681	142.095	ug/l	98
33) Carbon Tetrachloride	8.359	117	470504	142.043	ug/l	95
34) Benzene	8.606	78	1316056	143.036	ug/l	99
35) Methacrylonitrile	7.777	41	260625	153.232	ug/l	97
36) 1,2-Dichloroethane	8.665	62	463319	139.254	ug/l	100
37) Trichloroethene	9.347	130	295039	145.744	ug/l	96
38) Methylcyclohexane	9.600	83	478702	158.922	ug/l	93
39) 1,2-Dichloropropane	9.618	63	338235	144.489	ug/l	99
40) Dibromomethane	9.706	93	231145	141.625	ug/l	99
41) Bromodichloromethane	9.888	83	492008	144.248	ug/l	99
42) Vinyl Acetate	6.600	43	4294003	791.735	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085276.D
Acq On : 20 Dec 2024 11:42
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Quant Time: Dec 21 01:44:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 01:29:00 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	480322	151.167	ug/l	100
44) Isopropyl Acetate	8.682	43	803196	152.166	ug/l	99
45) 1,4-Dioxane	9.694	88	118082	2876.180	ug/l	98
46) Methyl methacrylate	9.677	41	383334	156.458	ug/l	97
47) n-amyl Acetate	12.494	43	748297	166.415	ug/l	92
48) t-1,3-Dichloropropene	10.835	75	518772	153.981	ug/l	95
49) cis-1,3-Dichloropropene	10.312	75	545222	150.530	ug/l	99
50) 1,1,2-Trichloroethane	11.012	97	297532	139.393	ug/l	97
51) Ethyl methacrylate	10.871	69	537584	166.516	ug/l	93
52) 1,3-Dichloropropane	11.159	76	537291	144.204	ug/l	99
53) Dibromochloromethane	11.359	129	359410	143.703	ug/l	98
54) 1,2-Dibromoethane	11.465	107	305011	147.658	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	1320616	794.138	ug/l	99
56) Bromoform	12.576	173	241680	148.125	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	2426748	760.003	ug/l	98
59) 2-Hexanone	11.194	43	1789778	771.576	ug/l	97
61) Tetrachloroethene	11.100	164	243812	138.658	ug/l	94
62) Toluene	10.629	91	1393988	144.057	ug/l	100
64) Chlorobenzene	11.888	112	857578	146.943	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	302293	142.827	ug/l	99
66) Ethyl Benzene	11.959	91	1580537	155.229	ug/l	99
67) m/p-Xylenes	12.070	106	1160717	303.865	ug/l	100
68) o-Xylene	12.394	106	556306	152.896	ug/l	98
69) Styrene	12.406	104	965130	156.955	ug/l	99
70) Isopropylbenzene	12.694	105	1453567	159.099	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	458872	141.611	ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	372774m	128.375	ug/l	
73) Bromobenzene	12.976	156	334967	148.408	ug/l	97
74) n-propylbenzene	13.035	91	1770285	155.531	ug/l	98
75) 2-Chlorotoluene	13.123	91	1049767	153.101	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	1204028	154.448	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	188674	167.396	ug/l	90
78) 4-Chlorotoluene	13.217	91	1068236	153.228	ug/l	99
79) tert-butylbenzene	13.435	119	1012350	158.790	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	1219847	157.263	ug/l	100
81) sec-Butylbenzene	13.612	105	1463612	159.012	ug/l	98
82) p-Isopropyltoluene	13.729	119	1232499	162.592	ug/l	98
83) 1,3-Dichlorobenzene	13.729	146	628188	149.235	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	628233	154.265	ug/l	97
85) n-Butylbenzene	14.053	91	1110120	169.627	ug/l	98
86) Hexachloroethane	14.329	117	242863	149.237	ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	598727	149.716	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	94207	159.257	ug/l	93
89) 1,2,4-Trichlorobenzene	15.841	180	316396	166.998	ug/l	99
90) Hexachlorobutadiene	15.500	225	135495	143.473	ug/l	92
91) Naphthalene	15.641	128	1126942	185.128	ug/l	100
92) 1,2,3-Trichlorobenzene	15.841	180	316396	166.998	ug/l	99

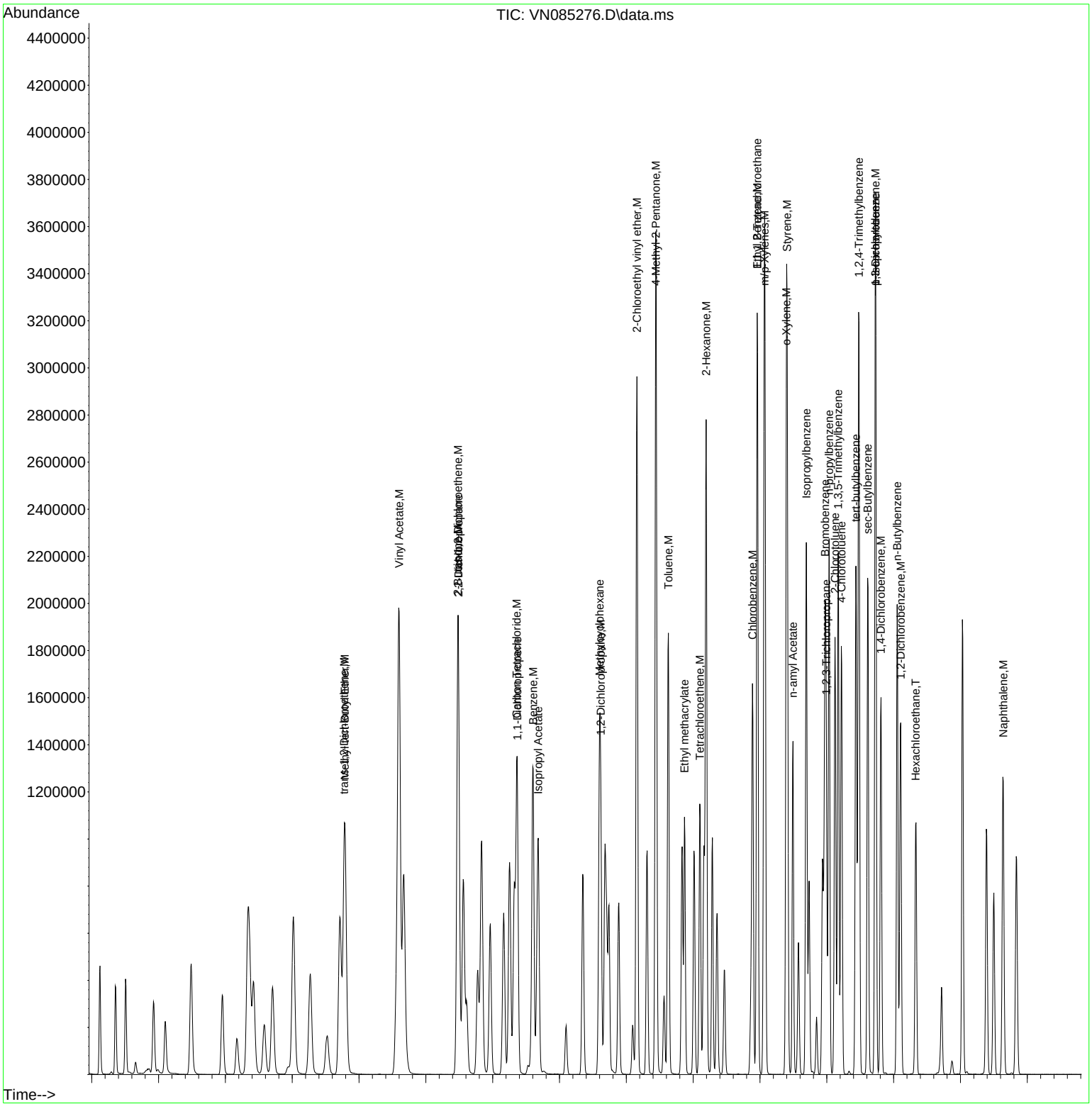
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085276.D
Acq On : 20 Dec 2024 11:42
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Quant Time: Dec 21 01:44:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 01:29:00 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085278.D
Acq On : 20 Dec 2024 12:32
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN122024

Quant Time: Dec 21 02:21:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.812	128	30734	30.000	ug/l		0.00
28) 1,4-Difluorobenzene	9.100	114	166208	30.000	ug/l		0.00
57) Chlorobenzene-d5	11.865	117	149394	30.000	ug/l		0.00
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.577	65	82112	30.371	ug/l		0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.233%				
60) 4-Bromofluorobenzene	12.847	95	72466	29.945	ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.833%				
63) Toluene-d8	10.565	98	223219	30.599	ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.000%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	50158	19.518	ug/l		99
3) Chloromethane	2.359	50	49349	19.020	ug/l		99
4) Vinyl Chloride	2.512	62	48734	18.498	ug/l		97
5) Bromomethane	2.959	94	31015	20.138	ug/l		93
6) Chloroethane	3.118	64	32060	19.277	ug/l		96
7) Trichlorofluoromethane	3.495	101	70938	19.599	ug/l		93
8) Diethyl Ether	3.959	74	24315	19.506	ug/l		90
9) 1,1,2-Trichlorotrifluo...	4.365	101	39991	19.242	ug/l		98
10) 1,1-Dichloroethene	4.342	96	36767	19.365	ug/l		83
11) Methyl Iodide	4.589	142	41974	18.446	ug/l		99
12) Methyl Acetate	5.024	43	55895	19.713	ug/l		98
13) Acrolein	4.183	56	23101	91.263	ug/l		96
14) Acrylonitrile	5.718	53	105493	96.195	ug/l		99
15) Acetone	4.424	58	26887	97.191	ug/l		96
16) Carbon Disulfide	4.706	76	110681	19.177	ug/l		98
17) Allyl chloride	5.018	41	58719	19.118	ug/l		94
18) Methylene Chloride	5.271	84	42309	18.700	ug/l		96
19) trans-1,2-Dichloroethene	5.789	96	38628	19.561	ug/l		89
20) Diisopropyl ether	6.671	45	137464	19.529	ug/l		97
21) 1,1-Dichloroethane	6.565	63	78482	19.072	ug/l		97
22) cis-1,2-Dichloroethene	7.483	96	45475	19.338	ug/l		96
23) tert-Butyl Alcohol	5.518	59	38641	106.914	ug/l	#	100
24) Methyl tert-Butyl Ether	5.794	73	121633	19.518	ug/l		98
25) Chloroform	7.965	83	80282	19.246	ug/l		100
26) Cyclohexane	8.259	56	59091	18.834	ug/l	#	98
29) 1,1-Dichloropropene	8.371	75	53477	18.531	ug/l		99
30) 2-Butanone	7.483	43	144903	95.128	ug/l		99
31) 2,2-Dichloropropane	7.488	77	70358	19.241	ug/l		99
32) 1,1,1-Trichloroethane	8.165	97	69300	18.473	ug/l		98
33) Carbon Tetrachloride	8.359	117	60749	18.499	ug/l		99
34) Benzene	8.600	78	168630	18.487	ug/l		96
35) Methacrylonitrile	7.777	41	32208	19.101	ug/l		96
36) 1,2-Dichloroethane	8.671	62	60133	18.230	ug/l		99
37) Trichloroethene	9.353	130	36391	18.132	ug/l		97
38) Methylcyclohexane	9.600	83	52332	17.524	ug/l		96
39) 1,2-Dichloropropane	9.618	63	42670	18.386	ug/l		99
40) Dibromomethane	9.712	93	29338	18.132	ug/l		99
41) Bromodichloromethane	9.882	83	63230	18.699	ug/l		99
42) Vinyl Acetate	6.600	43	501206	93.215	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085278.D
Acq On : 20 Dec 2024 12:32
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN122024

Quant Time: Dec 21 02:21:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) Ethyl Acetate	7.559	43	62834	19.947 ug/l	93
44) Isopropyl Acetate	8.688	43	96175	18.379 ug/l	99
45) 1,4-Dioxane	9.694	88	16365	402.068 ug/l	95
46) Methyl methacrylate	9.677	41	44473	18.309 ug/l	97
47) n-amyl Acetate	12.494	43	81622	18.310 ug/l	98
48) t-1,3-Dichloropropene	10.835	75	61560	18.431 ug/l	97
49) cis-1,3-Dichloropropene	10.312	75	66312	18.467 ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	38883	18.375 ug/l	95
51) Ethyl methacrylate	10.871	69	58393	18.244 ug/l	94
52) 1,3-Dichloropropane	11.159	76	67544	18.285 ug/l	97
53) Dibromochloromethane	11.359	129	43527	17.554 ug/l	96
54) 1,2-Dibromoethane	11.465	107	38245	18.675 ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	125619	76.195 ug/l	99
56) Bromoform	12.576	173	28323	17.510 ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	301712	99.621 ug/l	99
59) 2-Hexanone	11.194	43	219768	99.888 ug/l	98
61) Tetrachloroethene	11.100	164	32545	19.514 ug/l	88
62) Toluene	10.629	91	174303	18.991 ug/l	100
64) Chlorobenzene	11.888	112	105816	19.116 ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	38072	18.965 ug/l	98
66) Ethyl Benzene	11.965	91	182223	18.869 ug/l	98
67) m/p-Xylenes	12.070	106	140385	38.748 ug/l	99
68) o-Xylene	12.394	106	64760	18.765 ug/l	97
69) Styrene	12.412	104	110048	18.869 ug/l	99
70) Isopropylbenzene	12.694	105	165430	19.090 ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	57570	18.731 ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	47827m	18.284 ug/l	
73) Bromobenzene	12.982	156	40507	18.921 ug/l	98
74) n-propylbenzene	13.035	91	202117	18.722 ug/l	98
75) 2-Chlorotoluene	13.123	91	125070	19.231 ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	139164	18.821 ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	19274	18.029 ug/l	90
78) 4-Chlorotoluene	13.217	91	124745	18.865 ug/l	98
79) tert-butylbenzene	13.435	119	111942	18.512 ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	141891	19.279 ug/l	99
81) sec-Butylbenzene	13.612	105	163364	18.712 ug/l	99
82) p-Isopropyltoluene	13.729	119	134436	18.698 ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	76679	19.206 ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	74097	19.183 ug/l	97
85) n-Butylbenzene	14.053	91	114050	18.373 ug/l	99
86) Hexachloroethane	14.335	117	28626	18.546 ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	72156	19.023 ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	11313	20.163 ug/l	97
89) 1,2,4-Trichlorobenzene	15.841	180	34849	19.393 ug/l	99
90) Hexachlorobutadiene	15.494	225	18190	20.307 ug/l	94
91) Naphthalene	15.641	128	103789	17.976 ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	34849	19.393 ug/l	99

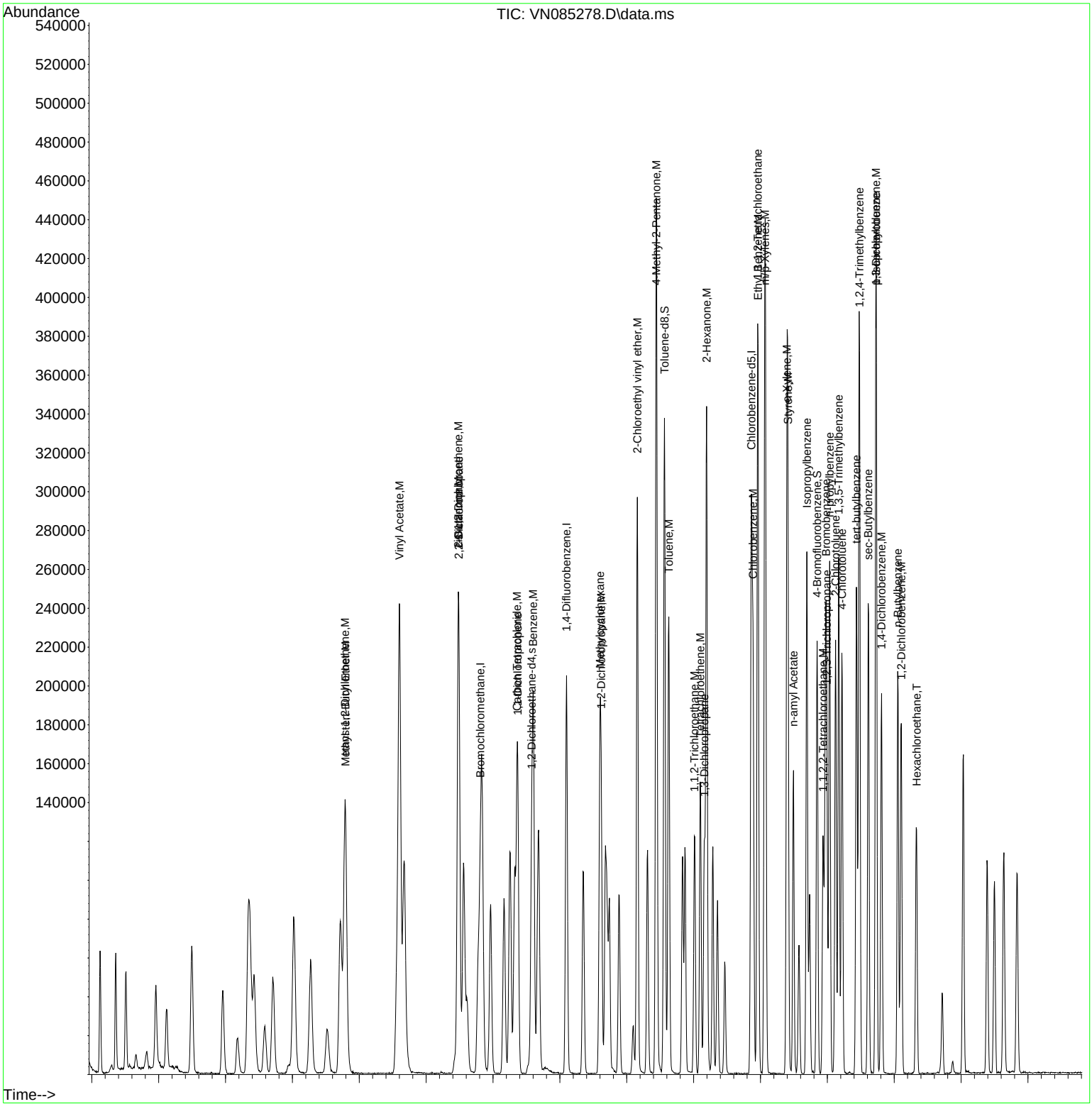
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085278.D
Acq On : 20 Dec 2024 12:32
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN122024

Quant Time: Dec 21 02:21:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
Response via : Initial Calibration



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085278.D
Acq On : 20 Dec 2024 12:32
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN122024

Quant Time: Dec 21 02:21:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
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	Bromochloromethane	1.000	1.000	0.0	104	0.00
2	M	Dichlorodifluoromethane	2.508	2.448	2.4	96	0.00
3	M	Chloromethane	2.533	2.409	4.9	95	0.00
4	M	Vinyl Chloride	2.572	2.379	7.5	94	0.00
5	M	Bromomethane	1.503	1.514	-0.7	106	0.00
6	M	Chloroethane	1.623	1.565	3.6	97	0.00
7	M	Trichlorofluoromethane	3.533	3.462	2.0	99	0.00
8	T	Diethyl Ether	1.217	1.187	2.5	105	0.00
9		1,1,2-Trichlorotrifluoroeth	2.029	1.952	3.8	97	0.00
10	M	1,1-Dichloroethene	1.853	1.794	3.2	102	0.00
11		Methyl Iodide	2.221	2.049	7.7	100	0.00
12		Methyl Acetate	2.768	2.728	1.4	101	0.00
13	M	Acrolein	0.247	0.225	8.9	106	0.00
14	M	Acrylonitrile	1.070	1.030	3.7	100	0.00
15	M	Acetone	0.270	0.262	3.0	99	0.00
16	M	Carbon Disulfide	5.634	5.402	4.1	99	0.00
17		Allyl chloride	2.998	2.866	4.4	101	0.00
18	M	Methylene Chloride	2.208	2.065	6.5	96	0.00
19	M	trans-1,2-Dichloroethene	1.928	1.885	2.2	102	0.00
20	T	Diisopropyl ether	6.871	6.709	2.4	99	0.00
21	M	1,1-Dichloroethane	4.017	3.830	4.7	97	0.00
22	M	cis-1,2-Dichloroethene	2.295	2.219	3.3	101	0.00
23	M	tert-Butyl Alcohol	0.353	0.377	-6.8	116	0.00
24	M	Methyl tert-Butyl Ether	6.083	5.936	2.4	102	0.00
25	M	Chloroform	4.072	3.918	3.8	97	0.00
26		Cyclohexane	3.063	2.884	5.8	99	0.00
27	s	1,2-Dichloroethane-d4	2.639	2.672	-1.3	105	0.00
28	I	1,4-Difluorobenzene	1.000	1.000	0.0	108	0.00
29		1,1-Dichloropropene	0.521	0.483	7.3	99	0.00
30	M	2-Butanone	0.275	0.262	4.7	101	0.00
31		2,2-Dichloropropane	0.660	0.635	3.8	102	0.00
32	M	1,1,1-Trichloroethane	0.677	0.625	7.7	98	0.00
33	M	Carbon Tetrachloride	0.593	0.548	7.6	98	0.00
34	M	Benzene	1.646	1.522	7.5	97	0.00
35		Methacrylonitrile	0.304	0.291	4.3	103	0.00
36	M	1,2-Dichloroethane	0.595	0.543	8.7	97	0.00
37	M	Trichloroethene	0.362	0.328	9.4	97	0.00
38		Methylcyclohexane	0.539	0.472	12.4	103	0.00
39	M	1,2-Dichloropropane	0.419	0.385	8.1	97	0.00
40		Dibromomethane	0.292	0.265	9.2	96	0.00
41	M	Bromodichloromethane	0.610	0.571	6.4	98	0.00
42	M	Vinyl Acetate	0.971	0.905	6.8	102	0.00
43		Ethyl Acetate	0.569	0.567	0.4	110	0.00
44		Isopropyl Acetate	0.945	0.868	8.1	99	0.00
45	T	1,4-Dioxane	0.007	0.007	0.0	108	0.00
46		Methyl methacrylate	0.438	0.401	8.4	99	0.00
47		n-amyl Acetate	0.805	0.737	8.4	102	0.00
48	M	t-1,3-Dichloropropene	0.603	0.556	7.8	101	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085278.D
Acq On : 20 Dec 2024 12:32
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN122024

Quant Time: Dec 21 02:21:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
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	cis-1,3-Dichloropropene	0.648	0.598	7.7	101	0.00
50	M	1,1,2-Trichloroethane	0.382	0.351	8.1	95	0.00
51		Ethyl methacrylate	0.578	0.527	8.8	103	0.00
52		1,3-Dichloropropane	0.667	0.610	8.5	95	0.00
53	M	Dibromochloromethane	0.448	0.393	12.3	91	0.00
54	M	1,2-Dibromoethane	0.370	0.345	6.8	99	0.00
55	M	2-Chloroethyl vinyl ether	0.298	0.227	23.8	84	0.00
56	M	Bromoform	0.292	0.256	12.3	94	0.00
57	I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
58	M	4-Methyl-2-Pentanone	0.608	0.606	0.3	99	0.00
59	M	2-Hexanone	0.442	0.441	0.2	100	0.00
60	S	4-Bromofluorobenzene	0.486	0.485	0.2	104	0.00
61	M	Tetrachloroethene	0.335	0.327	2.4	99	0.00
62	M	Toluene	1.843	1.750	5.0	96	0.00
63	S	Toluene-d8	1.465	1.494	-2.0	103	0.00
64	M	Chlorobenzene	1.112	1.062	4.5	98	0.00
65		1,1,1,2-Tetrachloroethane	0.403	0.382	5.2	95	0.00
66	M	Ethyl Benzene	1.939	1.830	5.6	99	0.00
67	M	m/p-Xylenes	0.728	0.705	3.2	98	0.00
68	M	o-Xylene	0.693	0.650	6.2	98	0.00
69	M	Styrene	1.171	1.105	5.6	97	0.00
70		Isopropylbenzene	1.740	1.661	4.5	100	0.00
71	M	1,1,2,2-Tetrachloroethane	0.617	0.578	6.3	96	0.00
72		1,2,3-Trichloropropane	0.525	0.480	8.6	99	0.00
73		Bromobenzene	0.430	0.407	5.3	96	0.00
74		n-propylbenzene	2.168	2.029	6.4	97	0.00
75		2-Chlorotoluene	1.306	1.256	3.8	100	0.00
76		1,3,5-Trimethylbenzene	1.485	1.397	5.9	96	0.00
77		t-1,4-Dichloro-2-butene	0.215	0.194	9.8	100	0.00
78		4-Chlorotoluene	1.328	1.253	5.6	98	0.00
79		tert-butylbenzene	1.214	1.124	7.4	100	0.00
80		1,2,4-Trimethylbenzene	1.478	1.425	3.6	100	0.00
81		sec-Butylbenzene	1.753	1.640	6.4	100	0.00
82		p-Isopropyltoluene	1.444	1.350	6.5	102	0.00
83	M	1,3-Dichlorobenzene	0.802	0.770	4.0	98	0.00
84	M	1,4-Dichlorobenzene	0.776	0.744	4.1	103	0.00
85		n-Butylbenzene	1.247	1.145	8.2	104	0.00
86	T	Hexachloroethane	0.310	0.287	7.4	95	0.00
87	M	1,2-Dichlorobenzene	0.762	0.724	5.0	99	0.00
88		1,2-Dibromo-3-Chloropropane	0.113	0.114	-0.9	106	0.00
89		1,2,4-Trichlorobenzene	0.361	0.350	3.0	106	0.00
90		Hexachlorobutadiene	0.180	0.183	-1.7	107	0.00
91	M	Naphthalene	1.159	1.042	10.1	104	0.00
92		1,2,3-Trichlorobenzene	0.361	0.350	3.0	106	0.00

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

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085278.D
Acq On : 20 Dec 2024 12:32
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN122024

Quant Time: Dec 21 02:21:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
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	Bromochloromethane	30.000	30.000	0.0	104	0.00
2	M	Dichlorodifluoromethane	20.000	19.518	2.4	96	0.00
3	M	Chloromethane	20.000	19.020	4.9	95	0.00
4	M	Vinyl Chloride	20.000	18.498	7.5	94	0.00
5	M	Bromomethane	20.000	20.138	-0.7	106	0.00
6	M	Chloroethane	20.000	19.277	3.6	97	0.00
7	M	Trichlorofluoromethane	20.000	19.599	2.0	99	0.00
8	T	Diethyl Ether	20.000	19.506	2.5	105	0.00
9		1,1,2-Trichlorotrifluoroeth	20.000	19.242	3.8	97	0.00
10	M	1,1-Dichloroethene	20.000	19.365	3.2	102	0.00
11		Methyl Iodide	20.000	18.446	7.8	100	0.00
12		Methyl Acetate	20.000	19.713	1.4	101	0.00
13	M	Acrolein	100.000	91.263	8.7	106	0.00
14	M	Acrylonitrile	100.000	96.195	3.8	100	0.00
15	M	Acetone	100.000	97.191	2.8	99	0.00
16	M	Carbon Disulfide	20.000	19.177	4.1	99	0.00
17		Allyl chloride	20.000	19.118	4.4	101	0.00
18	M	Methylene Chloride	20.000	18.700	6.5	96	0.00
19	M	trans-1,2-Dichloroethene	20.000	19.561	2.2	102	0.00
20	T	Diisopropyl ether	20.000	19.529	2.4	99	0.00
21	M	1,1-Dichloroethane	20.000	19.072	4.6	97	0.00
22	M	cis-1,2-Dichloroethene	20.000	19.338	3.3	101	0.00
23	M	tert-Butyl Alcohol	100.000	106.914	-6.9	116	0.00
24	M	Methyl tert-Butyl Ether	20.000	19.518	2.4	102	0.00
25	M	Chloroform	20.000	19.246	3.8	97	0.00
26		Cyclohexane	20.000	18.834	5.8	99	0.00
27	s	1,2-Dichloroethane-d4	30.000	30.371	-1.2	105	0.00
28	I	1,4-Difluorobenzene	30.000	30.000	0.0	108	0.00
29		1,1-Dichloropropene	20.000	18.531	7.3	99	0.00
30	M	2-Butanone	100.000	95.128	4.9	101	0.00
31		2,2-Dichloropropane	20.000	19.241	3.8	102	0.00
32	M	1,1,1-Trichloroethane	20.000	18.473	7.6	98	0.00
33	M	Carbon Tetrachloride	20.000	18.499	7.5	98	0.00
34	M	Benzene	20.000	18.487	7.6	97	0.00
35		Methacrylonitrile	20.000	19.101	4.5	103	0.00
36	M	1,2-Dichloroethane	20.000	18.230	8.8	97	0.00
37	M	Trichloroethene	20.000	18.132	9.3	97	0.00
38		Methylcyclohexane	20.000	17.524	12.4	103	0.00
39	M	1,2-Dichloropropane	20.000	18.386	8.1	97	0.00
40		Dibromomethane	20.000	18.132	9.3	96	0.00
41	M	Bromodichloromethane	20.000	18.699	6.5	98	0.00
42	M	Vinyl Acetate	100.000	93.215	6.8	102	0.00
43		Ethyl Acetate	20.000	19.947	0.3	110	0.00
44		Isopropyl Acetate	20.000	18.379	8.1	99	0.00
45	T	1,4-Dioxane	400.000	402.068	-0.5	108	0.00
46		Methyl methacrylate	20.000	18.309	8.5	99	0.00
47		n-amyl Acetate	20.000	18.310	8.5	102	0.00
48	M	t-1,3-Dichloropropene	20.000	18.431	7.8	101	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085278.D
Acq On : 20 Dec 2024 12:32
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN122024

Quant Time: Dec 21 02:21:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
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	cis-1,3-Dichloropropene	20.000	18.467	7.7	101	0.00
50	M	1,1,2-Trichloroethane	20.000	18.375	8.1	95	0.00
51		Ethyl methacrylate	20.000	18.244	8.8	103	0.00
52		1,3-Dichloropropane	20.000	18.285	8.6	95	0.00
53	M	Dibromochloromethane	20.000	17.554	12.2	91	0.00
54	M	1,2-Dibromoethane	20.000	18.675	6.6	99	0.00
55	M	2-Chloroethyl vinyl ether	100.000	76.195	23.8	84	0.00
56	M	Bromoform	20.000	17.510	12.4	94	0.00
57	I	Chlorobenzene-d5	30.000	30.000	0.0	104	0.00
58	M	4-Methyl-2-Pentanone	100.000	99.621	0.4	99	0.00
59	M	2-Hexanone	100.000	99.888	0.1	100	0.00
60	S	4-Bromofluorobenzene	30.000	29.945	0.2	104	0.00
61	M	Tetrachloroethene	20.000	19.514	2.4	99	0.00
62	M	Toluene	20.000	18.991	5.0	96	0.00
63	S	Toluene-d8	30.000	30.599	-2.0	103	0.00
64	M	Chlorobenzene	20.000	19.116	4.4	98	0.00
65		1,1,1,2-Tetrachloroethane	20.000	18.965	5.2	95	0.00
66	M	Ethyl Benzene	20.000	18.869	5.7	99	0.00
67	M	m/p-Xylenes	40.000	38.748	3.1	98	0.00
68	M	o-Xylene	20.000	18.765	6.2	98	0.00
69	M	Styrene	20.000	18.869	5.7	97	0.00
70		Isopropylbenzene	20.000	19.090	4.6	100	0.00
71	M	1,1,2,2-Tetrachloroethane	20.000	18.731	6.3	96	0.00
72		1,2,3-Trichloropropane	20.000	18.284	8.6	99	0.00
73		Bromobenzene	20.000	18.921	5.4	96	0.00
74		n-propylbenzene	20.000	18.722	6.4	97	0.00
75		2-Chlorotoluene	20.000	19.231	3.8	100	0.00
76		1,3,5-Trimethylbenzene	20.000	18.821	5.9	96	0.00
77		t-1,4-Dichloro-2-butene	20.000	18.029	9.9	100	0.00
78		4-Chlorotoluene	20.000	18.865	5.7	98	0.00
79		tert-butylbenzene	20.000	18.512	7.4	100	0.00
80		1,2,4-Trimethylbenzene	20.000	19.279	3.6	100	0.00
81		sec-Butylbenzene	20.000	18.712	6.4	100	0.00
82		p-Isopropyltoluene	20.000	18.698	6.5	102	0.00
83	M	1,3-Dichlorobenzene	20.000	19.206	4.0	98	0.00
84	M	1,4-Dichlorobenzene	20.000	19.183	4.1	103	0.00
85		n-Butylbenzene	20.000	18.373	8.1	104	0.00
86	T	Hexachloroethane	20.000	18.546	7.3	95	0.00
87	M	1,2-Dichlorobenzene	20.000	19.023	4.9	99	0.00
88		1,2-Dibromo-3-Chloropropane	20.000	20.163	-0.8	106	0.00
89		1,2,4-Trichlorobenzene	20.000	19.393	3.0	106	0.00
90		Hexachlorobutadiene	20.000	20.307	-1.5	107	0.00
91	M	Naphthalene	20.000	17.976	10.1	104	0.00
92		1,2,3-Trichlorobenzene	20.000	19.393	3.0	106	0.00

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

Raw Data: **VN085418.D**

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ARDM01

Lab Code: CHEM Case No.: Q1066 SAS No.: Q1066 SDG No.: Q1066

Instrument ID: MSVOA_N Calibration Date/Time: 01/10/2025 10:56

Lab File ID: VN085418.D Init. Calib. Date(s): 12/20/2024 12/20/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:05 11:42

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

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
Chloromethane	2.533	2.328		-8.09	
Vinyl Chloride	2.572	2.408	0.1	-6.38	
Bromomethane	1.503	1.459	0.1	-2.93	
Chloroethane	1.623	1.572		-3.14	
Trichlorofluoromethane	3.533	3.589		1.59	
1,1-Dichloroethene	1.853	1.820	0.1	-1.78	
Acrolein	0.247	0.249		0.81	
Acrylonitrile	1.070	0.923		-13.74	
Methylene Chloride	2.208	2.158		-2.26	
trans-1,2-Dichloroethene	1.928	1.936		0.41	
1,1-Dichloroethane	4.017	4.047	0.2	0.75	
Carbon Tetrachloride	0.593	0.554	0.1	-6.58	
Chloroform	4.072	4.034	0.2	-0.93	
1,1,1-Trichloroethane	0.677	0.644	0.1	-4.87	
Benzene	1.646	1.562	0.5	-5.1	
1,2-Dichloroethane	0.595	0.569	0.1	-4.37	
Trichloroethene	0.362	0.350	0.3	-3.32	
1,2-Dichloropropane	0.419	0.390		-6.92	
Bromodichloromethane	0.610	0.570	0.2	-6.56	
Toluene	1.843	1.853	0.4	0.54	
t-1,3-Dichloropropene	0.603	0.548	0.1	-9.12	
cis-1,3-Dichloropropene	0.648	0.616	0.2	-4.94	
1,1,2-Trichloroethane	0.382	0.366	0.1	-4.19	
2-Chloroethyl vinyl ether	0.298	0.243		-18.46	
Dibromochloromethane	0.448	0.404	0.1	-9.82	
Tetrachloroethene	0.335	0.358	0.2	6.87	
Chlorobenzene	1.112	1.086	0.5	-2.43	
Ethyl Benzene	1.939	1.871	0.1	-3.51	
m/p-Xylenes	0.728	0.720	0.3	-1.1	
o-Xylene	0.693	0.661	0.3	-4.62	
Bromoform	0.292	0.246	0.1	-15.75	
1,1,2,2-Tetrachloroethane	0.617	0.538	0.3	-12.8	
1,3-Dichlorobenzene	0.802	0.753	0.2	-6.11	
1,4-Dichlorobenzene	0.776	0.732	0.2	-5.67	
1,2-Dichlorobenzene	0.762	0.713	0.2	-6.43	
1,2-Dichloroethane-d4	2.639	2.574	0.01	-2.46	
Toluene-d8	1.465	1.436	0.01	-1.98	
4-Bromofluorobenzene	0.486	0.454	0.2	-6.58	

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\VN011025\
Data File : VN085418.D
Acq On : 10 Jan 2025 10:56
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Quant Time: Jan 10 22:39:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.812	128	32951	30.000	ug/l		0.00
28) 1,4-Difluorobenzene	9.094	114	181970	30.000	ug/l		0.00
57) Chlorobenzene-d5	11.865	117	160429	30.000	ug/l		0.00
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.577	65	84830	29.265	ug/l		0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 97.567%				
60) 4-Bromofluorobenzene	12.847	95	72823	28.023	ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 93.400%				
63) Toluene-d8	10.565	98	230396	29.411	ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.033%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	54190	19.669	ug/l		98
3) Chloromethane	2.359	50	51148	18.387	ug/l		97
4) Vinyl Chloride	2.518	62	52902	18.729	ug/l		98
5) Bromomethane	2.965	94	32048	19.409	ug/l		95
6) Chloroethane	3.124	64	34528	19.365	ug/l	#	85
7) Trichlorofluoromethane	3.506	101	78848	20.319	ug/l		95
8) Diethyl Ether	3.959	74	26619	19.918	ug/l		95
9) 1,1,2-Trichlorotrifluo...	4.371	101	47115	21.144	ug/l		93
10) 1,1-Dichloroethene	4.341	96	39977	19.639	ug/l		92
11) Methyl Iodide	4.589	142	49017	20.092	ug/l		96
12) Methyl Acetate	5.024	43	61229	20.141	ug/l		99
13) Acrolein	4.177	56	27401	100.968	ug/l		100
14) Acrylonitrile	5.718	53	101371	86.217	ug/l		99
15) Acetone	4.430	58	27958	94.263	ug/l		95
16) Carbon Disulfide	4.712	76	115368	18.645	ug/l		97
17) Allyl chloride	5.018	41	63558	19.301	ug/l		99
18) Methylene Chloride	5.277	84	47412	19.546	ug/l		98
19) trans-1,2-Dichloroethene	5.783	96	42526	20.086	ug/l		89
20) Diisopropyl ether	6.665	45	152725	20.237	ug/l		98
21) 1,1-Dichloroethane	6.559	63	88899	20.150	ug/l		97
22) cis-1,2-Dichloroethene	7.477	96	50725	20.120	ug/l		98
23) tert-Butyl Alcohol	5.524	59	27689	71.457	ug/l	#	100
24) Methyl tert-Butyl Ether	5.788	73	132360	19.810	ug/l		97
25) Chloroform	7.959	83	88615	19.814	ug/l		97
26) Cyclohexane	8.253	56	67755	20.142	ug/l	#	100
29) 1,1-Dichloropropene	8.365	75	61289	19.399	ug/l		99
30) 2-Butanone	7.477	43	134491	80.645	ug/l		100
31) 2,2-Dichloropropane	7.488	77	78656	19.647	ug/l		98
32) 1,1,1-Trichloroethane	8.159	97	78159	19.030	ug/l		98
33) Carbon Tetrachloride	8.359	117	67240	18.702	ug/l		97
34) Benzene	8.600	78	189453	18.970	ug/l		98
35) Methacrylonitrile	7.777	41	31581	17.107	ug/l		96
36) 1,2-Dichloroethane	8.665	62	69072	19.126	ug/l		99
37) Trichloroethene	9.347	130	42502	19.343	ug/l		94
38) Methylcyclohexane	9.594	83	61410	18.783	ug/l		96
39) 1,2-Dichloropropane	9.618	63	47348	18.635	ug/l		93
40) Dibromomethane	9.700	93	32564	18.382	ug/l		99
41) Bromodichloromethane	9.882	83	69100	18.665	ug/l	#	93
42) Vinyl Acetate	6.594	43	510123	86.656	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011025\
Data File : VN085418.D
Acq On : 10 Jan 2025 10:56
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Quant Time: Jan 10 22:39:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
Response via : Initial Calibration

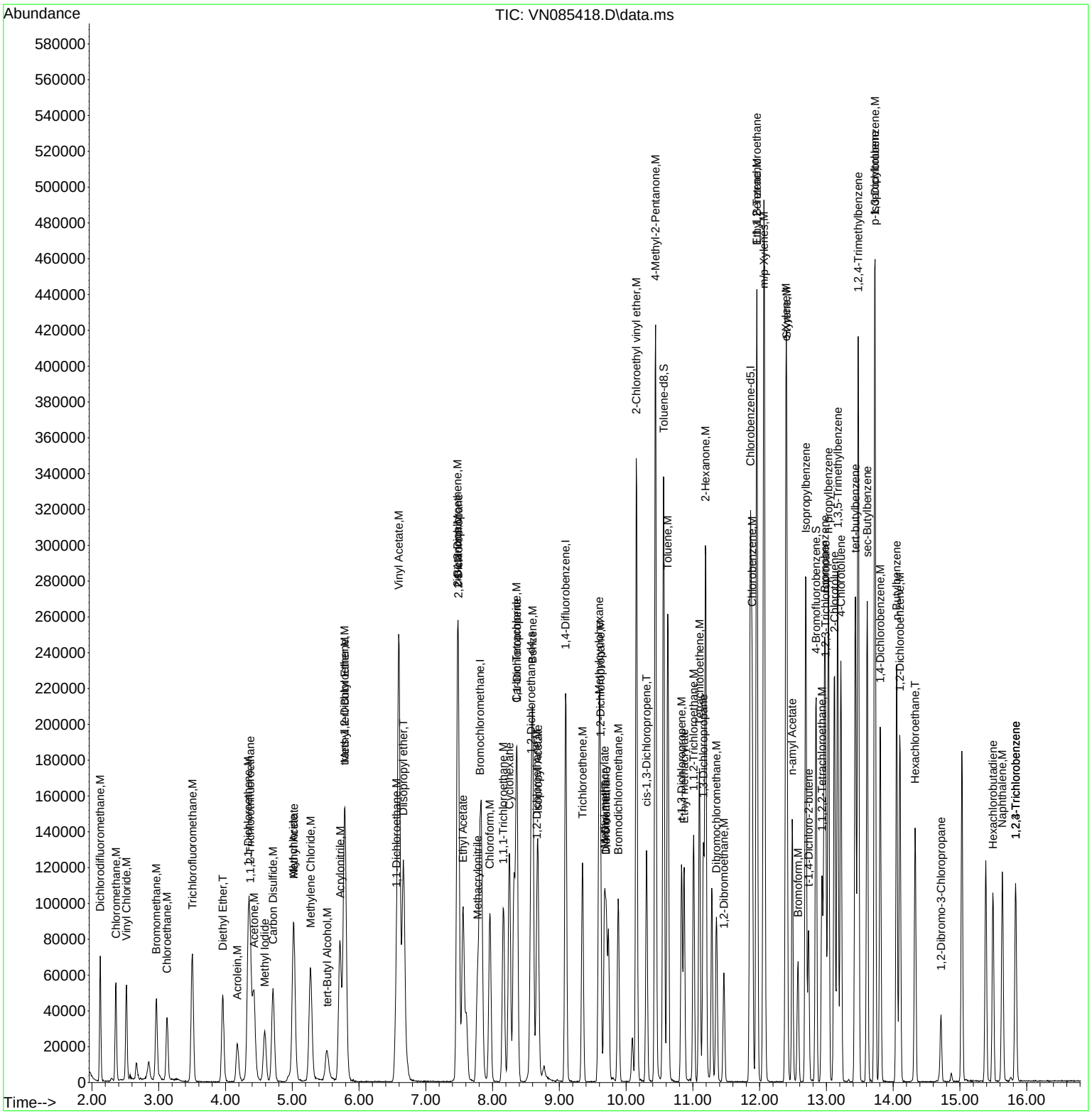
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	58554	16.978	ug/l	96
44) Isopropyl Acetate	8.682	43	100964	17.622	ug/l	98
45) 1,4-Dioxane	9.694	88	11976	268.750	ug/l	94
46) Methyl methacrylate	9.676	41	44903	16.885	ug/l	97
47) n-amyl Acetate	12.488	43	73922	15.146	ug/l	98
48) t-1,3-Dichloropropene	10.829	75	66432	18.167	ug/l	98
49) cis-1,3-Dichloropropene	10.306	75	74719	19.006	ug/l	95
50) 1,1,2-Trichloroethane	11.012	97	44413	19.170	ug/l	94
51) Ethyl methacrylate	10.871	69	59042	16.849	ug/l	93
52) 1,3-Dichloropropane	11.159	76	74734	18.479	ug/l	99
53) Dibromochloromethane	11.353	129	49021	18.058	ug/l	96
54) 1,2-Dibromoethane	11.465	107	40499	18.063	ug/l	98
55) 2-Chloroethyl vinyl ether	10.153	63	147280	81.596	ug/l	99
56) Bromoform	12.576	173	29820	16.838	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	282811	86.957	ug/l	99
59) 2-Hexanone	11.188	43	195130	82.589	ug/l	98
61) Tetrachloroethene	11.100	164	38281	21.374	ug/l	93
62) Toluene	10.623	91	198231	20.113	ug/l	99
64) Chlorobenzene	11.888	112	116097	19.531	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	42484	19.707	ug/l	98
66) Ethyl Benzene	11.959	91	200143	19.299	ug/l	100
67) m/p-Xylenes	12.065	106	154051	39.595	ug/l	99
68) o-Xylene	12.394	106	70672	19.070	ug/l	99
69) Styrene	12.406	104	118918	18.987	ug/l	99
70) Isopropylbenzene	12.694	105	184077	19.781	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	57515	17.426	ug/l	97
72) 1,2,3-Trichloropropane	12.988	75	52061m	18.533	ug/l	
73) Bromobenzene	12.976	156	43334	18.850	ug/l	96
74) n-propylbenzene	13.029	91	221693	19.123	ug/l	99
75) 2-Chlorotoluene	13.123	91	134505	19.259	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	152226	19.171	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	18868	16.435	ug/l	97
78) 4-Chlorotoluene	13.217	91	133506	18.801	ug/l	99
79) tert-butylbenzene	13.435	119	125691	19.356	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	155304	19.650	ug/l	100
81) sec-Butylbenzene	13.611	105	182710	19.489	ug/l	98
82) p-Isopropyltoluene	13.723	119	148838	19.277	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	80555	18.789	ug/l	98
84) 1,4-Dichlorobenzene	13.806	146	78237	18.862	ug/l	96
85) n-Butylbenzene	14.053	91	124250	18.640	ug/l	100
86) Hexachloroethane	14.329	117	31006	18.706	ug/l	98
87) 1,2-Dichlorobenzene	14.100	146	76243	18.718	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	10409	17.276	ug/l	97
89) 1,2,4-Trichlorobenzene	15.835	180	37156	19.254	ug/l	99
90) Hexachlorobutadiene	15.494	225	18708	19.449	ug/l	91
91) Naphthalene	15.635	128	104996	16.934	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	37156	19.254	ug/l	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011025\
Data File : VN085418.D
Acq On : 10 Jan 2025 10:56
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Quant Time: Jan 10 22:39:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
Response via : Initial Calibration



Sample Results: **VN085418.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011025\
Data File : VN085418.D
Acq On : 10 Jan 2025 10:56
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Jan 10 22:39:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
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	Bromochloromethane	1.000	1.000	0.0	111	0.00
2	M	Dichlorodifluoromethane	2.508	2.467	1.6	104	0.00
3	M	Chloromethane	2.533	2.328	8.1	99	0.00
4	M	Vinyl Chloride	2.572	2.408	6.4	103	0.00
5	M	Bromomethane	1.503	1.459	2.9	109	0.00
6	M	Chloroethane	1.623	1.572	3.1	104	0.00
7	M	Trichlorofluoromethane	3.533	3.589	-1.6	110	0.00
8	T	Diethyl Ether	1.217	1.212	0.4	115	0.00
9		1,1,2-Trichlorotrifluoroeth	2.029	2.145	-5.7	114	0.00
10	M	1,1-Dichloroethene	1.853	1.820	1.8	111	0.00
11		Methyl Iodide	2.221	2.231	-0.5	117	0.00
12		Methyl Acetate	2.768	2.787	-0.7	110	0.00
13	M	Acrolein	0.247	0.249	-0.8	126	0.00
14	M	Acrylonitrile	1.070	0.923	13.7	96	0.00
15	M	Acetone	0.270	0.255	5.6	103	0.00
16	M	Carbon Disulfide	5.634	5.252	6.8	103	0.00
17		Allyl chloride	2.998	2.893	3.5	110	0.00
18	M	Methylene Chloride	2.208	2.158	2.3	107	0.00
19	M	trans-1,2-Dichloroethene	1.928	1.936	-0.4	112	0.00
20	T	Diisopropyl ether	6.871	6.952	-1.2	110	0.00
21	M	1,1-Dichloroethane	4.017	4.047	-0.7	110	0.00
22	M	cis-1,2-Dichloroethene	2.295	2.309	-0.6	113	0.00
23	M	tert-Butyl Alcohol	0.353	0.252	28.6#	83	0.00
24	M	Methyl tert-Butyl Ether	6.083	6.025	1.0	111	-0.01
25	M	Chloroform	4.072	4.034	0.9	107	0.00
26		Cyclohexane	3.063	3.084	-0.7	114	0.00
27	s	1,2-Dichloroethane-d4	2.639	2.574	2.5	108	0.00
28	I	1,4-Difluorobenzene	1.000	1.000	0.0	119	0.00
29		1,1-Dichloropropene	0.521	0.505	3.1	114	0.00
30	M	2-Butanone	0.275	0.222	19.3	94	0.00
31		2,2-Dichloropropane	0.660	0.648	1.8	114	0.00
32	M	1,1,1-Trichloroethane	0.677	0.644	4.9	110	0.00
33	M	Carbon Tetrachloride	0.593	0.554	6.6	109	0.00
34	M	Benzene	1.646	1.562	5.1	109	0.00
35		Methacrylonitrile	0.304	0.260	14.5	101	0.00
36	M	1,2-Dichloroethane	0.595	0.569	4.4	111	0.00
37	M	Trichloroethene	0.362	0.350	3.3	113	0.00
38		Methylcyclohexane	0.539	0.506	6.1	120	0.00
39	M	1,2-Dichloropropane	0.419	0.390	6.9	108	0.00
40		Dibromomethane	0.292	0.268	8.2	106	0.00
41	M	Bromodichloromethane	0.610	0.570	6.6	107	0.00
42	M	Vinyl Acetate	0.971	0.841	13.4	104	0.00
43		Ethyl Acetate	0.569	0.483	15.1	103	0.00
44		Isopropyl Acetate	0.945	0.832	12.0	104	0.00
45	T	1,4-Dioxane	0.007	0.005	28.6#	79	0.00
46		Methyl methacrylate	0.438	0.370	15.5	100	0.00
47		n-amyl Acetate	0.805	0.609	24.3	92	0.00
48	M	t-1,3-Dichloropropene	0.603	0.548	9.1	109	0.00

Sample Results: **VN085418.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011025\
Data File : VN085418.D
Acq On : 10 Jan 2025 10:56
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Jan 10 22:39:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
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	cis-1,3-Dichloropropene	0.648	0.616	4.9	113	0.00
50	M	1,1,2-Trichloroethane	0.382	0.366	4.2	108	0.00
51		Ethyl methacrylate	0.578	0.487	15.7	104	0.00
52		1,3-Dichloropropane	0.667	0.616	7.6	105	0.00
53	M	Dibromochloromethane	0.448	0.404	9.8	103	0.00
54	M	1,2-Dibromoethane	0.370	0.334	9.7	105	0.00
55	M	2-Chloroethyl vinyl ether	0.298	0.243	18.5	99	0.00
56	M	Bromoform	0.292	0.246	15.8	99	0.00
57	I	Chlorobenzene-d5	1.000	1.000	0.0	112	0.00
58	M	4-Methyl-2-Pentanone	0.608	0.529	13.0	93	0.00
59	M	2-Hexanone	0.442	0.365	17.4	89	0.00
60	S	4-Bromofluorobenzene	0.486	0.454	6.6	104	0.00
61	M	Tetrachloroethene	0.335	0.358	-6.9	117	0.00
62	M	Toluene	1.843	1.853	-0.5	109	0.00
63	S	Toluene-d8	1.465	1.436	2.0	107	0.00
64	M	Chlorobenzene	1.112	1.085	2.4	108	0.00
65		1,1,1,2-Tetrachloroethane	0.403	0.397	1.5	106	0.00
66	M	Ethyl Benzene	1.939	1.871	3.5	109	0.00
67	M	m/p-Xylenes	0.728	0.720	1.1	107	0.00
68	M	o-Xylene	0.693	0.661	4.6	107	0.00
69	M	Styrene	1.171	1.112	5.0	104	0.00
70		Isopropylbenzene	1.740	1.721	1.1	112	0.00
71	M	1,1,2,2-Tetrachloroethane	0.617	0.538	12.8	96	0.00
72		1,2,3-Trichloropropane	0.525	0.487	7.2	108	0.00
73		Bromobenzene	0.430	0.405	5.8	102	0.00
74		n-propylbenzene	2.168	2.073	4.4	107	0.00
75		2-Chlorotoluene	1.306	1.258	3.7	107	0.00
76		1,3,5-Trimethylbenzene	1.485	1.423	4.2	105	0.00
77		t-1,4-Dichloro-2-butene	0.215	0.176	18.1	98	0.00
78		4-Chlorotoluene	1.328	1.248	6.0	105	0.00
79		tert-butylbenzene	1.214	1.175	3.2	112	0.00
80		1,2,4-Trimethylbenzene	1.478	1.452	1.8	109	0.00
81		sec-Butylbenzene	1.753	1.708	2.6	112	0.00
82		p-Isopropyltoluene	1.444	1.392	3.6	113	0.00
83	M	1,3-Dichlorobenzene	0.802	0.753	6.1	103	0.00
84	M	1,4-Dichlorobenzene	0.776	0.732	5.7	109	0.00
85		n-Butylbenzene	1.247	1.162	6.8	113	0.00
86	T	Hexachloroethane	0.310	0.290	6.5	102	0.00
87	M	1,2-Dichlorobenzene	0.762	0.713	6.4	104	0.00
88		1,2-Dibromo-3-Chloropropane	0.113	0.097	14.2	97	0.00
89		1,2,4-Trichlorobenzene	0.361	0.347	3.9	113	0.00
90		Hexachlorobutadiene	0.180	0.175	2.8	110	0.00
91	M	Naphthalene	1.159	0.982	15.3	105	0.00
92		1,2,3-Trichlorobenzene	0.361	0.347	3.9	113	0.00

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

Sample Results: **VN085418.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011025\
Data File : VN085418.D
Acq On : 10 Jan 2025 10:56
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Jan 10 22:39:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
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	Bromochloromethane	30.000	30.000	0.0	111	0.00
2	M	Dichlorodifluoromethane	20.000	19.669	1.7	104	0.00
3	M	Chloromethane	20.000	18.387	8.1	99	0.00
4	M	Vinyl Chloride	20.000	18.729	6.4	103	0.00
5	M	Bromomethane	20.000	19.409	3.0	109	0.00
6	M	Chloroethane	20.000	19.365	3.2	104	0.00
7	M	Trichlorofluoromethane	20.000	20.319	-1.6	110	0.00
8	T	Diethyl Ether	20.000	19.918	0.4	115	0.00
9		1,1,2-Trichlorotrifluoroeth	20.000	21.144	-5.7	114	0.00
10	M	1,1-Dichloroethene	20.000	19.639	1.8	111	0.00
11		Methyl Iodide	20.000	20.092	-0.5	117	0.00
12		Methyl Acetate	20.000	20.141	-0.7	110	0.00
13	M	Acrolein	100.000	100.968	-1.0	126	0.00
14	M	Acrylonitrile	100.000	86.217	13.8	96	0.00
15	M	Acetone	100.000	94.263	5.7	103	0.00
16	M	Carbon Disulfide	20.000	18.645	6.8	103	0.00
17		Allyl chloride	20.000	19.301	3.5	110	0.00
18	M	Methylene Chloride	20.000	19.546	2.3	107	0.00
19	M	trans-1,2-Dichloroethene	20.000	20.086	-0.4	112	0.00
20	T	Diisopropyl ether	20.000	20.237	-1.2	110	0.00
21	M	1,1-Dichloroethane	20.000	20.150	-0.7	110	0.00
22	M	cis-1,2-Dichloroethene	20.000	20.120	-0.6	113	0.00
23	M	tert-Butyl Alcohol	100.000	71.457	28.5#	83	0.00
24	M	Methyl tert-Butyl Ether	20.000	19.810	1.0	111	-0.01
25	M	Chloroform	20.000	19.814	0.9	107	0.00
26		Cyclohexane	20.000	20.142	-0.7	114	0.00
27	s	1,2-Dichloroethane-d4	30.000	29.265	2.4	108	0.00
28	I	1,4-Difluorobenzene	30.000	30.000	0.0	119	0.00
29		1,1-Dichloropropene	20.000	19.399	3.0	114	0.00
30	M	2-Butanone	100.000	80.645	19.4	94	0.00
31		2,2-Dichloropropane	20.000	19.647	1.8	114	0.00
32	M	1,1,1-Trichloroethane	20.000	19.030	4.8	110	0.00
33	M	Carbon Tetrachloride	20.000	18.702	6.5	109	0.00
34	M	Benzene	20.000	18.970	5.2	109	0.00
35		Methacrylonitrile	20.000	17.107	14.5	101	0.00
36	M	1,2-Dichloroethane	20.000	19.126	4.4	111	0.00
37	M	Trichloroethene	20.000	19.343	3.3	113	0.00
38		Methylcyclohexane	20.000	18.783	6.1	120	0.00
39	M	1,2-Dichloropropane	20.000	18.635	6.8	108	0.00
40		Dibromomethane	20.000	18.382	8.1	106	0.00
41	M	Bromodichloromethane	20.000	18.665	6.7	107	0.00
42	M	Vinyl Acetate	100.000	86.656	13.3	104	0.00
43		Ethyl Acetate	20.000	16.978	15.1	103	0.00
44		Isopropyl Acetate	20.000	17.622	11.9	104	0.00
45	T	1,4-Dioxane	400.000	268.750	32.8#	79	0.00
46		Methyl methacrylate	20.000	16.885	15.6	100	0.00
47		n-amyl Acetate	20.000	15.146	24.3	92	0.00
48	M	t-1,3-Dichloropropene	20.000	18.167	9.2	109	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011025\
Data File : VN085418.D
Acq On : 10 Jan 2025 10:56
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Jan 10 22:39:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
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	cis-1,3-Dichloropropene	20.000	19.006	5.0	113	0.00
50	M	1,1,2-Trichloroethane	20.000	19.170	4.1	108	0.00
51		Ethyl methacrylate	20.000	16.849	15.8	104	0.00
52		1,3-Dichloropropane	20.000	18.479	7.6	105	0.00
53	M	Dibromochloromethane	20.000	18.058	9.7	103	0.00
54	M	1,2-Dibromoethane	20.000	18.063	9.7	105	0.00
55	M	2-Chloroethyl vinyl ether	100.000	81.596	18.4	99	0.00
56	M	Bromoform	20.000	16.838	15.8	99	0.00
57	I	Chlorobenzene-d5	30.000	30.000	0.0	112	0.00
58	M	4-Methyl-2-Pentanone	100.000	86.957	13.0	93	0.00
59	M	2-Hexanone	100.000	82.589	17.4	89	0.00
60	S	4-Bromofluorobenzene	30.000	28.023	6.6	104	0.00
61	M	Tetrachloroethene	20.000	21.374	-6.9	117	0.00
62	M	Toluene	20.000	20.113	-0.6	109	0.00
63	S	Toluene-d8	30.000	29.411	2.0	107	0.00
64	M	Chlorobenzene	20.000	19.531	2.3	108	0.00
65		1,1,1,2-Tetrachloroethane	20.000	19.707	1.5	106	0.00
66	M	Ethyl Benzene	20.000	19.299	3.5	109	0.00
67	M	m/p-Xylenes	40.000	39.595	1.0	107	0.00
68	M	o-Xylene	20.000	19.070	4.6	107	0.00
69	M	Styrene	20.000	18.987	5.1	104	0.00
70		Isopropylbenzene	20.000	19.781	1.1	112	0.00
71	M	1,1,2,2-Tetrachloroethane	20.000	17.426	12.9	96	0.00
72		1,2,3-Trichloropropane	20.000	18.533	7.3	108	0.00
73		Bromobenzene	20.000	18.850	5.7	102	0.00
74		n-propylbenzene	20.000	19.123	4.4	107	0.00
75		2-Chlorotoluene	20.000	19.259	3.7	107	0.00
76		1,3,5-Trimethylbenzene	20.000	19.171	4.1	105	0.00
77		t-1,4-Dichloro-2-butene	20.000	16.435	17.8	98	0.00
78		4-Chlorotoluene	20.000	18.801	6.0	105	0.00
79		tert-butylbenzene	20.000	19.356	3.2	112	0.00
80		1,2,4-Trimethylbenzene	20.000	19.650	1.8	109	0.00
81		sec-Butylbenzene	20.000	19.489	2.6	112	0.00
82		p-Isopropyltoluene	20.000	19.277	3.6	113	0.00
83	M	1,3-Dichlorobenzene	20.000	18.789	6.1	103	0.00
84	M	1,4-Dichlorobenzene	20.000	18.862	5.7	109	0.00
85		n-Butylbenzene	20.000	18.640	6.8	113	0.00
86	T	Hexachloroethane	20.000	18.706	6.5	102	0.00
87	M	1,2-Dichlorobenzene	20.000	18.718	6.4	104	0.00
88		1,2-Dibromo-3-Chloropropane	20.000	17.276	13.6	97	0.00
89		1,2,4-Trichlorobenzene	20.000	19.254	3.7	113	0.00
90		Hexachlorobutadiene	20.000	19.449	2.8	110	0.00
91	M	Naphthalene	20.000	16.934	15.3	105	0.00
92		1,2,3-Trichlorobenzene	20.000	19.254	3.7	113	0.00

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

QC SAMPLE DATA

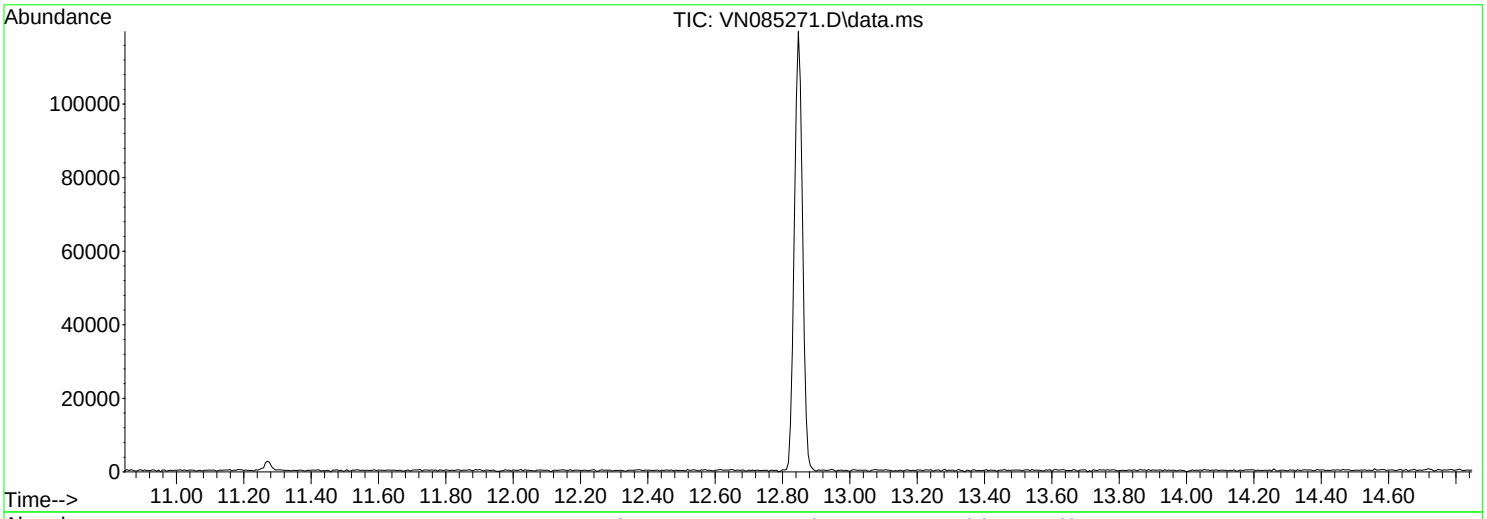
Sample Results: **VN085271.D**

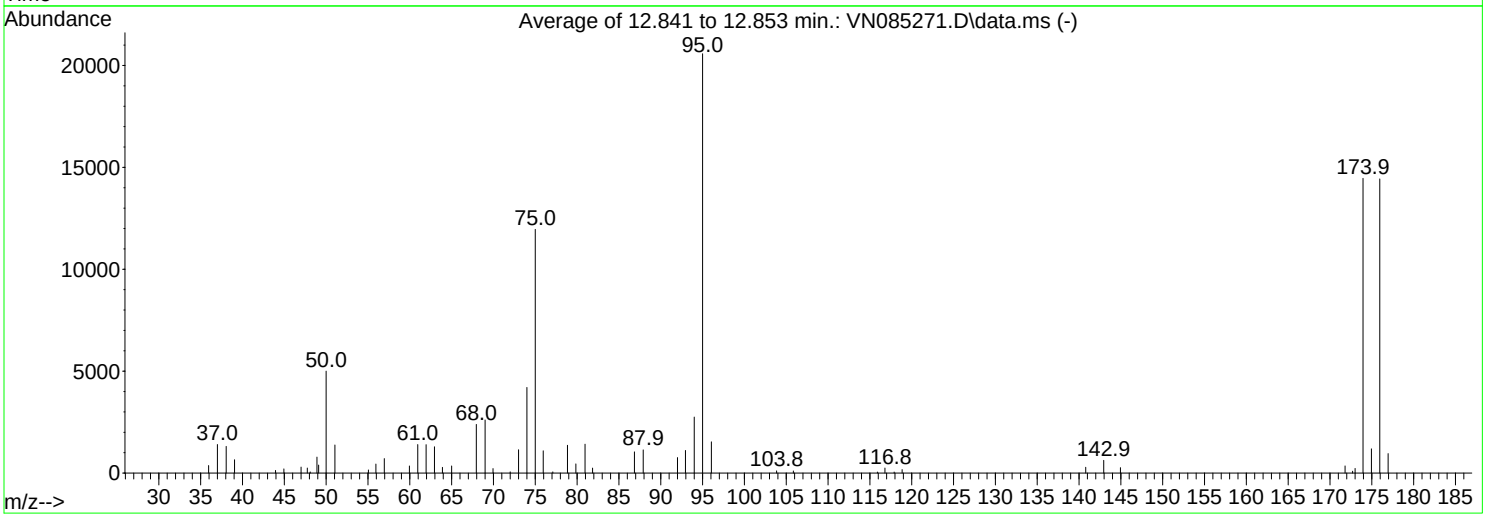
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085271.D
Acq On : 20 Dec 2024 09:21
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT3.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Sat Dec 21 02:03:07 2024





AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1844

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.3	5003	PASS
75	95	30	60	58.1	11958	PASS
95	95	100	100	100.0	20576	PASS
96	95	5	9	7.5	1534	PASS
173	174	0.00	2	1.6	229	PASS
174	95	50	100	70.3	14462	PASS
175	174	5	9	8.2	1190	PASS
176	174	95	101	99.8	14434	PASS
177	176	5	9	6.6	957	PASS

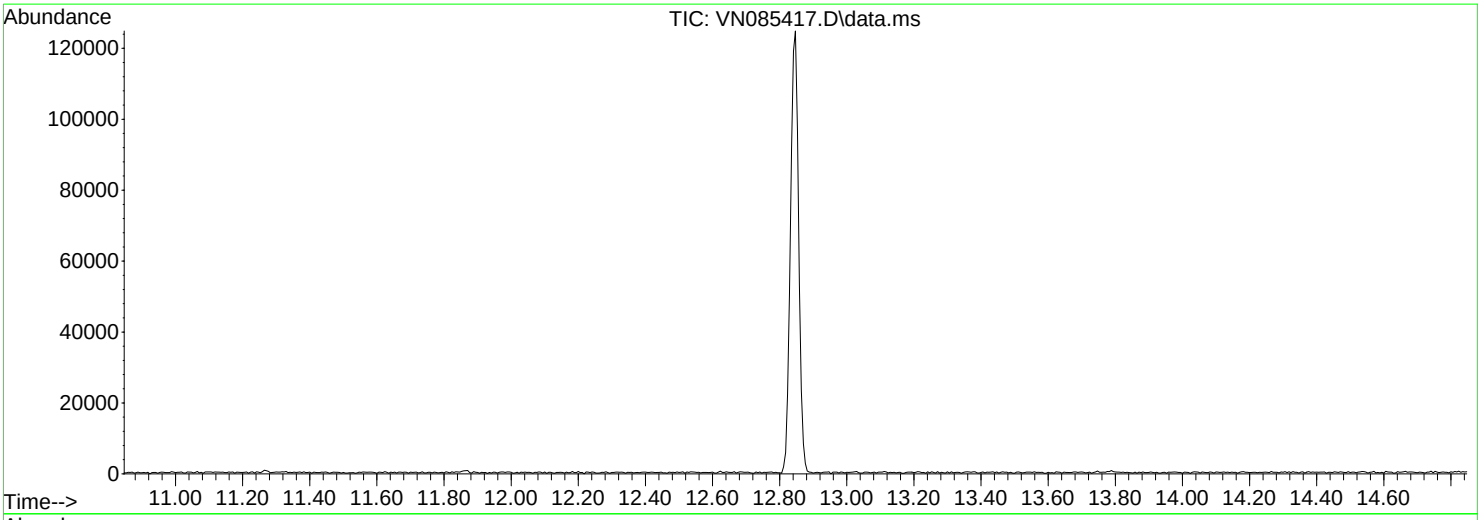
Sample Results: **VN085417.D**

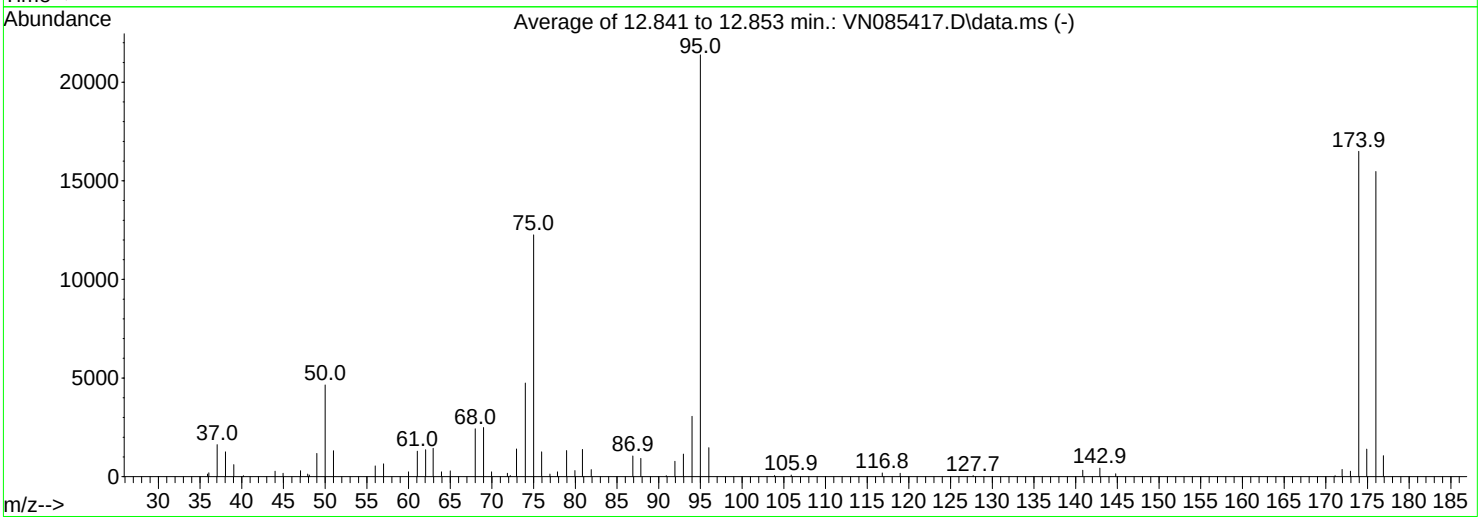
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011025\
Data File : VN085417.D
Acq On : 10 Jan 2025 09:42
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT3.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Sat Dec 21 02:03:07 2024





AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1844

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.7	4650	PASS
75	95	30	60	57.3	12258	PASS
95	95	100	100	100.0	21387	PASS
96	95	5	9	6.9	1470	PASS
173	174	0.00	2	1.7	275	PASS
174	95	50	100	77.1	16492	PASS
175	174	5	9	8.4	1392	PASS
176	174	95	101	93.8	15468	FAIL*
177	176	5	9	6.8	1059	PASS

Raw Data: **VN085421.D**

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

Report of Analysis

Client:	Ardmore Chemical		Date Collected:		
Project:	PVSC Monthly 2025		Date Received:		
Client Sample ID:	VN0110WBL01		SDG No.:	Q1066	
Lab Sample ID:	VN0110WBL01		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5 Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-PP	
GC Column:	RXI-624 ID :	0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085421.D	1		01/10/25 12:21	VN011025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/L
75-01-4	Vinyl Chloride	1.20	U	1.20	5.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	2.90	U	2.90	5.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	1.00	5.00	ug/L
75-35-4	1,1-Dichloroethene	1.10	U	1.10	5.00	ug/L
107-02-8	Acrolein	9.30	U	9.30	25.0	ug/L
107-13-1	Acrylonitrile	3.70	U	3.70	25.0	ug/L
75-09-2	Methylene Chloride	1.20	U	1.20	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.95	U	0.95	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.81	U	0.81	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.91	U	0.91	5.00	ug/L
67-66-3	Chloroform	0.72	U	0.72	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.79	U	0.79	5.00	ug/L
71-43-2	Benzene	0.69	U	0.69	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.75	U	0.75	5.00	ug/L
79-01-6	Trichloroethene	0.77	U	0.77	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.65	U	0.65	5.00	ug/L
75-27-4	Bromodichloromethane	0.81	U	0.81	5.00	ug/L
108-88-3	Toluene	0.72	U	0.72	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.79	U	0.79	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.83	U	0.83	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.68	U	0.68	5.00	ug/L
110-75-8	2-Chloroethyl vinyl ether	5.60	U	5.60	25.0	ug/L
124-48-1	Dibromochloromethane	0.72	U	0.72	5.00	ug/L
127-18-4	Tetrachloroethene	0.94	U	0.94	5.00	ug/L
108-90-7	Chlorobenzene	0.67	U	0.67	5.00	ug/L
100-41-4	Ethyl Benzene	0.73	U	0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	1.70	U	1.70	10.0	ug/L
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/L

Raw Data: **VN085421.D**

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

Report of Analysis

Client:	Ardmore Chemical		Date Collected:		
Project:	PVSC Monthly 2025		Date Received:		
Client Sample ID:	VN0110WBL01		SDG No.:	Q1066	
Lab Sample ID:	VN0110WBL01		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5 Units: mL		Final Vol:	5000	uL
Soil Aliquot Vol:	uL		Test:	VOC-PP	
GC Column:	RXI-624 ID : 0.25		Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085421.D	1		01/10/25 12:21	VN011025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
75-25-2	Bromoform	1.00	U	1.00	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	0.60	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.88	U	0.88	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.95	U	0.95	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.88	U	0.88	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.6		91 - 110	99%	SPK: 30
2037-26-5	Toluene-d8	28.9		91 - 112	96%	SPK: 30
460-00-4	4-Bromofluorobenzene	23.5		63 - 112	78%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	28200	7.812			
540-36-3	1,4-Difluorobenzene	140000	9.1			
3114-55-4	Chlorobenzene-d5	126000	11.865			

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\VN011025\
Data File : VN085421.D
Acq On : 10 Jan 2025 12:21
Operator : JC\MD
Sample : VN0110WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0110WBL01

Quant Time: Jan 10 22:44:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
Response via : Initial Calibration

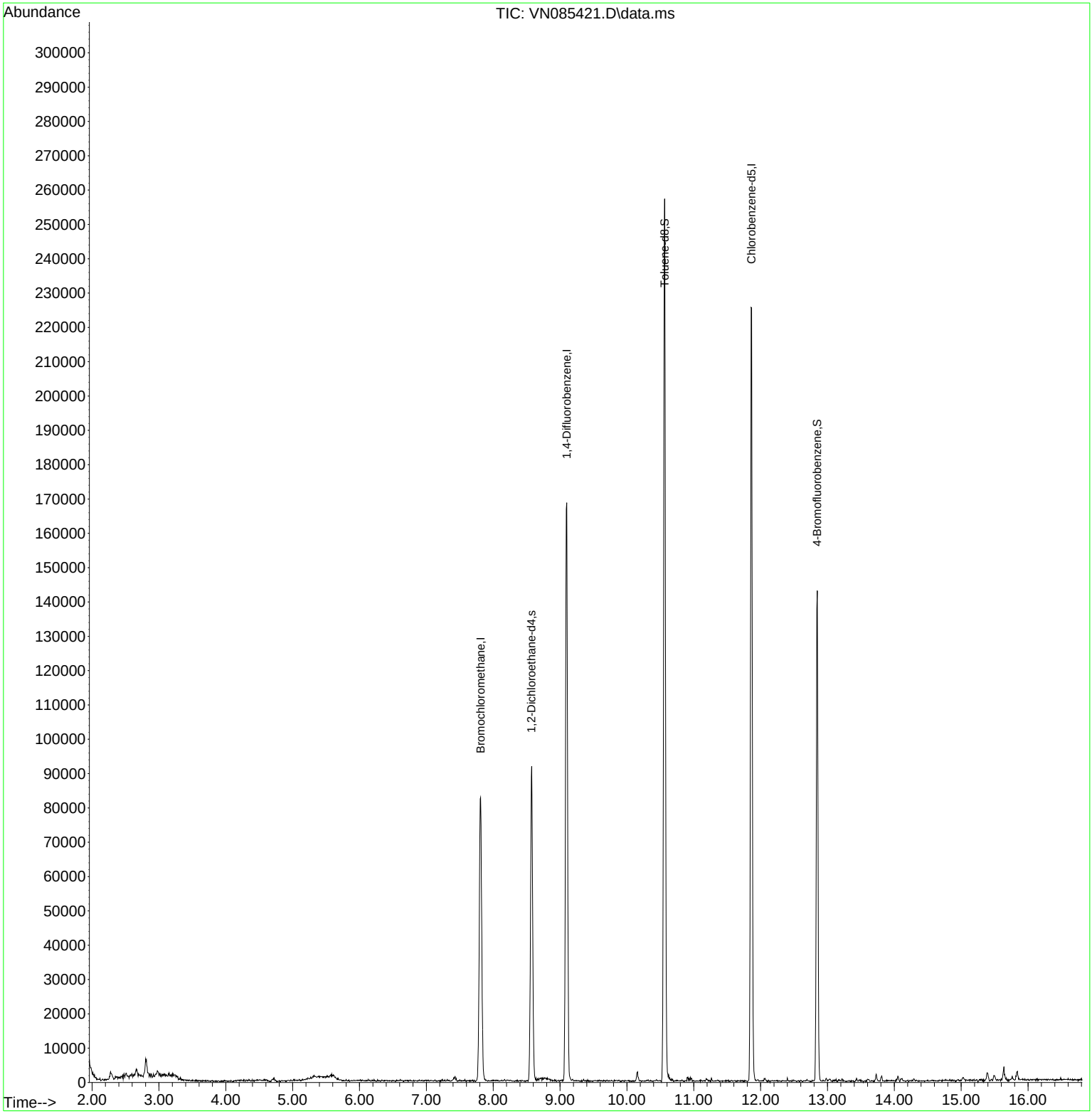
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.812	128	28161	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	139569	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	125667	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	73441	29.646	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 98.833%			
60) 4-Bromofluorobenzene	12.847	95	47781	23.473	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 78.233%			
63) Toluene-d8	10.565	98	177448	28.918	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 96.400%			
Target Compounds						Qvalue

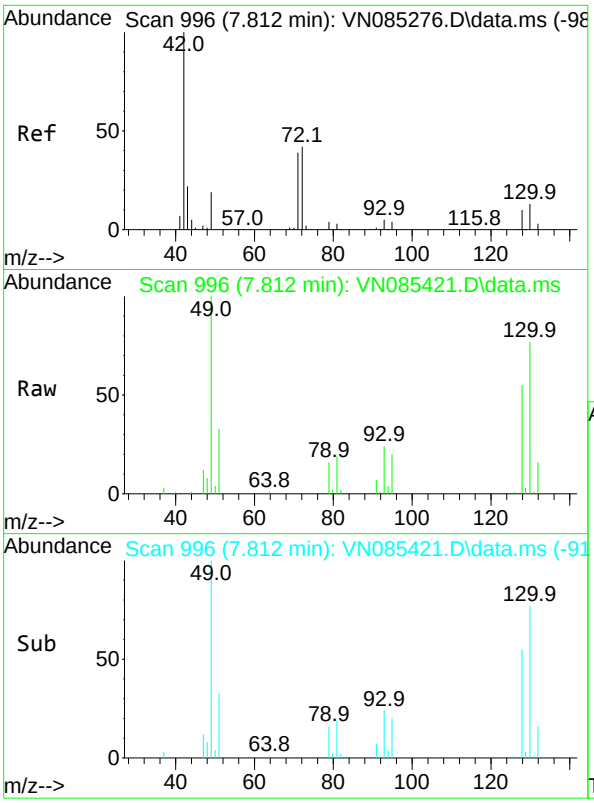
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011025\
Data File : VN085421.D
Acq On : 10 Jan 2025 12:21
Operator : JC\MD
Sample : VN0110WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0110WBL01

Quant Time: Jan 10 22:44:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
Response via : Initial Calibration



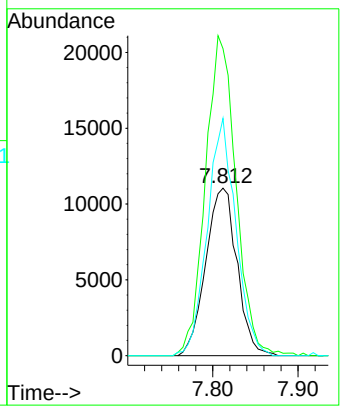


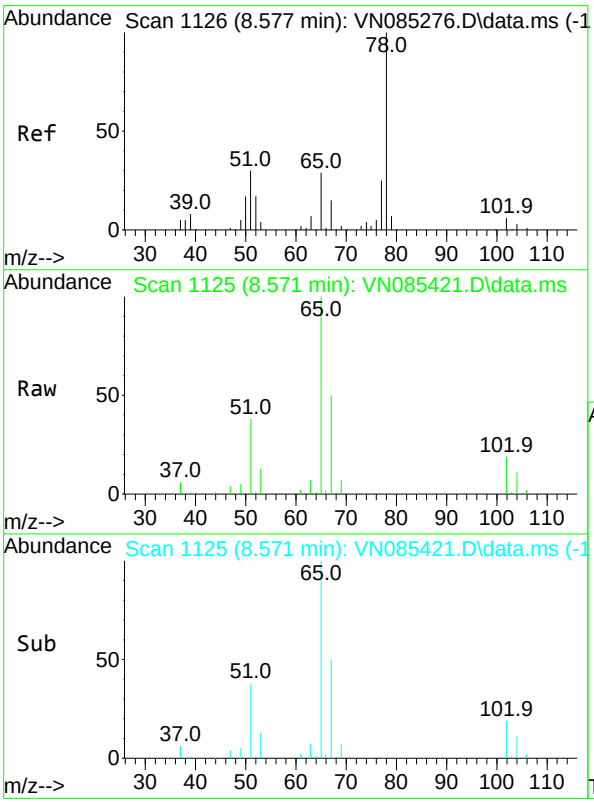
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN085421.D
Acq: 10 Jan 2025 12:21

Instrument :
MSVOA_N
ClientSampleId :
VN0110WBL01

Tgt Ion:128 Resp: 28161

Ion	Ratio	Lower	Upper
128	100		
49	186.1	0.0	497.8
130	129.6	0.0	328.5

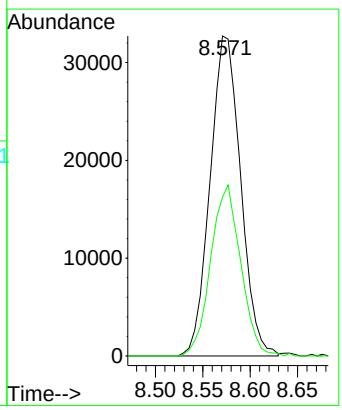


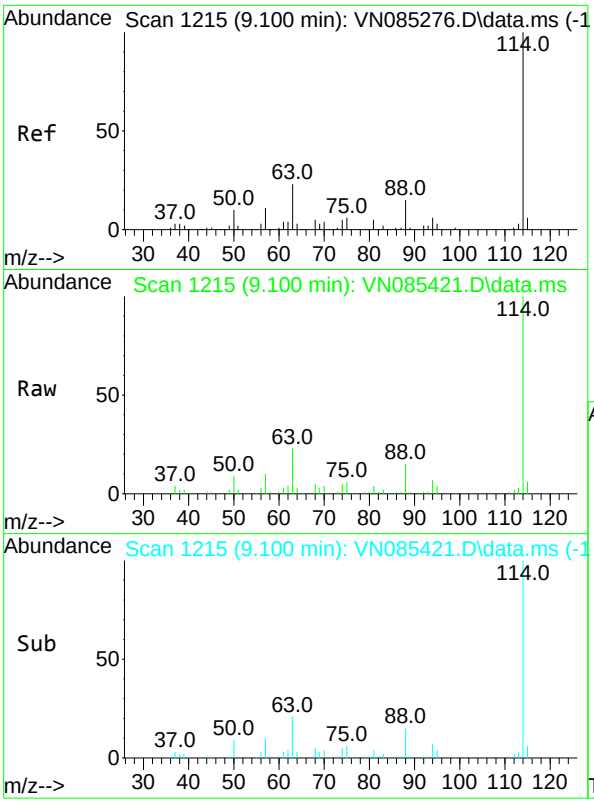


#27
1,2-Dichloroethane-d4
Concen: 29.646 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.006 min
Lab File: VN085421.D
Acq: 10 Jan 2025 12:21

Tgt Ion: 65 Resp: 73441

Ion	Ratio	Lower	Upper
65	100		
67	52.3	42.0	63.0



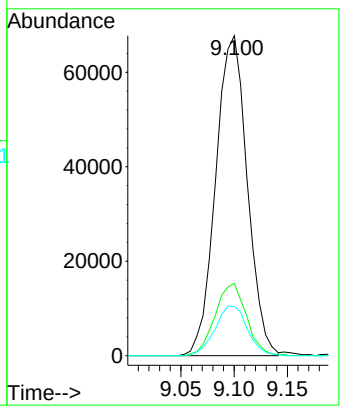


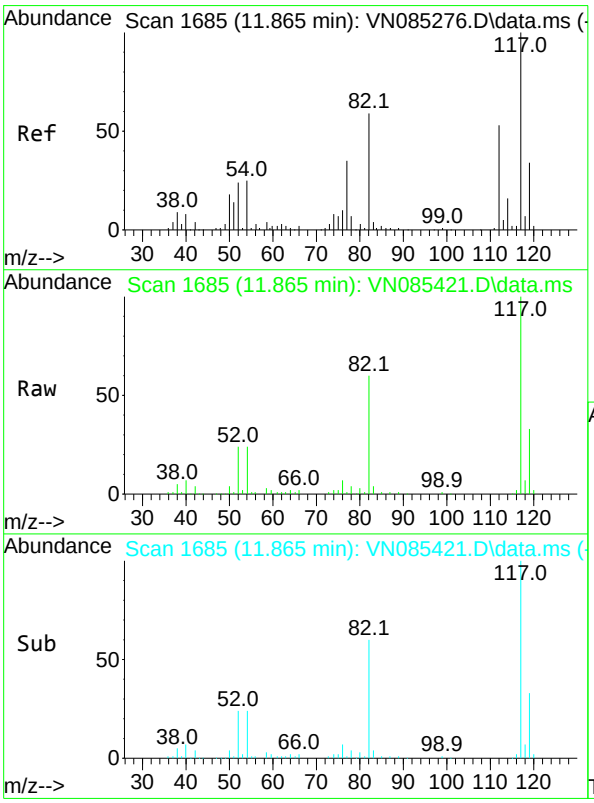
#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085421.D
Acq: 10 Jan 2025 12:21

Instrument :
MSVOA_N
ClientSampleId :
VN0110WBL01

Tgt Ion:114 Resp: 139569

Ion	Ratio	Lower	Upper
114	100		
63	22.4	18.0	27.0
88	15.9	12.9	19.3

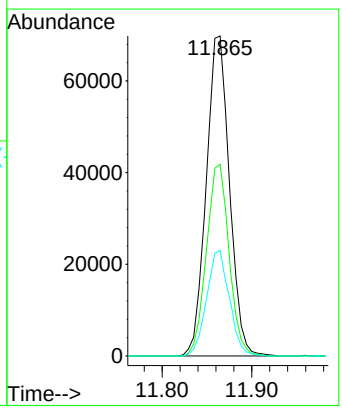


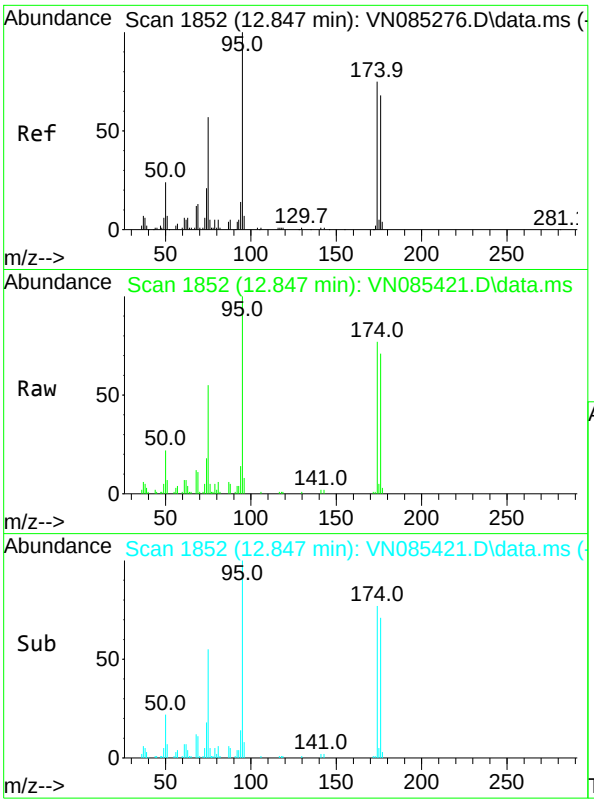


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN085421.D
Acq: 10 Jan 2025 12:21

Tgt Ion:117 Resp: 125667

Ion	Ratio	Lower	Upper
117	100		
82	58.4	47.4	71.0
119	32.3	25.3	37.9



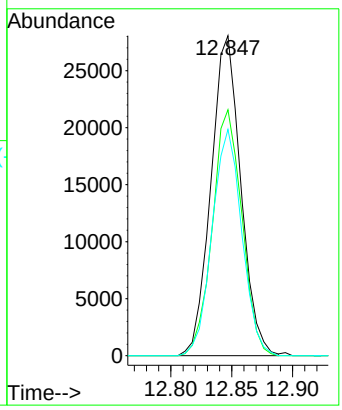


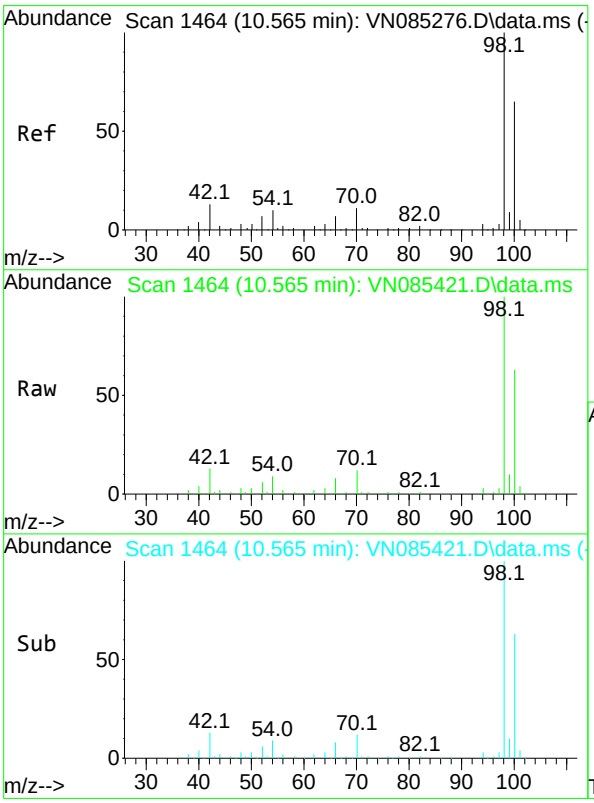
#60
4-Bromofluorobenzene
Concen: 23.473 ug/l
RT: 12.847 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085421.D
Acq: 10 Jan 2025 12:21

Instrument :
MSVOA_N
ClientSampleId :
VN0110WBL01

Tgt Ion: 95 Resp: 47781

Ion	Ratio	Lower	Upper
95	100		
174	75.9	57.8	86.8
176	70.5	57.1	85.7

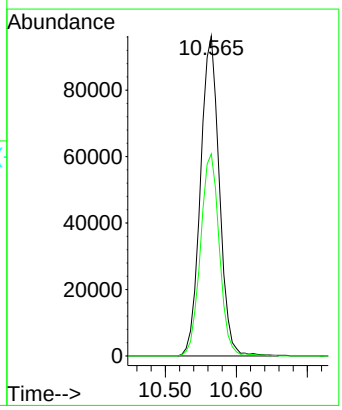




#63
Toluene-d8
Concen: 28.918 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085421.D
Acq: 10 Jan 2025 12:21

Tgt Ion: 98 Resp: 177448

Ion	Ratio	Lower	Upper
98	100		
100	62.8	50.8	76.2



Raw Data: **VN085419.D**

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

Report of Analysis

Client:	Ardmore Chemical		Date Collected:		
Project:	PVSC Monthly 2025		Date Received:		
Client Sample ID:	VN0110WBS01		SDG No.:	Q1066	
Lab Sample ID:	VN0110WBS01		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5 Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-PP	
GC Column:	RXI-624 ID :	0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085419.D	1		01/10/25 11:33	VN011025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
74-87-3	Chloromethane	20.2		1.20	5.00	ug/L
75-01-4	Vinyl Chloride	20.2		1.20	5.00	ug/L
74-83-9	Bromomethane	21.0		1.40	5.00	ug/L
75-00-3	Chloroethane	20.8		2.90	5.00	ug/L
75-69-4	Trichlorofluoromethane	21.7		1.00	5.00	ug/L
75-35-4	1,1-Dichloroethene	21.6		1.10	5.00	ug/L
107-02-8	Acrolein	110		9.30	25.0	ug/L
107-13-1	Acrylonitrile	96.6		3.70	25.0	ug/L
75-09-2	Methylene Chloride	21.3		1.20	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	21.5		0.95	5.00	ug/L
75-34-3	1,1-Dichloroethane	21.8		0.81	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.6		0.91	5.00	ug/L
67-66-3	Chloroform	21.6		0.72	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.3		0.79	5.00	ug/L
71-43-2	Benzene	20.6		0.69	5.00	ug/L
107-06-2	1,2-Dichloroethane	20.1		0.75	5.00	ug/L
79-01-6	Trichloroethene	20.5		0.77	5.00	ug/L
78-87-5	1,2-Dichloropropane	20.5		0.65	5.00	ug/L
75-27-4	Bromodichloromethane	20.2		0.81	5.00	ug/L
108-88-3	Toluene	21.1		0.72	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	20.4		0.79	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.7		0.83	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.8		0.68	5.00	ug/L
110-75-8	2-Chloroethyl vinyl ether	85.4		5.60	25.0	ug/L
124-48-1	Dibromochloromethane	19.8		0.72	5.00	ug/L
127-18-4	Tetrachloroethene	22.1		0.94	5.00	ug/L
108-90-7	Chlorobenzene	21.6		0.67	5.00	ug/L
100-41-4	Ethyl Benzene	20.8		0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	42.9		1.70	10.0	ug/L
95-47-6	o-Xylene	21.2		0.82	5.00	ug/L

Raw Data: **VN085419.D**

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

Report of Analysis

Client:	Ardmore Chemical		Date Collected:		
Project:	PVSC Monthly 2025		Date Received:		
Client Sample ID:	VN0110WBS01		SDG No.:	Q1066	
Lab Sample ID:	VN0110WBS01		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5 Units: mL		Final Vol:	5000	uL
Soil Aliquot Vol:	uL		Test:	VOC-PP	
GC Column:	RXI-624 ID : 0.25		Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085419.D	1		01/10/25 11:33	VN011025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
75-25-2	Bromoform	18.2		1.00	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.1		0.60	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	21.0		0.88	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.7		0.95	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	21.6		0.88	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.6		91 - 110	99%	SPK: 30
2037-26-5	Toluene-d8	30.0		91 - 112	100%	SPK: 30
460-00-4	4-Bromofluorobenzene	29.5		63 - 112	98%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	31500	7.812			
540-36-3	1,4-Difluorobenzene	175000	9.094			
3114-55-4	Chlorobenzene-d5	159000	11.859			

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\VN011025\
Data File : VN085419.D
Acq On : 10 Jan 2025 11:33
Operator : JC\MD
Sample : VN0110WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0110WBS01

Quant Time: Jan 10 22:40:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.812	128	31512	30.000	ug/l		0.00
28) 1,4-Difluorobenzene	9.094	114	174744	30.000	ug/l		0.00
57) Chlorobenzene-d5	11.859	117	158580	30.000	ug/l		0.00
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.571	65	82108	29.620	ug/l		0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 98.733%				
60) 4-Bromofluorobenzene	12.847	95	75788	29.504	ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.333%				
63) Toluene-d8	10.559	98	232183	29.984	ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.933%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	55214	20.955	ug/l		97
3) Chloromethane	2.359	50	53746	20.203	ug/l		95
4) Vinyl Chloride	2.512	62	54510	20.180	ug/l		98
5) Bromomethane	2.965	94	33201	21.025	ug/l		100
6) Chloroethane	3.124	64	35385	20.751	ug/l		95
7) Trichlorofluoromethane	3.506	101	80400	21.665	ug/l		96
8) Diethyl Ether	3.959	74	26994	21.121	ug/l		97
9) 1,1,2-Trichlorotrifluo...	4.371	101	47692	22.380	ug/l		82
10) 1,1-Dichloroethene	4.342	96	42076	21.614	ug/l		99
11) Methyl Iodide	4.589	142	52645	22.564	ug/l		98
12) Methyl Acetate	5.018	43	64678	22.247	ug/l		99
13) Acrolein	4.171	56	28984	111.678	ug/l	#	68
14) Acrylonitrile	5.712	53	108604	96.587	ug/l		98
15) Acetone	4.418	58	27899	98.360	ug/l		99
16) Carbon Disulfide	4.712	76	119284	20.158	ug/l		96
17) Allyl chloride	5.024	41	65284	20.731	ug/l		92
18) Methylene Chloride	5.271	84	49314	21.258	ug/l		97
19) trans-1,2-Dichloroethene	5.783	96	43549	21.508	ug/l		92
20) Diisopropyl ether	6.665	45	155139	21.496	ug/l		98
21) 1,1-Dichloroethane	6.559	63	91911	21.784	ug/l	#	95
22) cis-1,2-Dichloroethene	7.477	96	52335	21.706	ug/l		99
23) tert-Butyl Alcohol	5.512	59	32287	87.128	ug/l	#	100
24) Methyl tert-Butyl Ether	5.789	73	140947	22.059	ug/l		95
25) Chloroform	7.959	83	92301	21.581	ug/l		97
26) Cyclohexane	8.253	56	67571	21.005	ug/l	#	97
29) 1,1-Dichloropropene	8.365	75	63120	20.805	ug/l		99
30) 2-Butanone	7.477	43	142404	88.920	ug/l		98
31) 2,2-Dichloropropane	7.483	77	80838	21.027	ug/l		99
32) 1,1,1-Trichloroethane	8.165	97	79941	20.269	ug/l		99
33) Carbon Tetrachloride	8.359	117	71059	20.581	ug/l		98
34) Benzene	8.600	78	197604	20.605	ug/l		98
35) Methacrylonitrile	7.777	41	33380	18.829	ug/l		99
36) 1,2-Dichloroethane	8.665	62	69584	20.065	ug/l	#	91
37) Trichloroethene	9.347	130	43267	20.505	ug/l		91
38) Methylcyclohexane	9.594	83	63951	20.369	ug/l		95
39) 1,2-Dichloropropane	9.618	63	49902	20.452	ug/l		99
40) Dibromomethane	9.700	93	34052	20.017	ug/l		98
41) Bromodichloromethane	9.883	83	71873	20.217	ug/l		99
42) Vinyl Acetate	6.595	43	534666	94.580	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011025\
Data File : VN085419.D
Acq On : 10 Jan 2025 11:33
Operator : JC\MD
Sample : VN0110WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0110WBS01

Quant Time: Jan 10 22:40:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
Response via : Initial Calibration

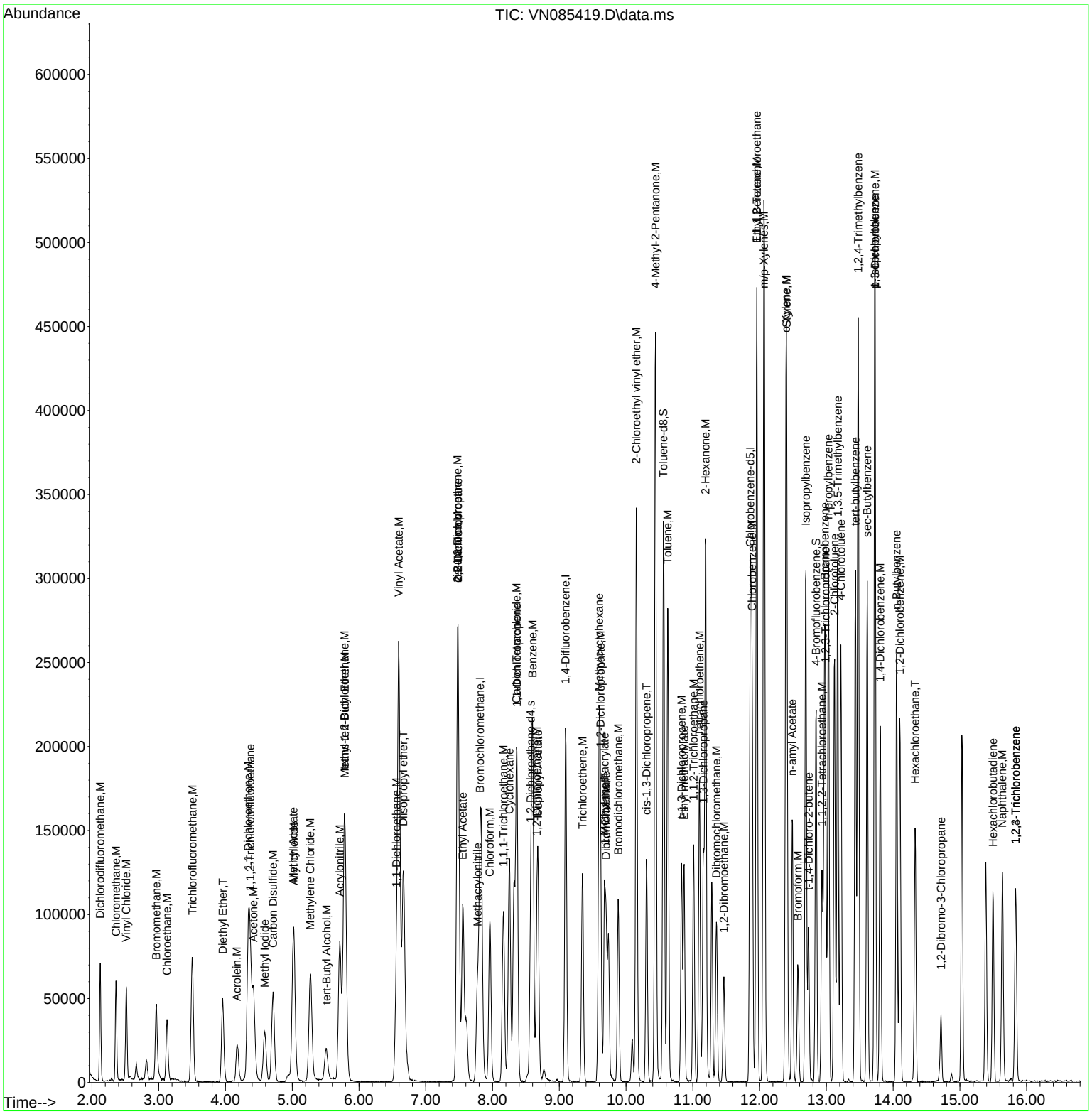
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	61368	18.530	ug/l	96
44) Isopropyl Acetate	8.683	43	102325	18.599	ug/l	99
45) 1,4-Dioxane	9.688	88	14307	334.335	ug/l	100
46) Methyl methacrylate	9.677	41	47868	18.744	ug/l	95
47) n-amyl Acetate	12.488	43	82190	17.536	ug/l	99
48) t-1,3-Dichloropropene	10.830	75	71496	20.360	ug/l	97
49) cis-1,3-Dichloropropene	10.306	75	77970	20.653	ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	43971	19.764	ug/l	98
51) Ethyl methacrylate	10.871	69	64540	19.180	ug/l	93
52) 1,3-Dichloropropane	11.159	76	78537	20.223	ug/l	97
53) Dibromochloromethane	11.353	129	51529	19.766	ug/l	98
54) 1,2-Dibromoethane	11.465	107	42333	19.662	ug/l	98
55) 2-Chloroethyl vinyl ether	10.153	63	148014	85.393	ug/l	99
56) Bromoform	12.571	173	30949	18.198	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	301102	93.661	ug/l	99
59) 2-Hexanone	11.188	43	211060	90.373	ug/l	98
61) Tetrachloroethene	11.100	164	39076	22.073	ug/l	88
62) Toluene	10.624	91	205407	21.084	ug/l	100
64) Chlorobenzene	11.888	112	126737	21.569	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	45615	21.406	ug/l	96
66) Ethyl Benzene	11.959	91	213047	20.783	ug/l	94
67) m/p-Xylenes	12.065	106	165155	42.944	ug/l	100
68) o-Xylene	12.394	106	77801	21.238	ug/l	98
69) Styrene	12.406	104	130260	21.040	ug/l	99
70) Isopropylbenzene	12.694	105	198717	21.603	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	62162	19.054	ug/l	98
72) 1,2,3-Trichloropropane	12.988	75	54928m	19.782	ug/l	
73) Bromobenzene	12.976	156	46972	20.670	ug/l	98
74) n-propylbenzene	13.029	91	240044	20.947	ug/l	98
75) 2-Chlorotoluene	13.123	91	146170	21.174	ug/l	99
76) 1,3,5-Trimethylbenzene	13.171	105	167566	21.349	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	20704	18.245	ug/l	89
78) 4-Chlorotoluene	13.218	91	147080	20.955	ug/l	98
79) tert-butylbenzene	13.435	119	137558	21.431	ug/l	98
80) 1,2,4-Trimethylbenzene	13.476	105	168002	21.504	ug/l	99
81) sec-Butylbenzene	13.612	105	199871	21.568	ug/l	99
82) p-Isopropyltoluene	13.723	119	164693	21.580	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	89091	21.022	ug/l	99
84) 1,4-Dichlorobenzene	13.806	146	84756	20.671	ug/l	100
85) n-Butylbenzene	14.053	91	139177	21.123	ug/l	99
86) Hexachloroethane	14.329	117	32446	19.803	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	86991	21.606	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.717	75	10638	17.862	ug/l	99
89) 1,2,4-Trichlorobenzene	15.835	180	39049	20.471	ug/l	99
90) Hexachlorobutadiene	15.494	225	20609	21.675	ug/l	95
91) Naphthalene	15.635	128	115209	18.798	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	39049	20.471	ug/l	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011025\
Data File : VN085419.D
Acq On : 10 Jan 2025 11:33
Operator : JC\MD
Sample : VN0110WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0110WBS01

Quant Time: Jan 10 22:40:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
Response via : Initial Calibration



Raw Data: **VN085420.D**

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

Report of Analysis

Client:	Ardmore Chemical		Date Collected:		
Project:	PVSC Monthly 2025		Date Received:		
Client Sample ID:	VN0110WBSD01		SDG No.:	Q1066	
Lab Sample ID:	VN0110WBSD01		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5 Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-PP	
GC Column:	RXI-624 ID :	0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085420.D	1		01/10/25 11:57	VN011025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
74-87-3	Chloromethane	18.2		1.20	5.00	ug/L
75-01-4	Vinyl Chloride	18.6		1.20	5.00	ug/L
74-83-9	Bromomethane	19.2		1.40	5.00	ug/L
75-00-3	Chloroethane	18.7		2.90	5.00	ug/L
75-69-4	Trichlorofluoromethane	20.1		1.00	5.00	ug/L
75-35-4	1,1-Dichloroethene	20.2		1.10	5.00	ug/L
107-02-8	Acrolein	120		9.30	25.0	ug/L
107-13-1	Acrylonitrile	97.6		3.70	25.0	ug/L
75-09-2	Methylene Chloride	20.1		1.20	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	20.5		0.95	5.00	ug/L
75-34-3	1,1-Dichloroethane	20.7		0.81	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.7		0.91	5.00	ug/L
67-66-3	Chloroform	20.2		0.72	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.7		0.79	5.00	ug/L
71-43-2	Benzene	20.2		0.69	5.00	ug/L
107-06-2	1,2-Dichloroethane	20.0		0.75	5.00	ug/L
79-01-6	Trichloroethene	20.2		0.77	5.00	ug/L
78-87-5	1,2-Dichloropropane	20.4		0.65	5.00	ug/L
75-27-4	Bromodichloromethane	20.4		0.81	5.00	ug/L
108-88-3	Toluene	19.8		0.72	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.9		0.79	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.3		0.83	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.1		0.68	5.00	ug/L
110-75-8	2-Chloroethyl vinyl ether	110		5.60	25.0	ug/L
124-48-1	Dibromochloromethane	19.4		0.72	5.00	ug/L
127-18-4	Tetrachloroethene	20.5		0.94	5.00	ug/L
108-90-7	Chlorobenzene	20.8		0.67	5.00	ug/L
100-41-4	Ethyl Benzene	20.0		0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	40.8		1.70	10.0	ug/L
95-47-6	o-Xylene	20.2		0.82	5.00	ug/L

Raw Data: **VN085420.D**

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

Report of Analysis

Client:	Ardmore Chemical		Date Collected:		
Project:	PVSC Monthly 2025		Date Received:		
Client Sample ID:	VN0110WBSD01		SDG No.:	Q1066	
Lab Sample ID:	VN0110WBSD01		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5 Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-PP	
GC Column:	RXI-624 ID :	0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085420.D	1		01/10/25 11:57	VN011025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
75-25-2	Bromoform	18.8		1.00	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.4		0.60	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.1		0.88	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.7		0.95	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.6		0.88	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.5		91 - 110	98%	SPK: 30
2037-26-5	Toluene-d8	29.5		91 - 112	98%	SPK: 30
460-00-4	4-Bromofluorobenzene	28.9		63 - 112	96%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	34600	7.806			
540-36-3	1,4-Difluorobenzene	185000	9.095			
3114-55-4	Chlorobenzene-d5	173000	11.859			

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\VN011025\
Data File : VN085420.D
Acq On : 10 Jan 2025 11:57
Operator : JC\MD
Sample : VN0110WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0110WBSD01

Quant Time: Jan 10 22:41:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.806	128	34644	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.095	114	184595	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.859	117	172668	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	89757	29.452	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 98.167%			
60) 4-Bromofluorobenzene	12.847	95	80894	28.922	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.400%			
63) Toluene-d8	10.565	98	248920	29.523	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	56448	19.487	ug/l	95
3) Chloromethane	2.360	50	53085	18.151	ug/l	99
4) Vinyl Chloride	2.513	62	55299	18.621	ug/l	100
5) Bromomethane	2.954	94	33383	19.229	ug/l	100
6) Chloroethane	3.118	64	35127	18.738	ug/l	94
7) Trichlorofluoromethane	3.501	101	81913	20.077	ug/l	93
8) Diethyl Ether	3.954	74	28758	20.467	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.371	101	48417	20.666	ug/l	97
10) 1,1-Dichloroethene	4.336	96	43297	20.230	ug/l	96
11) Methyl Iodide	4.583	142	55372	21.588	ug/l	98
12) Methyl Acetate	5.018	43	71510	22.374	ug/l	91
13) Acrolein	4.177	56	34166	119.743	ug/l	99
14) Acrylonitrile	5.712	53	120647	97.597	ug/l	99
15) Acetone	4.424	58	29675	95.163	ug/l	96
16) Carbon Disulfide	4.712	76	120570	18.533	ug/l	96
17) Allyl chloride	5.018	41	67828	19.591	ug/l	99
18) Methylene Chloride	5.277	84	51243	20.093	ug/l	92
19) trans-1,2-Dichloroethene	5.783	96	45558	20.466	ug/l	93
20) Diisopropyl ether	6.665	45	165139	20.813	ug/l	95
21) 1,1-Dichloroethane	6.559	63	96081	20.713	ug/l	98
22) cis-1,2-Dichloroethene	7.483	96	55536	20.951	ug/l	96
23) tert-Butyl Alcohol	5.512	59	35324	86.706	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	150734	21.458	ug/l	98
25) Chloroform	7.959	83	95016	20.207	ug/l	97
26) Cyclohexane	8.253	56	71531	20.226	ug/l #	96
29) 1,1-Dichloropropene	8.365	75	64363	20.082	ug/l	100
30) 2-Butanone	7.477	43	158880	93.914	ug/l #	96
31) 2,2-Dichloropropane	7.489	77	83721	20.615	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	82250	19.741	ug/l	99
33) Carbon Tetrachloride	8.353	117	71733	19.668	ug/l	94
34) Benzene	8.600	78	204167	20.153	ug/l	97
35) Methacrylonitrile	7.771	41	37860	20.216	ug/l	97
36) 1,2-Dichloroethane	8.665	62	73426	20.043	ug/l	100
37) Trichloroethene	9.347	130	44971	20.176	ug/l	95
38) Methylcyclohexane	9.594	83	65223	19.665	ug/l	95
39) 1,2-Dichloropropane	9.618	63	52453	20.350	ug/l	95
40) Dibromomethane	9.706	93	35948	20.004	ug/l	98
41) Bromodichloromethane	9.883	83	76799	20.449	ug/l #	99
42) Vinyl Acetate	6.595	43	578737	96.913	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011025\
Data File : VN085420.D
Acq On : 10 Jan 2025 11:57
Operator : JC\MD
Sample : VN0110WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0110WBSD01

Quant Time: Jan 10 22:41:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
Response via : Initial Calibration

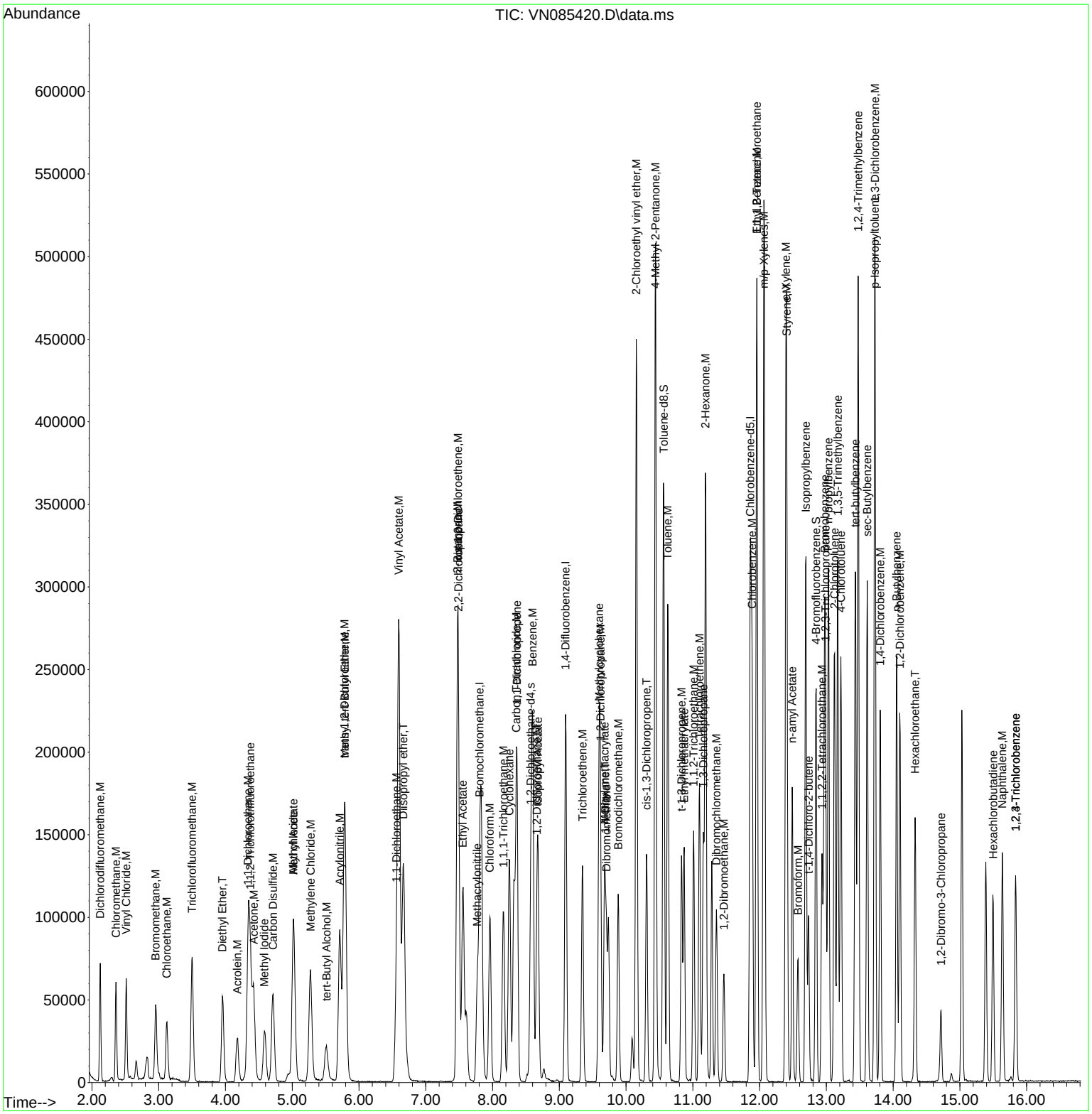
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	63452	18.136	ug/l	99
44) Isopropyl Acetate	8.683	43	111030	19.104	ug/l	98
45) 1,4-Dioxane	9.689	88	15964	353.149	ug/l	95
46) Methyl methacrylate	9.677	41	50893	18.865	ug/l	94
47) n-amyl Acetate	12.488	43	90676	18.314	ug/l	99
48) t-1,3-Dichloropropene	10.830	75	73810	19.897	ug/l	95
49) cis-1,3-Dichloropropene	10.306	75	80876	20.279	ug/l	98
50) 1,1,2-Trichloroethane	11.012	97	47178	20.074	ug/l	97
51) Ethyl methacrylate	10.871	69	69634	19.589	ug/l	90
52) 1,3-Dichloropropane	11.159	76	83604	20.379	ug/l	99
53) Dibromochloromethane	11.353	129	53558	19.448	ug/l	97
54) 1,2-Dibromoethane	11.465	107	45376	19.950	ug/l	100
55) 2-Chloroethyl vinyl ether	10.153	63	194587	106.272	ug/l	99
56) Bromoform	12.577	173	33804	18.816	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	337196	96.330	ug/l	98
59) 2-Hexanone	11.188	43	237851	93.535	ug/l	98
61) Tetrachloroethene	11.100	164	39555	20.520	ug/l	96
62) Toluene	10.624	91	210513	19.845	ug/l	99
64) Chlorobenzene	11.888	112	133055	20.797	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	47059	20.282	ug/l	99
66) Ethyl Benzene	11.959	91	223112	19.989	ug/l	97
67) m/p-Xylenes	12.065	106	171024	40.842	ug/l	98
68) o-Xylene	12.394	106	80580	20.202	ug/l	99
69) Styrene	12.406	104	133682	19.831	ug/l	99
70) Isopropylbenzene	12.694	105	205298	20.498	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	68922	19.402	ug/l	96
72) 1,2,3-Trichloropropane	12.988	75	59901m	19.813	ug/l	
73) Bromobenzene	12.977	156	49871	20.156	ug/l	98
74) n-propylbenzene	13.030	91	245878	19.705	ug/l	98
75) 2-Chlorotoluene	13.124	91	152717	20.317	ug/l	99
76) 1,3,5-Trimethylbenzene	13.171	105	172482	20.183	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	22424	18.148	ug/l	88
78) 4-Chlorotoluene	13.218	91	150801	19.732	ug/l	99
79) tert-butylbenzene	13.435	119	143661	20.555	ug/l	96
80) 1,2,4-Trimethylbenzene	13.477	105	173092	20.348	ug/l	100
81) sec-Butylbenzene	13.612	105	203844	20.202	ug/l	100
82) p-Isopropyltoluene	13.724	119	166671	20.057	ug/l	99
83) 1,3-Dichlorobenzene	13.730	146	92562	20.059	ug/l	99
84) 1,4-Dichlorobenzene	13.806	146	88025	19.717	ug/l	99
85) n-Butylbenzene	14.053	91	140172	19.538	ug/l	99
86) Hexachloroethane	14.329	117	34358	19.259	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	86114	19.643	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.718	75	12098	18.656	ug/l	95
89) 1,2,4-Trichlorobenzene	15.835	180	41132	19.804	ug/l	98
90) Hexachlorobutadiene	15.500	225	20796	20.087	ug/l	95
91) Naphthalene	15.635	128	123026	18.436	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	41132	19.804	ug/l	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011025\
Data File : VN085420.D
Acq On : 10 Jan 2025 11:57
Operator : JC\MD
Sample : VN0110WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0110WBSD01

Quant Time: Jan 10 22:41:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
Response via : Initial Calibration



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

Manual Integration Report

Sequence:	VN122024	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VN085272.D	1,1-Dichloroethene	SAM	12/23/2024 7:24:42 AM	MMDadoda	12/24/2024 12:27:52 AM	Peak Integrated by Software
VSTDICC005	VN085272.D	1,2,3-Trichloropropane	SAM	12/23/2024 7:24:42 AM	MMDadoda	12/24/2024 12:27:52 AM	Peak Integrated by Software
VSTDICC005	VN085272.D	1,2-Dibromo-3-Chloropropane	SAM	12/23/2024 7:24:42 AM	MMDadoda	12/24/2024 12:27:52 AM	Peak Integrated by Software
VSTDICC005	VN085272.D	Acetone	SAM	12/23/2024 7:24:42 AM	MMDadoda	12/24/2024 12:27:52 AM	Peak Integrated by Software
VSTDICC005	VN085272.D	Methacrylonitrile	SAM	12/23/2024 7:24:42 AM	MMDadoda	12/24/2024 12:27:52 AM	Peak Integrated by Software
VSTDICC005	VN085272.D	Methyl Acetate	SAM	12/23/2024 7:24:42 AM	MMDadoda	12/24/2024 12:27:52 AM	Peak Integrated by Software
VSTDICC005	VN085272.D	tert-Butyl Alcohol	SAM	12/23/2024 7:24:42 AM	MMDadoda	12/24/2024 12:27:52 AM	Peak Integrated by Software
VSTDICCC020	VN085273.D	1,2,3-Trichloropropane	SAM	12/23/2024 7:24:44 AM	MMDadoda	12/24/2024 12:27:54 AM	Peak Integrated by Software
VSTDICC050	VN085274.D	1,2,3-Trichloropropane	JOHN	12/23/2024 9:01:06 AM	MMDadoda	12/24/2024 12:27:55 AM	Peak Integrated by Software
VSTDICC100	VN085275.D	1,2,3-Trichloropropane	SAM	12/23/2024 7:24:45 AM	MMDadoda	12/24/2024 12:27:57 AM	Peak Integrated by Software
VSTDICC150	VN085276.D	1,2,3-Trichloropropane	SAM	12/23/2024 7:24:47 AM	MMDadoda	12/24/2024 12:27:58 AM	Peak Integrated by Software
VSTDICV020	VN085278.D	1,2,3-Trichloropropane	SAM	12/23/2024 7:24:51 AM	MMDadoda	12/24/2024 12:28:01 AM	Peak Integrated by Software
VSTDCCC020	VN085284.D	1,2,3-Trichloropropane	SAM	12/23/2024 7:24:56 AM	MMDadoda	12/24/2024 12:28:06 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VN122024	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	VN011025	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC020	VN085418.D	1,2,3-Trichloropropane	JOHN	1/13/2025 9:21:17 AM	MMDadoda	1/14/2025 3:33:21 PM	Peak Integrated by Software
VN0110WBS01	VN085419.D	1,2,3-Trichloropropane	JOHN	1/13/2025 9:21:21 AM	MMDadoda	1/14/2025 3:33:24 PM	Peak Integrated by Software
VN0110WBSD01	VN085420.D	1,2,3-Trichloropropane	JOHN	1/13/2025 9:21:25 AM	MMDadoda	1/14/2025 3:33:27 PM	Peak Integrated by Software
Q1066-01	VN085425.D	Diisopropyl ether	JOHN	1/13/2025 9:21:29 AM	MMDadoda	1/14/2025 3:33:33 PM	Peak Integrated by Software
VSTDCCC020	VN085426.D	1,2,3-Trichloropropane	JOHN	1/13/2025 9:21:34 AM	MMDadoda	1/14/2025 3:33:36 PM	Peak Integrated by Software

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN122024

Review By	Semsettin Yesilyurt	Review On	12/23/2024 7:25:05 AM		
Supervise By	John Carlone	Supervise On	12/23/2024 9:01:48 AM		
SubDirectory	VN122024	HP Acquire Method		HP Processing Method	624N122024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132256
Initial Calibration Stds	VP132258,VP132259,VP132260,VP132261,VP132262
CCC	VP132257
Internal Standard/PEM	
ICV/I.BLK	VP132262
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085271.D	20 Dec 2024 09:21	JC\MD	Ok
2	VSTDICC005	VN085272.D	20 Dec 2024 10:05	JC\MD	Ok,M
3	VSTDICCC020	VN085273.D	20 Dec 2024 10:29	JC\MD	Ok,M
4	VSTDICC050	VN085274.D	20 Dec 2024 10:53	JC\MD	Ok,M
5	VSTDICC100	VN085275.D	20 Dec 2024 11:17	JC\MD	Ok,M
6	VSTDICC150	VN085276.D	20 Dec 2024 11:42	JC\MD	Ok,M
7	IBLK	VN085277.D	20 Dec 2024 12:06	JC\MD	Ok,M
8	VSTDICV020	VN085278.D	20 Dec 2024 12:32	JC\MD	Ok,M
9	VN1220WBS01	VN085279.D	20 Dec 2024 13:08	JC\MD	Ok,M
10	VN1220WBSD01	VN085280.D	20 Dec 2024 13:42	JC\MD	Ok,M
11	VN1220WBL01	VN085281.D	20 Dec 2024 14:06	JC\MD	Ok
12	P5328-01	VN085282.D	20 Dec 2024 14:43	JC\MD	Ok
13	P5328-02	VN085283.D	20 Dec 2024 15:07	JC\MD	Ok
14	VSTDCCC020	VN085284.D	20 Dec 2024 16:13	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN011025

Review By	John Carlone	Review On	1/13/2025 9:23:15 AM		
Supervise By	Mahesh Dadoda	Supervise On	1/14/2025 3:33:44 PM		
SubDirectory	VN011025	HP Acquire Method		HP Processing Method	624N122024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132504
Initial Calibration Stds	
CCC	VP132505,VP132506
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085417.D	10 Jan 2025 09:42	JC\MD	Ok
2	VSTDCCC020	VN085418.D	10 Jan 2025 10:56	JC\MD	Ok,M
3	VN0110WBS01	VN085419.D	10 Jan 2025 11:33	JC\MD	Ok,M
4	VN0110WBSD01	VN085420.D	10 Jan 2025 11:57	JC\MD	Ok,M
5	VN0110WBL01	VN085421.D	10 Jan 2025 12:21	JC\MD	Ok
6	Q1038-02	VN085422.D	10 Jan 2025 12:56	JC\MD	Ok
7	Q1038-01	VN085423.D	10 Jan 2025 13:20	JC\MD	Ok,M
8	IBLK	VN085424.D	10 Jan 2025 13:44	JC\MD	Ok
9	Q1066-01	VN085425.D	10 Jan 2025 14:08	JC\MD	Ok,M
10	VSTDCCC020	VN085426.D	10 Jan 2025 16:06	JC\MD	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN122024

Review By	Semsettin Yesilyurt	Review On	12/23/2024 7:25:05 AM		
Supervise By	John Carlone	Supervise On	12/23/2024 9:01:48 AM		
SubDirectory	VN122024	HP Acquire Method		HP Processing Method	624N122024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132256
Initial Calibration Stds	VP132258,VP132259,VP132260,VP132261,VP132262
CCC	VP132257
Internal Standard/PEM	
ICV/I.BLK	VP132262
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085271.D	20 Dec 2024 09:21		JC\MD	Ok
2	VSTDICC005	VSTDICC005	VN085272.D	20 Dec 2024 10:05	V13516	JC\MD	Ok,M
3	VSTDICCC020	VSTDICCC020	VN085273.D	20 Dec 2024 10:29		JC\MD	Ok,M
4	VSTDICC050	VSTDICC050	VN085274.D	20 Dec 2024 10:53		JC\MD	Ok,M
5	VSTDICC100	VSTDICC100	VN085275.D	20 Dec 2024 11:17		JC\MD	Ok,M
6	VSTDICC150	VSTDICC150	VN085276.D	20 Dec 2024 11:42		JC\MD	Ok,M
7	IBLK	IBLK	VN085277.D	20 Dec 2024 12:06		JC\MD	Ok,M
8	VSTDICV020	ICVVN122024	VN085278.D	20 Dec 2024 12:32		JC\MD	Ok,M
9	VN1220WBS01	VN1220WBS01	VN085279.D	20 Dec 2024 13:08		JC\MD	Ok,M
10	VN1220WBSD01	VN1220WBSD01	VN085280.D	20 Dec 2024 13:42		JC\MD	Ok,M
11	VN1220WBL01	VN1220WBL01	VN085281.D	20 Dec 2024 14:06		JC\MD	Ok
12	P5328-01	001-WILLETS-PT-BLVD	VN085282.D	20 Dec 2024 14:43	vial B pH<2	JC\MD	Ok
13	P5328-02	002-35TH-AVE(DEC)	VN085283.D	20 Dec 2024 15:07	vial B pH<2	JC\MD	Ok
14	VSTDCCC020	VSTDCCC020EC	VN085284.D	20 Dec 2024 16:13		JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN011025

Review By	John Carlone	Review On	1/13/2025 9:23:15 AM		
Supervise By	Mahesh Dadoda	Supervise On	1/14/2025 3:33:44 PM		
SubDirectory	VN011025	HP Acquire Method		HP Processing Method	624N122024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132504
Initial Calibration Stds	
CCC	VP132505,VP132506
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085417.D	10 Jan 2025 09:42		JC\MD	Ok
2	VSTDCCC020	VSTDCCC020	VN085418.D	10 Jan 2025 10:56	V13516	JC\MD	Ok,M
3	VN0110WBS01	VN0110WBS01	VN085419.D	10 Jan 2025 11:33		JC\MD	Ok,M
4	VN0110WBSD01	VN0110WBSD01	VN085420.D	10 Jan 2025 11:57		JC\MD	Ok,M
5	VN0110WBL01	VN0110WBL01	VN085421.D	10 Jan 2025 12:21		JC\MD	Ok
6	Q1038-02	250108055-07-TRIP-BL	VN085422.D	10 Jan 2025 12:56	vial B pH#6.0 TB	JC\MD	Ok
7	Q1038-01	250108071-01-VOA	VN085423.D	10 Jan 2025 13:20	vial B pH#6.0	JC\MD	Ok,M
8	IBLK	IBLK	VN085424.D	10 Jan 2025 13:44		JC\MD	Ok
9	Q1066-01	EFF-WASTE WATER	VN085425.D	10 Jan 2025 14:08	vial A pH<2	JC\MD	Ok,M
10	VSTDCCC020	VSTDCCC020EC	VN085426.D	10 Jan 2025 16:06		JC\MD	Ok,M

M : Manual Integration

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. Q1066
QUOTE NO.
COC Number 2041272

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Ardmore
ADDRESS: 29 Riverside Ave Bg #14
CITY Newark STATE: NJ ZIP 07104
ATTENTION: Michael Sharphouse
PHONE: 973 481 2406 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME:
PROJECT NO.: LOCATION:
PROJECT MANAGER:
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): STANDARD DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other _____
- ☐ EDD FORMAT _____

ANALYSIS

1	2	3	4	5	6	7	8	9
VOA	CN	SVOA	BOD/TSS	Metals				

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	EFF Waste water			X	1/10/25	12:15		X	X								
2.	EFF Waste Water		X		1/10/25	12:15				X	X	X					
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	1/10/25 11:45	1
RELINQUISHED BY SAMPLER:	DATE/TIME: 1252	RECEIVED BY:
2.	1-10-25	2.
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.1-5 °C
Comments: IR Gun #1

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1066 ARDM01
Client Name : Ardmore Chemical
Client Contact : Michael Sharphouse
Invoice Name : Ardmore Chemical
Invoice Contact : Michael Sharphouse

Order Date : 1/10/2025 12:15:00 PM
Project Name : PVSC Monthly 2024
Receive DateTime : 1/10/2025 12:52:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 1
EDD Type : NONE
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1066-01	EFF-WASTE WATER	Water	01/10/2025	10:15					
					VOC-PP		624.1	10 Bus. Days	

Relinguished By :
Date / Time : 1-10-25 1330

Received By :
Date / Time :

Storage Area : VOA Refridgerator Room