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Cover Page

Order ID : P4853

Project ID : Transfer Station-SPDES

Client : Tully Environmental, Inc

Lab Sample Number	Client Sample Number
P4853-01	001-WILLETS-PT-BLVD(NOV)
P4853-02	002-35TH-AVE(NOV)

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: 11/22/2024

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 #: **P4853**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **KETAN PATEL** **Date:** **11/22/2024**

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LAB CHRONICLE

OrderID:	P4853	**OrderDate:**	11/14/2024 11:45:00 AM
Client:	Tully Environmental, Inc	**Project:**	Transfer Station-SPDES
Contact:	Dean Devoe	**Location:**	L41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4853-01	**001-WILLETS-PT-BLVD(NOV)**	**Water**			**11/13/24**			**11/14/24**
			VOC-BTEX	624.1			11/15/24	
P4853-01DL	**001-WILLETS-PT-BLVD(NOV)DL**	**Water**			**11/13/24**			**11/14/24**
			VOC-BTEX	624.1			11/21/24	
P4853-02	**002-35TH-AVE(NOV)**	**Water**			**11/13/24**			**11/14/24**
			VOC-BTEX	624.1			11/15/24	
P4853-02DL	**002-35TH-AVE(NOV)DL**	**Water**			**11/13/24**			**11/14/24**
			VOC-BTEX	624.1			11/21/24	

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Hit Summary Sheet
SW-846

SDG No.: P4853

Client: Tully Environmental, Inc

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**001-WILLETS-PT-BLVD(NOV)**							
P4853-01	001-WILLETS-PT-	Water	Toluene	220	E	0.72	5.00	ug/L
			Total Voc :	220				
			Total Concentration:	220				
Client ID:	**001-WILLETS-PT-BLVD(NOV)DL**							
P4853-01DL	001-WILLETS-PT-	Water	Toluene	170	D	3.60	25.0	ug/L
			Total Voc :	170				
			Total Concentration:	170				
Client ID:	**002-35TH-AVE(NOV)**							
P4853-02	002-35TH-AVE(NC	Water	Toluene	210	E	0.72	5.00	ug/L
			Total Voc :	210				
			Total Concentration:	210				
Client ID:	**002-35TH-AVE(NOV)DL**							
P4853-02DL	002-35TH-AVE(NC	Water	Toluene	180	D	3.60	25.0	ug/L
			Total Voc :	180				
			Total Concentration:	180				

QC SUMMARY

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Surrogate Summary

SDG No.: P4853

Client: Tully Environmental, Inc

Analytical Method: SW624.1

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P4853-01	001-WILLETS-PT-BLVD(NOV)	1,2-Dichloroethane-d4	30	31.3	104	91	110
		Toluene-d8	30	28.5	95	91	112
		4-Bromofluorobenzene	30	25.4	85	63	112
P4853-01DL	001-WILLETS-PT-BLVD(NOV)DL	1,2-Dichloroethane-d4	30	30.8	103	91	110
		Toluene-d8	30	28.4	95	91	112
		4-Bromofluorobenzene	30	25.8	86	63	112
P4853-02	002-35TH-AVE(NOV)	1,2-Dichloroethane-d4	30	30.8	103	91	110
		Toluene-d8	30	28.2	94	91	112
		4-Bromofluorobenzene	30	26.4	88	63	112
P4853-02DL	002-35TH-AVE(NOV)DL	1,2-Dichloroethane-d4	30	30.1	100	91	110
		Toluene-d8	30	28.0	93	91	112
		4-Bromofluorobenzene	30	25.2	84	63	112
VN1115WBL01	VN1115WBL01	1,2-Dichloroethane-d4	30	29.4	98	91	110
		Toluene-d8	30	28.4	95	91	112
		4-Bromofluorobenzene	30	23.9	80	63	112
VN1115WBS01	VN1115WBS01	1,2-Dichloroethane-d4	30	30.7	102	91	110
		Toluene-d8	30	29.7	99	91	112
		4-Bromofluorobenzene	30	30.2	101	63	112
VN1115WBSD0	VN1115WBSD01	1,2-Dichloroethane-d4	30	29.9	100	91	110
		Toluene-d8	30	29.6	99	91	112
		4-Bromofluorobenzene	30	31.0	103	63	112
VN1121WBL01	VN1121WBL01	1,2-Dichloroethane-d4	30	30.9	103	91	110
		Toluene-d8	30	28.0	93	91	112
		4-Bromofluorobenzene	30	24.4	81	63	112
VN1121WBS01	VN1121WBS01	1,2-Dichloroethane-d4	30	29.8	99	91	110
		Toluene-d8	30	29.8	99	91	112
		4-Bromofluorobenzene	30	29.9	100	63	112

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4853

Client: Tully Environmental, Inc

Analytical Method: SW624.1 **Datafile :** VN084868.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1115WBS01	Benzene	20	19.3	ug/L	97			65	135	
	Toluene	20	18.8	ug/L	94			70	130	
	Ethyl Benzene	20	18.5	ug/L	93			60	140	
	m/p-Xylenes	40	38.0	ug/L	95			87	111	
	o-Xylene	20	18.6	ug/L	93			87	111	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4853

Client: Tully Environmental, Inc

Analytical Method: SW624.1 **Datafile :** VN084869.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1115WBSD01	Benzene	20	19.9	ug/L	100	3		65	135	20
	Toluene	20	20.1	ug/L	101	7		70	130	20
	Ethyl Benzene	20	19.3	ug/L	97	4		60	140	20
	m/p-Xylenes	40	40.5	ug/L	101	6		87	111	20
	o-Xylene	20	19.8	ug/L	99	6		87	111	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4853

Client: Tully Environmental, Inc

Analytical Method: SW624.1 **Datafile :** VN084988.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1121WBS01	Benzene	20	19.2	ug/L	96			65	135	
	Toluene	20	19.3	ug/L	97			70	130	
	Ethyl Benzene	20	18.7	ug/L	94			60	140	
	m/p-Xylenes	40	39.3	ug/L	98			87	111	
	o-Xylene	20	18.8	ug/L	94			87	111	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1115WBL01

Lab Name: CHEMTECH Contract: TULL01

Lab Code: CHEM Case No.: P4853 SAS No.: P4853 SDG NO.: P4853

Lab File ID: VN084870.D Lab Sample ID: VN1115WBL01

Date Analyzed: 11/15/2024 Time Analyzed: 15:23

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
VN1115WBS01	VN1115WBS01	VN084868.D	11/15/2024
VN1115WBSD01	VN1115WBSD01	VN084869.D	11/15/2024
001-WILLETS-PT-BLVD(NOV)	P4853-01	VN084874.D	11/15/2024
002-35TH-AVE(NOV)	P4853-02	VN084875.D	11/15/2024

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1121WBL01

Lab Name: CHEMTECH Contract: TULL01

Lab Code: CHEM Case No.: P4853 SAS No.: P4853 SDG NO.: P4853

Lab File ID: VN084990.D Lab Sample ID: VN1121WBL01

Date Analyzed: 11/21/2024 Time Analyzed: 11:43

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
VN1121WBS01	VN1121WBS01	VN084988.D	11/21/2024
001-WILLETS-PT-BLVD(NOV)DL	P4853-01DL	VN084991.D	11/21/2024
002-35TH-AVE(NOV)DL	P4853-02DL	VN084992.D	11/21/2024

COMMENTS:

Raw Data: **VN084612.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TULL01

Lab Code: CHEM Case No.: P4853 SAS No.: P4853 SDG NO.: P4853

Lab File ID: VN084612.D BFB Injection Date: 10/31/2024

Instrument ID: MSVOA_N BFB Injection Time: 10:56

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	18.5
75	30.0 - 60.0% of mass 95	52.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.8 (1.1) 1
174	50.0 - 100.0% of mass 95	73.9
175	5.0 - 9.0% of mass 174	5.6 (7.5) 1
176	95.0 - 101.0% of mass 174	72.1 (97.5) 1
177	5.0 - 9.0% of mass 176	4.7 (6.5) 2

1-Value is % mass 174 2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VN084613.D	10/31/2024	12:08
VSTDICCC020	VSTDICCC020	VN084614.D	10/31/2024	12:32
VSTDICC050	VSTDICC050	VN084615.D	10/31/2024	12:56
VSTDICC100	VSTDICC100	VN084616.D	10/31/2024	13:20
VSTDICC150	VSTDICC150	VN084617.D	10/31/2024	13:44

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TULL01

Lab Code: CHEM Case No.: P4853 SAS No.: P4853 SDG NO.: P4853

Lab File ID: VN084866.D BFB Injection Date: 11/15/2024

Instrument ID: MSVOA_N BFB Injection Time: 13:01

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.5
75	30.0 - 60.0% of mass 95	53.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.8 (1) 1
174	50.0 - 100.0% of mass 95	77.9
175	5.0 - 9.0% of mass 174	5.3 (6.8) 1
176	95.0 - 101.0% of mass 174	74.8 (96) 1
177	5.0 - 9.0% of mass 176	5 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC020	VSTDCCC020	VN084867.D	11/15/2024	13:49
VN1115WBS01	VN1115WBS01	VN084868.D	11/15/2024	14:26
VN1115WBSD01	VN1115WBSD01	VN084869.D	11/15/2024	14:59
VN1115WBL01	VN1115WBL01	VN084870.D	11/15/2024	15:23
001-WILLETS-PT-BLVD(NOV)	P4853-01	VN084874.D	11/15/2024	17:12
002-35TH-AVE(NOV)	P4853-02	VN084875.D	11/15/2024	17:36

Raw Data: **VN084986.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TULL01

Lab Code: CHEM Case No.: P4853 SAS No.: P4853 SDG NO.: P4853

Lab File ID: VN084986.D BFB Injection Date: 11/21/2024

Instrument ID: MSVOA_N BFB Injection Time: 09:33

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	18.6
75	30.0 - 60.0% of mass 95	53.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.4 (0.5) 1
174	50.0 - 100.0% of mass 95	75.3
175	5.0 - 9.0% of mass 174	5.8 (7.7) 1
176	95.0 - 101.0% of mass 174	72.8 (96.7) 1
177	5.0 - 9.0% of mass 176	4.5 (6.2) 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	VN084987.D	11/21/2024	10:09
VN1121WBS01	VN1121WBS01	VN084988.D	11/21/2024	10:45
VN1121WBL01	VN1121WBL01	VN084990.D	11/21/2024	11:43
001-WILLETS-PT-BLVD(NOV)DL	P4853-01DL	VN084991.D	11/21/2024	12:18
002-35TH-AVE(NOV)DL	P4853-02DL	VN084992.D	11/21/2024	12:42

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TULL01

Lab Code: CHEM Case No.: P4853 SAS No.: P4853 SDG NO.: P4853

Lab File ID: VN084867.D Date Analyzed: 11/15/2024

Instrument ID: MSVOA_N Time Analyzed: 13:49

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	29205	7.81	143711	9.10	129619	11.87
UPPER LIMIT	58410	8.312	287422	9.6	259238	12.365
LOWER LIMIT	14602.5	7.312	71855.5	8.6	64809.5	11.365
EPA SAMPLE NO.						
001-WILLETS-PT-BLVD(NOV)	22235	7.81	116438	9.10	107920	11.87
002-35TH-AVE(NOV)	23575	7.81	122982	9.10	114966	11.87
VN1115WBL01	20903	7.81	102633	9.10	89042	11.87
VN1115WBS01	28727	7.81	152762	9.10	143052	11.87
VN1115WBSD01	27777	7.81	143562	9.10	132133	11.87

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: TULL01

Lab Code: CHEM Case No.: P4853 SAS No.: P4853 SDG NO.: P4853

Lab File ID: VN084987.D Date Analyzed: 11/21/2024

Instrument ID: MSVOA_N Time Analyzed: 10:09

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	33996	7.81	179355	9.10	164023	11.87
UPPER LIMIT	67992	8.312	358710	9.6	328046	12.365
LOWER LIMIT	16998	7.312	89677.5	8.6	82011.5	11.365
EPA SAMPLE NO.						
001-WILLETS-PT-BLVD(NOV)DL	29935	7.81	160655	9.09	138636	11.87
002-35TH-AVE(NOV)DL	29543	7.81	146557	9.10	130638	11.87
VN1121WBL01	26986	7.81	144485	9.10	123949	11.87
VN1121WBS01	33147	7.81	173978	9.10	160474	11.87

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.

SAMPLE DATA

Raw Data: **VN084874.D**

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Report of Analysis

Client:	Tully Environmental, Inc	Date Collected:	11/13/24
Project:	Transfer Station-SPDES	Date Received:	11/14/24
Client Sample ID:	001-WILLETS-PT-BLVD(NOV)	SDG No.:	P4853
Lab Sample ID:	P4853-01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-BTEX
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084874.D	1		11/15/24 17:12	VN111524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	0.69	U	0.69	5.00	ug/L
108-88-3	Toluene	220	E	0.72	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
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	31.3		91 - 110	104%	SPK: 30
2037-26-5	Toluene-d8	28.5		91 - 112	95%	SPK: 30
460-00-4	4-Bromofluorobenzene	25.4		63 - 112	85%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	22200	7.806			
540-36-3	1,4-Difluorobenzene	116000	9.1			
3114-55-4	Chlorobenzene-d5	108000	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

Sample Results: **VN084874.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111524\
Data File : VN084874.D
Acq On : 15 Nov 2024 17:12
Operator : JC\MD
Sample : P4853-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(NOV)

Quant Time: Nov 15 22:27:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

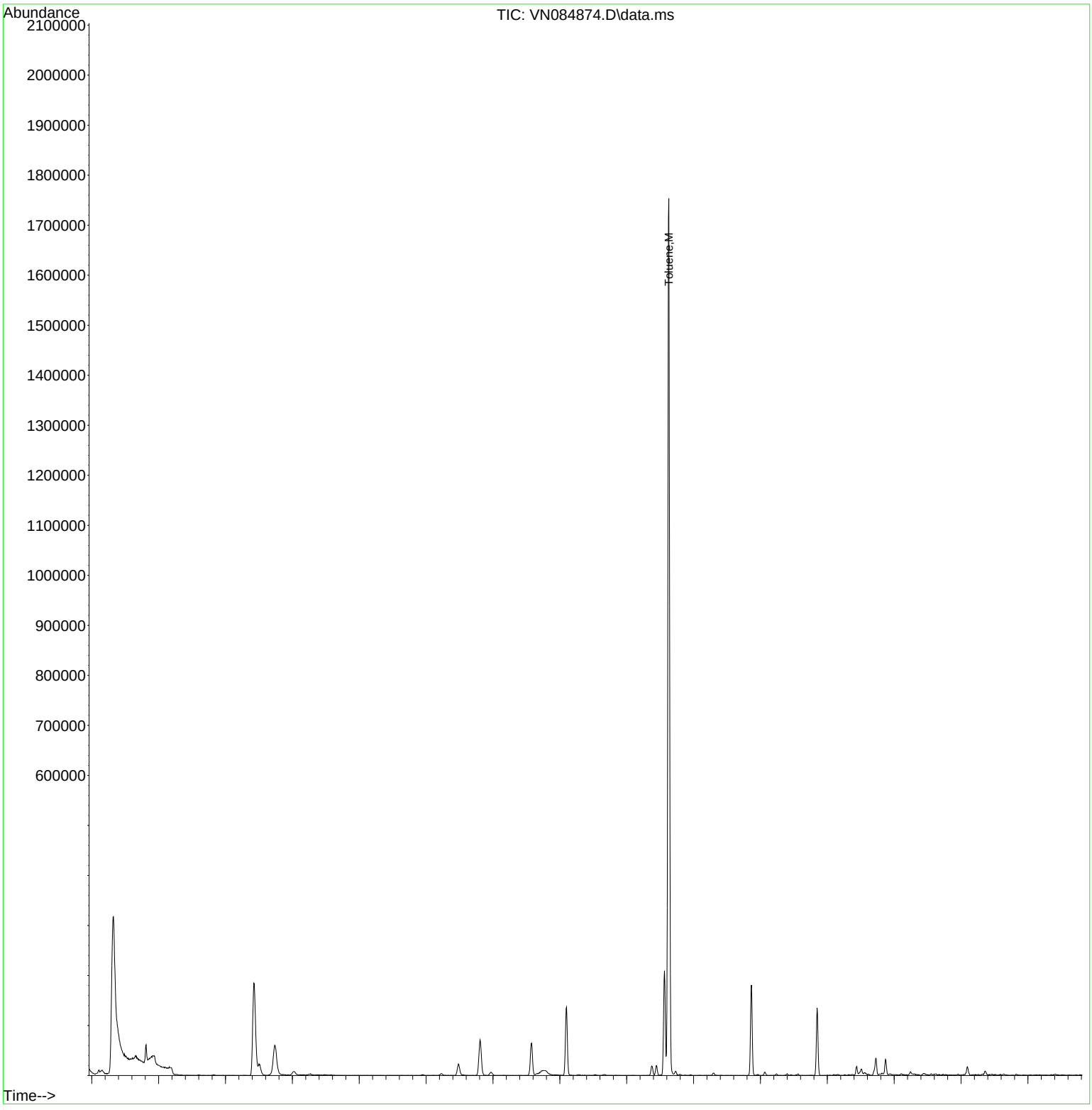
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.806	128	22235	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	116438	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	107920	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	56009	31.333	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.433%			
60) 4-Bromofluorobenzene	12.847	95	47167	25.383	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 84.600%			
63) Toluene-d8	10.565	98	145584	28.496	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 95.000%			
Target Compounds						Qvalue
12) Methyl Acetate	5.018	43	15535	7.691	ug/l #	70
15) Acetone	4.424	58	111509	656.772	ug/l	92
16) Carbon Disulfide	4.695	76	13265	3.479	ug/l #	91
25) Chloroform	7.953	83	4053	1.488	ug/l	91
30) 2-Butanone	7.483	43	36940	45.661	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	13430	7.888	ug/l	98
62) Toluene	10.630	91	1353198	220.149	ug/l	99
66) Ethyl Benzene	11.965	91	1938	0.300	ug/l #	71
67) m/p-Xylenes	12.071	106	1875	0.758	ug/l	77
68) o-Xylene	12.394	106	766	0.321	ug/l	87
80) 1,2,4-Trimethylbenzene	13.488	105	4260	0.834	ug/l	85
82) p-Isopropyltoluene	13.729	119	18116	3.737	ug/l	93

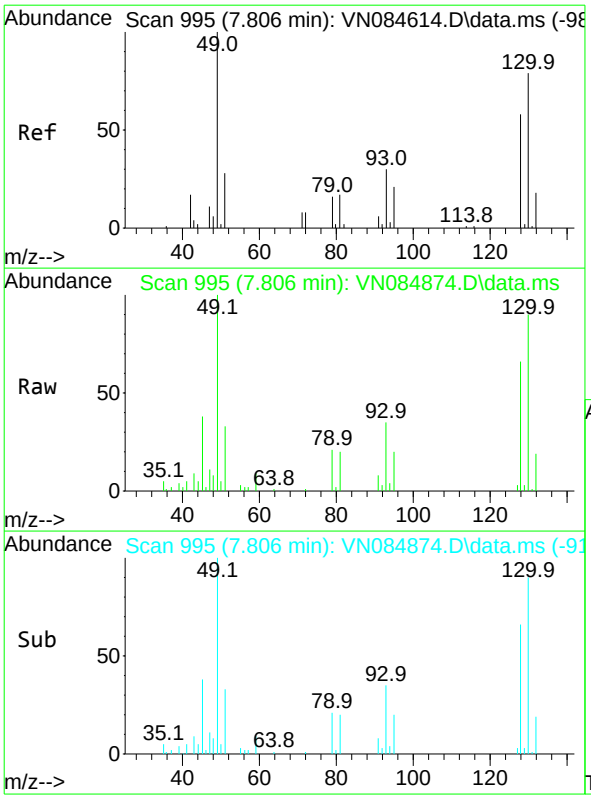
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111524\
Data File : VN084874.D
Acq On : 15 Nov 2024 17:12
Operator : JC\MD
Sample : P4853-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(NOV)

Quant Time: Nov 15 22:27:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration



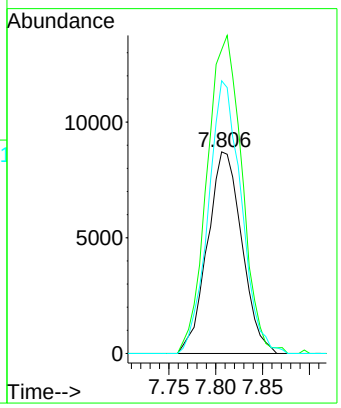


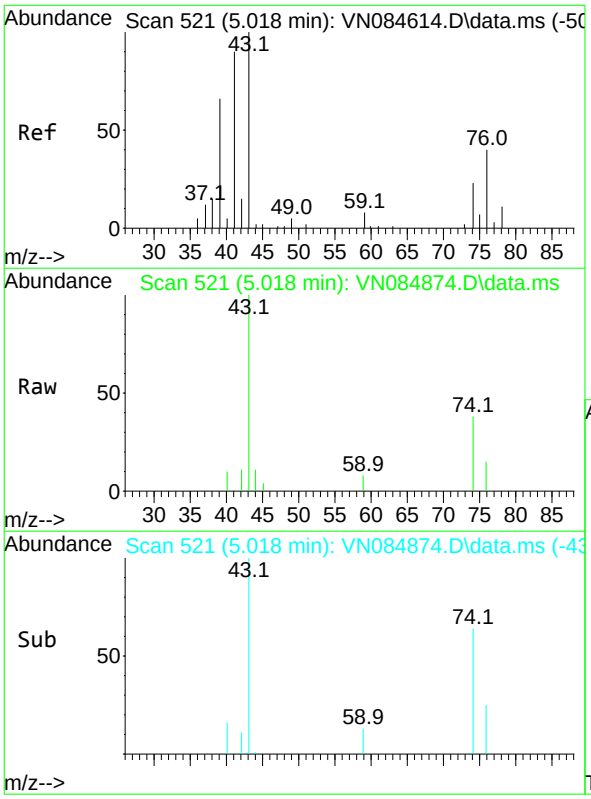
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.806 min Scan# 99
Delta R.T. 0.000 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(NOV)

Tgt Ion:128 Resp: 22235

Ion	Ratio	Lower	Upper
128	100		
49	159.6	0.0	427.0
130	129.3	0.0	322.2

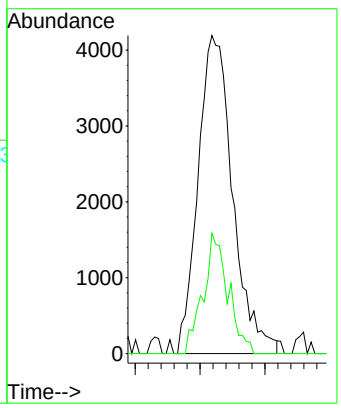


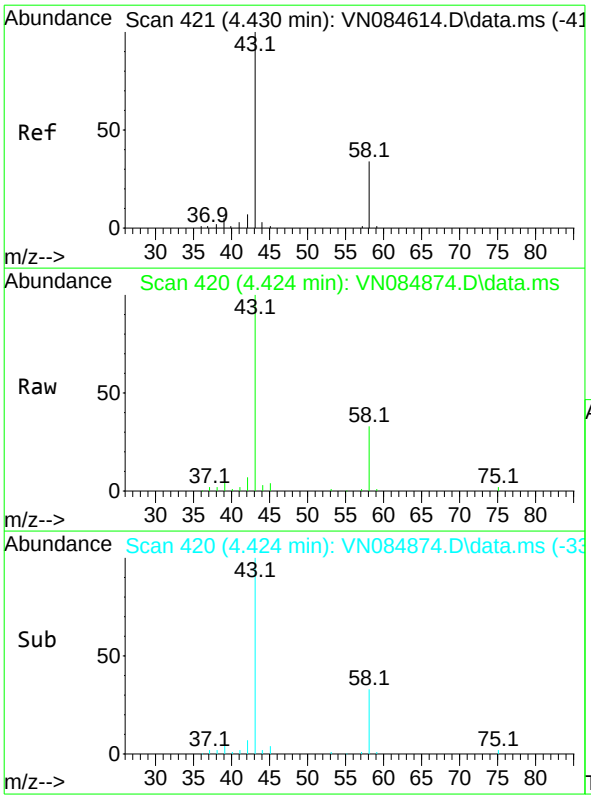


#12
Methyl Acetate
Concen: 7.691 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Tgt Ion: 43 Resp: 15535

Ion	Ratio	Lower	Upper
43	100		
74	38.6	19.0	28.4#



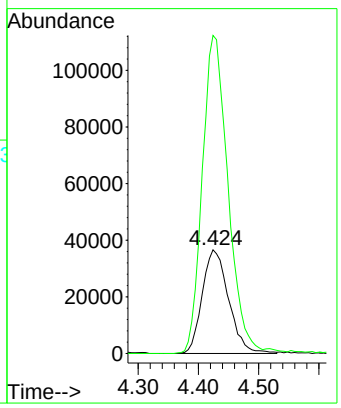


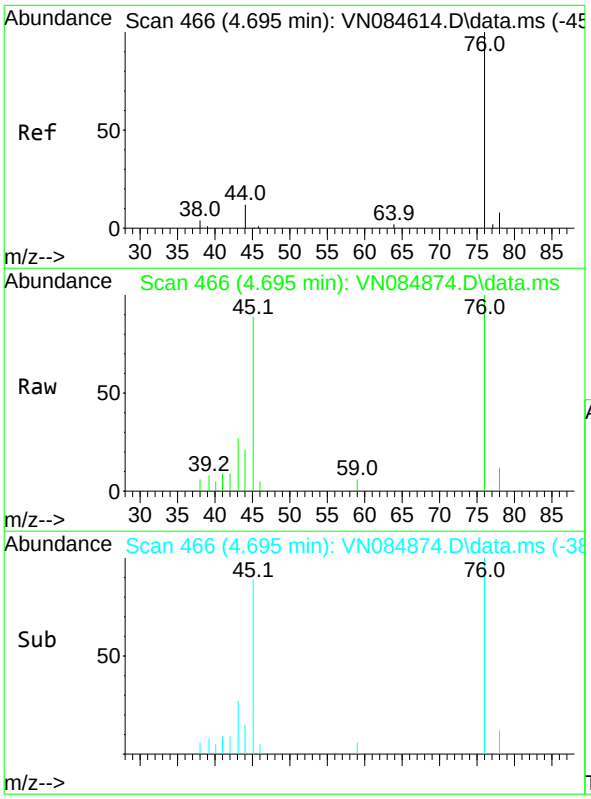
#15
Acetone
Concen: 656.772 ug/l
RT: 4.424 min Scan# 42
Delta R.T. -0.006 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(NOV)

Tgt Ion: 58 Resp: 111509

Ion	Ratio	Lower	Upper
58	100		
43	306.2	233.0	349.6

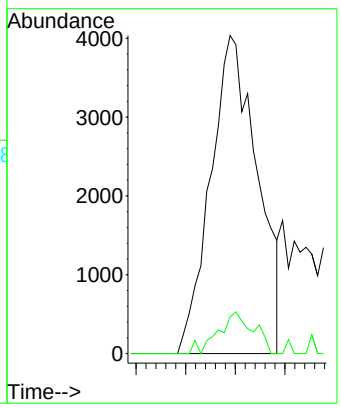


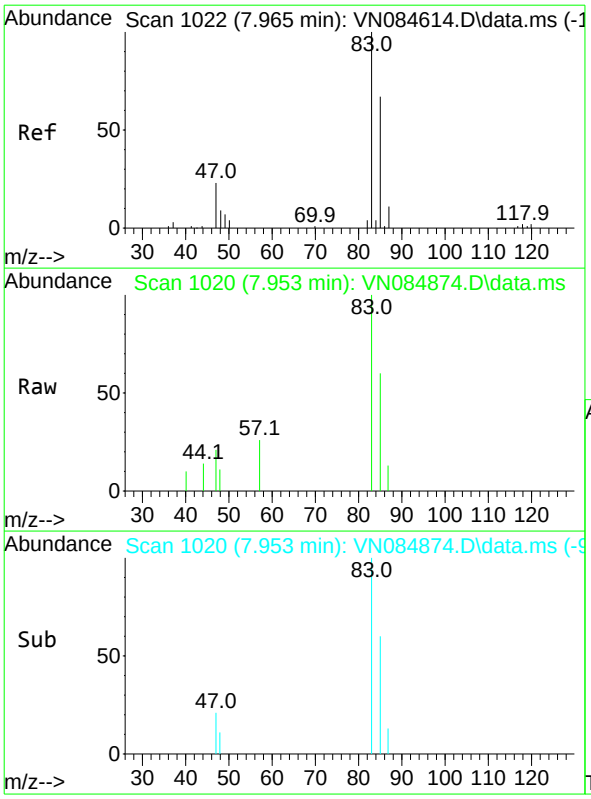


#16
Carbon Disulfide
Concen: 3.479 ug/l
RT: 4.695 min Scan# 466
Delta R.T. 0.000 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Tgt Ion: 76 Resp: 13265

Ion	Ratio	Lower	Upper
76	100		
78	11.5	6.6	9.8#



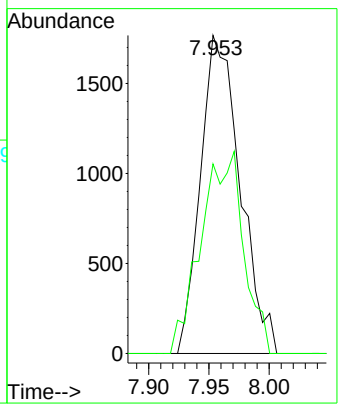


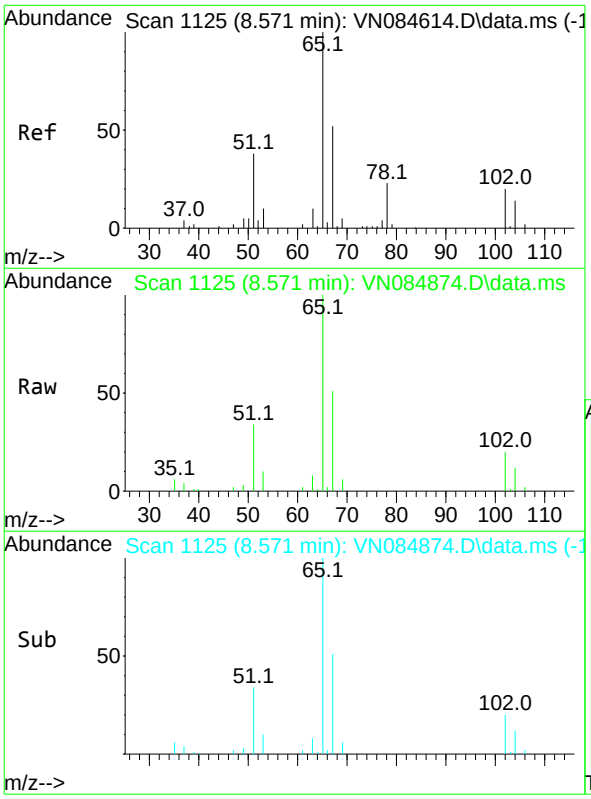
#25
Chloroform
Concen: 1.488 ug/l
RT: 7.953 min Scan# 10
Delta R.T. -0.012 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(NOV)

Tgt Ion: 83 Resp: 4053

Ion	Ratio	Lower	Upper
83	100		
85	59.6	53.4	80.2

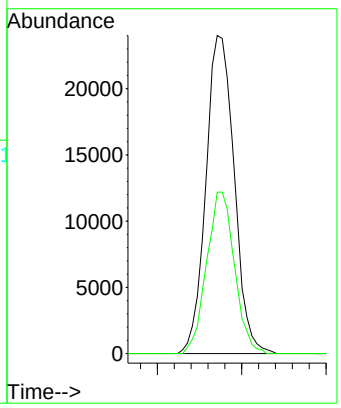


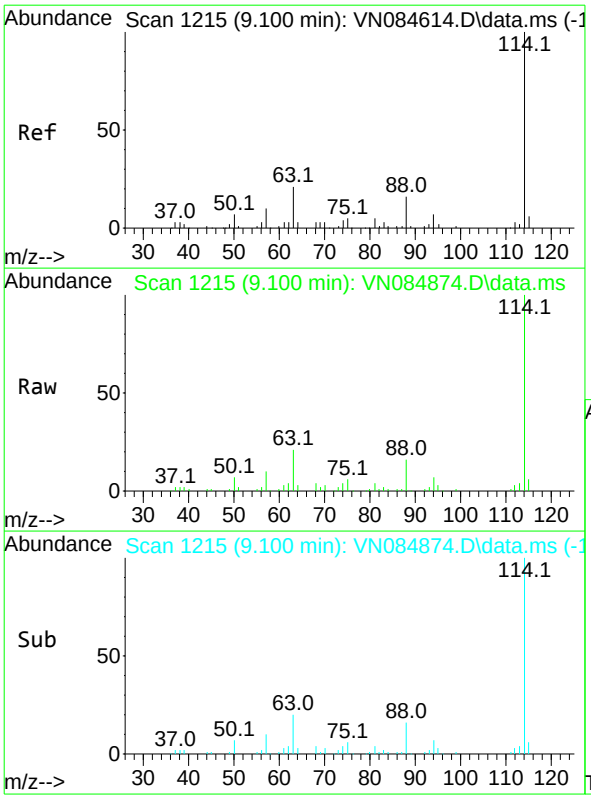


#27
1,2-Dichloroethane-d4
Concen: 31.333 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. 0.000 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Tgt Ion: 65 Resp: 56009

Ion	Ratio	Lower	Upper
65	100		
67	50.0	40.7	61.1



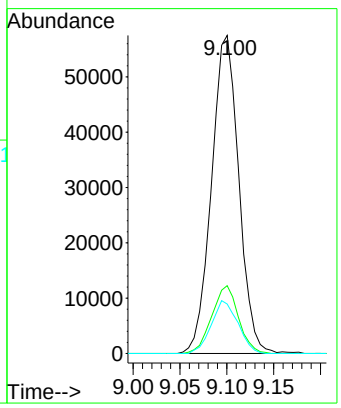


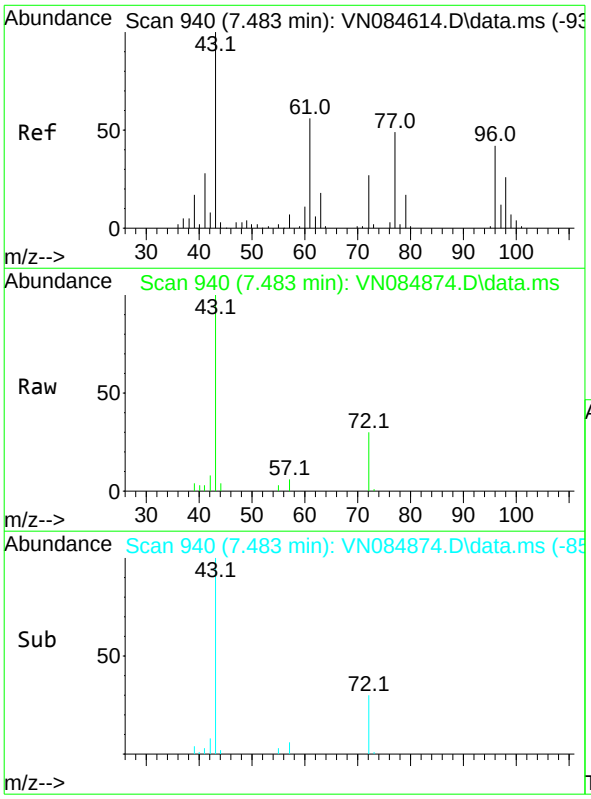
#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. 0.000 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(NOV)

Tgt Ion:114 Resp: 116438

Ion	Ratio	Lower	Upper
114	100		
63	20.9	16.8	25.2
88	16.2	12.9	19.3

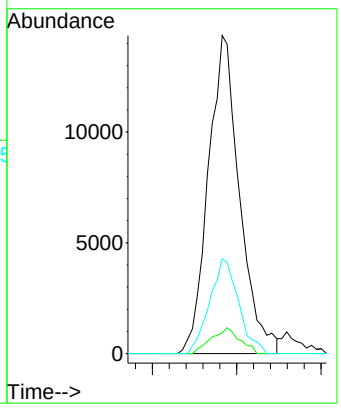


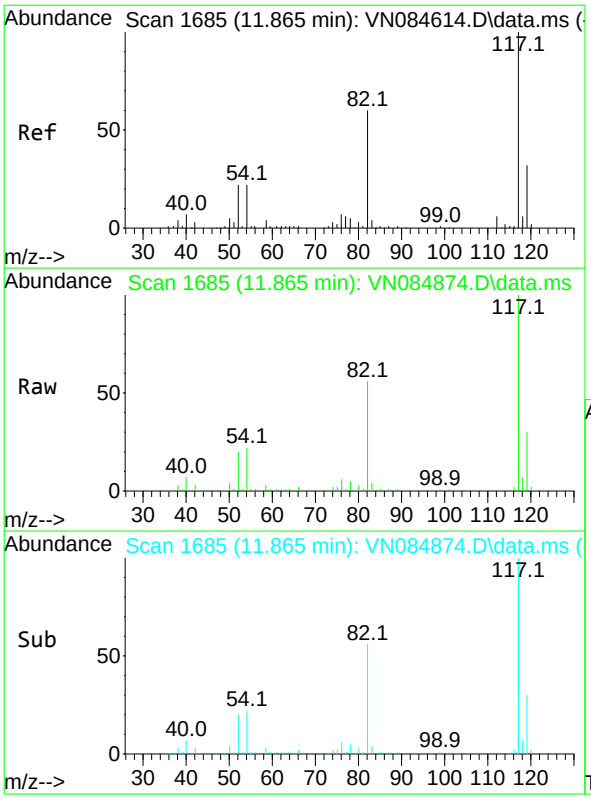


#30
2-Butanone
Concen: 45.661 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Tgt Ion: 43 Resp: 36940

Ion	Ratio	Lower	Upper
43	100		
57	7.4	6.2	9.4
72	27.5	21.5	32.3



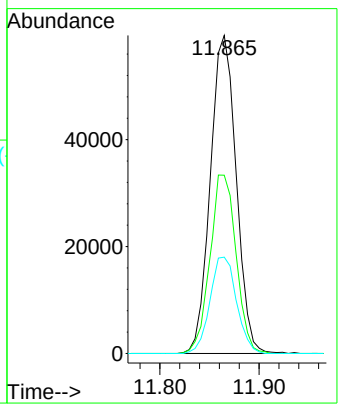


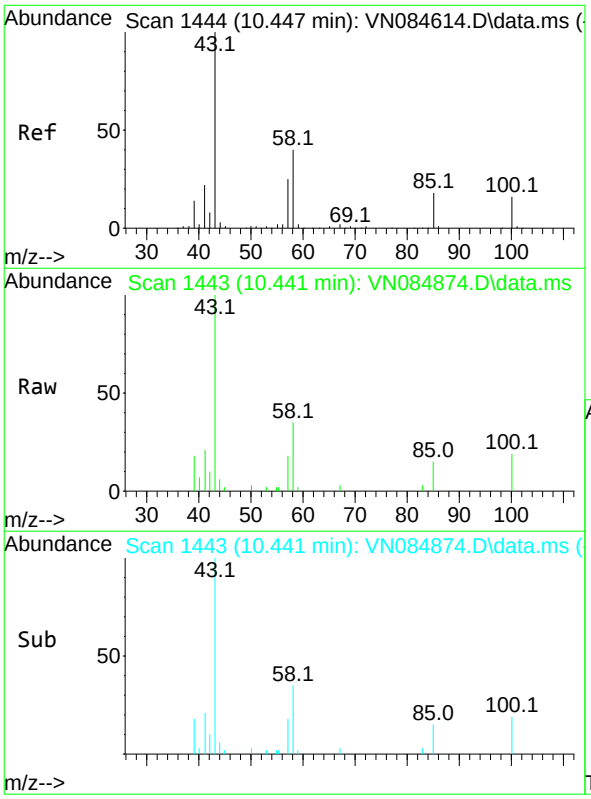
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(NOV)

Tgt Ion:117 Resp: 107920

Ion	Ratio	Lower	Upper
117	100		
82	56.7	45.5	68.3
119	31.1	25.3	37.9

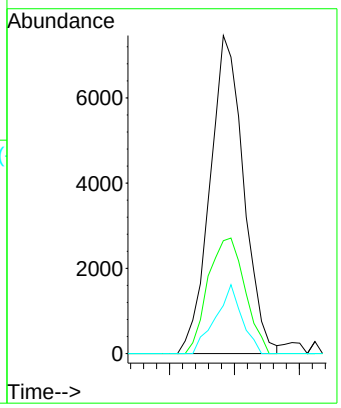


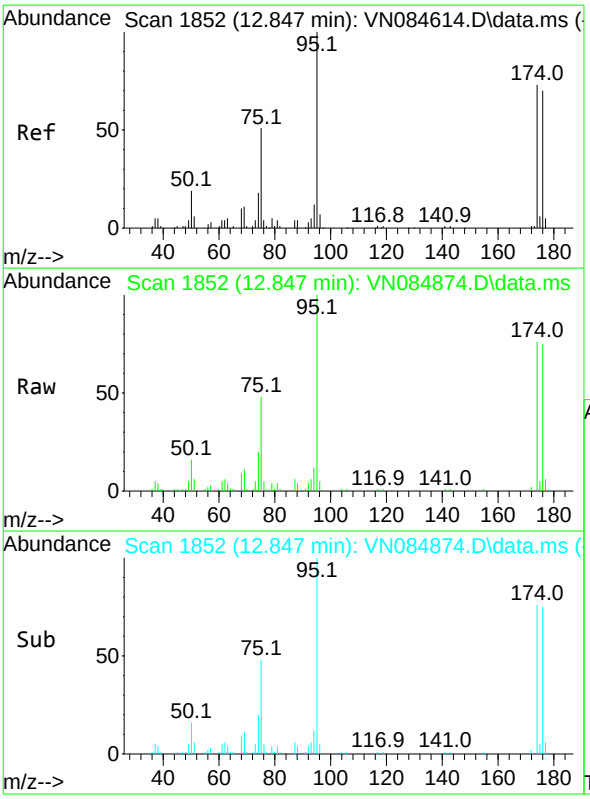


#58
4-Methyl-2-Pentanone
Concen: 7.888 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.006 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Tgt Ion: 43 Resp: 13430

Ion	Ratio	Lower	Upper
43	100		
58	39.9	31.2	46.8
85	17.0	14.9	22.3



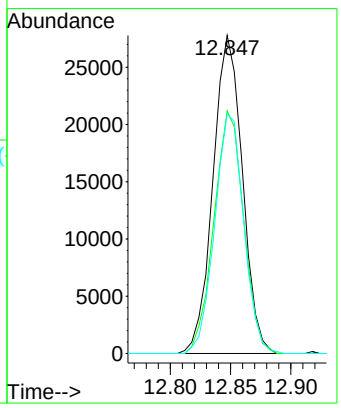


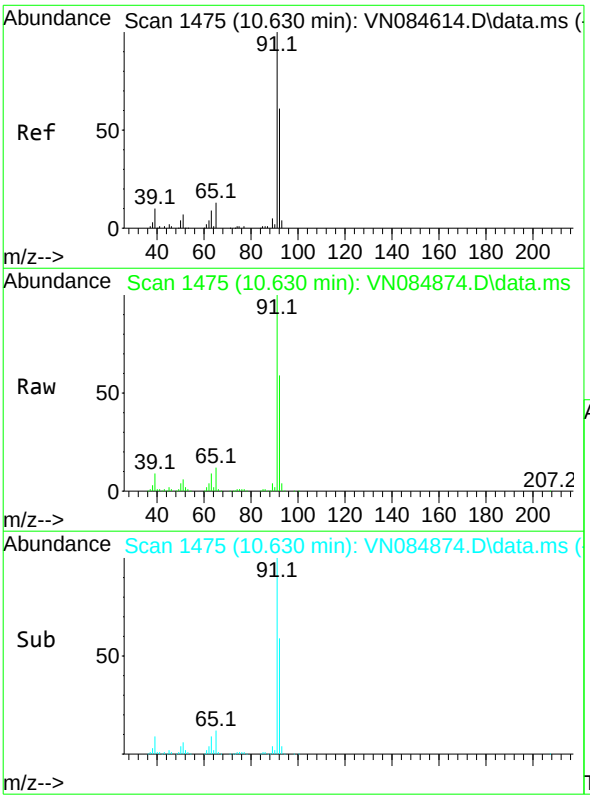
#60
4-Bromofluorobenzene
Concen: 25.383 ug/l
RT: 12.847 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(NOV)

Tgt Ion: 95 Resp: 47167

Ion	Ratio	Lower	Upper
95	100		
174	76.8	59.6	89.4
176	74.5	58.6	88.0

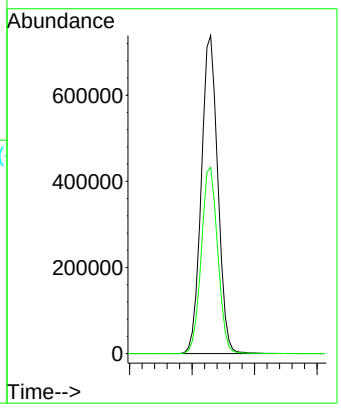


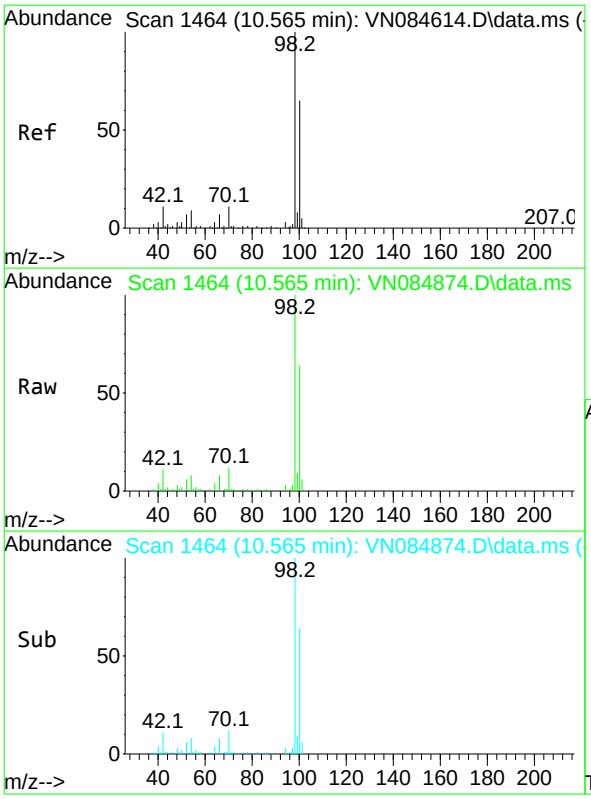


#62
Toluene
Concen: 220.149 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Tgt Ion: 91 Resp: 1353198

Ion	Ratio	Lower	Upper
91	100		
92	58.6	47.5	71.3



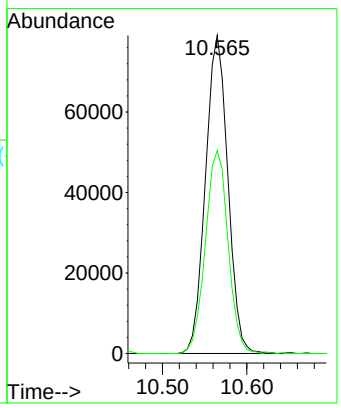


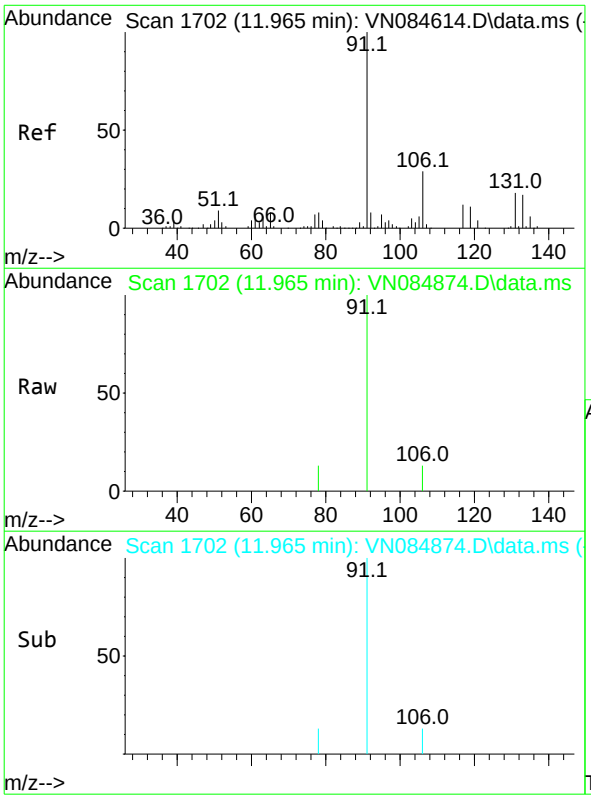
#63
Toluene-d8
Concen: 28.496 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(NOV)

Tgt Ion: 98 Resp: 145584

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.2	78.2

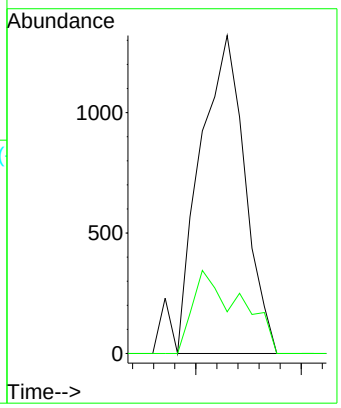


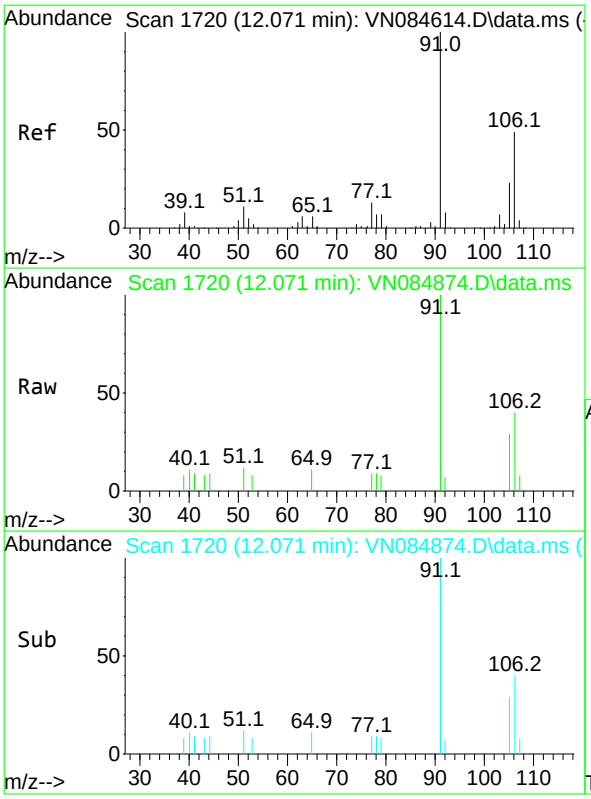


#66
Ethyl Benzene
Concen: 0.300 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Tgt Ion: 91 Resp: 1938

Ion	Ratio	Lower	Upper
91	100		
106	13.1	22.9	34.3#



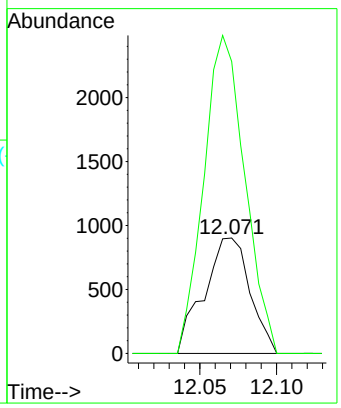


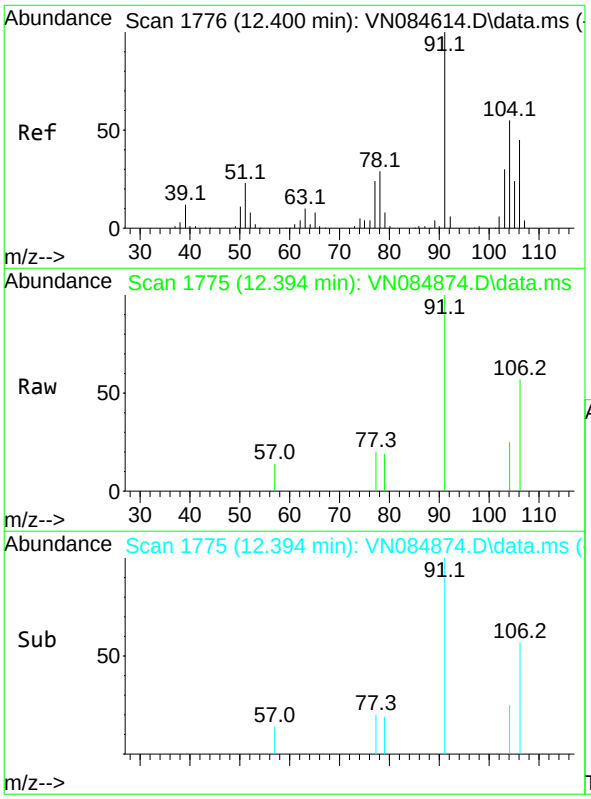
#67
m/p-Xylenes
Concen: 0.758 ug/l
RT: 12.071 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(NOV)

Tgt Ion:106 Resp: 1875

Ion	Ratio	Lower	Upper
106	100		
91	246.3	168.1	252.1

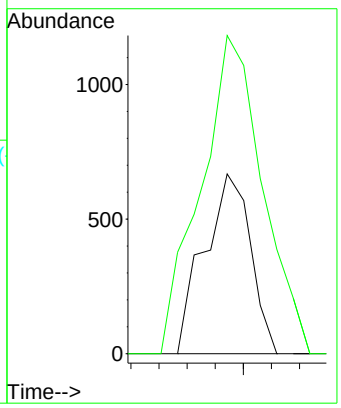


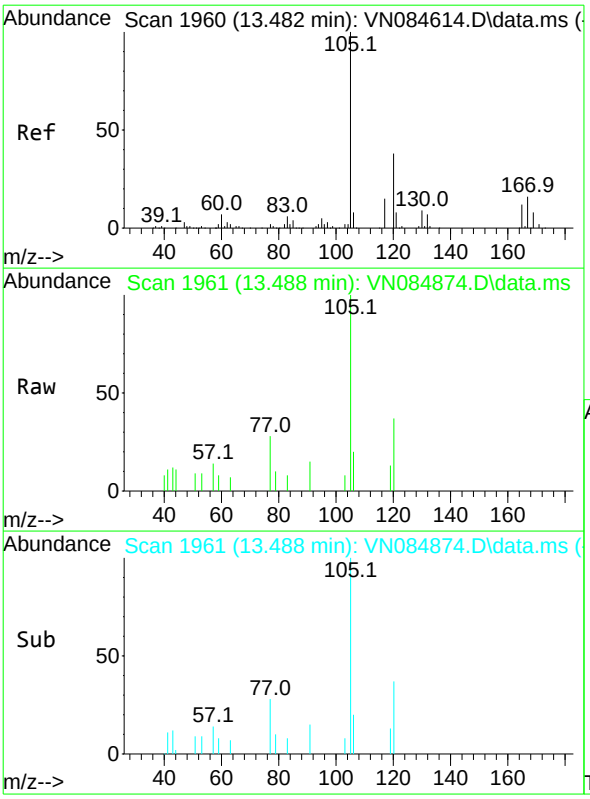


#68
o-Xylene
Concen: 0.321 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.006 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Tgt Ion:106 Resp: 766

Ion	Ratio	Lower	Upper
106	100		
91	236.2	107.7	322.9



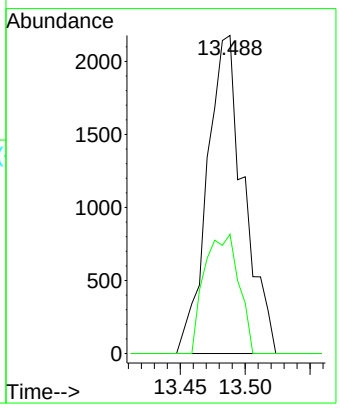


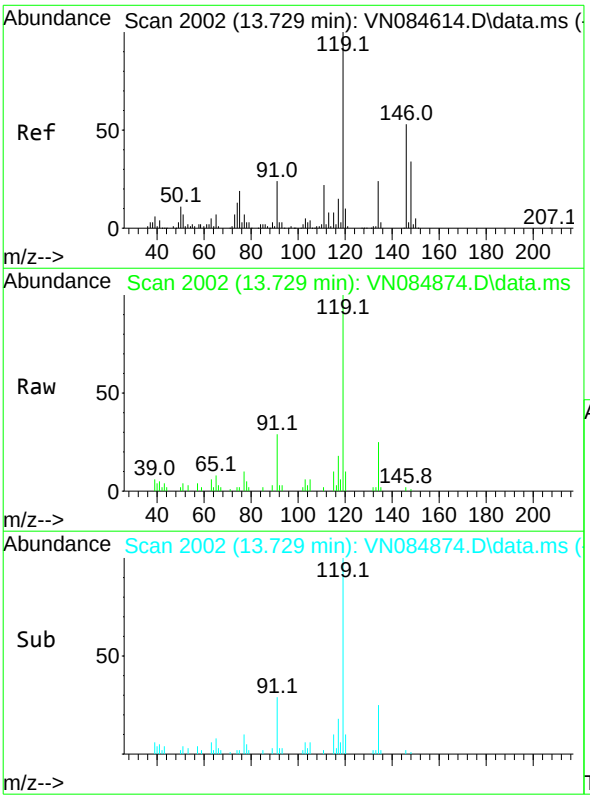
#80
1,2,4-Trimethylbenzene
Concen: 0.834 ug/l
RT: 13.488 min Scan# 19
Delta R.T. 0.006 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(NOV)

Tgt Ion:105 Resp: 4260

Ion	Ratio	Lower	Upper
105	100		
120	35.3	0.0	90.4

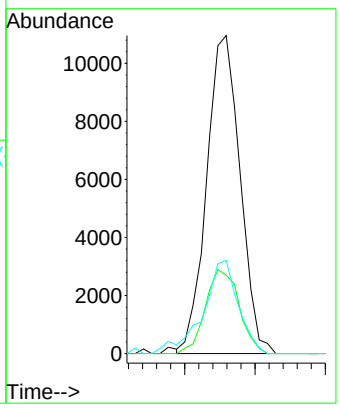




#82
p-Isopropyltoluene
Concen: 3.737 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Tgt Ion:119 Resp: 18116

Ion	Ratio	Lower	Upper
119	100		
134	26.7	0.0	51.4
91	31.1	0.0	50.4



Raw Data: **VN084991.D**

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

Report of Analysis

Client:	Tully Environmental, Inc	Date Collected:	11/13/24
Project:	Transfer Station-SPDES	Date Received:	11/14/24
Client Sample ID:	001-WILLETS-PT-BLVD(NOV)DL	SDG No.:	P4853
Lab Sample ID:	P4853-01DL	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-BTEX
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084991.D	5		11/21/24 12:18	VN112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	3.50	UD	3.50	25.0	ug/L
108-88-3	Toluene	170	D	3.60	25.0	ug/L
100-41-4	Ethyl Benzene	3.70	UD	3.70	25.0	ug/L
179601-23-1	m/p-Xylenes	8.60	UD	8.60	50.0	ug/L
95-47-6	o-Xylene	4.10	UD	4.10	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.8		91 - 110	103%	SPK: 30
2037-26-5	Toluene-d8	28.4		91 - 112	95%	SPK: 30
460-00-4	4-Bromofluorobenzene	25.8		63 - 112	86%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	29900	7.812			
540-36-3	1,4-Difluorobenzene	161000	9.094			
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

Sample Results: **VN084991.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112124\
Data File : VN084991.D
Acq On : 21 Nov 2024 12:18
Operator : JC\MD
Sample : P4853-01DL 5X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 21 14:43:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(NOV)DL

Manual Integrations APPROVED

Reviewed By :John Carlone 11/21/2024
Supervised By :Mahesh Dadoda 11/22/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.812	128	29935	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	160655	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	138636	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	74063	30.775	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.567%			
60) 4-Bromofluorobenzene	12.847	95	61511	25.768	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 85.900%			
63) Toluene-d8	10.565	98	186234	28.376	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 94.600%			
Target Compounds						Qvalue
15) Acetone	4.430	58	21336	93.342	ug/l	96
16) Carbon Disulfide	4.706	76	6302m	1.228	ug/l	
30) 2-Butanone	7.489	43	7792	6.981	ug/l #	79
62) Toluene	10.630	91	274179	34.723	ug/l	99
67) m/p-Xylenes	12.071	106	855	0.269	ug/l #	43
82) p-Isopropyltoluene	13.729	119	3786	0.608	ug/l	94

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

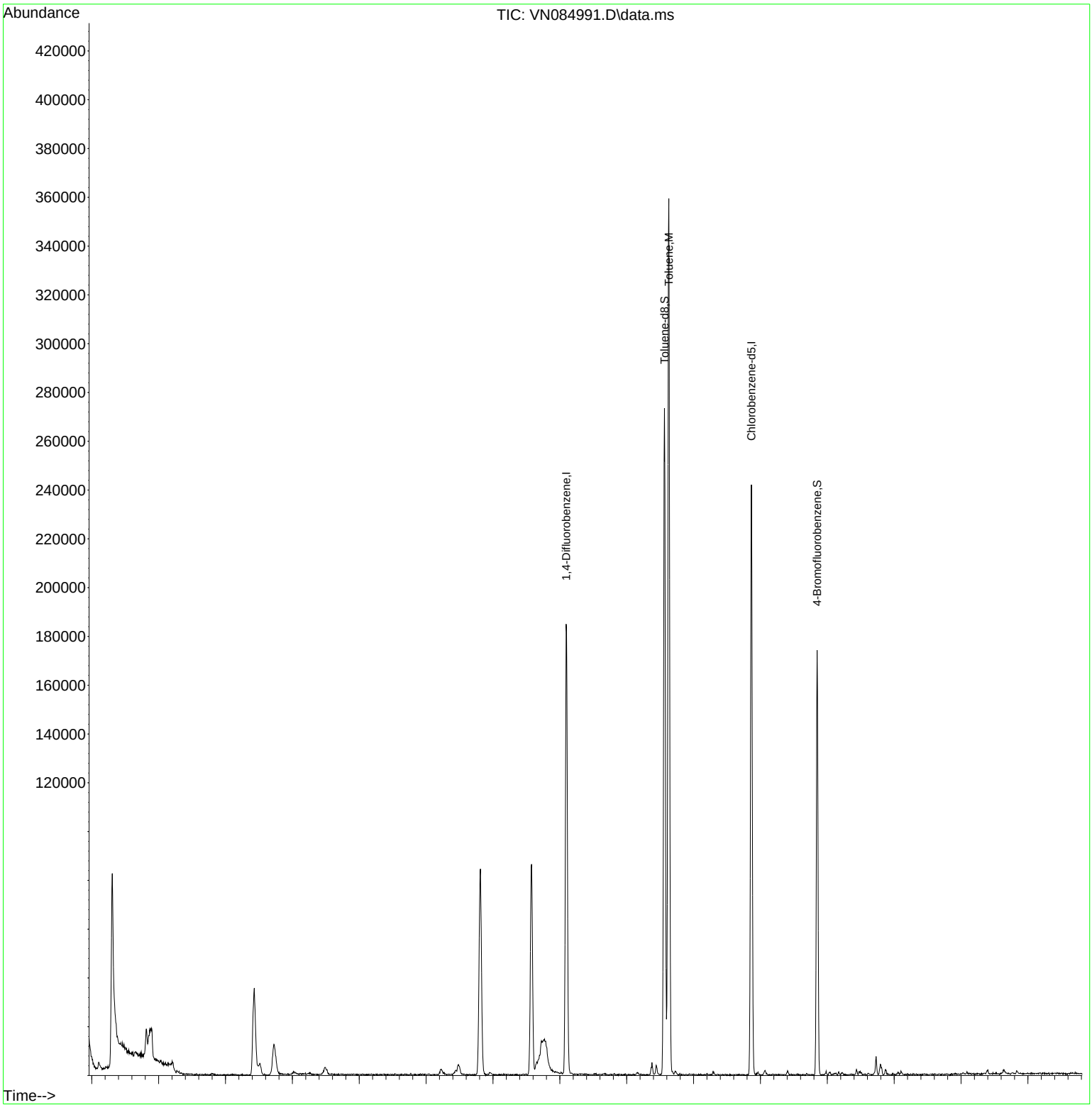
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112124\
Data File : VN084991.D
Acq On : 21 Nov 2024 12:18
Operator : JC\MD
Sample : P4853-01DL 5X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

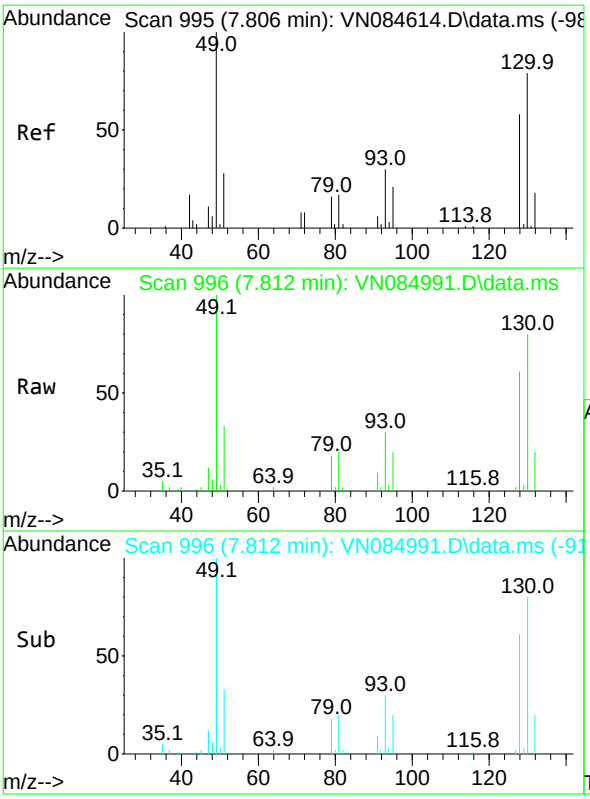
Quant Time: Nov 21 14:43:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(NOV)DL

Manual Integrations APPROVED

Reviewed By :John Carlone 11/21/2024
Supervised By :Mahesh Dadoda 11/22/2024

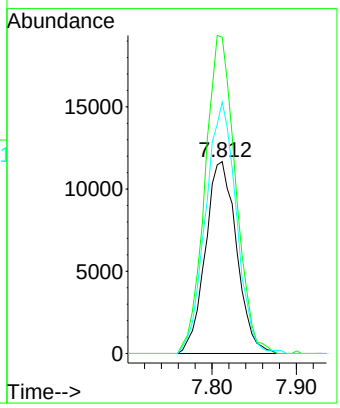




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 99
Delta R.T. 0.006 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

Tgt Ion:128 Resp: 29935

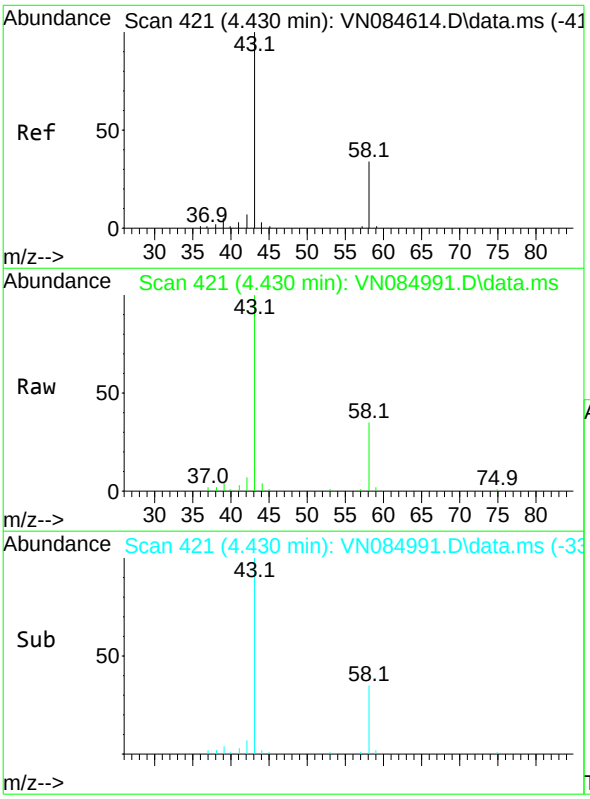
Ion	Ratio	Lower	Upper
128	100		
49	162.0	0.0	427.0
130	128.9	0.0	322.2



Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(NOV)DL

Manual Integrations
APPROVED

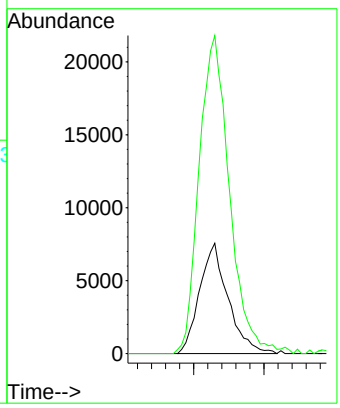
Reviewed By :John Carlone 11/21/2024
Supervised By :Mahesh Dadoda 11/22/2024

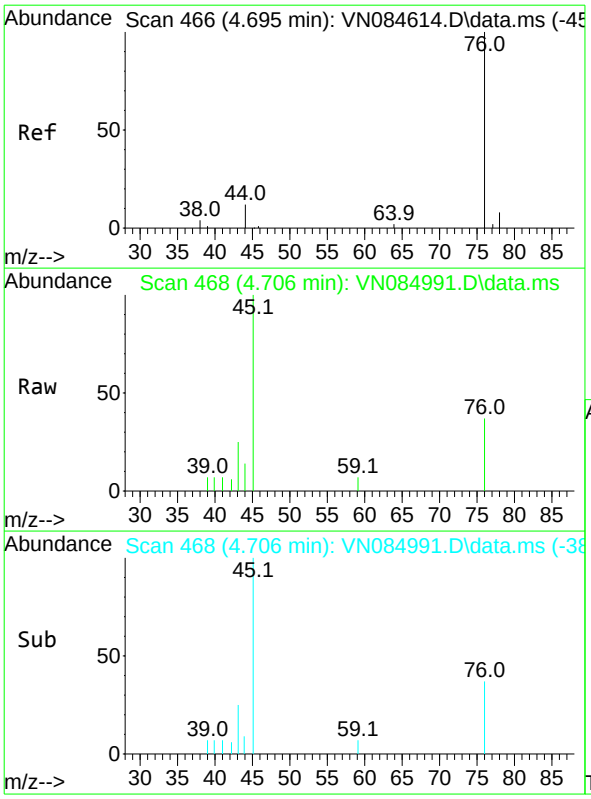


#15
Acetone
Concen: 93.342 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.000 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

Tgt Ion: 58 Resp: 21336

Ion	Ratio	Lower	Upper
58	100		
43	284.5	233.0	349.6





#16
Carbon Disulfide
Concen: 1.228 ug/l m
RT: 4.706 min Scan# 46
Delta R.T. 0.012 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

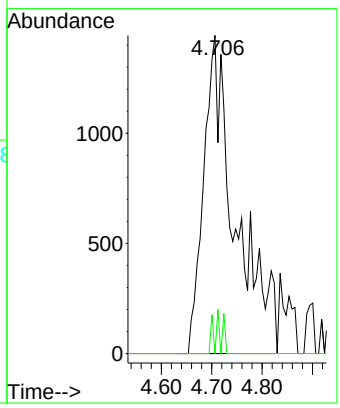
Tgt Ion: 76 Resp: 6302

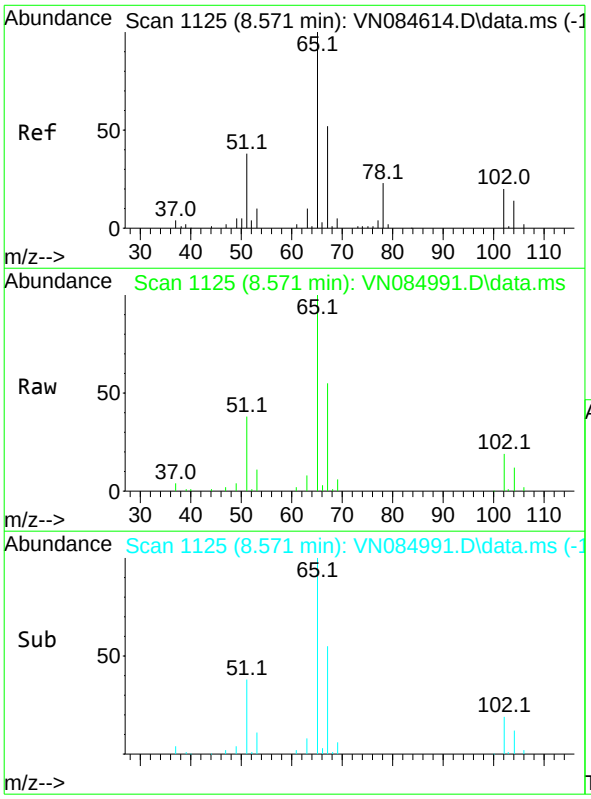
Ion	Ratio	Lower	Upper
76	100		
78	0.0	6.6	9.8#

Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(NOV)DL

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/21/2024
Supervised By :Mahesh Dadoda 11/22/2024

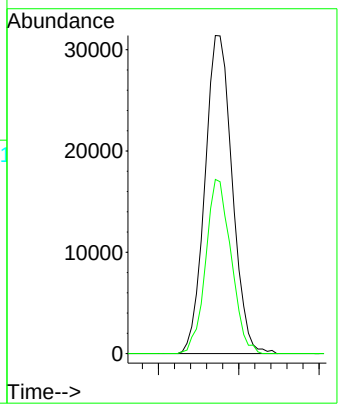


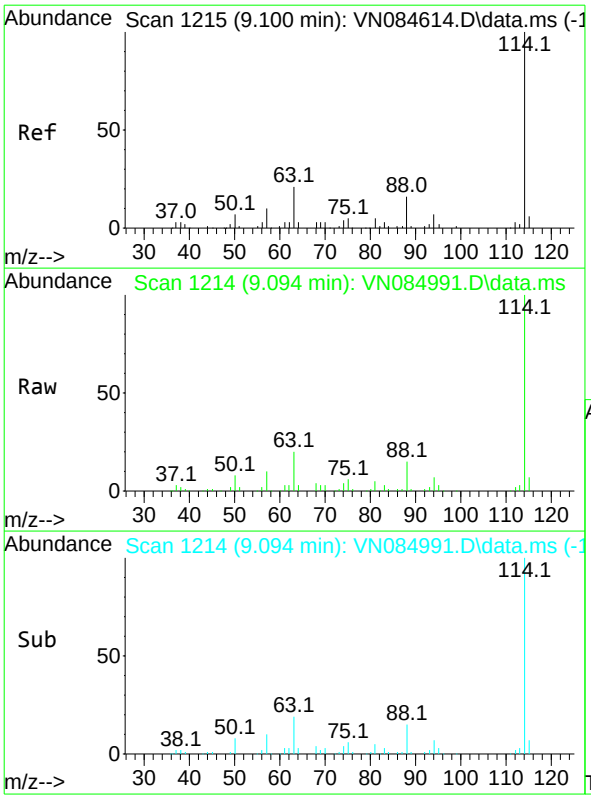


#27
1,2-Dichloroethane-d4
Concen: 30.775 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. 0.000 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

Tgt Ion: 65 Resp: 74063

Ion	Ratio	Lower	Upper
65	100		
67	51.1	40.7	61.1





#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.094 min Scan# 12
Delta R.T. -0.006 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

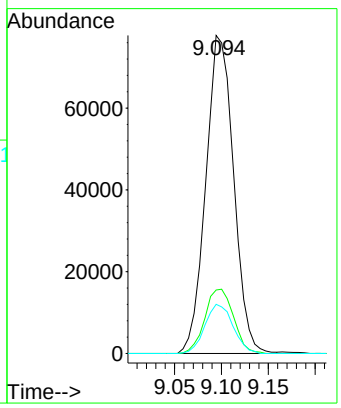
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(NOV)DL

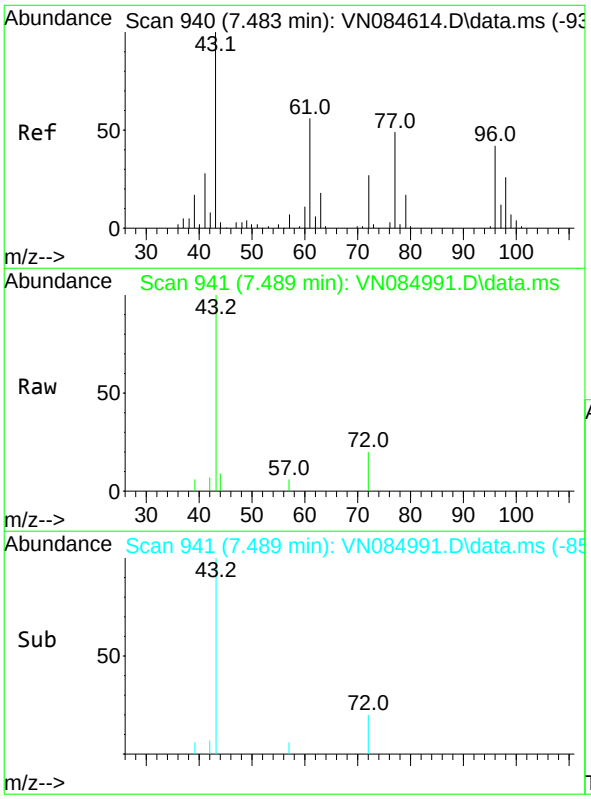
Tgt Ion:114 Resp: 160655

Ion	Ratio	Lower	Upper
114	100		
63	20.8	16.8	25.2
88	15.6	12.9	19.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/21/2024
Supervised By :Mahesh Dadoda 11/22/2024

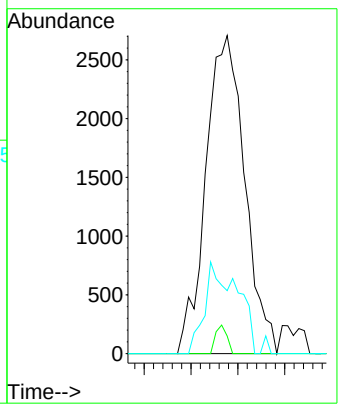


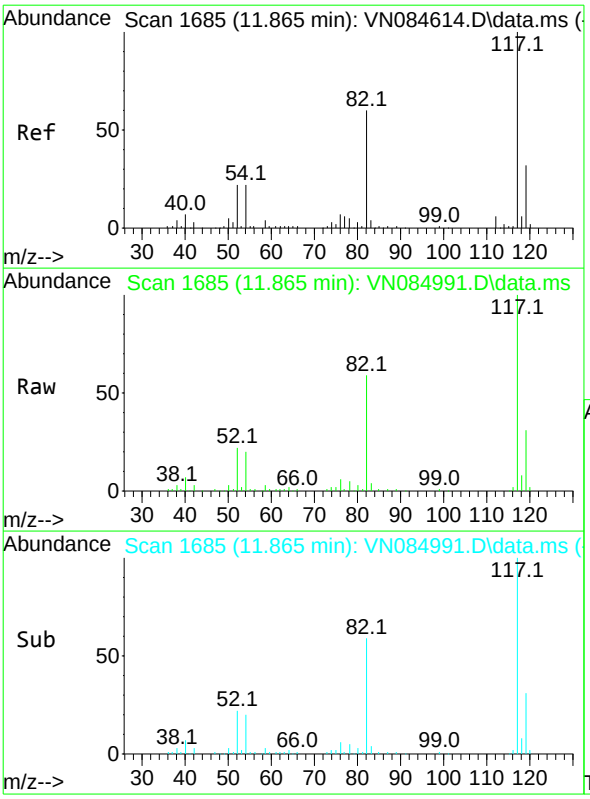


#30
2-Butanone
Concen: 6.981 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

Tgt Ion: 43 Resp: 7792

Ion	Ratio	Lower	Upper
43	100		
57	2.6	6.2	9.4#
72	14.8	21.5	32.3#

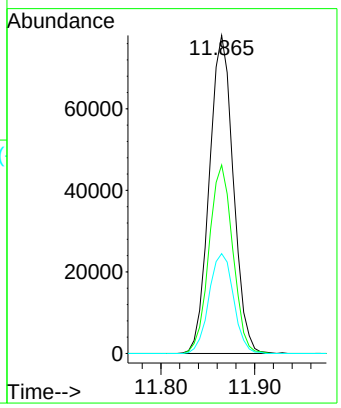




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

Tgt Ion:117 Resp: 138636

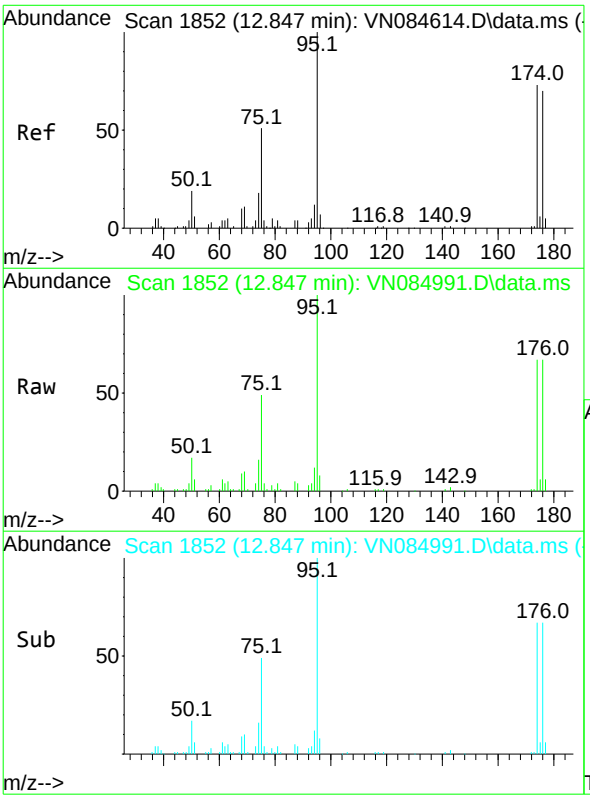
Ion	Ratio	Lower	Upper
117	100		
82	58.7	45.5	68.3
119	32.2	25.3	37.9



Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(NOV)DL

Manual Integrations
APPROVED

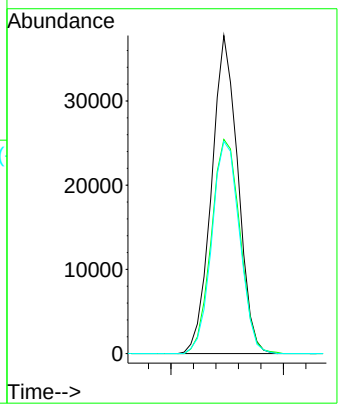
Reviewed By :John Carlone 11/21/2024
Supervised By :Mahesh Dadoda 11/22/2024

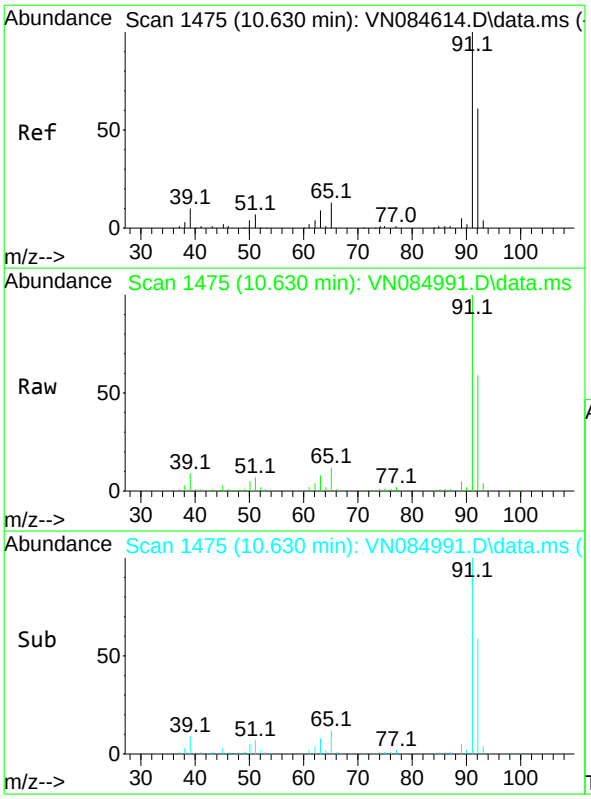


#60
4-Bromofluorobenzene
Concen: 25.768 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

Tgt Ion: 95 Resp: 61511

Ion	Ratio	Lower	Upper
95	100		
174	73.2	59.6	89.4
176	70.4	58.6	88.0

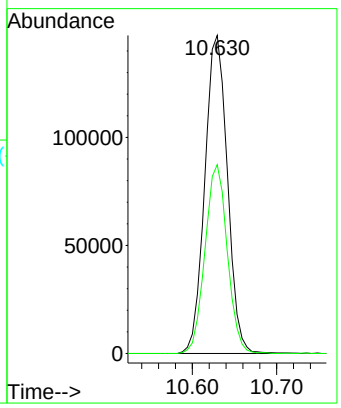




#62
Toluene
Concen: 34.723 ug/l
RT: 10.630 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

Tgt Ion: 91 Resp: 274179

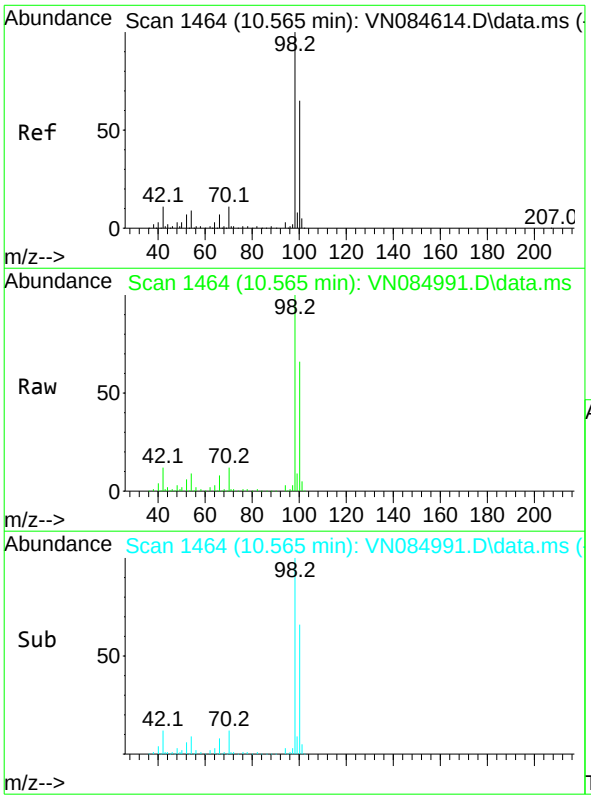
Ion	Ratio	Lower	Upper
91	100		
92	58.4	47.5	71.3



Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(NOV)DL

Manual Integrations
APPROVED

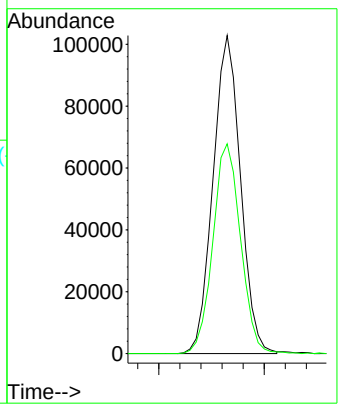
Reviewed By :John Carlone 11/21/2024
Supervised By :Mahesh Dadoda 11/22/2024

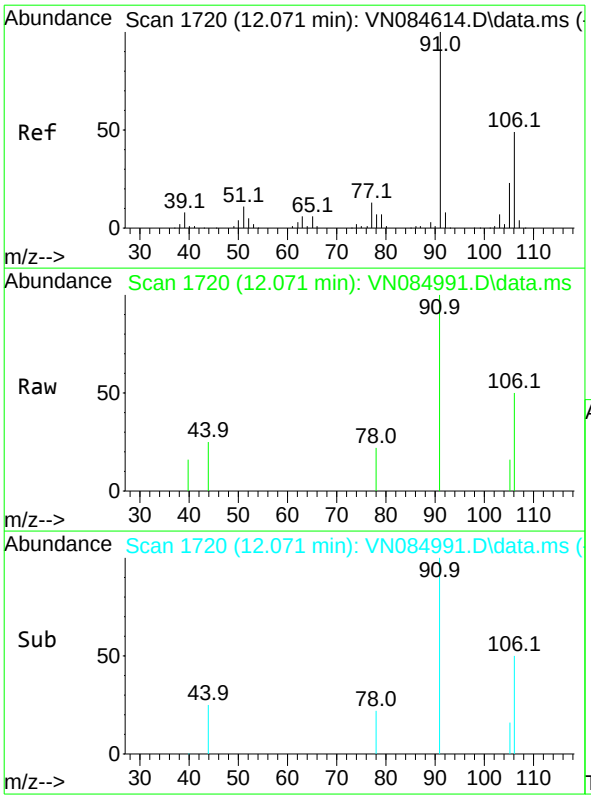


#63
Toluene-d8
Concen: 28.376 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

Tgt Ion: 98 Resp: 186234

Ion	Ratio	Lower	Upper
98	100		
100	66.4	52.2	78.2





#67
m/p-Xylenes
Concen: 0.269 ug/l
RT: 12.071 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

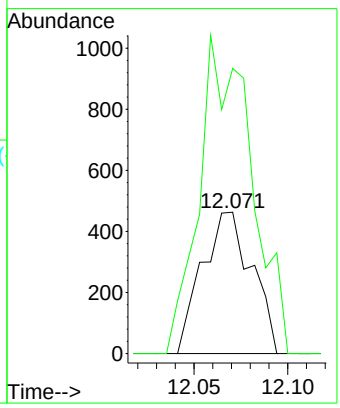
Tgt Ion:106 Resp: 855

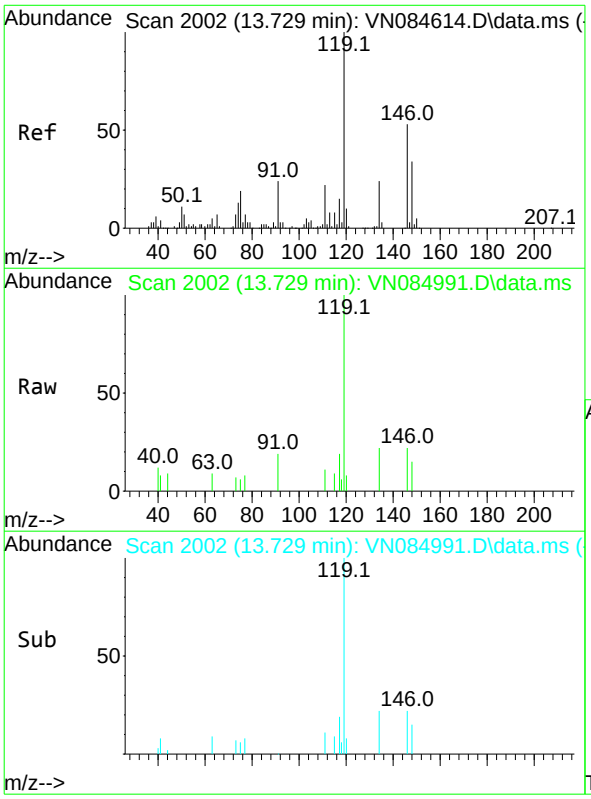
Ion	Ratio	Lower	Upper
106	100		
91	120.4	168.1	252.1#

Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(NOV)DL

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/21/2024
Supervised By :Mahesh Dadoda 11/22/2024

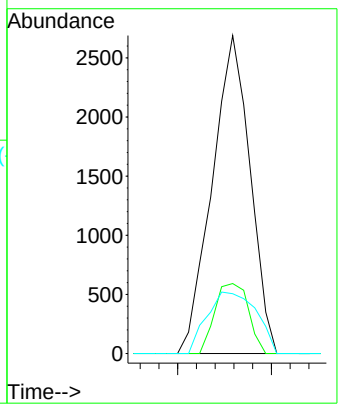




#82
p-Isopropyltoluene
Concen: 0.608 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

Tgt Ion:119 Resp: 3786

Ion	Ratio	Lower	Upper
119	100		
134	19.5	0.0	51.4
91	25.1	0.0	50.4



Raw Data: **VN084875.D**

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

Report of Analysis

Client:	Tully Environmental, Inc	Date Collected:	11/13/24
Project:	Transfer Station-SPDES	Date Received:	11/14/24
Client Sample ID:	002-35TH-AVE(NOV)	SDG No.:	P4853
Lab Sample ID:	P4853-02	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-BTEX
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084875.D	1		11/15/24 17:36	VN111524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	0.69	U	0.69	5.00	ug/L
108-88-3	Toluene	210	E	0.72	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
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.8		91 - 110	103%	SPK: 30
2037-26-5	Toluene-d8	28.2		91 - 112	94%	SPK: 30
460-00-4	4-Bromofluorobenzene	26.4		63 - 112	88%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	23600	7.806			
540-36-3	1,4-Difluorobenzene	123000	9.1			
3114-55-4	Chlorobenzene-d5	115000	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

Sample Results: **VN084875.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111524\
Data File : VN084875.D
Acq On : 15 Nov 2024 17:36
Operator : JC\MD
Sample : P4853-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(NOV)

Quant Time: Nov 15 22:27:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

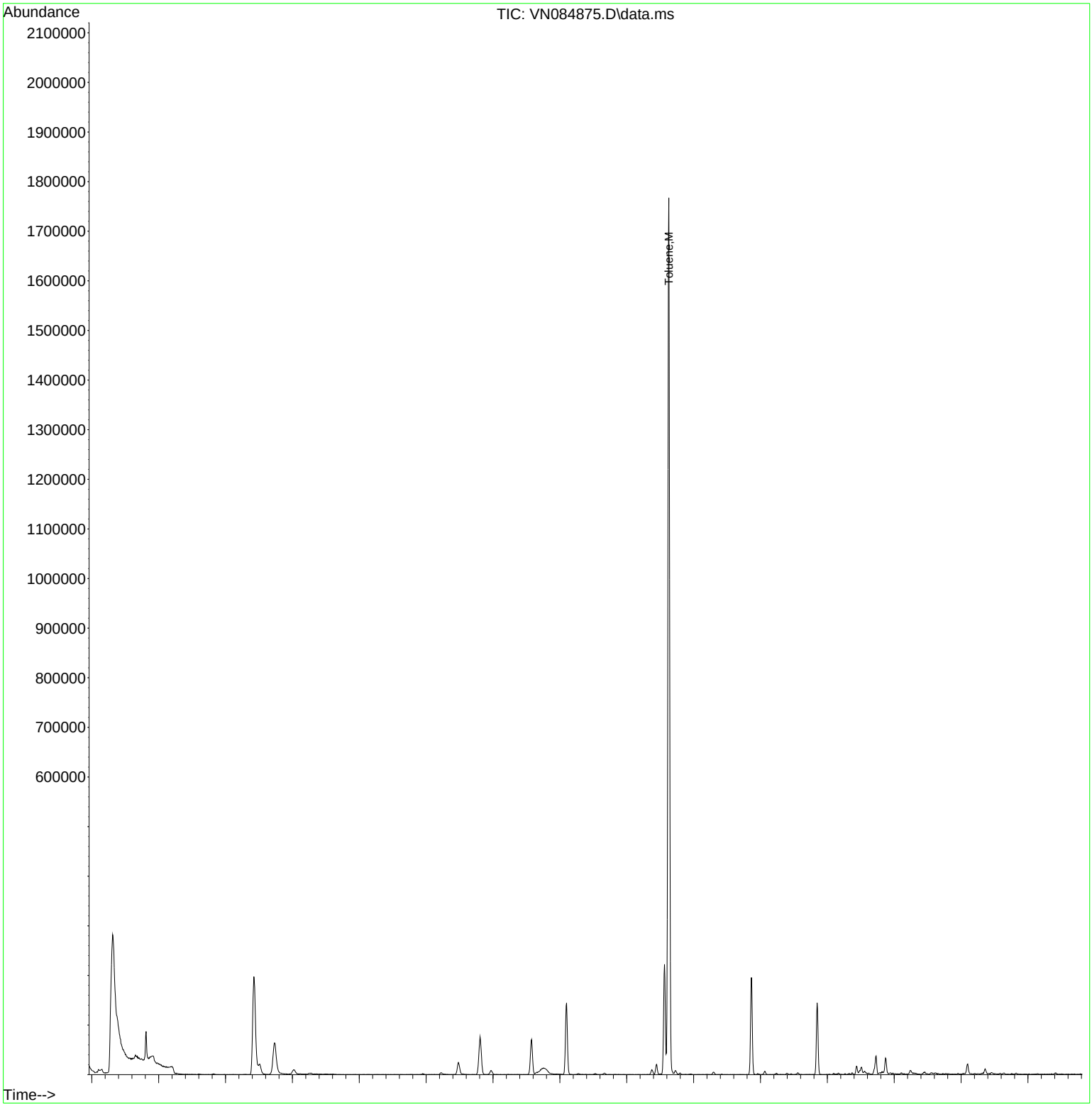
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.806	128	23575	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	122982	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	114966	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	58387	30.806	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.700%			
60) 4-Bromofluorobenzene	12.847	95	52268	26.404	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 88.000%			
63) Toluene-d8	10.565	98	153284	28.164	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 93.867%			
Target Compounds						Qvalue
12) Methyl Acetate	5.030	43	18868	8.810	ug/l	96
15) Acetone	4.424	58	111564	619.747	ug/l	91
25) Chloroform	7.959	83	3990	1.382	ug/l	92
30) 2-Butanone	7.482	43	38351	44.883	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	14219	7.840	ug/l	97
62) Toluene	10.629	91	1364653	208.406	ug/l	98
66) Ethyl Benzene	11.959	91	1924	0.280	ug/l	96
67) m/p-Xylenes	12.070	106	2075	0.788	ug/l	100
68) o-Xylene	12.400	106	759	0.299	ug/l	74
80) 1,2,4-Trimethylbenzene	13.482	105	4816	0.885	ug/l	79
82) p-Isopropyltoluene	13.729	119	19225	3.722	ug/l	93
91) Naphthalene	15.635	128	3007	0.652	ug/l #	89

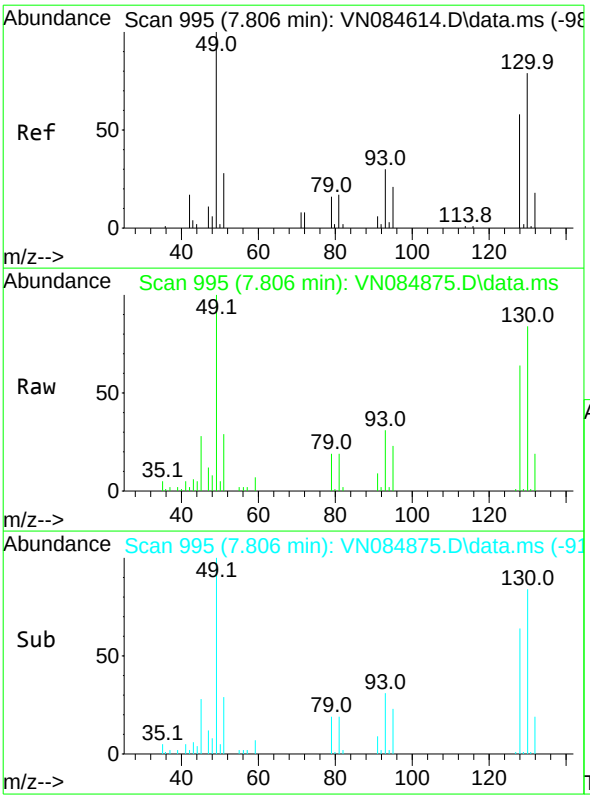
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111524\
Data File : VN084875.D
Acq On : 15 Nov 2024 17:36
Operator : JC\MD
Sample : P4853-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(NOV)

Quant Time: Nov 15 22:27:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration



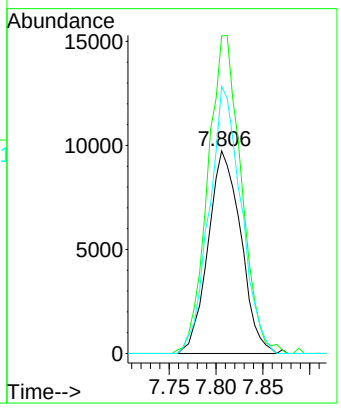


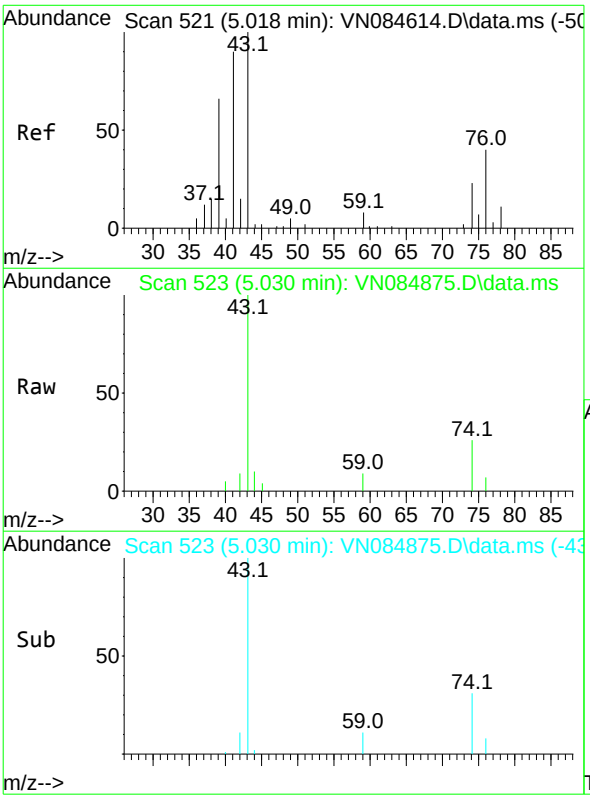
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.806 min Scan# 99
Delta R.T. 0.000 min
Lab File: VN084875.D
Acq: 15 Nov 2024 17:36

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(NOV)

Tgt Ion:128 Resp: 23575

Ion	Ratio	Lower	Upper
128	100		
49	159.4	0.0	427.0
130	129.7	0.0	322.2

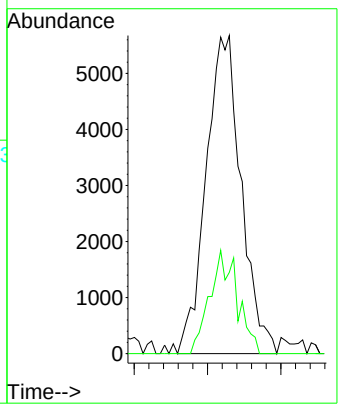


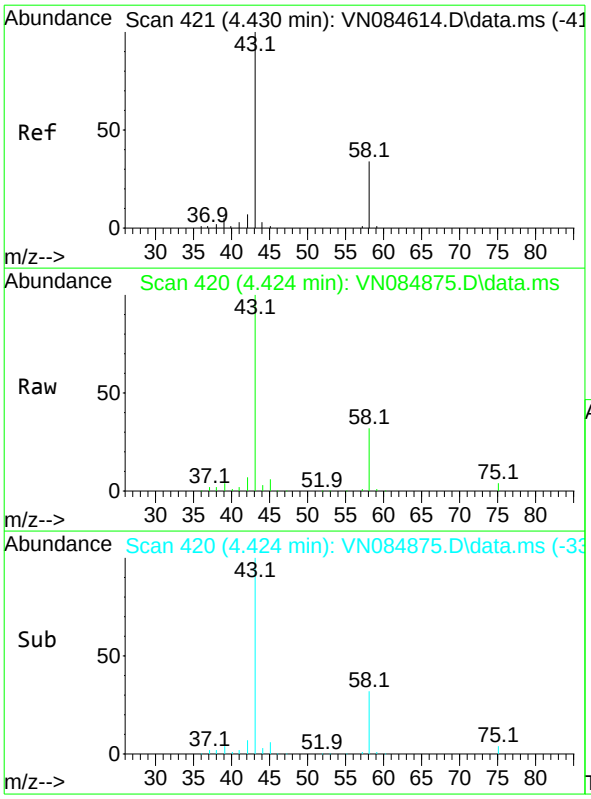


#12
Methyl Acetate
Concen: 8.810 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN084875.D
Acq: 15 Nov 2024 17:36

Tgt Ion: 43 Resp: 18868

Ion	Ratio	Lower	Upper
43	100		
74	25.6	19.0	28.4



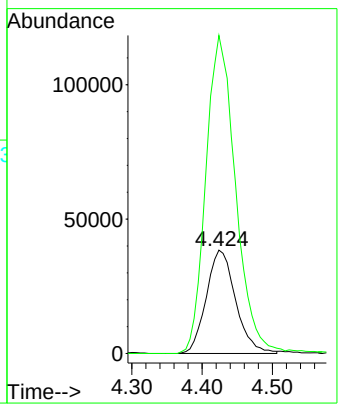


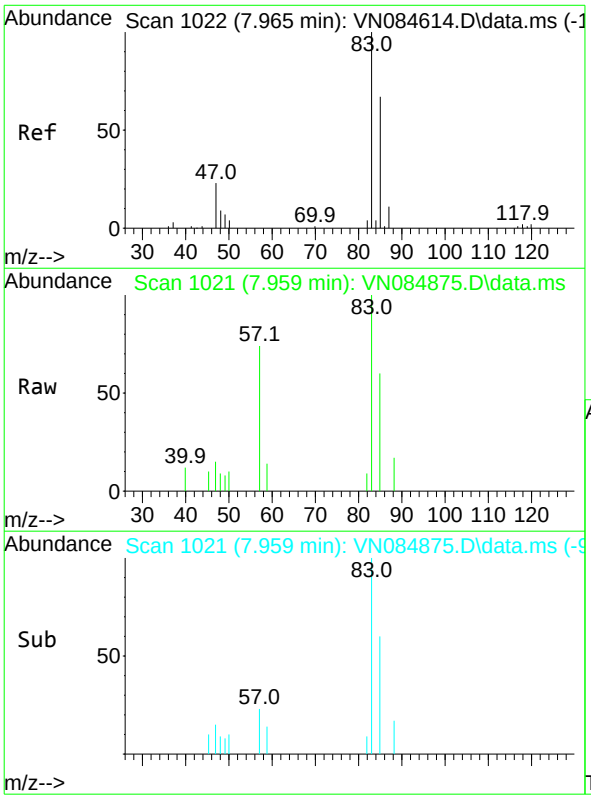
#15
Acetone
Concen: 619.747 ug/l
RT: 4.424 min Scan# 42
Delta R.T. -0.006 min
Lab File: VN084875.D
Acq: 15 Nov 2024 17:36

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(NOV)

Tgt Ion: 58 Resp: 111564

Ion	Ratio	Lower	Upper
58	100		
43	307.7	233.0	349.6

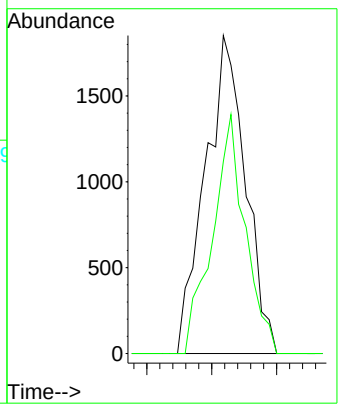


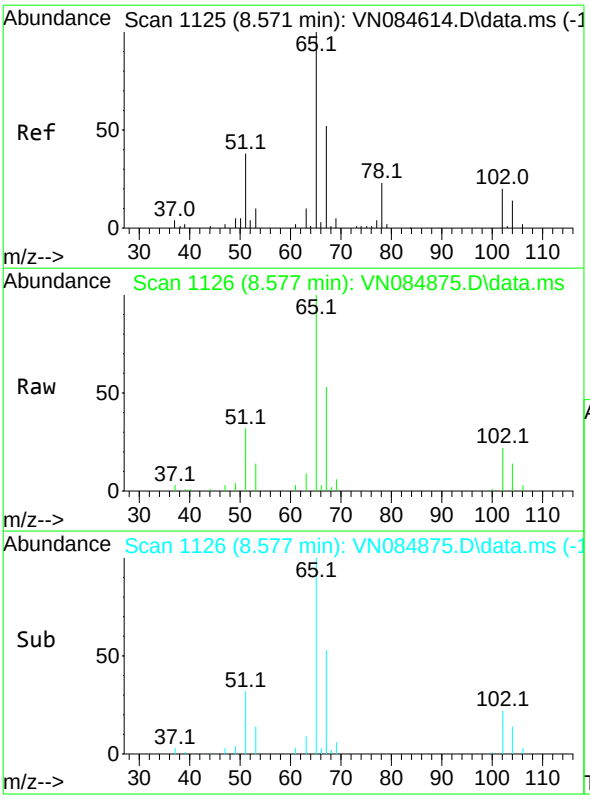


#25
Chloroform
Concen: 1.382 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. -0.006 min
Lab File: VN084875.D
Acq: 15 Nov 2024 17:36

Tgt Ion: 83 Resp: 3990

Ion	Ratio	Lower	Upper
83	100		
85	60.4	53.4	80.2



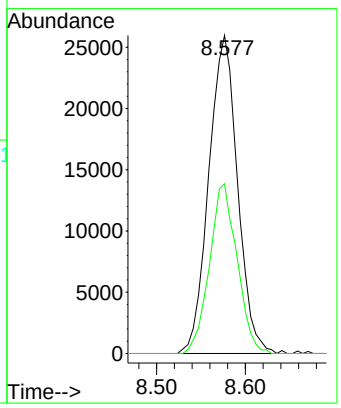


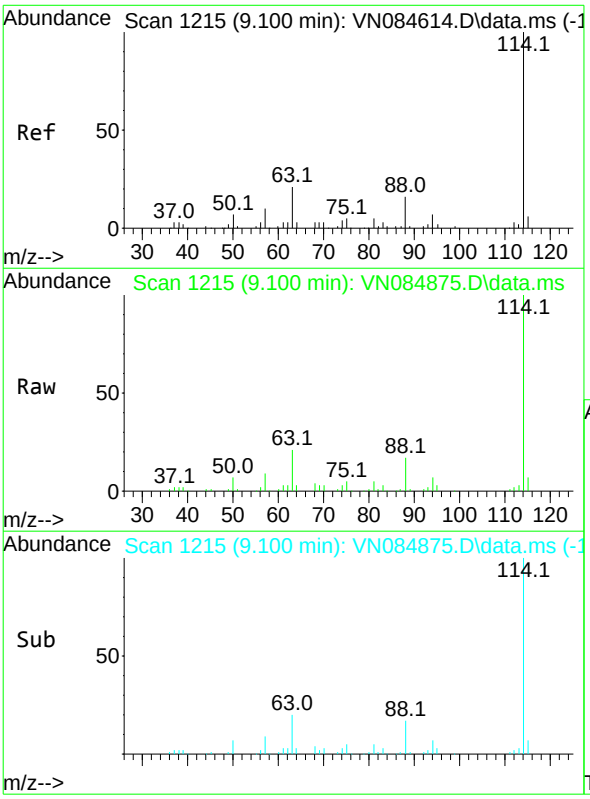
#27
1,2-Dichloroethane-d4
Concen: 30.806 ug/l
RT: 8.577 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN084875.D
Acq: 15 Nov 2024 17:36

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(NOV)

Tgt Ion: 65 Resp: 58387

Ion	Ratio	Lower	Upper
65	100		
67	51.3	40.7	61.1

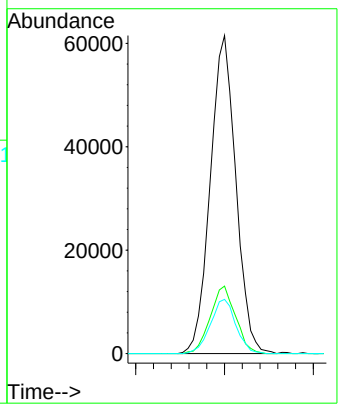


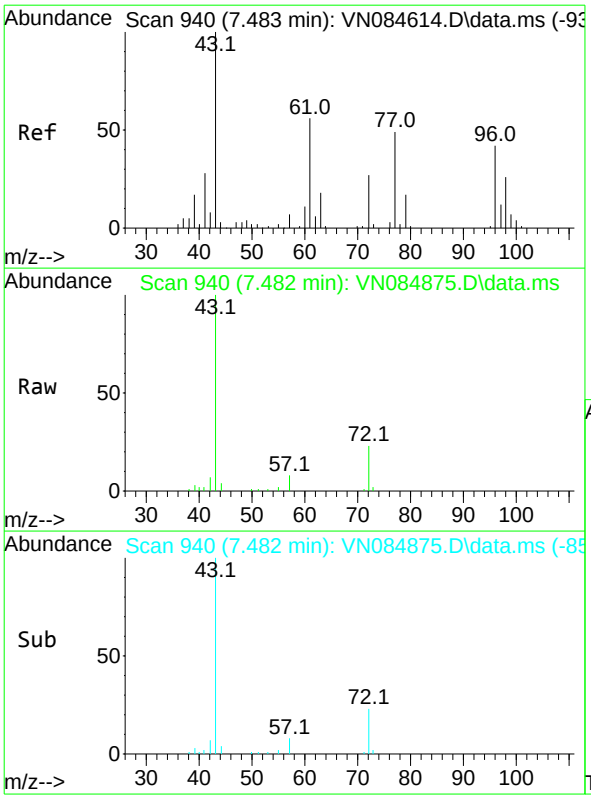


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN084875.D
Acq: 15 Nov 2024 17:36

Tgt Ion:114 Resp: 122982

Ion	Ratio	Lower	Upper
114	100		
63	21.0	16.8	25.2
88	17.0	12.9	19.3



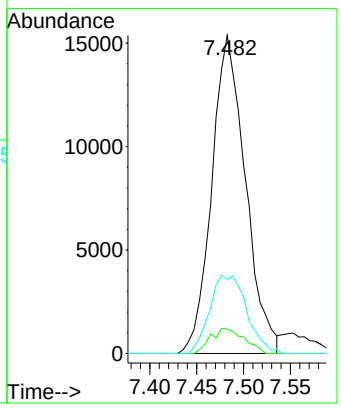


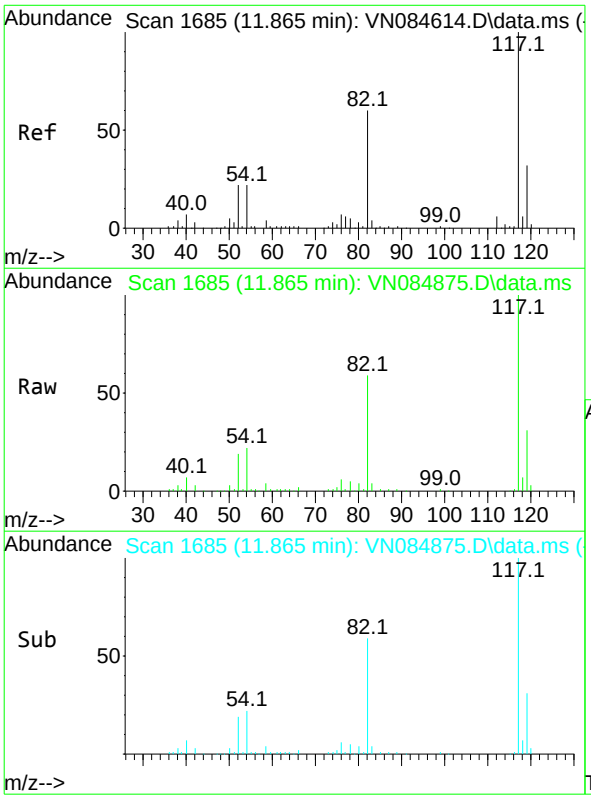
#30
2-Butanone
Concen: 44.883 ug/l
RT: 7.482 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN084875.D
Acq: 15 Nov 2024 17:36

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(NOV)

Tgt Ion: 43 Resp: 38351

Ion	Ratio	Lower	Upper
43	100		
57	7.9	6.2	9.4
72	27.0	21.5	32.3

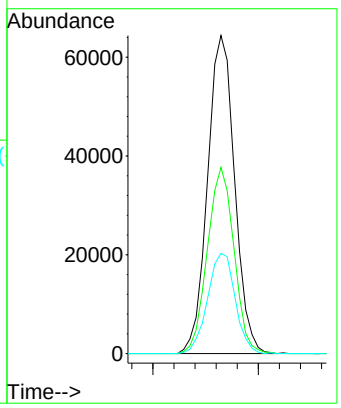


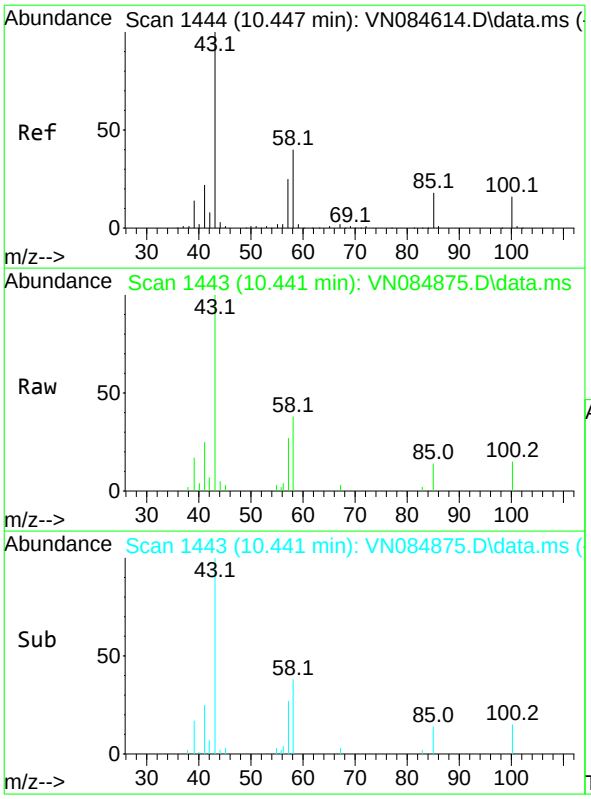


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN084875.D
Acq: 15 Nov 2024 17:36

Tgt Ion:117 Resp: 114966

Ion	Ratio	Lower	Upper
117	100		
82	57.5	45.5	68.3
119	32.1	25.3	37.9



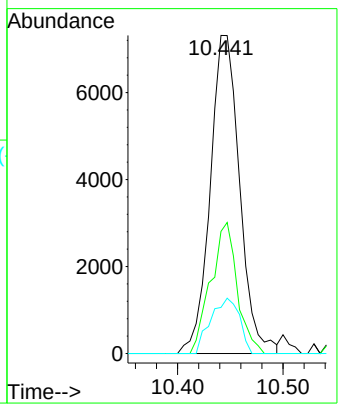


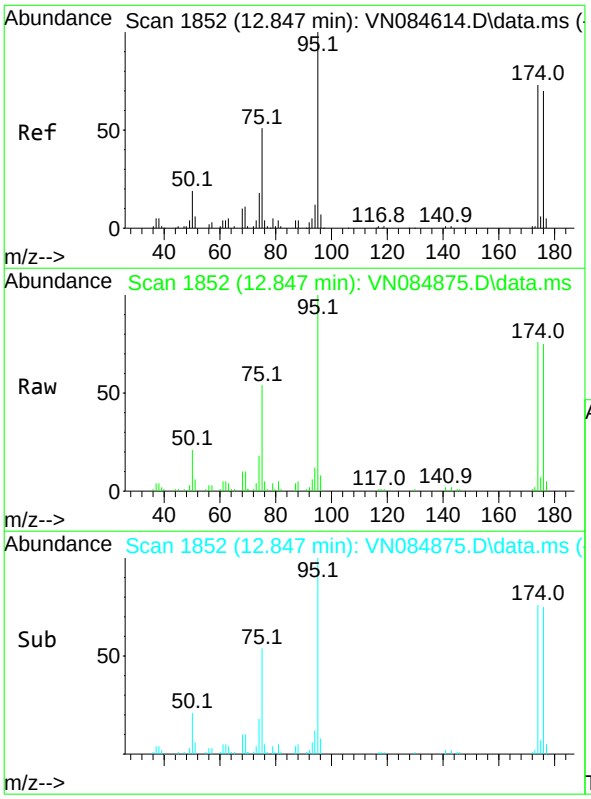
#58
4-Methyl-2-Pentanone
Concen: 7.840 ug/l
RT: 10.441 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN084875.D
Acq: 15 Nov 2024 17:36

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(NOV)

Tgt Ion: 43 Resp: 14219

Ion	Ratio	Lower	Upper
43	100		
58	36.9	31.2	46.8
85	16.9	14.9	22.3

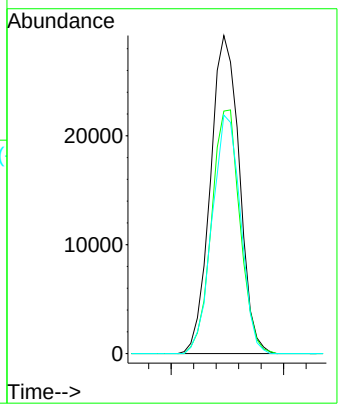


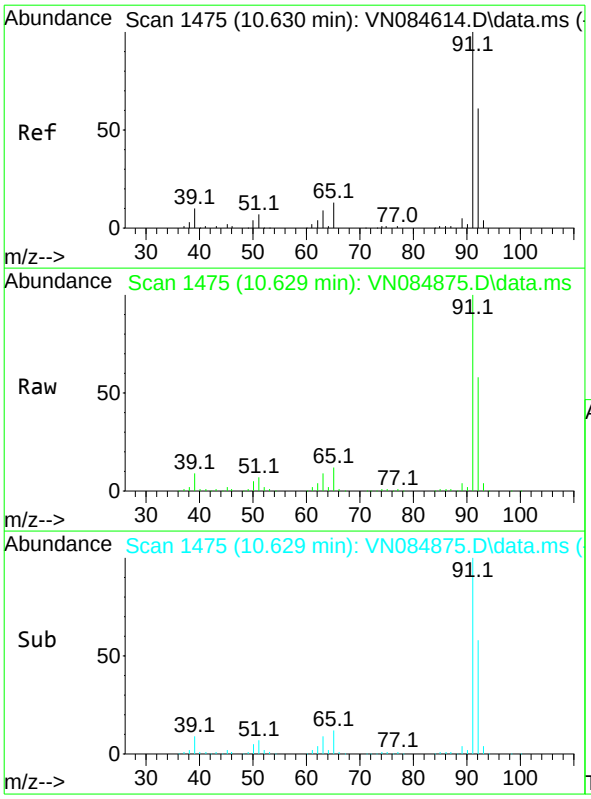


#60
4-Bromofluorobenzene
Concen: 26.404 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084875.D
Acq: 15 Nov 2024 17:36

Tgt Ion: 95 Resp: 52268

Ion	Ratio	Lower	Upper
95	100		
174	75.2	59.6	89.4
176	73.4	58.6	88.0



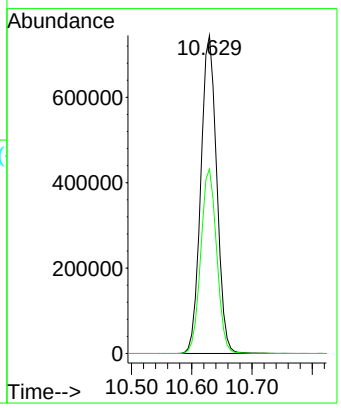


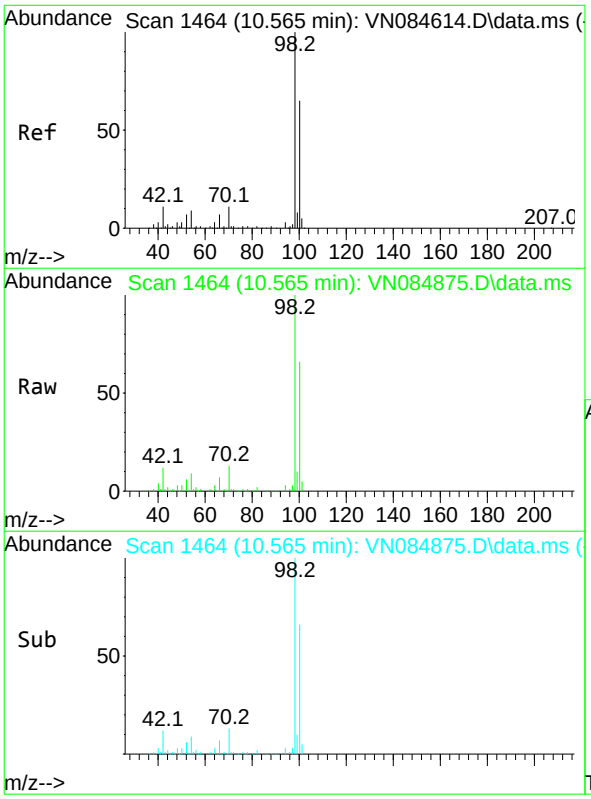
#62
Toluene
Concen: 208.406 ug/l
RT: 10.629 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN084875.D
Acq: 15 Nov 2024 17:36

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(NOV)

Tgt Ion: 91 Resp: 1364653

Ion	Ratio	Lower	Upper
91	100		
92	58.0	47.5	71.3

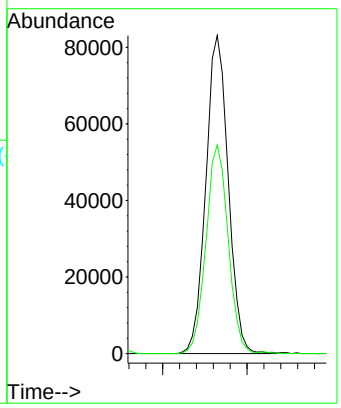


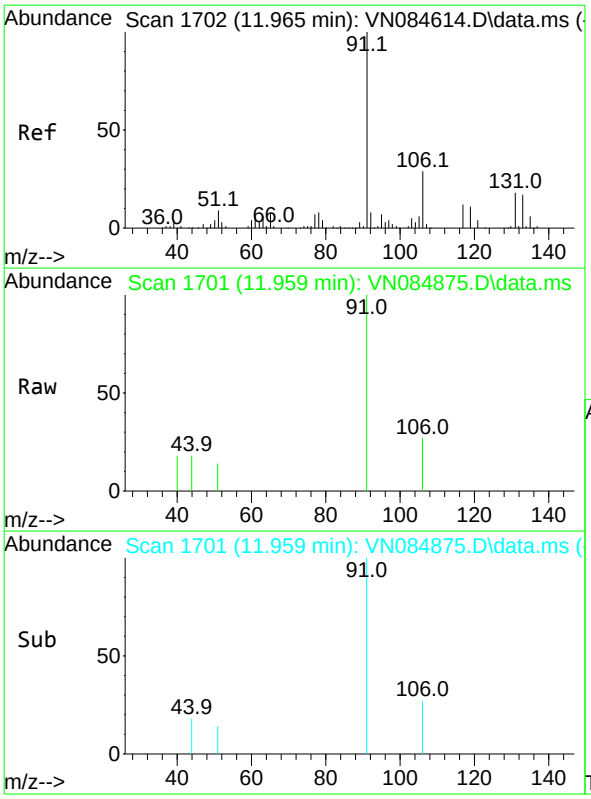


#63
Toluene-d8
Concen: 28.164 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084875.D
Acq: 15 Nov 2024 17:36

Tgt Ion: 98 Resp: 153284

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.2	78.2



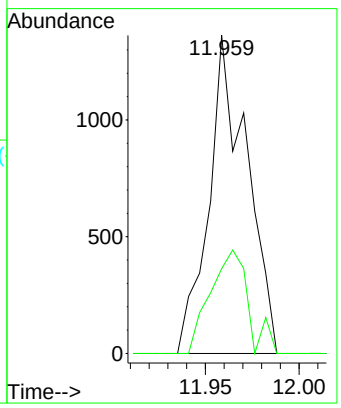


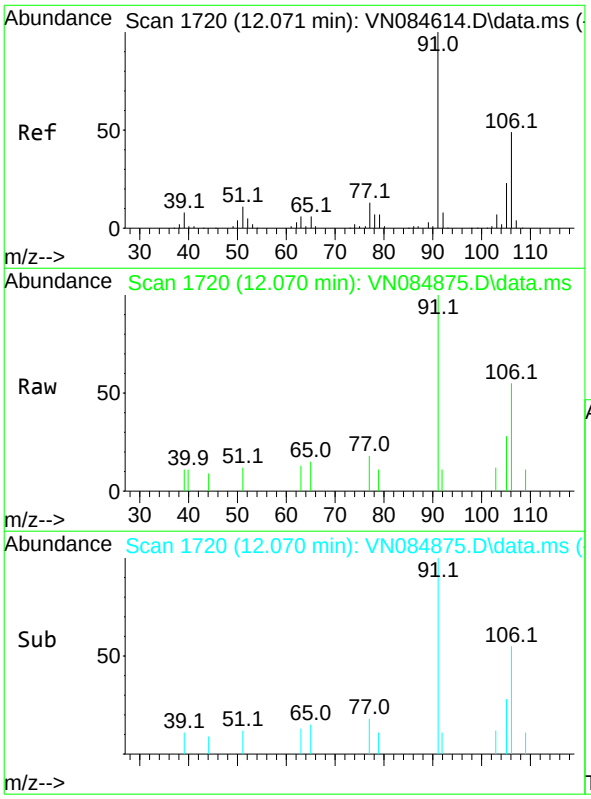
#66
Ethyl Benzene
Concen: 0.280 ug/l
RT: 11.959 min Scan# 17
Delta R.T. -0.006 min
Lab File: VN084875.D
Acq: 15 Nov 2024 17:36

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(NOV)

Tgt Ion: 91 Resp: 1924

Ion	Ratio	Lower	Upper
91	100		
106	26.7	22.9	34.3

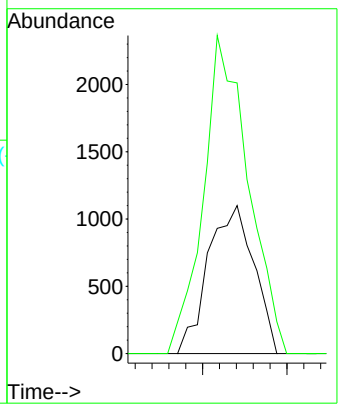


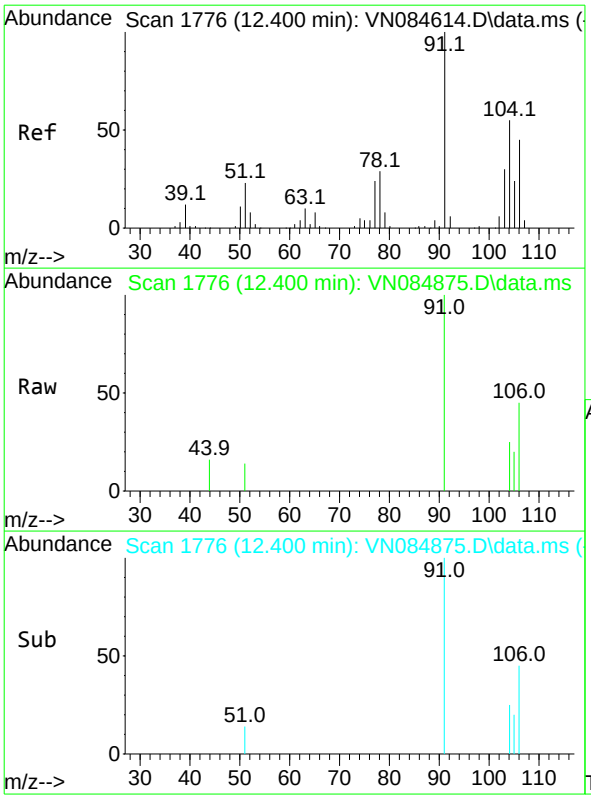


#67
m/p-Xylenes
Concen: 0.788 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN084875.D
Acq: 15 Nov 2024 17:36

Tgt Ion:106 Resp: 2075

Ion	Ratio	Lower	Upper
106	100		
91	210.4	168.1	252.1



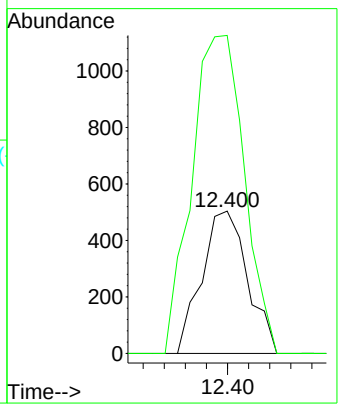


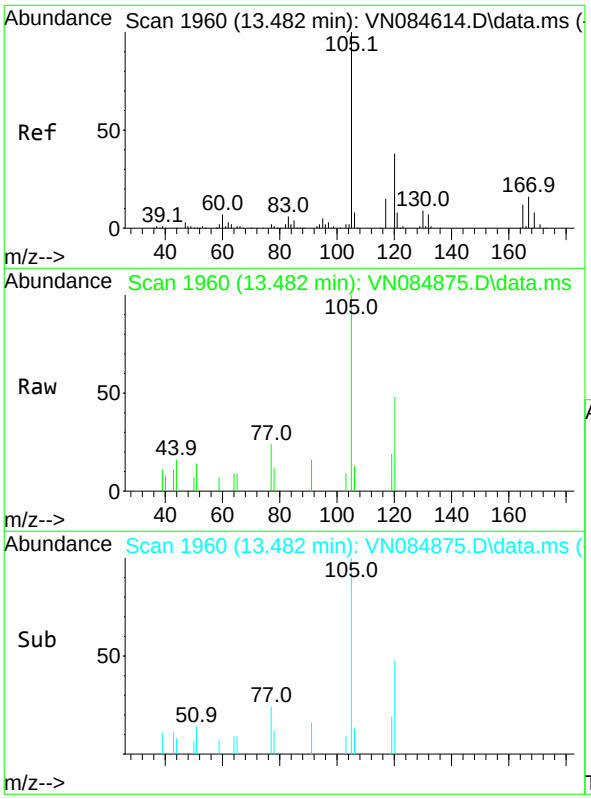
#68
o-Xylene
Concen: 0.299 ug/l
RT: 12.400 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN084875.D
Acq: 15 Nov 2024 17:36

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(NOV)

Tgt Ion:106 Resp: 759

Ion	Ratio	Lower	Upper
106	100		
91	256.3	107.7	322.9

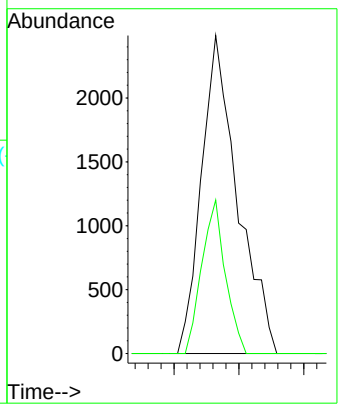


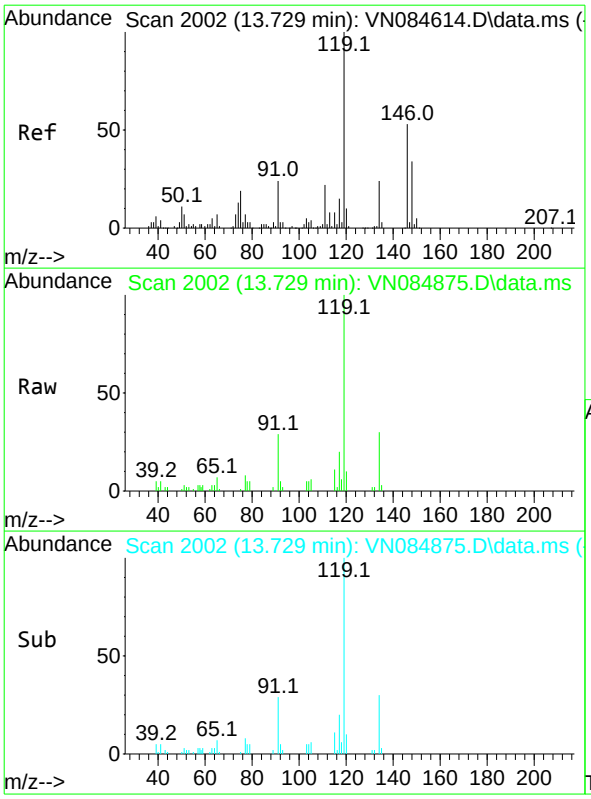


#80
1,2,4-Trimethylbenzene
Concen: 0.885 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN084875.D
Acq: 15 Nov 2024 17:36

Tgt Ion:105 Resp: 4816

Ion	Ratio	Lower	Upper
105	100		
120	31.5	0.0	90.4



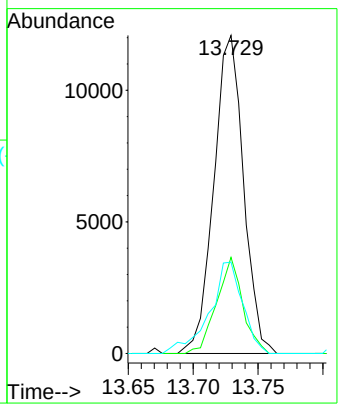


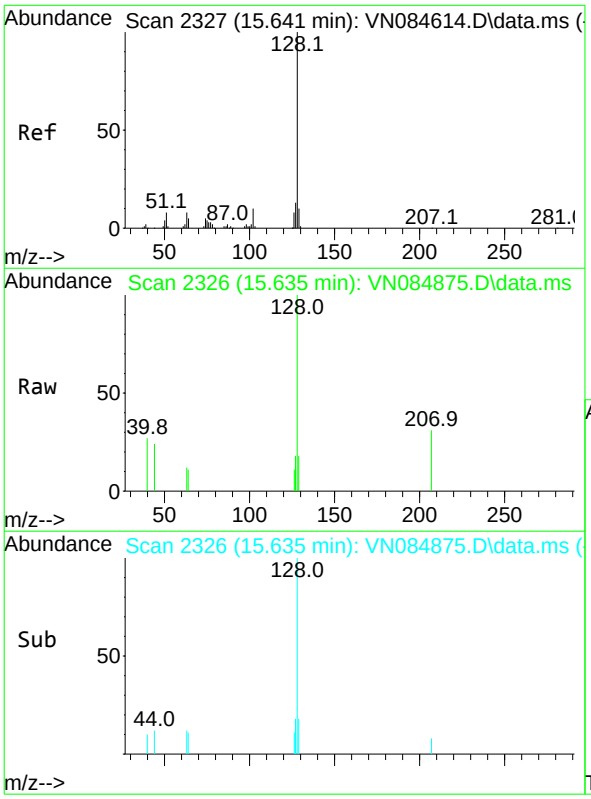
#82
p-Isopropyltoluene
Concen: 3.722 ug/l
RT: 13.729 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN084875.D
Acq: 15 Nov 2024 17:36

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(NOV)

Tgt Ion:119 Resp: 19225

Ion	Ratio	Lower	Upper
119	100		
134	26.5	0.0	51.4
91	32.0	0.0	50.4

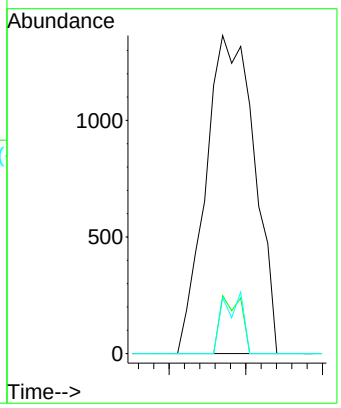




#91
Naphthalene
Concen: 0.652 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.006 min
Lab File: VN084875.D
Acq: 15 Nov 2024 17:36

Tgt Ion:128 Resp: 3007

Ion	Ratio	Lower	Upper
128	100		
127	7.9	10.3	15.5#
129	7.7	8.6	12.8#



Raw Data: **VN084992.D**

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

Report of Analysis

Client:	Tully Environmental, Inc	Date Collected:	11/13/24
Project:	Transfer Station-SPDES	Date Received:	11/14/24
Client Sample ID:	002-35TH-AVE(NOV)DL	SDG No.:	P4853
Lab Sample ID:	P4853-02DL	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-BTEX
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084992.D	5		11/21/24 12:42	VN112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	3.50	UD	3.50	25.0	ug/L
108-88-3	Toluene	180	D	3.60	25.0	ug/L
100-41-4	Ethyl Benzene	3.70	UD	3.70	25.0	ug/L
179601-23-1	m/p-Xylenes	8.60	UD	8.60	50.0	ug/L
95-47-6	o-Xylene	4.10	UD	4.10	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.1		91 - 110	100%	SPK: 30
2037-26-5	Toluene-d8	28.0		91 - 112	93%	SPK: 30
460-00-4	4-Bromofluorobenzene	25.2		63 - 112	84%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	29500	7.812			
540-36-3	1,4-Difluorobenzene	147000	9.1			
3114-55-4	Chlorobenzene-d5	131000	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

Sample Results: **VN084992.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112124\
Data File : VN084992.D
Acq On : 21 Nov 2024 12:42
Operator : JC\MD
Sample : P4853-02DL 5X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(NOV)DL

Quant Time: Nov 21 14:43:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

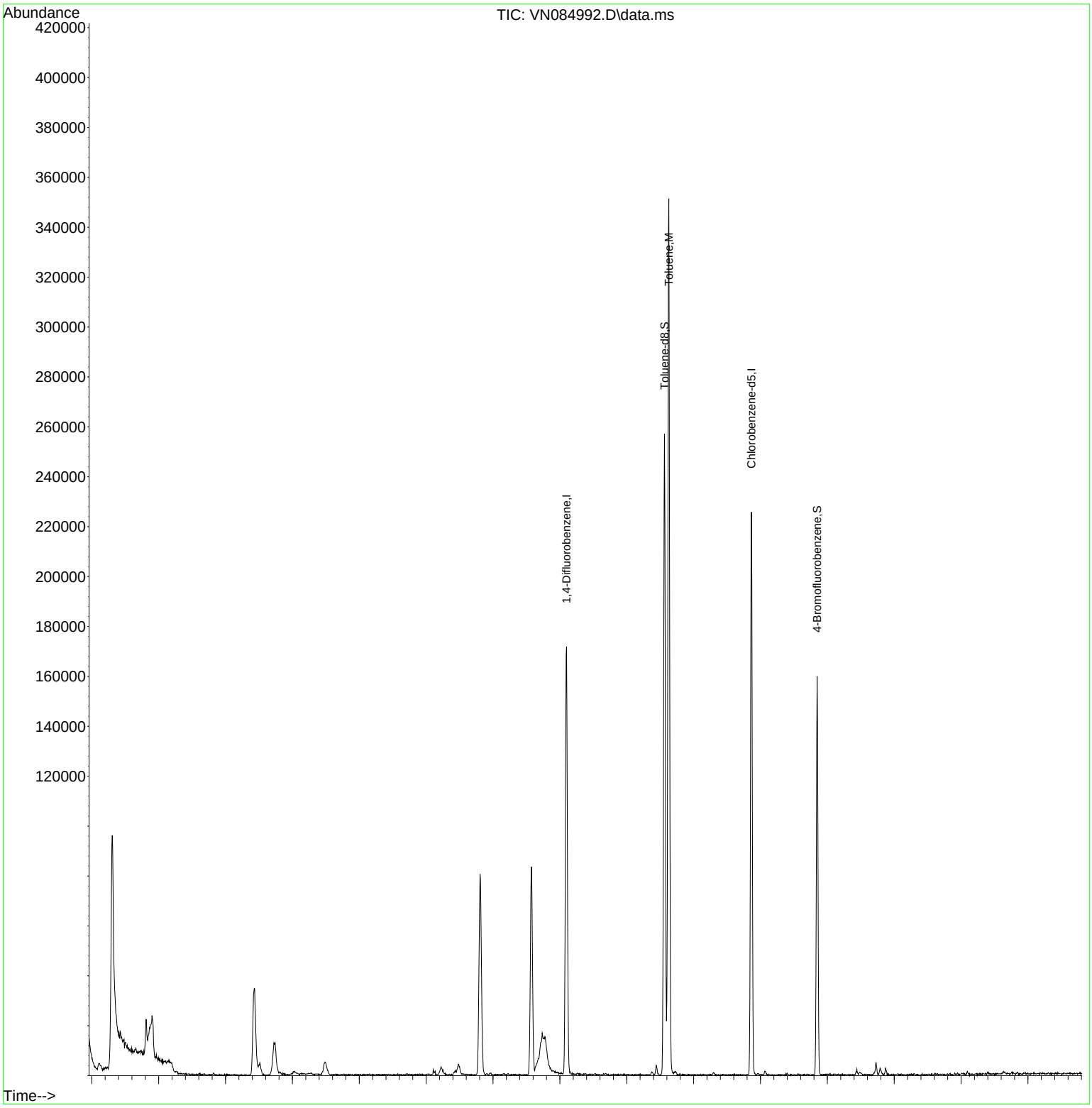
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.812	128	29543	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	146557	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	130638	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	71447	30.082	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.267%			
60) 4-Bromofluorobenzene	12.847	95	56752	25.230	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 84.100%			
63) Toluene-d8	10.565	98	172951	27.966	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 93.233%			
Target Compounds						Qvalue
15) Acetone	4.436	58	21410	94.908	ug/l	91
62) Toluene	10.629	91	265913	35.738	ug/l	99

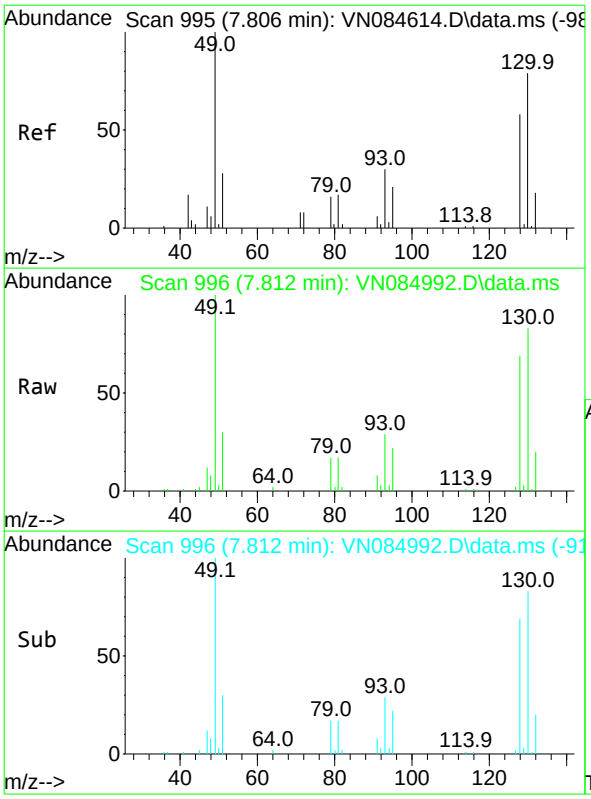
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112124\
Data File : VN084992.D
Acq On : 21 Nov 2024 12:42
Operator : JC\MD
Sample : P4853-02DL 5X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(NOV)DL

Quant Time: Nov 21 14:43:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration



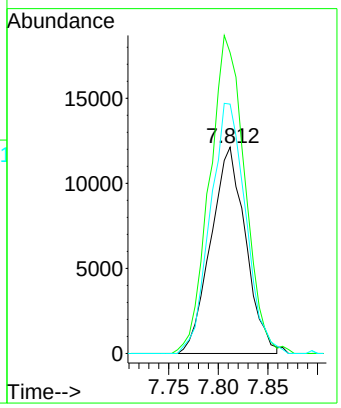


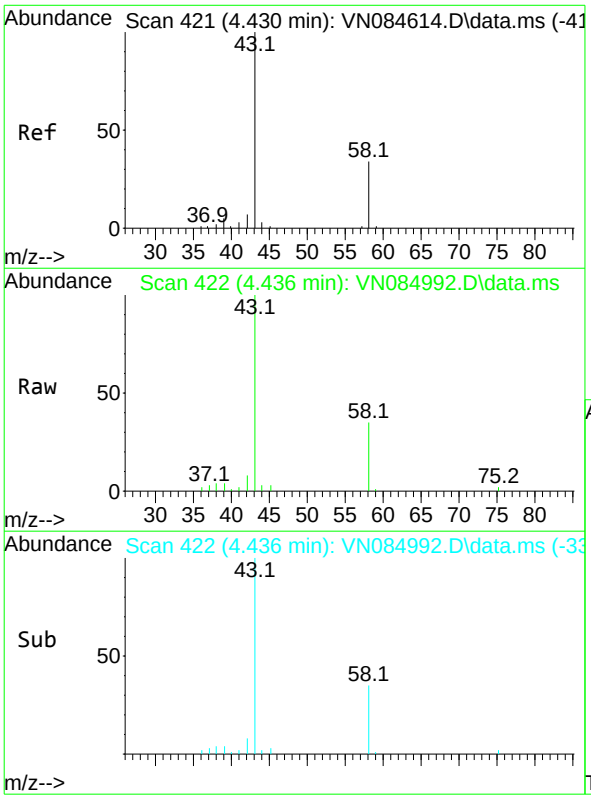
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 99
Delta R.T. 0.006 min
Lab File: VN084992.D
Acq: 21 Nov 2024 12:42

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(NOV)DL

Tgt Ion:128 Resp: 29543

Ion	Ratio	Lower	Upper
128	100		
49	155.5	0.0	427.0
130	123.5	0.0	322.2

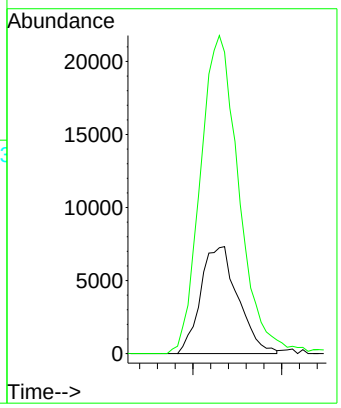


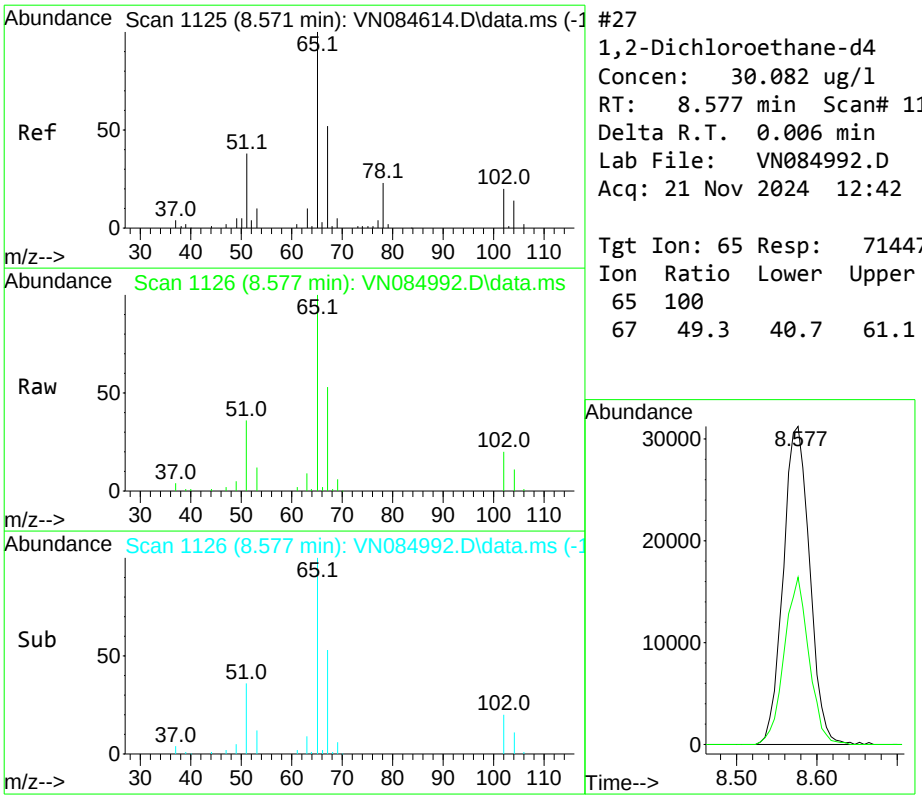


#15
Acetone
Concen: 94.908 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.006 min
Lab File: VN084992.D
Acq: 21 Nov 2024 12:42

Tgt Ion: 58 Resp: 21410

Ion	Ratio	Lower	Upper
58	100		
43	274.8	233.0	349.6



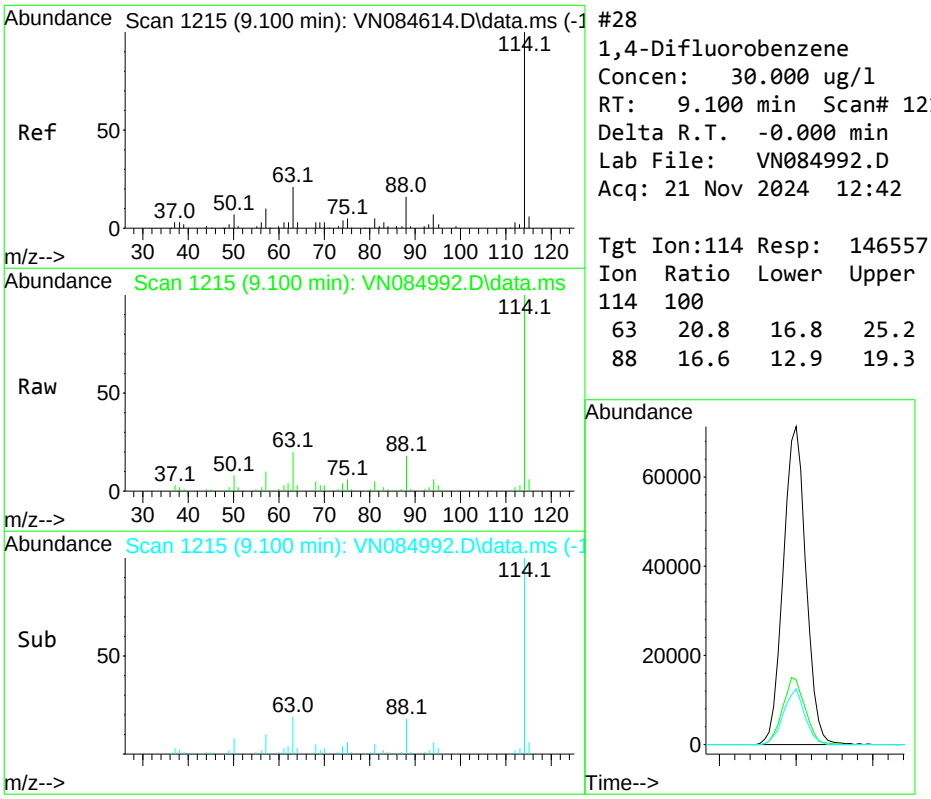


#27
1,2-Dichloroethane-d4
Concen: 30.082 ug/l
RT: 8.577 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN084992.D
Acq: 21 Nov 2024 12:42

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(NOV)DL

Tgt Ion: 65 Resp: 71447

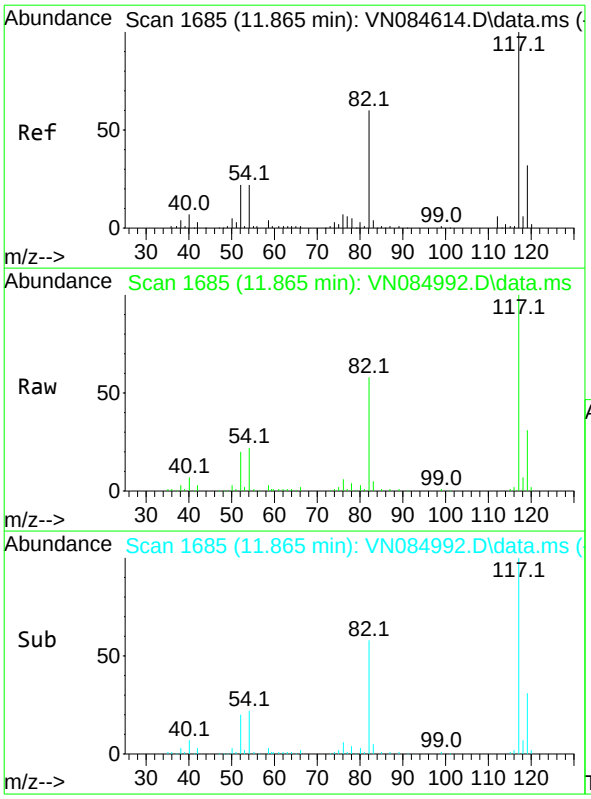
Ion	Ratio	Lower	Upper
65	100		
67	49.3	40.7	61.1



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN084992.D
Acq: 21 Nov 2024 12:42

Tgt Ion:114 Resp: 146557

Ion	Ratio	Lower	Upper
114	100		
63	20.8	16.8	25.2
88	16.6	12.9	19.3

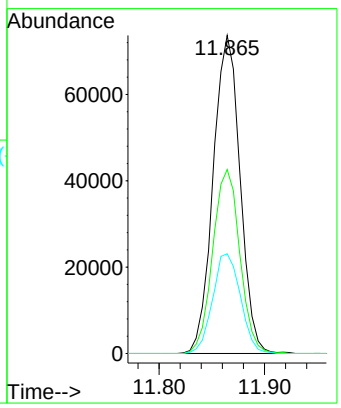


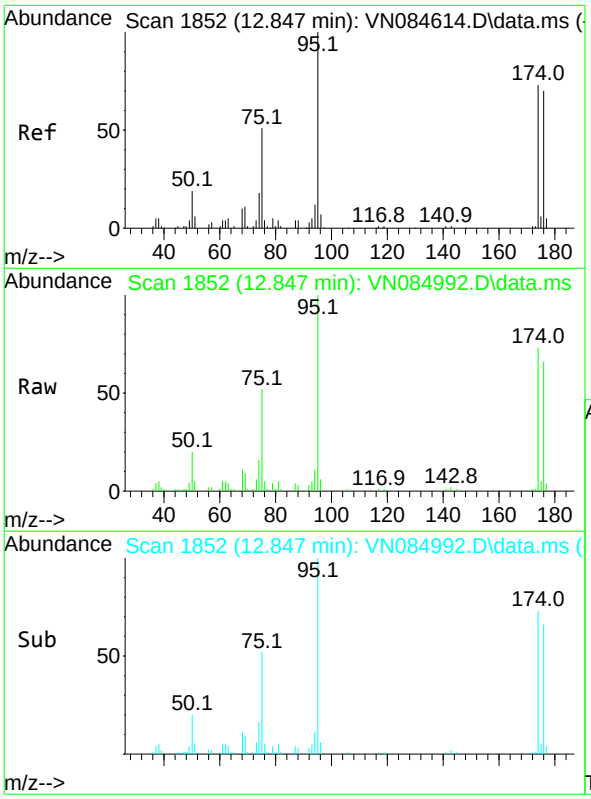
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN084992.D
Acq: 21 Nov 2024 12:42

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(NOV)DL

Tgt Ion:117 Resp: 130638

Ion	Ratio	Lower	Upper
117	100		
82	58.3	45.5	68.3
119	32.4	25.3	37.9

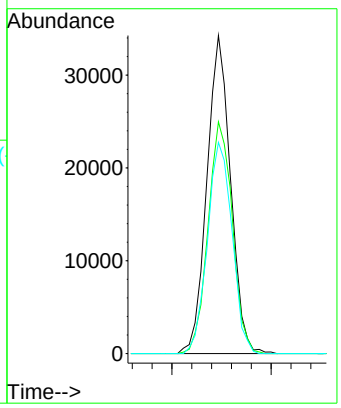


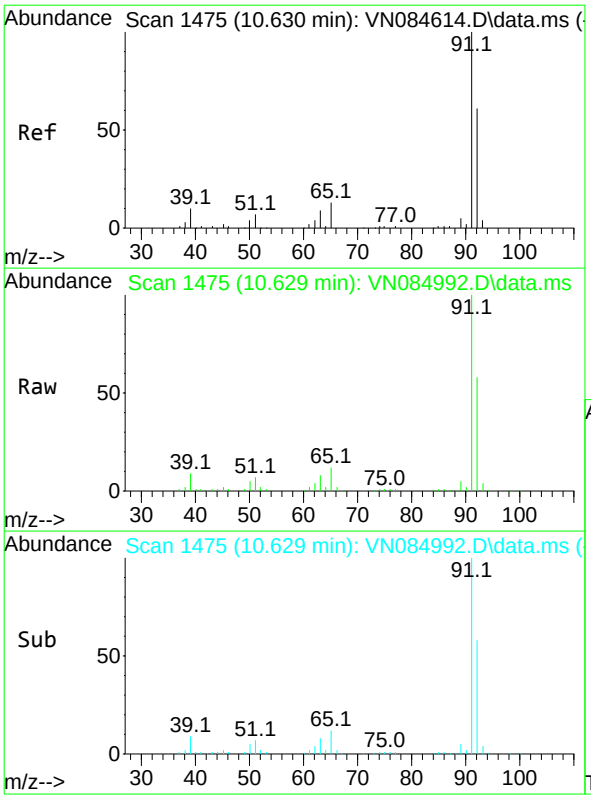


#60
4-Bromofluorobenzene
Concen: 25.230 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084992.D
Acq: 21 Nov 2024 12:42

Tgt Ion: 95 Resp: 56752

Ion	Ratio	Lower	Upper
95	100		
174	74.9	59.6	89.4
176	69.0	58.6	88.0



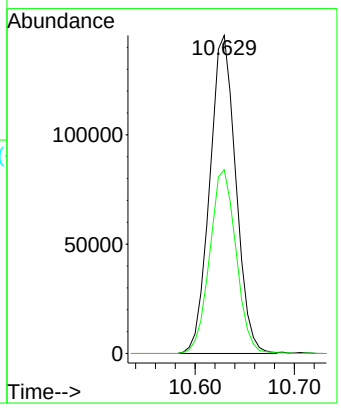


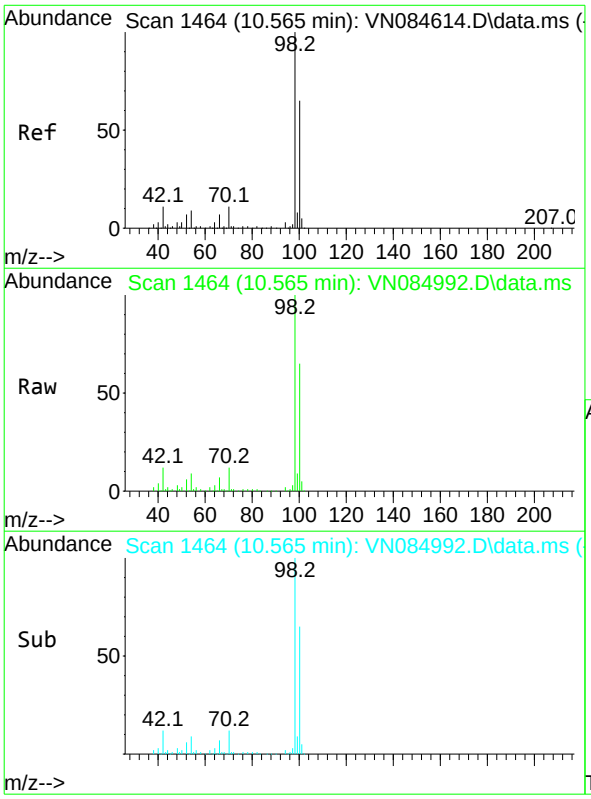
#62
Toluene
Concen: 35.738 ug/l
RT: 10.629 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN084992.D
Acq: 21 Nov 2024 12:42

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(NOV)DL

Tgt Ion: 91 Resp: 265913

Ion	Ratio	Lower	Upper
91	100		
92	58.3	47.5	71.3

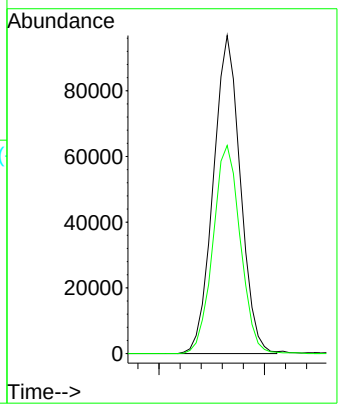




#63
Toluene-d8
Concen: 27.966 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084992.D
Acq: 21 Nov 2024 12:42

Tgt Ion: 98 Resp: 172951

Ion	Ratio	Lower	Upper
98	100		
100	66.0	52.2	78.2



CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TULL01

Lab Code: CHEM Case No.: P4853 SAS No.: P4853 SDG No.: P4853

Instrument ID: MSVOA_N Calibration Date(s): 10/31/2024 10/31/2024

Heated Purge: (Y/N) N Calibration Time(s): 12:08 18:13

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

LAB FILE ID: RRF005 = VN084613.D RRF020 = VN084614.D RRF050 = VN084615.D
RRF100 = VN084616.D RRF150 = VN084617.D RRFCAL = VN084626.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRFCAL	$\overline{RRF}$	% RSD
Benzene	1.549	1.525	1.476	1.460	1.458		1.494	2.8
Toluene	1.732	1.781	1.675	1.658	1.698		1.709	2.9
Ethyl Benzene	1.596	1.824	1.829	1.836	1.894		1.796	6.4
m/p-Xylenes	0.615	0.710	0.706	0.695	0.712		0.687	6
o-Xylene	0.569	0.690	0.681	0.683	0.692		0.663	7.9
1,2-Dichloroethane-d4	2.444	2.473	2.377	2.353	2.413		2.412	2
Toluene-d8	1.451	1.442	1.416	1.393	1.398		1.420	1.8
4-Bromofluorobenzene	0.482	0.506	0.531	0.538	0.526		0.517	4.4

* 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.

Response Factor Report MSVOA_N_NEW

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 624N103124W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Fri Nov 01 02:38:04 2024
Response Via : Initial Calibration

Calibration Files
5 =VN084613.D 20 =VN084614.D 50 =VN084615.D 100 =VN084616.D 150 =VN084617.D

		Compound	5	20	50	100	150	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------						
2)	M	Dichlorodifluoro...	1.762	1.842	1.727	1.647	1.746	1.745	4.00
3)	M	Chloromethane	2.294	2.180	1.987	1.942	2.100	2.101	6.81
4)	M	Vinyl Chloride	1.987	2.059	1.937	1.841	1.929	1.951	4.13
5)	M	Bromomethane	1.026	1.087	0.943	0.927	0.969	0.990	6.66
6)	M	Chloroethane	1.361	1.345	1.305	1.162	1.231	1.281	6.50
7)	M	Trichlorofluorom...	3.268	3.375	3.091	2.971	3.135	3.168	4.96
8)	T	Diethyl Ether	1.000	1.165	1.128	1.145	1.212	1.130	7.00
9)		1,1,2-Trichlorot...	1.776	1.938	1.786	1.675	1.777	1.790	5.27
10)	M	1,1-Dichloroethene	1.685	1.840	1.711	1.699	1.807	1.748	4.00
11)		Methyl Iodide	2.378	2.507	2.375	2.318	2.437	2.403	2.99
12)		Methyl Acetate	3.900	2.690	2.326	2.302	2.408	2.725	24.75
13)	M	Acrolein	0.345	0.350	0.313	0.326	0.347	0.336	4.77
14)	M	Acrylonitrile	0.838	0.902	0.889	0.892	0.937	0.892	3.97
15)	M	Acetone	0.231	0.235	0.223	0.223	0.233	0.229	2.34
16)	M	Carbon Disulfide	5.140	5.375	5.016	4.956	5.235	5.144	3.27
17)		Allyl chloride	2.858	3.101	2.786	2.986	3.164	2.979	5.34
18)	M	Methylene Chloride	2.119	2.210	1.980	1.930	2.004	2.049	5.55
19)	M	trans-1,2-Dichlo...	1.819	1.905	1.810	1.776	1.854	1.833	2.67
20)	T	Diisopropyl ether	5.269	6.283	6.069	5.949	6.249	5.964	6.90
21)	M	1,1-Dichloroethane	3.711	3.802	3.469	3.417	3.534	3.587	4.57
22)	M	cis-1,2-Dichloro...	2.121	2.237	2.172	2.141	2.269	2.188	2.89
23)	M	tert-Butyl Alcohol	0.374	0.310	0.274	0.285	0.313	0.311	12.41
24)	M	Methyl tert-Buty...	4.972	5.809	5.618	5.772	6.099	5.654	7.41
25)	M	Chloroform	3.764	3.915	3.598	3.469	3.627	3.675	4.64
26)		Cyclohexane	2.348	2.813	2.794	2.761	2.982	2.740	8.58
27)	s	1,2-Dichloroetha...	2.444	2.473	2.377	2.353	2.413	2.412	2.02
28)	I	1,4-Difluorobenzene	----------ISTD----------						
29)		1,1-Dichloropropene	0.428	0.467	0.452	0.452	0.461	0.452	3.31
30)	M	2-Butanone	0.206	0.207	0.207	0.210	0.213	0.208	1.26
31)		2,2-Dichloropropane	0.563	0.584	0.548	0.528	0.535	0.552	4.06
32)	M	1,1,1-Trichloroe...	0.631	0.645	0.604	0.593	0.595	0.614	3.80
33)	M	Carbon Tetrachlo...	0.545	0.536	0.517	0.504	0.517	0.524	3.16
34)	M	Benzene	1.549	1.525	1.476	1.460	1.458	1.494	2.75
35)		Methacrylonitrile	0.240	0.246	0.234	0.256	0.258	0.247	4.17
36)	M	1,2-Dichloroethane	0.521	0.521	0.488	0.469	0.484	0.497	4.71
37)	M	Trichloroethene	0.340	0.350	0.331	0.325	0.338	0.337	2.76
38)		Methylcyclohexane	0.429	0.479	0.495	0.504	0.526	0.486	7.52
39)	M	1,2-Dichloropropane	0.371	0.372	0.351	0.349	0.355	0.360	3.10
40)		Dibromomethane	0.257	0.262	0.247	0.246	0.245	0.252	3.04
41)	M	Bromodichloromet...	0.566	0.547	0.526	0.526	0.531	0.539	3.22
42)	M	Vinyl Acetate	0.692	0.782	0.788	0.809	0.824	0.779	6.59
43)		Ethyl Acetate	0.421	0.429	0.446	0.443	0.451	0.438	2.89
44)		Isopropyl Acetate	1.250	0.844	0.785	0.774	0.781	0.887	23.13
45)	T	1,4-Dioxane	0.006	0.006	0.006	0.006	0.006	0.006	4.14
46)		Methyl methacrylate	0.332	0.349	0.356	0.369	0.376	0.356	4.92
47)		n-amyl Acetate	0.548	0.667	0.687	0.706	0.703	0.662	9.92
48)	M	t-1,3-Dichloropr...	0.509	0.529	0.535	0.538	0.551	0.532	2.94
49)	T	cis-1,3-Dichloro...	0.535	0.580	0.567	0.580	0.592	0.571	3.83
50)	M	1,1,2-Trichloroe...	0.340	0.353	0.336	0.330	0.328	0.337	2.96
51)		Ethyl methacrylate	0.436	0.503	0.539	0.560	0.563	0.520	10.15
52)		1,3-Dichloropropane	0.582	0.610	0.586	0.577	0.573	0.586	2.46
53)	M	Dibromochloromet...	0.378	0.400	0.401	0.397	0.398	0.395	2.47
54)	M	1,2-Dibromoethane	0.334	0.357	0.337	0.339	0.339	0.341	2.63
55)	M	2-Chloroethyl vi...	0.207	0.266	0.268	0.266	0.267	0.255	10.42
56)	M	Bromoform	0.254	0.262	0.269	0.270	0.268	0.265	2.56

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 624N103124W.M

57)	I	Chlorobenzene-d5	----------ISTD----------						
58)	M	4-Methyl-2-Penta...	0.453	0.490	0.472	0.475	0.478	0.473	2.83
59)	M	2-Hexanone	0.325	0.355	0.349	0.354	0.351	0.347	3.60
60)	S	4-Bromofluoroben...	0.482	0.506	0.531	0.538	0.526	0.517	4.39
61)	M	Tetrachloroethene	0.313	0.331	0.310	0.305	0.311	0.314	3.11
62)	M	Toluene	1.732	1.781	1.675	1.658	1.698	1.709	2.87
63)	S	Toluene-d8	1.451	1.442	1.416	1.393	1.398	1.420	1.81
64)	M	Chlorobenzene	1.030	1.071	1.018	1.011	1.028	1.032	2.25
65)		1,1,1,2-Tetrachl...	0.383	0.398	0.380	0.366	0.368	0.379	3.36
66)	M	Ethyl Benzene	1.596	1.824	1.829	1.836	1.894	1.796	6.42
67)	M	m/p-Xylenes	0.615	0.710	0.706	0.695	0.712	0.687	5.98
68)	M	o-Xylene	0.569	0.690	0.681	0.683	0.692	0.663	7.95
69)	M	Styrene	0.911	1.136	1.179	1.154	1.180	1.112	10.22
70)		Isopropylbenzene	1.407	1.671	1.715	1.692	1.752	1.647	8.35
71)	M	1,1,2,2-Tetrachl...	0.555	0.568	0.529	0.510	0.509	0.534	4.95
72)		1,2,3-Trichlorop...	0.460	0.527	0.429	0.429	0.434	0.456	9.11
73)		Bromobenzene	0.406	0.442	0.425	0.427	0.425	0.425	2.97
74)		n-propylbenzene	1.596	1.953	2.030	1.985	2.068	1.926	9.86
75)		2-Chlorotoluene	1.156	1.287	1.299	1.255	1.275	1.255	4.56
76)		1,3,5-Trimethylb...	1.193	1.438	1.480	1.442	1.485	1.408	8.64
77)		t-1,4-Dichloro-2...	0.152	0.191	0.193	0.196	0.203	0.187	10.86
78)		4-Chlorotoluene	1.151	1.299	1.301	1.280	1.306	1.268	5.18
79)		tert-butylbenzene	0.947	1.147	1.206	1.243	1.278	1.164	11.24
80)		1,2,4-Trimethylb...	1.129	1.449	1.513	1.494	1.515	1.420	11.60
81)		sec-Butylbenzene	1.290	1.605	1.691	1.689	1.744	1.604	11.37
82)		p-Isopropyltoluene	1.023	1.338	1.445	1.437	1.495	1.348	14.13
83)	M	1,3-Dichlorobenzene	0.736	0.812	0.793	0.787	0.801	0.786	3.73
84)	M	1,4-Dichlorobenzene	0.729	0.784	0.790	0.779	0.801	0.776	3.59
85)		n-Butylbenzene	0.852	1.069	1.186	1.237	1.316	1.132	15.96
86)	T	Hexachloroethane	0.273	0.284	0.275	0.265	0.280	0.276	2.60
87)	M	1,2-Dichlorobenzene	0.724	0.821	0.787	0.760	0.780	0.774	4.62
88)		1,2-Dibromo-3-Ch...	0.099	0.108	0.106	0.098	0.105	0.103	4.27
89)		1,2,4-Trichlorob...	0.308	0.383	0.381	0.390	0.424	0.377	11.21
90)		Hexachlorobutadiene	0.160	0.168	0.163	0.158	0.174	0.165	3.93
91)	M	Naphthalene	0.839	1.126	1.272	1.338	1.445	1.204	19.47
92)		1,2,3-Trichlorob...	0.308	0.383	0.381	0.390	0.424	0.377	11.21

(#) = Out of Range

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084613.D
Acq On : 31 Oct 2024 12:08
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/01/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:19:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:19:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.812	128	31324	30.000	ug/l		0.00
28) 1,4-Difluorobenzene	9.100	114	165636	30.000	ug/l		0.00
57) Chlorobenzene-d5	11.865	117	148900	30.000	ug/l		0.00
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.577	65	76561	30.402	ug/l		0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.333%				
60) 4-Bromofluorobenzene	12.847	95	71798	28.004	ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 93.333%				
63) Toluene-d8	10.565	98	216062	30.652	ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.167%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	9198	5.049	ug/l		96
3) Chloromethane	2.359	50	11978	5.461	ug/l		99
4) Vinyl Chloride	2.512	62	10376	5.094	ug/l	#	82
5) Bromomethane	2.900	94	5354	5.179	ug/l		86
6) Chloroethane	3.071	64	7106m	5.250	ug/l		
7) Trichlorofluoromethane	3.471	101	17062	5.158	ug/l		98
8) Diethyl Ether	3.953	74	5222	4.426	ug/l		86
9) 1,1,2-Trichlorotrifluo...	4.365	101	9273	4.960	ug/l	#	39
10) 1,1-Dichloroethene	4.324	96	8797	4.819	ug/l		92
11) Methyl Iodide	4.571	142	12414	4.948	ug/l		99
12) Methyl Acetate	5.012	43	20360m	7.148	ug/l		
13) Acrolein	4.171	56	9009	25.674	ug/l		92
14) Acrylonitrile	5.718	53	21872m	23.496	ug/l		
15) Acetone	4.442	58	6033m	25.222	ug/l		
16) Carbon Disulfide	4.700	76	26836	4.996	ug/l	#	94
17) Allyl chloride	5.006	41	14923m	4.845	ug/l		
18) Methylene Chloride	5.277	84	11065	5.173	ug/l		91
19) trans-1,2-Dichloroethene	5.777	96	9494m	4.962	ug/l		
20) Diisopropyl ether	6.665	45	27506	4.417	ug/l		93
21) 1,1-Dichloroethane	6.559	63	19373	5.173	ug/l		92
22) cis-1,2-Dichloroethene	7.483	96	11073	4.847	ug/l		98
23) tert-Butyl Alcohol	5.530	59	9753	30.011	ug/l	#	100
24) Methyl tert-Butyl Ether	5.789	73	25957	4.397	ug/l	#	90
25) Chloroform	7.965	83	19651	5.122	ug/l		94
26) Cyclohexane	8.247	56	12257	4.285	ug/l	#	98
29) 1,1-Dichloropropene	8.371	75	11807	4.733	ug/l		98
30) 2-Butanone	7.483	43	28435	24.708	ug/l		100
31) 2,2-Dichloropropane	7.488	77	15547	5.105	ug/l	#	90
32) 1,1,1-Trichloroethane	8.159	97	17431	5.143	ug/l	#	85
33) Carbon Tetrachloride	8.359	117	15058	5.206	ug/l		92
34) Benzene	8.600	78	42762	5.186	ug/l	#	88
35) Methacrylonitrile	7.777	41	6638	4.867	ug/l		87
36) 1,2-Dichloroethane	8.671	62	14384	5.245	ug/l	#	95
37) Trichloroethene	9.347	130	9396m	5.051	ug/l		
38) Methylcyclohexane	9.600	83	11830	4.405	ug/l		97
39) 1,2-Dichloropropane	9.624	63	10243	5.160	ug/l		91
40) Dibromomethane	9.706	93	7103	5.115	ug/l		98
41) Bromodichloromethane	9.888	83	15629	5.250	ug/l		99
42) Vinyl Acetate	6.600	43	95572	22.218	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084613.D
Acq On : 31 Oct 2024 12:08
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 02:19:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:19:19 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/01/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) Ethyl Acetate	7.559	43	11619	4.747 ug/l	97
44) Isopropyl Acetate	8.682	43	34520	7.050 ug/l #	82
45) 1,4-Dioxane	9.700	88	3084	94.340 ug/l	96
46) Methyl methacrylate	9.677	41	9158	4.654 ug/l	95
47) n-amyl Acetate	12.494	43	15131	4.138 ug/l	96
48) t-1,3-Dichloropropene	10.829	75	14040	4.776 ug/l	99
49) cis-1,3-Dichloropropene	10.306	75	14763	4.686 ug/l	98
50) 1,1,2-Trichloroethane	11.012	97	9392	5.042 ug/l #	89
51) Ethyl methacrylate	10.871	69	12033	4.191 ug/l	92
52) 1,3-Dichloropropane	11.165	76	16055	4.966 ug/l	98
53) Dibromochloromethane	11.359	129	10423	4.782 ug/l	97
54) 1,2-Dibromoethane	11.471	107	9233	4.901 ug/l	97
55) 2-Chloroethyl vinyl ether	10.159	63	28637	20.343 ug/l	99
56) Bromoform	12.576	173	7007	4.796 ug/l	97
58) 4-Methyl-2-Pentanone	10.447	43	56166	23.910 ug/l	99
59) 2-Hexanone	11.194	43	40278	23.416 ug/l	95
61) Tetrachloroethene	11.106	164	7756	4.977 ug/l	96
62) Toluene	10.629	91	42993	5.069 ug/l	99
64) Chlorobenzene	11.888	112	25563	4.993 ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.959	131	9514	5.056 ug/l	93
66) Ethyl Benzene	11.959	91	39603	4.443 ug/l	98
67) m/p-Xylenes	12.070	106	30521	8.944 ug/l	91
68) o-Xylene	12.394	106	14127	4.292 ug/l	97
69) Styrene	12.412	104	22620	4.099 ug/l	99
70) Isopropylbenzene	12.694	105	34923	4.271 ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	13765	5.194 ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	11412m	4.514 ug/l	
73) Bromobenzene	12.976	156	10078	4.779 ug/l	92
74) n-propylbenzene	13.035	91	39598	4.141 ug/l	97
75) 2-Chlorotoluene	13.123	91	28696	4.609 ug/l	98
76) 1,3,5-Trimethylbenzene	13.170	105	29615	4.239 ug/l	100
77) t-1,4-Dichloro-2-butene	12.741	75	3762	4.053 ug/l	93
78) 4-Chlorotoluene	13.217	91	28573	4.542 ug/l	98
79) tert-butylbenzene	13.441	119	23495	4.067 ug/l	97
80) 1,2,4-Trimethylbenzene	13.482	105	28024	3.976 ug/l	100
81) sec-Butylbenzene	13.612	105	32017	4.022 ug/l	99
82) p-Isopropyltoluene	13.729	119	25380	3.794 ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	18270	4.684 ug/l	97
84) 1,4-Dichlorobenzene	13.812	146	18085	4.693 ug/l	93
85) n-Butylbenzene	14.053	91	21135	3.762 ug/l	99
86) Hexachloroethane	14.335	117	6782	4.957 ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	17958	4.672 ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.717	75	2451	4.793 ug/l	90
89) 1,2,4-Trichlorobenzene	15.835	180	7643	4.084 ug/l	98
90) Hexachlorobutadiene	15.500	225	3978	4.866 ug/l	96
91) Naphthalene	15.641	128	20829	3.485 ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	7643	4.084 ug/l	98

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

ICAL Form

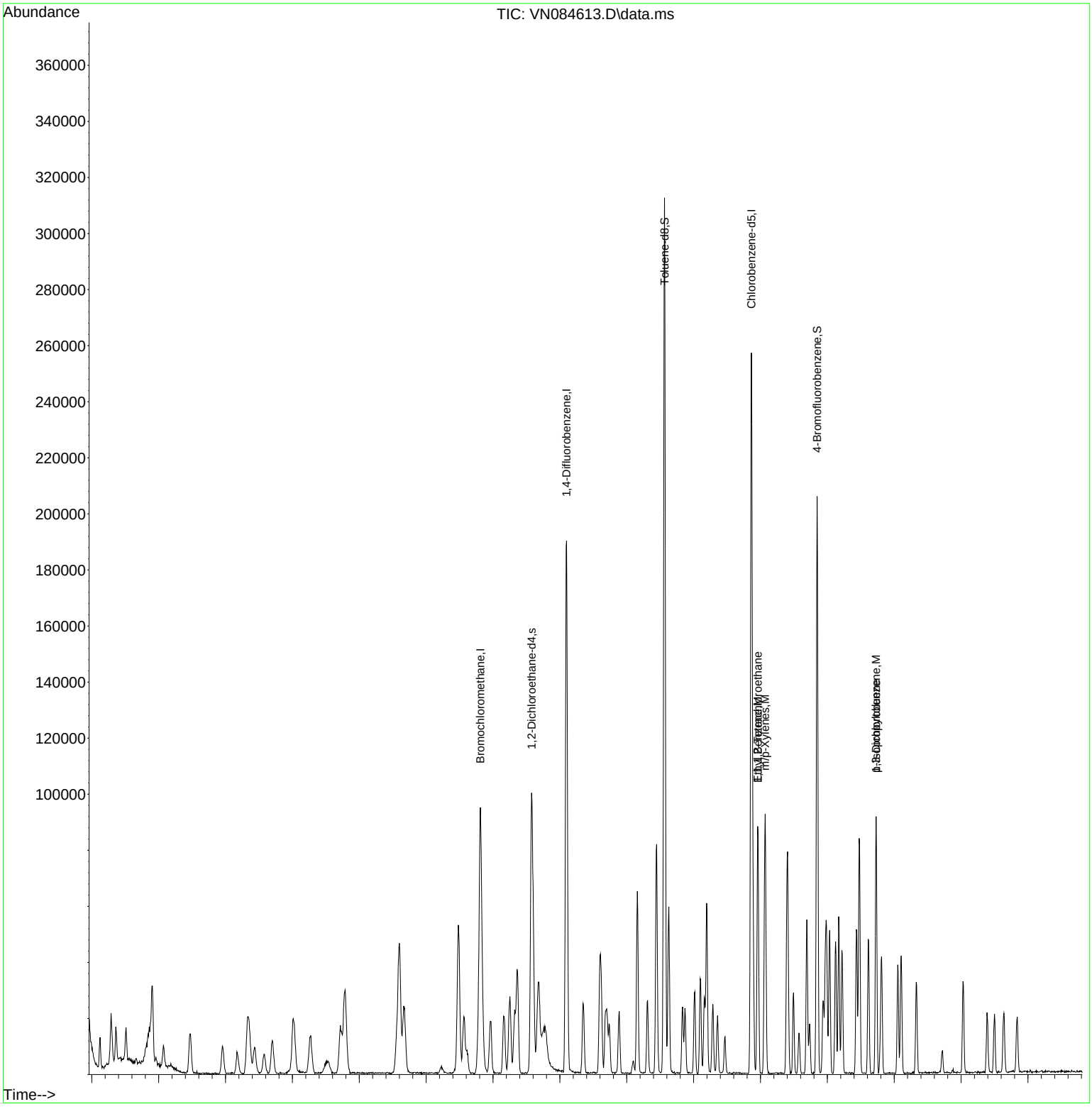
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084613.D
Acq On : 31 Oct 2024 12:08
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 02:19:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:19:19 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/01/2024
Supervised By :Mahesh Dadoda 11/04/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084614.D
Acq On : 31 Oct 2024 12:32
Operator : JC\MD
Sample : VSTDICCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:21:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:19:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.806	128	31274	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	172181	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	154107	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	77335	30.759	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.533%			
60) 4-Bromofluorobenzene	12.847	95	77916	29.364	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.867%			
63) Toluene-d8	10.565	98	222235	30.462	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.533%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.118	85	38402	21.112	ug/l	100
3) Chloromethane	2.359	50	45455	20.756	ug/l	100
4) Vinyl Chloride	2.512	62	42937	21.114	ug/l	100
5) Bromomethane	2.901	94	22663	21.957	ug/l	100
6) Chloroethane	3.059	64	28033	20.742	ug/l	100
7) Trichlorofluoromethane	3.465	101	70369	21.307	ug/l	100
8) Diethyl Ether	3.953	74	24291	20.620	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.359	101	40406	21.649	ug/l	100
10) 1,1-Dichloroethene	4.324	96	38356	21.045	ug/l	100
11) Methyl Iodide	4.583	142	52273	20.867	ug/l	100
12) Methyl Acetate	5.018	43	56085	19.721	ug/l	100
13) Acrolein	4.177	56	36444	104.025	ug/l	100
14) Acrylonitrile	5.718	53	93989	101.129	ug/l	100
15) Acetone	4.430	58	24469	102.461	ug/l	100
16) Carbon Disulfide	4.695	76	112057	20.895	ug/l	100
17) Allyl chloride	5.006	41	64662	21.027	ug/l	100
18) Methylene Chloride	5.265	84	46076	21.573	ug/l	100
19) trans-1,2-Dichloroethene	5.783	96	39708	20.785	ug/l	100
20) Diisopropyl ether	6.671	45	130988	21.069	ug/l	100
21) 1,1-Dichloroethane	6.559	63	79269	21.202	ug/l	100
22) cis-1,2-Dichloroethene	7.483	96	46637	20.448	ug/l	100
23) tert-Butyl Alcohol	5.542	59	32351m	99.706	ug/l	
24) Methyl tert-Butyl Ether	5.789	73	121117	20.549	ug/l	100
25) Chloroform	7.965	83	81615	21.306	ug/l	100
26) Cyclohexane	8.247	56	58646	20.535	ug/l	100
29) 1,1-Dichloropropene	8.365	75	53609	20.671	ug/l	100
30) 2-Butanone	7.483	43	118837	99.338	ug/l	100
31) 2,2-Dichloropropane	7.489	77	66980	21.158	ug/l	100
32) 1,1,1-Trichloroethane	8.159	97	74085	21.027	ug/l	100
33) Carbon Tetrachloride	8.359	117	61528	20.465	ug/l	100
34) Benzene	8.600	78	175051	20.421	ug/l	100
35) Methacrylonitrile	7.777	41	28223	19.906	ug/l	100
36) 1,2-Dichloroethane	8.665	62	59810	20.981	ug/l	100
37) Trichloroethene	9.347	130	40135	20.754	ug/l	100
38) Methylcyclohexane	9.600	83	54992	19.697	ug/l	100
39) 1,2-Dichloropropane	9.618	63	42682	20.684	ug/l	100
40) Dibromomethane	9.706	93	30074	20.833	ug/l	100
41) Bromodichloromethane	9.882	83	62781	20.287	ug/l	100
42) Vinyl Acetate	6.600	43	448664	100.337	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084614.D
Acq On : 31 Oct 2024 12:32
Operator : JC\MD
Sample : VSTDICCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:21:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:19:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	49217	19.343	ug/l	98
44) Isopropyl Acetate	8.688	43	96864	19.030	ug/l	100
45) 1,4-Dioxane	9.694	88	13694	402.979	ug/l	100
46) Methyl methacrylate	9.682	41	40026	19.568	ug/l	100
47) n-amyl Acetate	12.494	43	76604	20.151	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	60713	19.868	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	66524	20.312	ug/l	100
50) 1,1,2-Trichloroethane	11.018	97	40510	20.921	ug/l	100
51) Ethyl methacrylate	10.877	69	57722	19.339	ug/l	100
52) 1,3-Dichloropropane	11.165	76	70002	20.827	ug/l	100
53) Dibromochloromethane	11.359	129	45946	20.276	ug/l	100
54) 1,2-Dibromoethane	11.465	107	40970	20.920	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	152772	104.401	ug/l	100
56) Bromoform	12.576	173	30104	19.820	ug/l	100
58) 4-Methyl-2-Pentanone	10.447	43	251499	103.446	ug/l	100
59) 2-Hexanone	11.194	43	182123	102.300	ug/l	100
61) Tetrachloroethene	11.100	164	33984	21.071	ug/l	100
62) Toluene	10.630	91	182960	20.845	ug/l	100
64) Chlorobenzene	11.888	112	110008	20.761	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	40878	20.991	ug/l	100
66) Ethyl Benzene	11.965	91	187374	20.313	ug/l	100
67) m/p-Xylenes	12.071	106	145866	41.303	ug/l	100
68) o-Xylene	12.400	106	70893	20.810	ug/l	100
69) Styrene	12.412	104	116660	20.424	ug/l	100
70) Isopropylbenzene	12.694	105	171676	20.286	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	58304	21.256	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	54117m	20.681	ug/l	
73) Bromobenzene	12.976	156	45364	20.784	ug/l	100
74) n-propylbenzene	13.035	91	200691	20.280	ug/l	100
75) 2-Chlorotoluene	13.123	91	132203	20.515	ug/l	100
76) 1,3,5-Trimethylbenzene	13.171	105	147751	20.434	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	19637	20.442	ug/l	100
78) 4-Chlorotoluene	13.218	91	133430	20.493	ug/l	100
79) tert-butylbenzene	13.435	119	117804	19.701	ug/l	100
80) 1,2,4-Trimethylbenzene	13.482	105	148836	20.404	ug/l	100
81) sec-Butylbenzene	13.612	105	164903	20.014	ug/l	100
82) p-Isopropyltoluene	13.729	119	137483	19.858	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	83438	20.670	ug/l	100
84) 1,4-Dichlorobenzene	13.812	146	80500	20.182	ug/l	100
85) n-Butylbenzene	14.053	91	109807	18.885	ug/l	100
86) Hexachloroethane	14.329	117	29191	20.617	ug/l	100
87) 1,2-Dichlorobenzene	14.100	146	84342	21.203	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	11061	20.899	ug/l	100
89) 1,2,4-Trichlorobenzene	15.835	180	39326	20.305	ug/l	100
90) Hexachlorobutadiene	15.500	225	17295	20.443	ug/l	100
91) Naphthalene	15.641	128	115679	18.702	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	39326	20.305	ug/l	100

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

ICAL Form

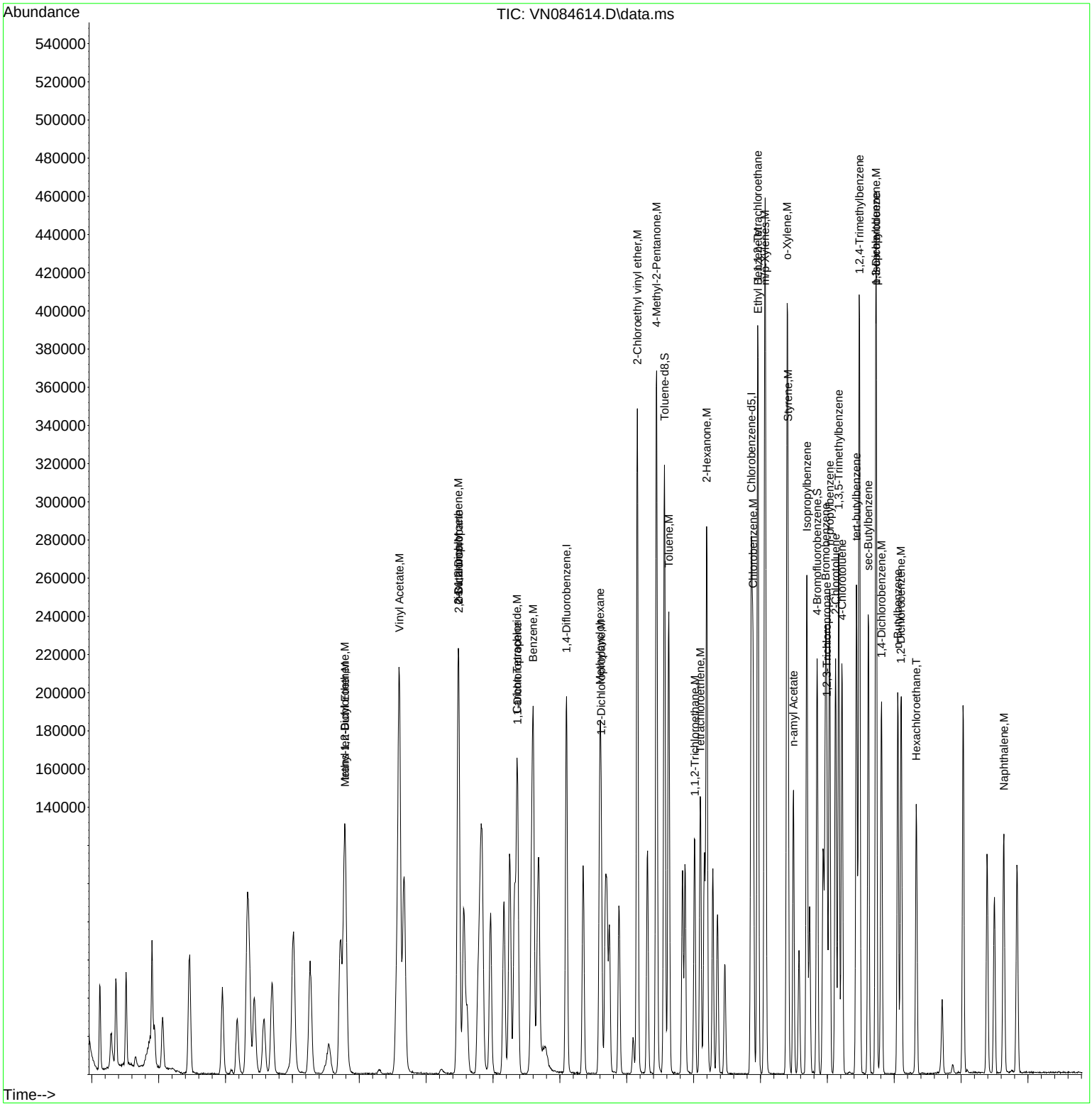
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084614.D
Acq On : 31 Oct 2024 12:32
Operator : JC\MD
Sample : VSTDICCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 02:21:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:19:19 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084615.D
Acq On : 31 Oct 2024 12:56
Operator : JC\MD
Sample : VSTDICC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:22:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:19:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.812	128	32918	30.000	ug/l		0.00
28) 1,4-Difluorobenzene	9.100	114	176826	30.000	ug/l		0.00
57) Chlorobenzene-d5	11.865	117	164720	30.000	ug/l		0.00
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.577	65	78237	29.563	ug/l		0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 98.533%				
60) 4-Bromofluorobenzene	12.847	95	87434	30.828	ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.767%				
63) Toluene-d8	10.565	98	233304	29.919	ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.733%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	94735	49.481	ug/l		96
3) Chloromethane	2.359	50	109029	47.299	ug/l		98
4) Vinyl Chloride	2.512	62	106283	49.654	ug/l		97
5) Bromomethane	2.901	94	51725	47.610	ug/l		100
6) Chloroethane	3.077	64	71616m	50.344	ug/l		
7) Trichlorofluoromethane	3.471	101	169605	48.790	ug/l		97
8) Diethyl Ether	3.953	74	61891	49.913	ug/l		96
9) 1,1,2-Trichlorotrifluo...	4.359	101	97991	49.880	ug/l		99
10) 1,1-Dichloroethene	4.324	96	93892	48.943	ug/l		95
11) Methyl Iodide	4.583	142	130322	49.426	ug/l		100
12) Methyl Acetate	5.018	43	127594	42.624	ug/l		94
13) Acrolein	4.171	56	85754	232.550	ug/l		98
14) Acrylonitrile	5.712	53	243950	249.373	ug/l		99
15) Acetone	4.430	58	61279	243.784	ug/l		91
16) Carbon Disulfide	4.700	76	275193	48.752	ug/l		99
17) Allyl chloride	5.012	41	152844	47.220	ug/l		98
18) Methylene Chloride	5.265	84	108652	48.332	ug/l		98
19) trans-1,2-Dichloroethene	5.783	96	99291	49.378	ug/l		91
20) Diisopropyl ether	6.671	45	332986	50.885	ug/l		98
21) 1,1-Dichloroethane	6.565	63	190325	48.363	ug/l		98
22) cis-1,2-Dichloroethene	7.483	96	119146	49.630	ug/l		94
23) tert-Butyl Alcohol	5.542	59	75243	220.317	ug/l	#	100
24) Methyl tert-Butyl Ether	5.795	73	308206	49.680	ug/l		99
25) Chloroform	7.959	83	197402	48.959	ug/l		94
26) Cyclohexane	8.253	56	153309	51.000	ug/l	#	100
29) 1,1-Dichloropropene	8.371	75	133196	50.010	ug/l		100
30) 2-Butanone	7.477	43	305143	248.373	ug/l		99
31) 2,2-Dichloropropane	7.483	77	161607	49.708	ug/l		98
32) 1,1,1-Trichloroethane	8.165	97	178128	49.229	ug/l		99
33) Carbon Tetrachloride	8.359	117	152324	49.334	ug/l		98
34) Benzene	8.600	78	434965	49.409	ug/l		97
35) Methacrylonitrile	7.777	41	69021	47.401	ug/l		97
36) 1,2-Dichloroethane	8.665	62	143921	49.161	ug/l		100
37) Trichloroethene	9.353	130	97539	49.114	ug/l		99
38) Methylcyclohexane	9.600	83	145824	50.859	ug/l		98
39) 1,2-Dichloropropane	9.618	63	103300	48.746	ug/l		97
40) Dibromomethane	9.706	93	72848	49.139	ug/l		99
41) Bromodichloromethane	9.882	83	154994	48.769	ug/l		99
42) Vinyl Acetate	6.600	43	1161725	252.978	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084615.D
Acq On : 31 Oct 2024 12:56
Operator : JC\MD
Sample : VSTDICC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 02:22:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:19:19 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) Ethyl Acetate	7.559	43	131344	50.265 ug/l	98
44) Isopropyl Acetate	8.688	43	231400	44.267 ug/l	98
45) 1,4-Dioxane	9.694	88	33980	973.675 ug/l #	89
46) Methyl methacrylate	9.677	41	104945	49.957 ug/l	96
47) n-amyl Acetate	12.494	43	202564	51.886 ug/l	98
48) t-1,3-Dichloropropene	10.835	75	157614	50.224 ug/l	95
49) cis-1,3-Dichloropropene	10.312	75	167077	49.675 ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	98990	49.780 ug/l	96
51) Ethyl methacrylate	10.871	69	158738	51.786 ug/l	96
52) 1,3-Dichloropropane	11.159	76	172748	50.047 ug/l	99
53) Dibromochloromethane	11.359	129	118100	50.750 ug/l	97
54) 1,2-Dibromoethane	11.465	107	99236	49.341 ug/l	96
55) 2-Chloroethyl vinyl ether	10.159	63	395250	263.010 ug/l	99
56) Bromoform	12.576	173	79210	50.781 ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	647306	249.093 ug/l	98
59) 2-Hexanone	11.194	43	478961	251.701 ug/l	99
61) Tetrachloroethene	11.100	164	85090	49.359 ug/l	98
62) Toluene	10.629	91	459711	49.000 ug/l	99
64) Chlorobenzene	11.888	112	279544	49.357 ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	104199	50.060 ug/l	98
66) Ethyl Benzene	11.965	91	502126	50.927 ug/l	94
67) m/p-Xylenes	12.071	106	387469	102.646 ug/l	98
68) o-Xylene	12.394	106	187021	51.361 ug/l	98
69) Styrene	12.412	104	323595	53.002 ug/l	98
70) Isopropylbenzene	12.694	105	470823	52.050 ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	145223	49.532 ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	117853m	42.135 ug/l	
73) Bromobenzene	12.976	156	116686	50.015 ug/l	97
74) n-propylbenzene	13.035	91	557232	52.681 ug/l	99
75) 2-Chlorotoluene	13.123	91	356739	51.790 ug/l	98
76) 1,3,5-Trimethylbenzene	13.171	105	406282	52.568 ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	53054	51.671 ug/l	86
78) 4-Chlorotoluene	13.218	91	357227	51.329 ug/l	100
79) tert-butylbenzene	13.435	119	331066	51.799 ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	415493	53.289 ug/l	98
81) sec-Butylbenzene	13.618	105	464362	52.727 ug/l	100
82) p-Isopropyltoluene	13.729	119	396709	53.609 ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	217624	50.438 ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	216965	50.890 ug/l	97
85) n-Butylbenzene	14.053	91	325553	52.381 ug/l	99
86) Hexachloroethane	14.329	117	75612	49.961 ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	215946	50.790 ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	28965	51.201 ug/l	96
89) 1,2,4-Trichlorobenzene	15.835	180	104664	50.558 ug/l	96
90) Hexachlorobutadiene	15.494	225	44832	49.577 ug/l	95
91) Naphthalene	15.641	128	349297	52.834 ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	104664	50.558 ug/l	96

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

ICAL Form

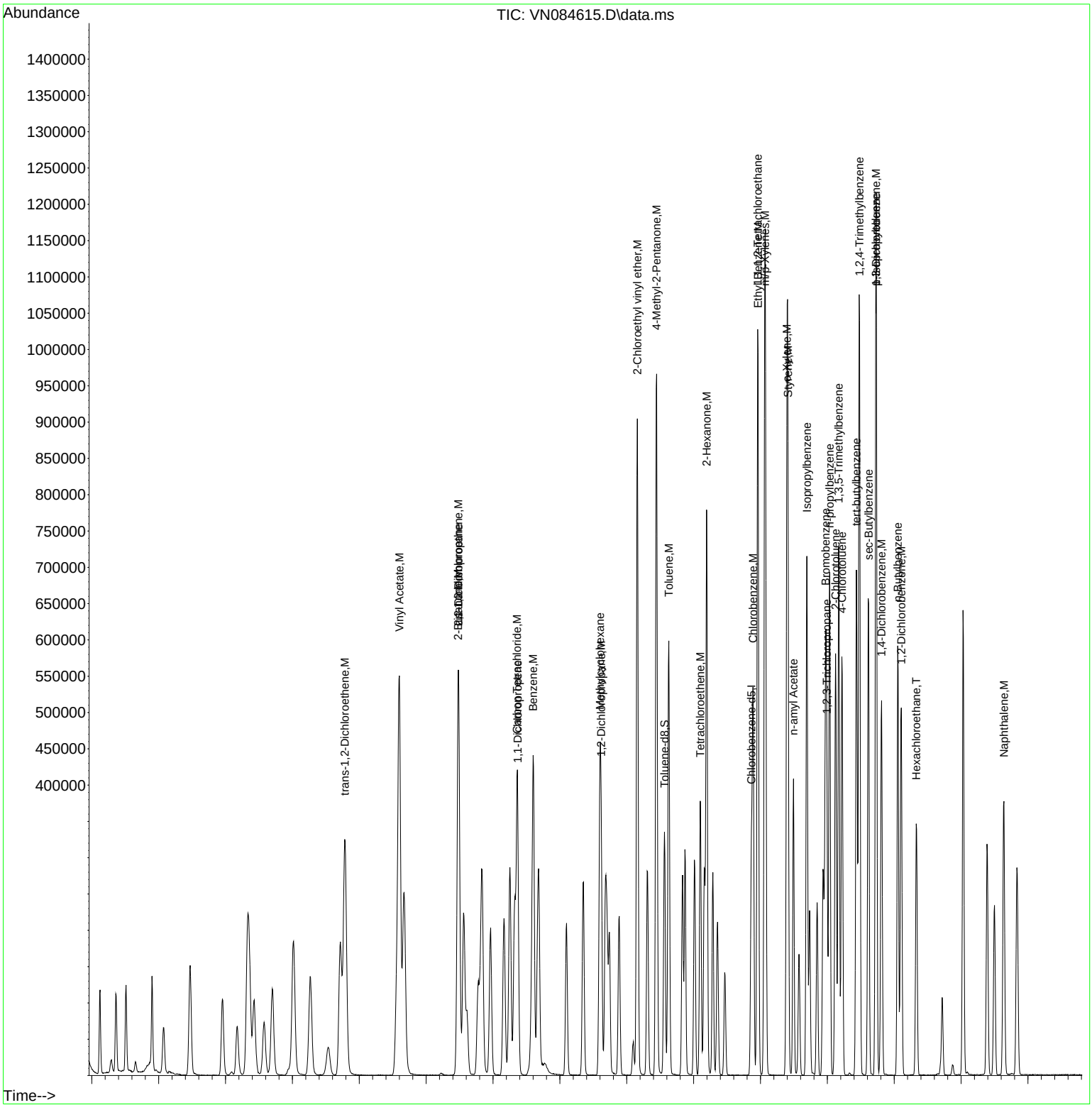
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084615.D
Acq On : 31 Oct 2024 12:56
Operator : JC\MD
Sample : VSTDICC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 02:22:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:19:19 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084616.D
Acq On : 31 Oct 2024 13:20
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:23:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:19:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.812	128	34742	30.000	ug/l		0.00
28) 1,4-Difluorobenzene	9.094	114	185533	30.000	ug/l		0.00
57) Chlorobenzene-d5	11.865	117	172801	30.000	ug/l		0.00
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.577	65	81745	29.267	ug/l		0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 97.567%				
60) 4-Bromofluorobenzene	12.847	95	92972	31.247	ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 104.167%				
63) Toluene-d8	10.565	98	240739	29.429	ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.100%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.118	85	190784	94.416	ug/l		96
3) Chloromethane	2.359	50	224931	92.457	ug/l		96
4) Vinyl Chloride	2.512	62	213170	94.361	ug/l		96
5) Bromomethane	2.901	94	107304	93.582	ug/l		99
6) Chloroethane	3.059	64	134554	89.622	ug/l		91
7) Trichlorofluoromethane	3.465	101	344065	93.780	ug/l		96
8) Diethyl Ether	3.953	74	132542	101.279	ug/l		95
9) 1,1,2-Trichlorotrifluo...	4.348	101	193932	93.533	ug/l		100
10) 1,1-Dichloroethene	4.324	96	196748	97.174	ug/l		96
11) Methyl Iodide	4.577	142	268385	96.444	ug/l		93
12) Methyl Acetate	5.024	43	266611	84.389	ug/l		98
13) Acrolein	4.171	56	188911	485.398	ug/l		99
14) Acrylonitrile	5.712	53	516678	500.435	ug/l		98
15) Acetone	4.424	58	129317	487.448	ug/l		84
16) Carbon Disulfide	4.700	76	573917	96.334	ug/l		97
17) Allyl chloride	5.006	41	345769	101.215	ug/l		96
18) Methylene Chloride	5.271	84	223525	94.210	ug/l		99
19) trans-1,2-Dichloroethene	5.777	96	205660	96.906	ug/l		91
20) Diisopropyl ether	6.671	45	688942	99.753	ug/l		96
21) 1,1-Dichloroethane	6.565	63	395669	95.263	ug/l		97
22) cis-1,2-Dichloroethene	7.483	96	247895	97.839	ug/l		95
23) tert-Butyl Alcohol	5.547	59	164832	457.302	ug/l	#	100
24) Methyl tert-Butyl Ether	5.794	73	668387	102.082	ug/l		98
25) Chloroform	7.965	83	401691	94.396	ug/l		99
26) Cyclohexane	8.253	56	319727	100.777	ug/l	#	99
29) 1,1-Dichloropropene	8.371	75	279360	99.967	ug/l		99
30) 2-Butanone	7.483	43	647906	502.619	ug/l		99
31) 2,2-Dichloropropane	7.488	77	326433	95.693	ug/l		98
32) 1,1,1-Trichloroethane	8.165	97	366838	96.624	ug/l		99
33) Carbon Tetrachloride	8.359	117	311893	96.275	ug/l		99
34) Benzene	8.600	78	902770	97.735	ug/l		95
35) Methacrylonitrile	7.777	41	158460	103.718	ug/l		97
36) 1,2-Dichloroethane	8.665	62	289900	94.377	ug/l		99
37) Trichloroethene	9.347	130	201181	96.547	ug/l		94
38) Methylcyclohexane	9.600	83	311539	103.557	ug/l		97
39) 1,2-Dichloropropane	9.618	63	215746	97.029	ug/l		92
40) Dibromomethane	9.706	93	151914	97.663	ug/l		99
41) Bromodichloromethane	9.888	83	325039	97.474	ug/l		99
42) Vinyl Acetate	6.600	43	2500453	518.946	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084616.D
Acq On : 31 Oct 2024 13:20
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 02:23:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:19:19 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	274207	100.013	ug/l	98
44) Isopropyl Acetate	8.688	43	478812	87.298	ug/l	96
45) 1,4-Dioxane	9.694	88	75558	2063.461	ug/l	96
46) Methyl methacrylate	9.682	41	228239	103.551	ug/l	94
47) n-amyl Acetate	12.494	43	436801	106.634	ug/l	96
48) t-1,3-Dichloropropene	10.835	75	332996	101.131	ug/l	97
49) cis-1,3-Dichloropropene	10.312	75	358906	101.702	ug/l	95
50) 1,1,2-Trichloroethane	11.018	97	204253	97.894	ug/l	98
51) Ethyl methacrylate	10.871	69	346376	107.698	ug/l	96
52) 1,3-Dichloropropane	11.159	76	357116	98.605	ug/l	99
53) Dibromochloromethane	11.359	129	245721	100.636	ug/l	97
54) 1,2-Dibromoethane	11.471	107	209631	99.338	ug/l	96
55) 2-Chloroethyl vinyl ether	10.159	63	822490	521.622	ug/l	99
56) Bromoform	12.576	173	167239	102.184	ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	1367142	501.494	ug/l	99
59) 2-Hexanone	11.194	43	1018919	510.417	ug/l	98
61) Tetrachloroethene	11.100	164	175966	97.300	ug/l	99
62) Toluene	10.629	91	954854	97.017	ug/l	98
64) Chlorobenzene	11.888	112	582322	98.008	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	211092	96.671	ug/l	99
66) Ethyl Benzene	11.965	91	1057324	102.222	ug/l	97
67) m/p-Xylenes	12.071	106	800698	202.196	ug/l	99
68) o-Xylene	12.394	106	393457	103.001	ug/l	98
69) Styrene	12.412	104	664652	103.773	ug/l	99
70) Isopropylbenzene	12.694	105	974870	102.732	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	293813	95.526	ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	247347m	84.297	ug/l	
73) Bromobenzene	12.976	156	245959	100.496	ug/l	98
74) n-propylbenzene	13.035	91	1143491	103.052	ug/l	99
75) 2-Chlorotoluene	13.123	91	722984	100.052	ug/l	97
76) 1,3,5-Trimethylbenzene	13.170	105	830495	102.432	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	112802	104.723	ug/l	91
78) 4-Chlorotoluene	13.223	91	737525	101.018	ug/l	99
79) tert-butylbenzene	13.435	119	716107	106.804	ug/l	96
80) 1,2,4-Trimethylbenzene	13.482	105	860667	105.223	ug/l	99
81) sec-Butylbenzene	13.617	105	973025	105.317	ug/l	100
82) p-Isopropyltoluene	13.729	119	827966	106.655	ug/l	100
83) 1,3-Dichlorobenzene	13.735	146	453157	100.115	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	448828	100.351	ug/l	99
85) n-Butylbenzene	14.053	91	712477	109.276	ug/l	99
86) Hexachloroethane	14.329	117	152797	96.241	ug/l	98
87) 1,2-Dichlorobenzene	14.106	146	438040	98.208	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	56385	95.009	ug/l	91
89) 1,2,4-Trichlorobenzene	15.835	180	224355	103.306	ug/l	96
90) Hexachlorobutadiene	15.500	225	90825	95.741	ug/l	95
91) Naphthalene	15.635	128	770611	111.109	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	224355	103.306	ug/l	96

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

ICAL Form

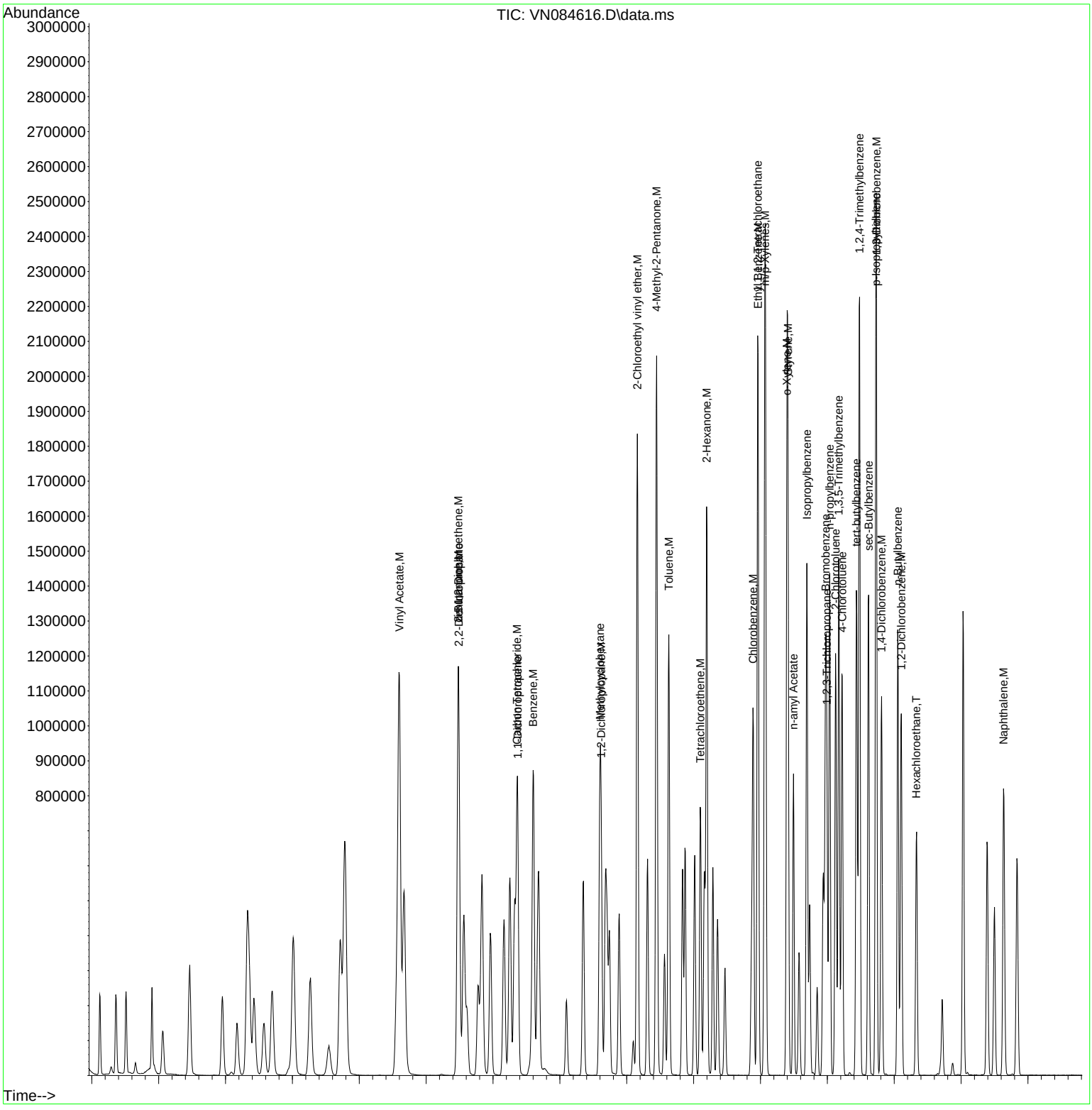
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084616.D
Acq On : 31 Oct 2024 13:20
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 02:23:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:19:19 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084617.D
Acq On : 31 Oct 2024 13:44
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:24:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:19:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.812	128	34315	30.000	ug/l		0.00
28) 1,4-Difluorobenzene	9.100	114	189928	30.000	ug/l		0.00
57) Chlorobenzene-d5	11.865	117	174515	30.000	ug/l		0.00
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.577	65	82785	30.008	ug/l		0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.033%				
60) 4-Bromofluorobenzene	12.847	95	91818	30.557	ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.867%				
63) Toluene-d8	10.565	98	244038	29.539	ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.467%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	299645	150.135	ug/l		94
3) Chloromethane	2.359	50	360263	149.927	ug/l		100
4) Vinyl Chloride	2.512	62	330947	148.318	ug/l		95
5) Bromomethane	2.900	94	166205	146.755	ug/l		99
6) Chloroethane	3.053	64	211245	142.454	ug/l		90
7) Trichlorofluoromethane	3.459	101	537825	148.417	ug/l		99
8) Diethyl Ether	3.953	74	208008	160.923	ug/l		96
9) 1,1,2-Trichlorotrifluo...	4.347	101	304904	148.885	ug/l		100
10) 1,1-Dichloroethene	4.324	96	309990	155.009	ug/l		93
11) Methyl Iodide	4.577	142	418106	152.116	ug/l		93
12) Methyl Acetate	5.018	43	413207	132.418	ug/l		97
13) Acrolein	4.171	56	297469	773.843	ug/l		98
14) Acrylonitrile	5.718	53	803457	787.881	ug/l		98
15) Acetone	4.424	58	199728	762.223	ug/l		94
16) Carbon Disulfide	4.694	76	898255	152.651	ug/l		98
17) Allyl chloride	5.012	41	542863	160.886	ug/l		96
18) Methylene Chloride	5.265	84	343819	146.714	ug/l		95
19) trans-1,2-Dichloroethene	5.777	96	318103	151.754	ug/l		89
20) Diisopropyl ether	6.671	45	1072240	157.183	ug/l		98
21) 1,1-Dichloroethane	6.559	63	606359	147.807	ug/l		97
22) cis-1,2-Dichloroethene	7.482	96	389337	155.576	ug/l		94
23) tert-Butyl Alcohol	5.553	59	268783	754.978	ug/l	#	100
24) Methyl tert-Butyl Ether	5.794	73	1046401	161.805	ug/l		98
25) Chloroform	7.965	83	622385	148.078	ug/l		96
26) Cyclohexane	8.253	56	511647	163.276	ug/l	#	98
29) 1,1-Dichloropropene	8.371	75	437707	153.006	ug/l		100
30) 2-Butanone	7.482	43	1009048	764.664	ug/l		98
31) 2,2-Dichloropropane	7.488	77	508098	145.502	ug/l		98
32) 1,1,1-Trichloroethane	8.165	97	565049	145.389	ug/l		99
33) Carbon Tetrachloride	8.359	117	490498	147.903	ug/l		98
34) Benzene	8.600	78	1384757	146.447	ug/l		96
35) Methacrylonitrile	7.777	41	245428	156.925	ug/l		99
36) 1,2-Dichloroethane	8.665	62	459837	146.236	ug/l		99
37) Trichloroethene	9.347	130	321371	150.657	ug/l		93
38) Methylcyclohexane	9.600	83	499572	162.217	ug/l		97
39) 1,2-Dichloropropane	9.618	63	337522	148.284	ug/l		96
40) Dibromomethane	9.706	93	233108	146.393	ug/l		99
41) Bromodichloromethane	9.888	83	504647	147.833	ug/l		98
42) Vinyl Acetate	6.600	43	3914346	793.588	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084617.D
Acq On : 31 Oct 2024 13:44
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 02:24:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:19:19 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) Ethyl Acetate	7.559	43	428446	152.653 ug/l	97
44) Isopropyl Acetate	8.688	43	741325	132.033 ug/l	96
45) 1,4-Dioxane	9.700	88	117373	3131.238 ug/l	96
46) Methyl methacrylate	9.682	41	357456	158.423 ug/l	98
47) n-amyl Acetate	12.494	43	667282	159.131 ug/l	94
48) t-1,3-Dichloropropene	10.835	75	523588	155.334 ug/l	97
49) cis-1,3-Dichloropropene	10.312	75	561762	155.501 ug/l	94
50) 1,1,2-Trichloroethane	11.018	97	311081	145.645 ug/l	95
51) Ethyl methacrylate	10.876	69	534438	162.326 ug/l	96
52) 1,3-Dichloropropane	11.165	76	544181	146.779 ug/l	99
53) Dibromochloromethane	11.359	129	378123	151.277 ug/l	98
54) 1,2-Dibromoethane	11.470	107	321983	149.047 ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	1267478	785.232 ug/l	99
56) Bromoform	12.576	173	254436	151.864 ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	2085089	757.339 ug/l	98
59) 2-Hexanone	11.200	43	1531300	759.555 ug/l	98
61) Tetrachloroethene	11.100	164	271458	148.628 ug/l	98
62) Toluene	10.629	91	1481581	149.056 ug/l	98
64) Chlorobenzene	11.888	112	896579	149.418 ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	321277	145.687 ug/l	100
66) Ethyl Benzene	11.965	91	1652923	158.236 ug/l	96
67) m/p-Xylenes	12.070	106	1242416	310.660 ug/l	100
68) o-Xylene	12.400	106	604062	156.582 ug/l	98
69) Styrene	12.412	104	1029762	159.199 ug/l	99
70) Isopropylbenzene	12.694	105	1528377	159.480 ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	443836	142.885 ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	379116m	127.935 ug/l	
73) Bromobenzene	12.982	156	370688	149.971 ug/l	97
74) n-propylbenzene	13.035	91	1804610	161.034 ug/l	99
75) 2-Chlorotoluene	13.123	91	1112415	152.433 ug/l	97
76) 1,3,5-Trimethylbenzene	13.170	105	1295565	158.223 ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	177307	162.992 ug/l	90
78) 4-Chlorotoluene	13.223	91	1139441	154.535 ug/l	100
79) tert-butylbenzene	13.435	119	1114831	164.638 ug/l	96
80) 1,2,4-Trimethylbenzene	13.482	105	1321571	159.986 ug/l	98
81) sec-Butylbenzene	13.617	105	1521726	163.089 ug/l	100
82) p-Isopropyltoluene	13.729	119	1304826	166.431 ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	699236	152.963 ug/l	99
84) 1,4-Dichlorobenzene	13.811	146	698605	154.663 ug/l	99
85) n-Butylbenzene	14.053	91	1148718	174.453 ug/l	99
86) Hexachloroethane	14.335	117	244372	152.408 ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	680730	151.120 ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	91914	153.355 ug/l	92
89) 1,2,4-Trichlorobenzene	15.841	180	369695	168.557 ug/l	96
90) Hexachlorobutadiene	15.500	225	151702	158.343 ug/l	94
91) Naphthalene	15.641	128	1260875	180.011 ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	369695	168.557 ug/l	96

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

ICAL Form

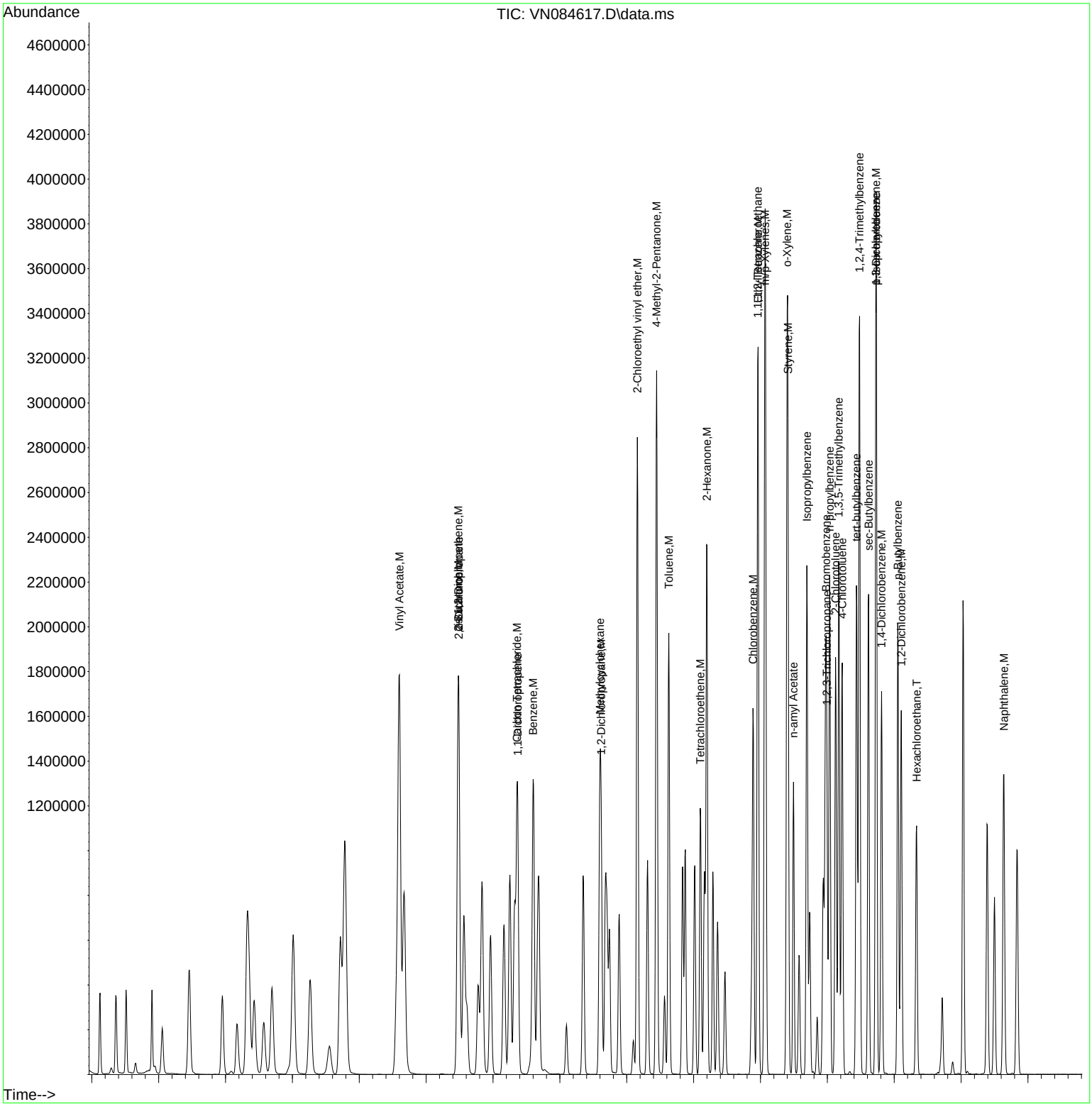
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084617.D
Acq On : 31 Oct 2024 13:44
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 02:24:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:19:19 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084619.D
Acq On : 31 Oct 2024 14:42
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103124

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:42:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.812	128	33219	30.000	ug/l		0.00
28) 1,4-Difluorobenzene	9.100	114	181690	30.000	ug/l		0.00
57) Chlorobenzene-d5	11.865	117	170699	30.000	ug/l		0.00
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.576	65	78518	29.401	ug/l		0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 98.000%				
60) 4-Bromofluorobenzene	12.847	95	87996	29.939	ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.800%				
63) Toluene-d8	10.565	98	235463	29.138	ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 97.133%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	39007	20.189	ug/l		96
3) Chloromethane	2.359	50	45924	19.742	ug/l		96
4) Vinyl Chloride	2.512	62	43634	20.200	ug/l		96
5) Bromomethane	2.900	94	21634	19.733	ug/l		100
6) Chloroethane	3.077	64	27349	19.284	ug/l	#	89
7) Trichlorofluoromethane	3.471	101	70373	20.061	ug/l		100
8) Diethyl Ether	3.953	74	26411	21.107	ug/l		92
9) 1,1,2-Trichlorotrifluo...	4.353	101	41161	20.762	ug/l		98
10) 1,1-Dichloroethene	4.330	96	38591	19.934	ug/l		94
11) Methyl Iodide	4.577	142	52797	19.843	ug/l		92
12) Methyl Acetate	5.018	43	54572	18.084	ug/l		98
13) Acrolein	4.171	56	36257	97.432	ug/l		97
14) Acrylonitrile	5.718	53	99433	100.722	ug/l		97
15) Acetone	4.430	58	26069	102.773	ug/l		95
16) Carbon Disulfide	4.700	76	112949	19.828	ug/l		98
17) Allyl chloride	5.012	41	62388	18.913	ug/l		93
18) Methylene Chloride	5.265	84	43401	19.131	ug/l		98
19) trans-1,2-Dichloroethene	5.783	96	39248	19.342	ug/l		94
20) Diisopropyl ether	6.665	45	129663	19.635	ug/l		97
21) 1,1-Dichloroethane	6.565	63	76784	19.334	ug/l		97
22) cis-1,2-Dichloroethene	7.482	96	46989	19.396	ug/l		97
23) tert-Butyl Alcohol	5.541	59	37052	107.508	ug/l	#	100
24) Methyl tert-Butyl Ether	5.788	73	122468	19.562	ug/l		100
25) Chloroform	7.965	83	79286	19.486	ug/l		97
26) Cyclohexane	8.253	56	62127	20.480	ug/l	#	99
29) 1,1-Dichloropropene	8.371	75	53477	19.541	ug/l		99
30) 2-Butanone	7.482	43	126487	100.199	ug/l		100
31) 2,2-Dichloropropane	7.488	77	66622	19.943	ug/l		99
32) 1,1,1-Trichloroethane	8.165	97	71786	19.308	ug/l		99
33) Carbon Tetrachloride	8.365	117	62252	19.622	ug/l		94
34) Benzene	8.606	78	173675	19.200	ug/l	#	95
35) Methacrylonitrile	7.777	41	29897	19.983	ug/l		98
36) 1,2-Dichloroethane	8.671	62	57389	19.078	ug/l		99
37) Trichloroethene	9.353	130	40639	19.915	ug/l		85
38) Methylcyclohexane	9.600	83	57621	19.559	ug/l		97
39) 1,2-Dichloropropane	9.623	63	41855	19.222	ug/l		90
40) Dibromomethane	9.706	93	29763	19.539	ug/l		97
41) Bromodichloromethane	9.882	83	63336	19.395	ug/l		94
42) Vinyl Acetate	6.600	43	471501	99.926	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084619.D
Acq On : 31 Oct 2024 14:42
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 02:42:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103124

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	52600	19.830	ug/l	96
44) Isopropyl Acetate	8.688	43	98265	18.295	ug/l	100
45) 1,4-Dioxane	9.694	88	14685	409.524	ug/l	94
46) Methyl methacrylate	9.682	41	42350	19.620	ug/l	91
47) n-amyl Acetate	12.494	43	79469	19.811	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	63042	19.551	ug/l	96
49) cis-1,3-Dichloropropene	10.312	75	67490	19.529	ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	40428	19.786	ug/l	92
51) Ethyl methacrylate	10.870	69	61356	19.481	ug/l	96
52) 1,3-Dichloropropane	11.165	76	68595	19.341	ug/l	98
53) Dibromochloromethane	11.359	129	47080	19.690	ug/l	98
54) 1,2-Dibromoethane	11.465	107	40000	19.356	ug/l	96
55) 2-Chloroethyl vinyl ether	10.159	63	158206	102.456	ug/l	99
56) Bromoform	12.582	173	31892	19.898	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	269754	100.170	ug/l	98
59) 2-Hexanone	11.194	43	196485	99.639	ug/l	99
61) Tetrachloroethene	11.100	164	34173	19.129	ug/l	94
62) Toluene	10.629	91	184150	18.941	ug/l	99
64) Chlorobenzene	11.894	112	114563	19.519	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.959	131	40847	18.937	ug/l	97
66) Ethyl Benzene	11.965	91	193657	18.953	ug/l	95
67) m/p-Xylenes	12.070	106	153096	39.137	ug/l	98
68) o-Xylene	12.400	106	73335	19.434	ug/l	95
69) Styrene	12.412	104	124645	19.701	ug/l	99
70) Isopropylbenzene	12.694	105	188026	20.058	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.935	83	58559	19.273	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	55357m	21.337	ug/l	
73) Bromobenzene	12.982	156	46221	19.118	ug/l	94
74) n-propylbenzene	13.035	91	217666	19.858	ug/l	100
75) 2-Chlorotoluene	13.123	91	141697	19.851	ug/l	97
76) 1,3,5-Trimethylbenzene	13.170	105	160297	20.014	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	20549	19.312	ug/l	95
78) 4-Chlorotoluene	13.217	91	141472	19.616	ug/l	99
79) tert-butylbenzene	13.441	119	134979	20.379	ug/l	96
80) 1,2,4-Trimethylbenzene	13.482	105	160493	19.863	ug/l	99
81) sec-Butylbenzene	13.617	105	179829	19.704	ug/l	100
82) p-Isopropyltoluene	13.729	119	148622	19.381	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	86431	19.330	ug/l	97
84) 1,4-Dichlorobenzene	13.811	146	87143	19.724	ug/l	97
85) n-Butylbenzene	14.053	91	124802	19.377	ug/l	99
86) Hexachloroethane	14.335	117	30122	19.206	ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	86578	19.650	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.717	75	12268	20.926	ug/l	98
89) 1,2,4-Trichlorobenzene	15.835	180	43307	20.187	ug/l	98
90) Hexachlorobutadiene	15.500	225	19143	20.428	ug/l	96
91) Naphthalene	15.641	128	132615	19.356	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	43307	20.187	ug/l	98

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

ICAL Form

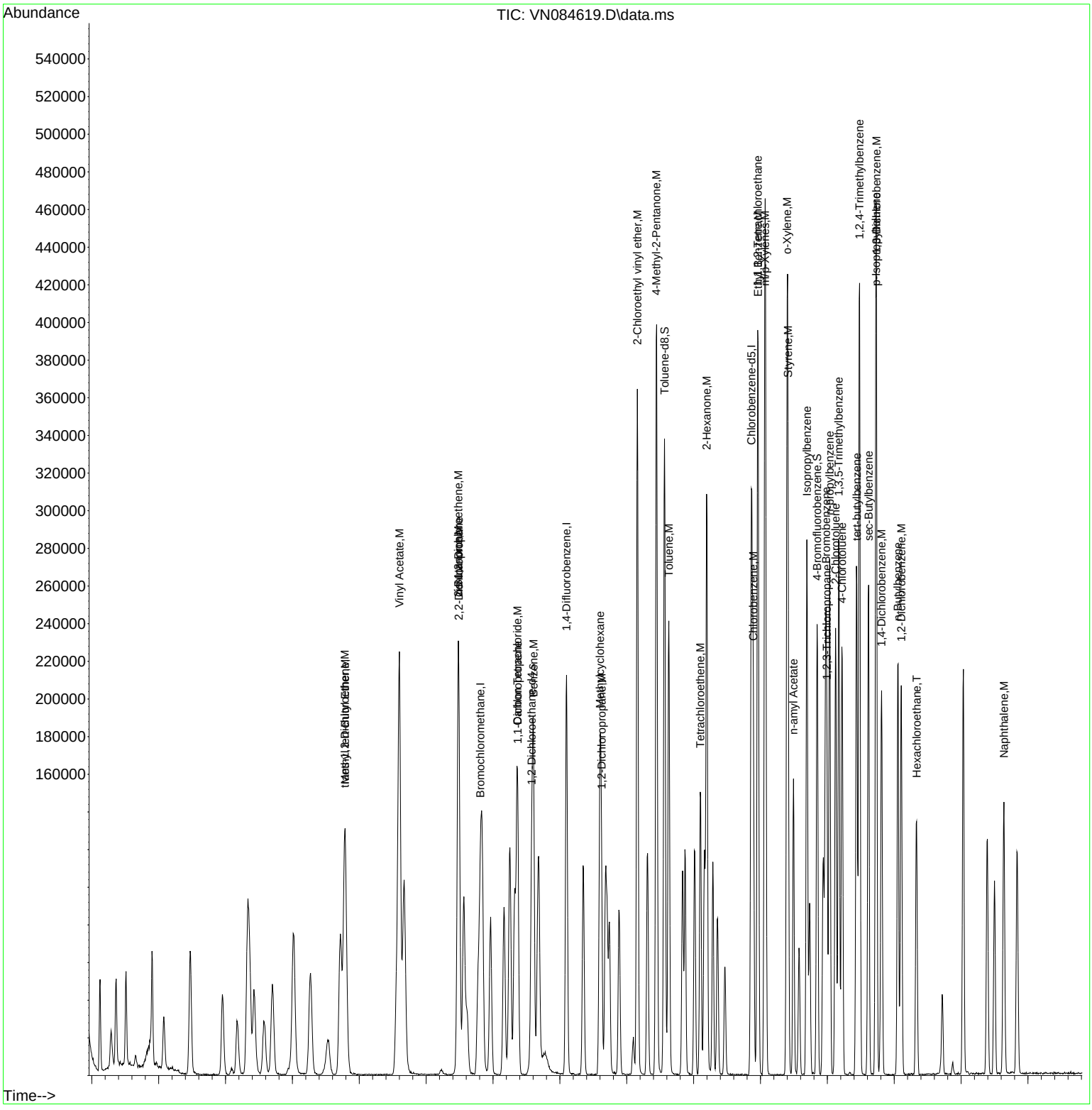
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084619.D
Acq On : 31 Oct 2024 14:42
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 02:42:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103124

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084619.D
Acq On : 31 Oct 2024 14:42
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103124

Quant Time: Nov 01 02:42:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 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	106	0.00
2	M	Dichlorodifluoromethane	1.745	1.761	-0.9	102	0.00
3	M	Chloromethane	2.101	2.074	1.3	101	0.00
4	M	Vinyl Chloride	1.951	1.970	-1.0	102	0.00
5	M	Bromomethane	0.990	0.977	1.3	95	0.00
6	M	Chloroethane	1.281	1.235	3.6	98	0.02
7	M	Trichlorofluoromethane	3.168	3.178	-0.3	100	0.00
8	T	Diethyl Ether	1.130	1.193	-5.6	109	0.00
9		1,1,2-Trichlorotrifluoroeth	1.790	1.859	-3.9	102	0.00
10	M	1,1-Dichloroethene	1.748	1.743	0.3	101	0.00
11		Methyl Iodide	2.403	2.384	0.8	101	0.00
12		Methyl Acetate	2.725	2.464	9.6	97	0.00
13	M	Acrolein	0.336	0.327	2.7	99	0.00
14	M	Acrylonitrile	0.892	0.898	-0.7	106	0.00
15	M	Acetone	0.229	0.235	-2.6	107	0.00
16	M	Carbon Disulfide	5.144	5.100	0.9	101	0.00
17		Allyl chloride	2.979	2.817	5.4	96	0.00
18	M	Methylene Chloride	2.049	1.960	4.3	94	0.00
19	M	trans-1,2-Dichloroethene	1.833	1.772	3.3	99	0.00
20	T	Diisopropyl ether	5.964	5.855	1.8	99	0.00
21	M	1,1-Dichloroethane	3.587	3.467	3.3	97	0.00
22	M	cis-1,2-Dichloroethene	2.188	2.122	3.0	101	0.00
23	M	tert-Butyl Alcohol	0.311	0.335	-7.7	115	0.00
24	M	Methyl tert-Butyl Ether	5.654	5.530	2.2	101	0.00
25	M	Chloroform	3.675	3.580	2.6	97	0.00
26		Cyclohexane	2.740	2.805	-2.4	106	0.00
27	s	1,2-Dichloroethane-d4	2.412	2.364	2.0	102	0.00
28	I	1,4-Difluorobenzene	1.000	1.000	0.0	106	0.00
29		1,1-Dichloropropene	0.452	0.441	2.4	100	0.00
30	M	2-Butanone	0.208	0.209	-0.5	106	0.00
31		2,2-Dichloropropane	0.552	0.550	0.4	99	0.00
32	M	1,1,1-Trichloroethane	0.614	0.593	3.4	97	0.00
33	M	Carbon Tetrachloride	0.524	0.514	1.9	101	0.00
34	M	Benzene	1.494	1.434	4.0	99	0.00
35		Methacrylonitrile	0.247	0.247	0.0	106	0.00
36	M	1,2-Dichloroethane	0.497	0.474	4.6	96	0.00
37	M	Trichloroethene	0.337	0.336	0.3	101	0.00
38		Methylcyclohexane	0.486	0.476	2.1	105	0.00
39	M	1,2-Dichloropropane	0.360	0.346	3.9	98	0.00
40		Dibromomethane	0.252	0.246	2.4	99	0.00
41	M	Bromodichloromethane	0.539	0.523	3.0	101	0.00
42	M	Vinyl Acetate	0.779	0.779	0.0	105	0.00
43		Ethyl Acetate	0.438	0.434	0.9	107	0.00
44		Isopropyl Acetate	0.887	0.811	8.6	101	0.00
45	T	1,4-Dioxane	0.006	0.006	0.0	107	0.00
46		Methyl methacrylate	0.356	0.350	1.7	106	0.00
47		n-amyl Acetate	0.662	0.656	0.9	104	0.00
48	M	t-1,3-Dichloropropene	0.532	0.520	2.3	104	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084619.D
Acq On : 31 Oct 2024 14:42
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103124

Quant Time: Nov 01 02:42:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 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	0.571	0.557	2.5	101	0.00
50	M	1,1,2-Trichloroethane	0.337	0.334	0.9	100	0.00
51		Ethyl methacrylate	0.520	0.507	2.5	106	0.00
52		1,3-Dichloropropane	0.586	0.566	3.4	98	0.00
53	M	Dibromochloromethane	0.395	0.389	1.5	102	0.00
54	M	1,2-Dibromoethane	0.341	0.330	3.2	98	0.00
55	M	2-Chloroethyl vinyl ether	0.255	0.261	-2.4	104	0.00
56	M	Bromoform	0.265	0.263	0.8	106	0.00
57	I	Chlorobenzene-d5	1.000	1.000	0.0	111	0.00
58	M	4-Methyl-2-Pentanone	0.473	0.474	-0.2	107	0.00
59	M	2-Hexanone	0.347	0.345	0.6	108	0.00
60	S	4-Bromofluorobenzene	0.517	0.516	0.2	113	0.00
61	M	Tetrachloroethene	0.314	0.300	4.5	101	0.00
62	M	Toluene	1.709	1.618	5.3	101	0.00
63	S	Toluene-d8	1.420	1.379	2.9	106	0.00
64	M	Chlorobenzene	1.032	1.007	2.4	104	0.00
65		1,1,1,2-Tetrachloroethane	0.379	0.359	5.3	100	0.00
66	M	Ethyl Benzene	1.796	1.702	5.2	103	0.00
67	M	m/p-Xylenes	0.687	0.673	2.0	105	0.00
68	M	o-Xylene	0.663	0.644	2.9	103	0.00
69	M	Styrene	1.112	1.095	1.5	107	0.00
70		Isopropylbenzene	1.647	1.652	-0.3	110	0.00
71	M	1,1,2,2-Tetrachloroethane	0.534	0.515	3.6	100	0.00
72		1,2,3-Trichloropropane	0.456	0.486	-6.6	102	0.00
73		Bromobenzene	0.425	0.406	4.5	102	0.00
74		n-propylbenzene	1.926	1.913	0.7	108	0.00
75		2-Chlorotoluene	1.255	1.245	0.8	107	0.00
76		1,3,5-Trimethylbenzene	1.408	1.409	-0.1	108	0.00
77		t-1,4-Dichloro-2-butene	0.187	0.181	3.2	105	0.00
78		4-Chlorotoluene	1.268	1.243	2.0	106	0.00
79		tert-butylbenzene	1.164	1.186	-1.9	115	0.00
80		1,2,4-Trimethylbenzene	1.420	1.410	0.7	108	0.00
81		sec-Butylbenzene	1.604	1.580	1.5	109	0.00
82		p-Isopropyltoluene	1.348	1.306	3.1	108	0.00
83	M	1,3-Dichlorobenzene	0.786	0.760	3.3	104	0.00
84	M	1,4-Dichlorobenzene	0.776	0.766	1.3	108	0.00
85		n-Butylbenzene	1.132	1.097	3.1	114	0.00
86	T	Hexachloroethane	0.276	0.265	4.0	103	0.00
87	M	1,2-Dichlorobenzene	0.774	0.761	1.7	103	0.00
88		1,2-Dibromo-3-Chloropropane	0.103	0.108	-4.9	111	0.00
89		1,2,4-Trichlorobenzene	0.377	0.381	-1.1	110	0.00
90		Hexachlorobutadiene	0.165	0.168	-1.8	111	0.00
91	M	Naphthalene	1.204	1.165	3.2	115	0.00
92		1,2,3-Trichlorobenzene	0.377	0.381	-1.1	110	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\VN103124\
Data File : VN084619.D
Acq On : 31 Oct 2024 14:42
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103124

Quant Time: Nov 01 02:42:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 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	106	0.00
2	M	Dichlorodifluoromethane	20.000	20.189	-0.9	102	0.00
3	M	Chloromethane	20.000	19.742	1.3	101	0.00
4	M	Vinyl Chloride	20.000	20.200	-1.0	102	0.00
5	M	Bromomethane	20.000	19.733	1.3	95	0.00
6	M	Chloroethane	20.000	19.284	3.6	98	0.02
7	M	Trichlorofluoromethane	20.000	20.061	-0.3	100	0.00
8	T	Diethyl Ether	20.000	21.107	-5.5	109	0.00
9		1,1,2-Trichlorotrifluoroeth	20.000	20.762	-3.8	102	0.00
10	M	1,1-Dichloroethene	20.000	19.934	0.3	101	0.00
11		Methyl Iodide	20.000	19.843	0.8	101	0.00
12		Methyl Acetate	20.000	18.084	9.6	97	0.00
13	M	Acrolein	100.000	97.432	2.6	99	0.00
14	M	Acrylonitrile	100.000	100.722	-0.7	106	0.00
15	M	Acetone	100.000	102.773	-2.8	107	0.00
16	M	Carbon Disulfide	20.000	19.828	0.9	101	0.00
17		Allyl chloride	20.000	18.913	5.4	96	0.00
18	M	Methylene Chloride	20.000	19.131	4.3	94	0.00
19	M	trans-1,2-Dichloroethene	20.000	19.342	3.3	99	0.00
20	T	Diisopropyl ether	20.000	19.635	1.8	99	0.00
21	M	1,1-Dichloroethane	20.000	19.334	3.3	97	0.00
22	M	cis-1,2-Dichloroethene	20.000	19.396	3.0	101	0.00
23	M	tert-Butyl Alcohol	100.000	107.508	-7.5	115	0.00
24	M	Methyl tert-Butyl Ether	20.000	19.562	2.2	101	0.00
25	M	Chloroform	20.000	19.486	2.6	97	0.00
26		Cyclohexane	20.000	20.480	-2.4	106	0.00
27	s	1,2-Dichloroethane-d4	30.000	29.401	2.0	102	0.00
28	I	1,4-Difluorobenzene	30.000	30.000	0.0	106	0.00
29		1,1-Dichloropropene	20.000	19.541	2.3	100	0.00
30	M	2-Butanone	100.000	100.199	-0.2	106	0.00
31		2,2-Dichloropropane	20.000	19.943	0.3	99	0.00
32	M	1,1,1-Trichloroethane	20.000	19.308	3.5	97	0.00
33	M	Carbon Tetrachloride	20.000	19.622	1.9	101	0.00
34	M	Benzene	20.000	19.200	4.0	99	0.00
35		Methacrylonitrile	20.000	19.983	0.1	106	0.00
36	M	1,2-Dichloroethane	20.000	19.078	4.6	96	0.00
37	M	Trichloroethene	20.000	19.915	0.4	101	0.00
38		Methylcyclohexane	20.000	19.559	2.2	105	0.00
39	M	1,2-Dichloropropane	20.000	19.222	3.9	98	0.00
40		Dibromomethane	20.000	19.539	2.3	99	0.00
41	M	Bromodichloromethane	20.000	19.395	3.0	101	0.00
42	M	Vinyl Acetate	100.000	99.926	0.1	105	0.00
43		Ethyl Acetate	20.000	19.830	0.9	107	0.00
44		Isopropyl Acetate	20.000	18.295	8.5	101	0.00
45	T	1,4-Dioxane	400.000	409.524	-2.4	107	0.00
46		Methyl methacrylate	20.000	19.620	1.9	106	0.00
47		n-amyl Acetate	20.000	19.811	0.9	104	0.00
48	M	t-1,3-Dichloropropene	20.000	19.551	2.2	104	0.00

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084619.D
Acq On : 31 Oct 2024 14:42
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103124

Quant Time: Nov 01 02:42:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 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	19.529	2.4	101	0.00
50	M	1,1,2-Trichloroethane	20.000	19.786	1.1	100	0.00
51		Ethyl methacrylate	20.000	19.481	2.6	106	0.00
52		1,3-Dichloropropane	20.000	19.341	3.3	98	0.00
53	M	Dibromochloromethane	20.000	19.690	1.5	102	0.00
54	M	1,2-Dibromoethane	20.000	19.356	3.2	98	0.00
55	M	2-Chloroethyl vinyl ether	100.000	102.456	-2.5	104	0.00
56	M	Bromoform	20.000	19.898	0.5	106	0.00
57	I	Chlorobenzene-d5	30.000	30.000	0.0	111	0.00
58	M	4-Methyl-2-Pentanone	100.000	100.170	-0.2	107	0.00
59	M	2-Hexanone	100.000	99.639	0.4	108	0.00
60	S	4-Bromofluorobenzene	30.000	29.939	0.2	113	0.00
61	M	Tetrachloroethene	20.000	19.129	4.4	101	0.00
62	M	Toluene	20.000	18.941	5.3	101	0.00
63	S	Toluene-d8	30.000	29.138	2.9	106	0.00
64	M	Chlorobenzene	20.000	19.519	2.4	104	0.00
65		1,1,1,2-Tetrachloroethane	20.000	18.937	5.3	100	0.00
66	M	Ethyl Benzene	20.000	18.953	5.2	103	0.00
67	M	m/p-Xylenes	40.000	39.137	2.2	105	0.00
68	M	o-Xylene	20.000	19.434	2.8	103	0.00
69	M	Styrene	20.000	19.701	1.5	107	0.00
70		Isopropylbenzene	20.000	20.058	-0.3	110	0.00
71	M	1,1,2,2-Tetrachloroethane	20.000	19.273	3.6	100	0.00
72		1,2,3-Trichloropropane	20.000	21.337	-6.7	102	0.00
73		Bromobenzene	20.000	19.118	4.4	102	0.00
74		n-propylbenzene	20.000	19.858	0.7	108	0.00
75		2-Chlorotoluene	20.000	19.851	0.7	107	0.00
76		1,3,5-Trimethylbenzene	20.000	20.014	-0.1	108	0.00
77		t-1,4-Dichloro-2-butene	20.000	19.312	3.4	105	0.00
78		4-Chlorotoluene	20.000	19.616	1.9	106	0.00
79		tert-butylbenzene	20.000	20.379	-1.9	115	0.00
80		1,2,4-Trimethylbenzene	20.000	19.863	0.7	108	0.00
81		sec-Butylbenzene	20.000	19.704	1.5	109	0.00
82		p-Isopropyltoluene	20.000	19.381	3.1	108	0.00
83	M	1,3-Dichlorobenzene	20.000	19.330	3.4	104	0.00
84	M	1,4-Dichlorobenzene	20.000	19.724	1.4	108	0.00
85		n-Butylbenzene	20.000	19.377	3.1	114	0.00
86	T	Hexachloroethane	20.000	19.206	4.0	103	0.00
87	M	1,2-Dichlorobenzene	20.000	19.650	1.8	103	0.00
88		1,2-Dibromo-3-Chloropropane	20.000	20.926	-4.6	111	0.00
89		1,2,4-Trichlorobenzene	20.000	20.187	-0.9	110	0.00
90		Hexachlorobutadiene	20.000	20.428	-2.1	111	0.00
91	M	Naphthalene	20.000	19.356	3.2	115	0.00
92		1,2,3-Trichlorobenzene	20.000	20.187	-0.9	110	0.00

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

Raw Data: **VN084867.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: TULL01

Lab Code: CHEM Case No.: P4853 SAS No.: P4853 SDG No.: P4853

Instrument ID: MSVOA_N Calibration Date/Time: 11/15/2024 13:49

Lab File ID: VN084867.D Init. Calib. Date(s): 10/31/2024 10/31/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:08 18:13

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

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
Benzene	1.494	1.459	0.5	-2.34	
Toluene	1.709	1.664	0.4	-2.63	
Ethyl Benzene	1.796	1.629	0.1	-9.3	
m/p-Xylenes	0.687	0.652	0.3	-5.09	
o-Xylene	0.663	0.629	0.3	-5.13	
1,2-Dichloroethane-d4	2.412	2.422	0.01	0.41	
Toluene-d8	1.420	1.438	0.01	1.27	
4-Bromofluorobenzene	0.517	0.524	0.2	1.35	

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

Sample Results: **VN084867.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111524\
Data File : VN084867.D
Acq On : 15 Nov 2024 13:49
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 15 22:22:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED
Reviewed By :John Carlone 11/17/2024
Supervised By :Mahesh Dadoda 11/18/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.812	128	29205	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	143711	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	129619	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	70731	30.125	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.433%			
60) 4-Bromofluorobenzene	12.847	95	67980	30.459	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.533%			
63) Toluene-d8	10.565	98	186361	30.371	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.233%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.118	85	30924	18.205	ug/l	97
3) Chloromethane	2.359	50	40318	19.714	ug/l	95
4) Vinyl Chloride	2.512	62	39327	20.709	ug/l	96
5) Bromomethane	2.901	94	21252	22.048	ug/l	96
6) Chloroethane	3.071	64	25906	20.777	ug/l	93
7) Trichlorofluoromethane	3.459	101	58770	19.056	ug/l	96
8) Diethyl Ether	3.953	74	19904	18.093	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.359	101	30359	17.418	ug/l	95
10) 1,1-Dichloroethene	4.324	96	29493	17.328	ug/l	95
11) Methyl Iodide	4.577	142	45562	19.477	ug/l	86
12) Methyl Acetate	5.018	43	43060	16.231	ug/l	98
13) Acrolein	4.171	56	32698	99.945	ug/l	97
14) Acrylonitrile	5.718	53	81966	94.441	ug/l	99
15) Acetone	4.424	58	21488	96.356	ug/l	92
16) Carbon Disulfide	4.695	76	83450	16.663	ug/l #	94
17) Allyl chloride	5.012	41	44622	15.386	ug/l	99
18) Methylene Chloride	5.265	84	37063	18.583	ug/l	92
19) trans-1,2-Dichloroethene	5.783	96	31190	17.483	ug/l	95
20) Diisopropyl ether	6.665	45	105073	18.098	ug/l	94
21) 1,1-Dichloroethane	6.559	63	63631	18.225	ug/l	98
22) cis-1,2-Dichloroethene	7.483	96	37746	17.722	ug/l	97
23) tert-Butyl Alcohol	5.536	59	25733m	84.928	ug/l	
24) Methyl tert-Butyl Ether	5.789	73	103968	18.889	ug/l	99
25) Chloroform	7.965	83	66394	18.560	ug/l	97
26) Cyclohexane	8.253	56	41700	15.636	ug/l #	96
29) 1,1-Dichloropropene	8.365	75	38880	17.962	ug/l	97
30) 2-Butanone	7.483	43	105293	105.453	ug/l	97
31) 2,2-Dichloropropane	7.489	77	51247	19.395	ug/l	98
32) 1,1,1-Trichloroethane	8.159	97	57719	19.627	ug/l	99
33) Carbon Tetrachloride	8.359	117	49987	19.920	ug/l	96
34) Benzene	8.600	78	139735	19.530	ug/l	99
35) Methacrylonitrile	7.777	41	23718	20.042	ug/l	95
36) 1,2-Dichloroethane	8.665	62	50527	21.236	ug/l	99
37) Trichloroethene	9.347	130	30042	18.613	ug/l	98
38) Methylcyclohexane	9.600	83	38328	16.448	ug/l	95
39) 1,2-Dichloropropane	9.618	63	34615	20.098	ug/l	95
40) Dibromomethane	9.706	93	25281	20.982	ug/l	96
41) Bromodichloromethane	9.888	83	51091	19.780	ug/l	100
42) Vinyl Acetate	6.600	43	353820	94.802	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111524\
Data File : VN084867.D
Acq On : 15 Nov 2024 13:49
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 15 22:22:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED

Reviewed By :John Carlone 11/17/2024
Supervised By :Mahesh Dadoda 11/18/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) Ethyl Acetate	7.553	43	43215	20.598 ug/l	99
44) Isopropyl Acetate	8.683	43	76147	17.924 ug/l	96
45) 1,4-Dioxane	9.694	88	11581	408.313 ug/l	98
46) Methyl methacrylate	9.677	41	31598	18.508 ug/l	93
47) n-amyl Acetate	12.494	43	57999	18.279 ug/l	99
48) t-1,3-Dichloropropene	10.835	75	47064	18.453 ug/l	93
49) cis-1,3-Dichloropropene	10.312	75	53099	19.425 ug/l	98
50) 1,1,2-Trichloroethane	11.012	97	33847	20.943 ug/l	93
51) Ethyl methacrylate	10.877	69	47007	18.869 ug/l	93
52) 1,3-Dichloropropane	11.159	76	57997	20.674 ug/l	99
53) Dibromochloromethane	11.359	129	39443	20.855 ug/l	98
54) 1,2-Dibromoethane	11.471	107	34374	21.029 ug/l	96
55) 2-Chloroethyl vinyl ether	10.159	63	129165	105.755 ug/l	98
56) Bromoform	12.576	173	26019	20.524 ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	217184	106.208 ug/l	97
59) 2-Hexanone	11.194	43	157051	104.883 ug/l	99
61) Tetrachloroethene	11.100	164	26787	19.746 ug/l	95
62) Toluene	10.630	91	143824	19.481 ug/l	99
64) Chlorobenzene	11.888	112	88491	19.855 ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	33876	20.682 ug/l	98
66) Ethyl Benzene	11.965	91	140773	18.144 ug/l	95
67) m/p-Xylenes	12.071	106	112700	37.941 ug/l	99
68) o-Xylene	12.394	106	54333	18.962 ug/l	95
69) Styrene	12.412	104	92272	19.206 ug/l	99
70) Isopropylbenzene	12.694	105	132744	18.649 ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	50764	22.003 ug/l	95
72) 1,2,3-Trichloropropane	12.994	75	46309m	23.507 ug/l	
73) Bromobenzene	12.976	156	35881	19.545 ug/l	97
74) n-propylbenzene	13.035	91	154569	18.570 ug/l	100
75) 2-Chlorotoluene	13.123	91	100115	18.470 ug/l	96
76) 1,3,5-Trimethylbenzene	13.171	105	117170	19.266 ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	15759	19.504 ug/l	92
78) 4-Chlorotoluene	13.218	91	100452	18.342 ug/l	99
79) tert-butylbenzene	13.435	119	93698	18.630 ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	117990	19.231 ug/l	98
81) sec-Butylbenzene	13.618	105	126560	18.262 ug/l	98
82) p-Isopropyltoluene	13.729	119	106151	18.229 ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	64615	19.031 ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	62132	18.520 ug/l	99
85) n-Butylbenzene	14.053	91	79989	16.355 ug/l	97
86) Hexachloroethane	14.329	117	22330	18.750 ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	64917	19.403 ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.712	75	9097	20.435 ug/l	91
89) 1,2,4-Trichlorobenzene	15.835	180	29223	17.939 ug/l	91
90) Hexachlorobutadiene	15.500	225	14544	20.439 ug/l	99
91) Naphthalene	15.641	128	90833	17.460 ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	29223	17.939 ug/l	91

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

Sample Results: **VN084867.D**

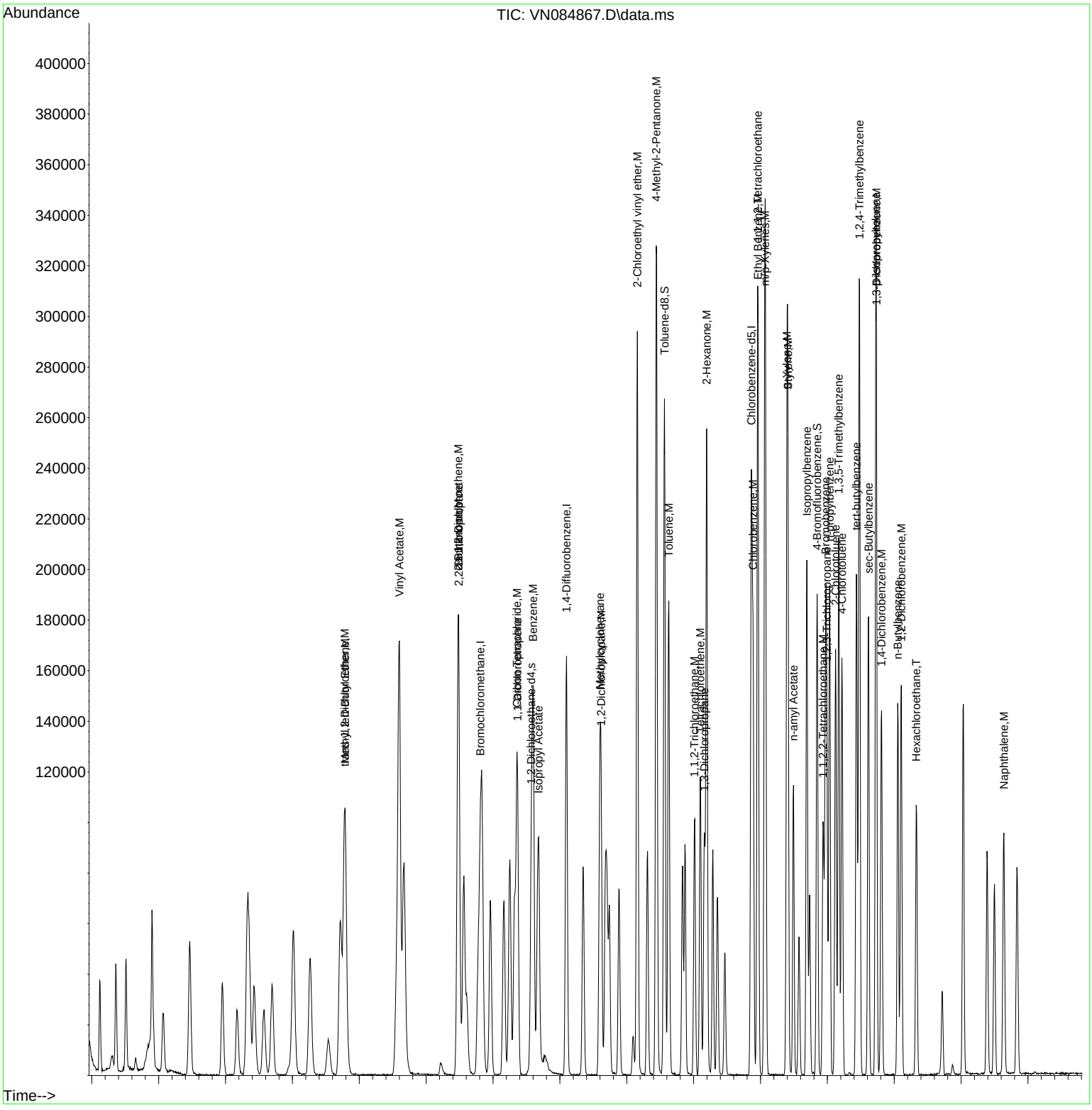
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111524\
Data File : VN084867.D
Acq On : 15 Nov 2024 13:49
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 15 22:22:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED

Reviewed By :John Carlone 11/17/2024
Supervised By :Mahesh Dadoda 11/18/2024



Sample Results: **VN084867.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111524\
Data File : VN084867.D
Acq On : 15 Nov 2024 13:49
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Nov 15 22:22:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 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	93	0.00
2	M	Dichlorodifluoromethane	1.745	1.588	9.0	81	0.00
3	M	Chloromethane	2.101	2.071	1.4	89	0.00
4	M	Vinyl Chloride	1.951	2.020	-3.5	92	0.00
5	M	Bromomethane	0.990	1.092	-10.3	94	0.00
6	M	Chloroethane	1.281	1.331	-3.9	92	0.01
7	M	Trichlorofluoromethane	3.168	3.018	4.7	84	0.00
8	T	Diethyl Ether	1.130	1.022	9.6	82	0.00
9		1,1,2-Trichlorotrifluoroeth	1.790	1.559	12.9	75	0.00
10	M	1,1-Dichloroethene	1.748	1.515	13.3	77	0.00
11		Methyl Iodide	2.403	2.340	2.6	87	0.00
12		Methyl Acetate	2.725	2.212	18.8	77	0.00
13	M	Acrolein	0.336	0.336	0.0	90	0.00
14	M	Acrylonitrile	0.892	0.842	5.6	87	0.00
15	M	Acetone	0.229	0.221	3.5	88	0.00
16	M	Carbon Disulfide	5.144	4.286	16.7	74	0.00
17		Allyl chloride	2.979	2.292	23.1	69	0.00
18	M	Methylene Chloride	2.049	1.904	7.1	80	0.00
19	M	trans-1,2-Dichloroethene	1.833	1.602	12.6	79	0.00
20	T	Diisopropyl ether	5.964	5.397	9.5	80	0.00
21	M	1,1-Dichloroethane	3.587	3.268	8.9	80	0.00
22	M	cis-1,2-Dichloroethene	2.188	1.939	11.4	81	0.00
23	M	tert-Butyl Alcohol	0.311	0.264	15.1	80	0.00
24	M	Methyl tert-Butyl Ether	5.654	5.340	5.6	86	0.00
25	M	Chloroform	3.675	3.410	7.2	81	0.00
26		Cyclohexane	2.740	2.142	21.8	71	0.00
27	s	1,2-Dichloroethane-d4	2.412	2.422	-0.4	91	0.00
28	I	1,4-Difluorobenzene	1.000	1.000	0.0	83	0.00
29		1,1-Dichloropropene	0.452	0.406	10.2	73	0.00
30	M	2-Butanone	0.208	0.220	-5.8	89	0.00
31		2,2-Dichloropropane	0.552	0.535	3.1	77	0.00
32	M	1,1,1-Trichloroethane	0.614	0.602	2.0	78	0.00
33	M	Carbon Tetrachloride	0.524	0.522	0.4	81	0.00
34	M	Benzene	1.494	1.459	2.3	80	0.00
35		Methacrylonitrile	0.247	0.248	-0.4	84	0.00
36	M	1,2-Dichloroethane	0.497	0.527	-6.0	84	0.00
37	M	Trichloroethene	0.337	0.314	6.8	75	0.00
38		Methylcyclohexane	0.486	0.400	17.7	70	0.00
39	M	1,2-Dichloropropane	0.360	0.361	-0.3	81	0.00
40		Dibromomethane	0.252	0.264	-4.8	84	0.00
41	M	Bromodichloromethane	0.539	0.533	1.1	81	0.00
42	M	Vinyl Acetate	0.779	0.739	5.1	79	0.00
43		Ethyl Acetate	0.438	0.451	-3.0	88	0.00
44		Isopropyl Acetate	0.887	0.795	10.4	79	0.00
45	T	1,4-Dioxane	0.006	0.006	0.0	85	0.00
46		Methyl methacrylate	0.356	0.330	7.3	79	0.00
47		n-amyl Acetate	0.662	0.605	8.6	76	0.00
48	M	t-1,3-Dichloropropene	0.532	0.491	7.7	78	0.00

Sample Results: **VN084867.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111524\
Data File : VN084867.D
Acq On : 15 Nov 2024 13:49
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Nov 15 22:22:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 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	0.571	0.554	3.0	80	0.00
50	M	1,1,2-Trichloroethane	0.337	0.353	-4.7	84	0.00
51		Ethyl methacrylate	0.520	0.491	5.6	81	0.00
52		1,3-Dichloropropane	0.586	0.605	-3.2	83	0.00
53	M	Dibromochloromethane	0.395	0.412	-4.3	86	0.00
54	M	1,2-Dibromoethane	0.341	0.359	-5.3	84	0.00
55	M	2-Chloroethyl vinyl ether	0.255	0.270	-5.9	85	0.00
56	M	Bromoform	0.265	0.272	-2.6	86	0.00
57	I	Chlorobenzene-d5	1.000	1.000	0.0	84	0.00
58	M	4-Methyl-2-Pentanone	0.473	0.503	-6.3	86	0.00
59	M	2-Hexanone	0.347	0.363	-4.6	86	0.00
60	S	4-Bromofluorobenzene	0.517	0.524	-1.4	87	0.00
61	M	Tetrachloroethene	0.314	0.310	1.3	79	0.00
62	M	Toluene	1.709	1.664	2.6	79	0.00
63	S	Toluene-d8	1.420	1.438	-1.3	84	0.00
64	M	Chlorobenzene	1.032	1.024	0.8	80	0.00
65		1,1,1,2-Tetrachloroethane	0.379	0.392	-3.4	83	0.00
66	M	Ethyl Benzene	1.796	1.629	9.3	75	0.00
67	M	m/p-Xylenes	0.687	0.652	5.1	77	0.00
68	M	o-Xylene	0.663	0.629	5.1	77	0.00
69	M	Styrene	1.112	1.068	4.0	79	0.00
70		Isopropylbenzene	1.647	1.536	6.7	77	0.00
71	M	1,1,2,2-Tetrachloroethane	0.534	0.587	-9.9	87	0.00
72		1,2,3-Trichloropropane	0.456	0.536	-17.5	86	0.00
73		Bromobenzene	0.425	0.415	2.4	79	0.00
74		n-propylbenzene	1.926	1.789	7.1	77	0.00
75		2-Chlorotoluene	1.255	1.159	7.6	76	0.00
76		1,3,5-Trimethylbenzene	1.408	1.356	3.7	79	0.00
77		t-1,4-Dichloro-2-butene	0.187	0.182	2.7	80	0.00
78		4-Chlorotoluene	1.268	1.162	8.4	75	0.00
79		tert-butylbenzene	1.164	1.084	6.9	80	0.00
80		1,2,4-Trimethylbenzene	1.420	1.365	3.9	79	0.00
81		sec-Butylbenzene	1.604	1.465	8.7	77	0.00
82		p-Isopropyltoluene	1.348	1.228	8.9	77	0.00
83	M	1,3-Dichlorobenzene	0.786	0.748	4.8	77	0.00
84	M	1,4-Dichlorobenzene	0.776	0.719	7.3	77	0.00
85		n-Butylbenzene	1.132	0.926	18.2	73	0.00
86	T	Hexachloroethane	0.276	0.258	6.5	76	0.00
87	M	1,2-Dichlorobenzene	0.774	0.751	3.0	77	0.00
88		1,2-Dibromo-3-Chloropropane	0.103	0.105	-1.9	82	0.00
89		1,2,4-Trichlorobenzene	0.377	0.338	10.3	74	0.00
90		Hexachlorobutadiene	0.165	0.168	-1.8	84	0.00
91	M	Naphthalene	1.204	1.051	12.7	79	0.00
92		1,2,3-Trichlorobenzene	0.377	0.338	10.3	74	0.00

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

Sample Results: **VN084867.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111524\
Data File : VN084867.D
Acq On : 15 Nov 2024 13:49
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Nov 15 22:22:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 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	93	0.00
2	M	Dichlorodifluoromethane	20.000	18.205	9.0	81	0.00
3	M	Chloromethane	20.000	19.714	1.4	89	0.00
4	M	Vinyl Chloride	20.000	20.709	-3.5	92	0.00
5	M	Bromomethane	20.000	22.048	-10.2	94	0.00
6	M	Chloroethane	20.000	20.777	-3.9	92	0.01
7	M	Trichlorofluoromethane	20.000	19.056	4.7	84	0.00
8	T	Diethyl Ether	20.000	18.093	9.5	82	0.00
9		1,1,2-Trichlorotrifluoroeth	20.000	17.418	12.9	75	0.00
10	M	1,1-Dichloroethene	20.000	17.328	13.4	77	0.00
11		Methyl Iodide	20.000	19.477	2.6	87	0.00
12		Methyl Acetate	20.000	16.231	18.8	77	0.00
13	M	Acrolein	100.000	99.945	0.1	90	0.00
14	M	Acrylonitrile	100.000	94.441	5.6	87	0.00
15	M	Acetone	100.000	96.356	3.6	88	0.00
16	M	Carbon Disulfide	20.000	16.663	16.7	74	0.00
17		Allyl chloride	20.000	15.386	23.1	69	0.00
18	M	Methylene Chloride	20.000	18.583	7.1	80	0.00
19	M	trans-1,2-Dichloroethene	20.000	17.483	12.6	79	0.00
20	T	Diisopropyl ether	20.000	18.098	9.5	80	0.00
21	M	1,1-Dichloroethane	20.000	18.225	8.9	80	0.00
22	M	cis-1,2-Dichloroethene	20.000	17.722	11.4	81	0.00
23	M	tert-Butyl Alcohol	100.000	84.928	15.1	80	0.00
24	M	Methyl tert-Butyl Ether	20.000	18.889	5.6	86	0.00
25	M	Chloroform	20.000	18.560	7.2	81	0.00
26		Cyclohexane	20.000	15.636	21.8	71	0.00
27	s	1,2-Dichloroethane-d4	30.000	30.125	-0.4	91	0.00
28	I	1,4-Difluorobenzene	30.000	30.000	0.0	83	0.00
29		1,1-Dichloropropene	20.000	17.962	10.2	73	0.00
30	M	2-Butanone	100.000	105.453	-5.5	89	0.00
31		2,2-Dichloropropane	20.000	19.395	3.0	77	0.00
32	M	1,1,1-Trichloroethane	20.000	19.627	1.9	78	0.00
33	M	Carbon Tetrachloride	20.000	19.920	0.4	81	0.00
34	M	Benzene	20.000	19.530	2.3	80	0.00
35		Methacrylonitrile	20.000	20.042	-0.2	84	0.00
36	M	1,2-Dichloroethane	20.000	21.236	-6.2	84	0.00
37	M	Trichloroethene	20.000	18.613	6.9	75	0.00
38		Methylcyclohexane	20.000	16.448	17.8	70	0.00
39	M	1,2-Dichloropropane	20.000	20.098	-0.5	81	0.00
40		Dibromomethane	20.000	20.982	-4.9	84	0.00
41	M	Bromodichloromethane	20.000	19.780	1.1	81	0.00
42	M	Vinyl Acetate	100.000	94.802	5.2	79	0.00
43		Ethyl Acetate	20.000	20.598	-3.0	88	0.00
44		Isopropyl Acetate	20.000	17.924	10.4	79	0.00
45	T	1,4-Dioxane	400.000	408.313	-2.1	85	0.00
46		Methyl methacrylate	20.000	18.508	7.5	79	0.00
47		n-amyl Acetate	20.000	18.279	8.6	76	0.00
48	M	t-1,3-Dichloropropene	20.000	18.453	7.7	78	0.00

Sample Results: **VN084867.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111524\
Data File : VN084867.D
Acq On : 15 Nov 2024 13:49
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Nov 15 22:22:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 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	19.425	2.9	80	0.00
50	M	1,1,2-Trichloroethane	20.000	20.943	-4.7	84	0.00
51		Ethyl methacrylate	20.000	18.869	5.7	81	0.00
52		1,3-Dichloropropane	20.000	20.674	-3.4	83	0.00
53	M	Dibromochloromethane	20.000	20.855	-4.3	86	0.00
54	M	1,2-Dibromoethane	20.000	21.029	-5.1	84	0.00
55	M	2-Chloroethyl vinyl ether	100.000	105.755	-5.8	85	0.00
56	M	Bromoform	20.000	20.524	-2.6	86	0.00
57	I	Chlorobenzene-d5	30.000	30.000	0.0	84	0.00
58	M	4-Methyl-2-Pentanone	100.000	106.208	-6.2	86	0.00
59	M	2-Hexanone	100.000	104.883	-4.9	86	0.00
60	S	4-Bromofluorobenzene	30.000	30.459	-1.5	87	0.00
61	M	Tetrachloroethene	20.000	19.746	1.3	79	0.00
62	M	Toluene	20.000	19.481	2.6	79	0.00
63	S	Toluene-d8	30.000	30.371	-1.2	84	0.00
64	M	Chlorobenzene	20.000	19.855	0.7	80	0.00
65		1,1,1,2-Tetrachloroethane	20.000	20.682	-3.4	83	0.00
66	M	Ethyl Benzene	20.000	18.144	9.3	75	0.00
67	M	m/p-Xylenes	40.000	37.941	5.1	77	0.00
68	M	o-Xylene	20.000	18.962	5.2	77	0.00
69	M	Styrene	20.000	19.206	4.0	79	0.00
70		Isopropylbenzene	20.000	18.649	6.8	77	0.00
71	M	1,1,2,2-Tetrachloroethane	20.000	22.003	-10.0	87	0.00
72		1,2,3-Trichloropropane	20.000	23.507	-17.5	86	0.00
73		Bromobenzene	20.000	19.545	2.3	79	0.00
74		n-propylbenzene	20.000	18.570	7.1	77	0.00
75		2-Chlorotoluene	20.000	18.470	7.7	76	0.00
76		1,3,5-Trimethylbenzene	20.000	19.266	3.7	79	0.00
77		t-1,4-Dichloro-2-butene	20.000	19.504	2.5	80	0.00
78		4-Chlorotoluene	20.000	18.342	8.3	75	0.00
79		tert-butylbenzene	20.000	18.630	6.9	80	0.00
80		1,2,4-Trimethylbenzene	20.000	19.231	3.8	79	0.00
81		sec-Butylbenzene	20.000	18.262	8.7	77	0.00
82		p-Isopropyltoluene	20.000	18.229	8.9	77	0.00
83	M	1,3-Dichlorobenzene	20.000	19.031	4.8	77	0.00
84	M	1,4-Dichlorobenzene	20.000	18.520	7.4	77	0.00
85		n-Butylbenzene	20.000	16.355	18.2	73	0.00
86	T	Hexachloroethane	20.000	18.750	6.3	76	0.00
87	M	1,2-Dichlorobenzene	20.000	19.403	3.0	77	0.00
88		1,2-Dibromo-3-Chloropropane	20.000	20.435	-2.2	82	0.00
89		1,2,4-Trichlorobenzene	20.000	17.939	10.3	74	0.00
90		Hexachlorobutadiene	20.000	20.439	-2.2	84	0.00
91	M	Naphthalene	20.000	17.460	12.7	79	0.00
92		1,2,3-Trichlorobenzene	20.000	17.939	10.3	74	0.00

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

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: TULL01

Lab Code: CHEM Case No.: P4853 SAS No.: P4853 SDG No.: P4853

Instrument ID: MSVOA_N Calibration Date/Time: 11/21/2024 10:09

Lab File ID: VN084987.D Init. Calib. Date(s): 10/31/2024 10/31/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:08 18:13

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

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
Benzene	1.494	1.418	0.5	-5.09	
Toluene	1.709	1.649	0.4	-3.51	
Ethyl Benzene	1.796	1.629	0.1	-9.3	
m/p-Xylenes	0.687	0.661	0.3	-3.79	
o-Xylene	0.663	0.630	0.3	-4.98	
1,2-Dichloroethane-d4	2.412	2.441	0.01	1.2	
Toluene-d8	1.420	1.421	0.01	0.07	
4-Bromofluorobenzene	0.517	0.540	0.2	4.45	

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

Sample Results: **VN084987.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112124\
Data File : VN084987.D
Acq On : 21 Nov 2024 10:09
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 21 14:42:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED
Reviewed By :John Carlone 11/21/2024
Supervised By :Mahesh Dadoda 11/22/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.812	128	33996	30.000	ug/l		0.00
28) 1,4-Difluorobenzene	9.100	114	179355	30.000	ug/l		0.00
57) Chlorobenzene-d5	11.865	117	164023	30.000	ug/l		0.00
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.577	65	82968	30.357	ug/l		0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.200%				
60) 4-Bromofluorobenzene	12.847	95	88511	31.340	ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 104.467%				
63) Toluene-d8	10.565	98	233022	30.010	ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.033%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.118	85	41652	21.065	ug/l		96
3) Chloromethane	2.359	50	44811	18.823	ug/l		96
4) Vinyl Chloride	2.512	62	42735	19.332	ug/l		98
5) Bromomethane	2.900	94	23012	20.510	ug/l		99
6) Chloroethane	3.071	64	27661	19.058	ug/l	#	86
7) Trichlorofluoromethane	3.471	101	72284	20.134	ug/l		99
8) Diethyl Ether	3.953	74	24539	19.162	ug/l		97
9) 1,1,2-Trichlorotrifluo...	4.359	101	41865	20.635	ug/l		86
10) 1,1-Dichloroethene	4.330	96	37691	19.024	ug/l		83
11) Methyl Iodide	4.583	142	53189	19.533	ug/l		94
12) Methyl Acetate	5.018	43	52828	17.106	ug/l		99
13) Acrolein	4.177	56	40617	106.654	ug/l		99
14) Acrylonitrile	5.712	53	98846	97.839	ug/l		98
15) Acetone	4.424	58	25621	98.698	ug/l		99
16) Carbon Disulfide	4.700	76	104210	17.876	ug/l		98
17) Allyl chloride	5.012	41	54126	16.033	ug/l		95
18) Methylene Chloride	5.265	84	42981	18.513	ug/l		99
19) trans-1,2-Dichloroethene	5.777	96	38322	18.454	ug/l		90
20) Diisopropyl ether	6.671	45	128701	19.044	ug/l		95
21) 1,1-Dichloroethane	6.559	63	76278	18.768	ug/l		97
22) cis-1,2-Dichloroethene	7.483	96	44210	17.832	ug/l		99
23) tert-Butyl Alcohol	5.541	59	33641m	95.380	ug/l		
24) Methyl tert-Butyl Ether	5.789	73	121089m	18.900	ug/l		
25) Chloroform	7.959	83	79800	19.164	ug/l		96
26) Cyclohexane	8.253	56	61846	19.921	ug/l	#	97
29) 1,1-Dichloropropene	8.365	75	53180	19.686	ug/l		98
30) 2-Butanone	7.483	43	127794	102.552	ug/l		99
31) 2,2-Dichloropropane	7.483	77	70292	21.316	ug/l		99
32) 1,1,1-Trichloroethane	8.165	97	72219	19.678	ug/l		99
33) Carbon Tetrachloride	8.353	117	63830	20.382	ug/l		95
34) Benzene	8.600	78	169523	18.985	ug/l		96
35) Methacrylonitrile	7.777	41	28991	19.629	ug/l		96
36) 1,2-Dichloroethane	8.665	62	58594	19.732	ug/l		98
37) Trichloroethene	9.353	130	37651	18.691	ug/l		96
38) Methylcyclohexane	9.594	83	54424	18.714	ug/l		99
39) 1,2-Dichloropropane	9.618	63	41464	19.290	ug/l		97
40) Dibromomethane	9.706	93	29647	19.716	ug/l		97
41) Bromodichloromethane	9.888	83	62187	19.291	ug/l		94
42) Vinyl Acetate	6.594	43	444423	95.413	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112124\
Data File : VN084987.D
Acq On : 21 Nov 2024 10:09
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 21 14:42:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED

Reviewed By :John Carlone 11/21/2024
Supervised By :Mahesh Dadoda 11/22/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) Ethyl Acetate	7.553	43	48642	18.577 ug/l	96
44) Isopropyl Acetate	8.688	43	104200	19.652 ug/l	98
45) 1,4-Dioxane	9.694	88	13859	391.521 ug/l #	87
46) Methyl methacrylate	9.682	41	40301	18.914 ug/l	92
47) n-amyl Acetate	12.494	43	74142	18.723 ug/l	99
48) t-1,3-Dichloropropene	10.829	75	59053	18.552 ug/l	98
49) cis-1,3-Dichloropropene	10.312	75	64780	18.989 ug/l	94
50) 1,1,2-Trichloroethane	11.012	97	41107	20.380 ug/l	96
51) Ethyl methacrylate	10.871	69	56812	18.273 ug/l	98
52) 1,3-Dichloropropane	11.159	76	68337	19.519 ug/l	99
53) Dibromochloromethane	11.359	129	46003	19.490 ug/l	97
54) 1,2-Dibromoethane	11.465	107	39883	19.550 ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	147551	96.800 ug/l	99
56) Bromoform	12.576	173	30775	19.451 ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	267148	103.239 ug/l	99
59) 2-Hexanone	11.194	43	202058	106.636 ug/l	100
61) Tetrachloroethene	11.106	164	32719	19.060 ug/l	94
62) Toluene	10.629	91	180288	19.298 ug/l	97
64) Chlorobenzene	11.888	112	107139	18.997 ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	39814	19.209 ug/l	97
66) Ethyl Benzene	11.959	91	178115	18.142 ug/l	93
67) m/p-Xylenes	12.070	106	144624	38.476 ug/l	98
68) o-Xylene	12.400	106	68894	19.001 ug/l	97
69) Styrene	12.412	104	116151	19.105 ug/l	99
70) Isopropylbenzene	12.694	105	170342	18.911 ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	59285	20.307 ug/l	98
72) 1,2,3-Trichloropropane	12.988	75	49314m	19.782 ug/l	
73) Bromobenzene	12.976	156	44563	19.182 ug/l	97
74) n-propylbenzene	13.035	91	203844	19.354 ug/l	99
75) 2-Chlorotoluene	13.123	91	133176	19.416 ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	149473	19.422 ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	20493	20.043 ug/l	98
78) 4-Chlorotoluene	13.223	91	133045	19.198 ug/l	100
79) tert-butylbenzene	13.435	119	122941	19.317 ug/l	100
80) 1,2,4-Trimethylbenzene	13.482	105	152333	19.621 ug/l	99
81) sec-Butylbenzene	13.617	105	168731	19.240 ug/l	100
82) p-Isopropyltoluene	13.729	119	142835	19.384 ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	80688	18.780 ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	77795	18.325 ug/l	99
85) n-Butylbenzene	14.053	91	112759	18.220 ug/l	98
86) Hexachloroethane	14.329	117	30305	20.109 ug/l	98
87) 1,2-Dichlorobenzene	14.106	146	82352	19.451 ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.723	75	11448	20.322 ug/l	97
89) 1,2,4-Trichlorobenzene	15.841	180	36162	17.542 ug/l	97
90) Hexachlorobutadiene	15.500	225	19451	21.601 ug/l	94
91) Naphthalene	15.641	128	106129	16.121 ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	36162	17.542 ug/l	97

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

Sample Results: **VN084987.D**

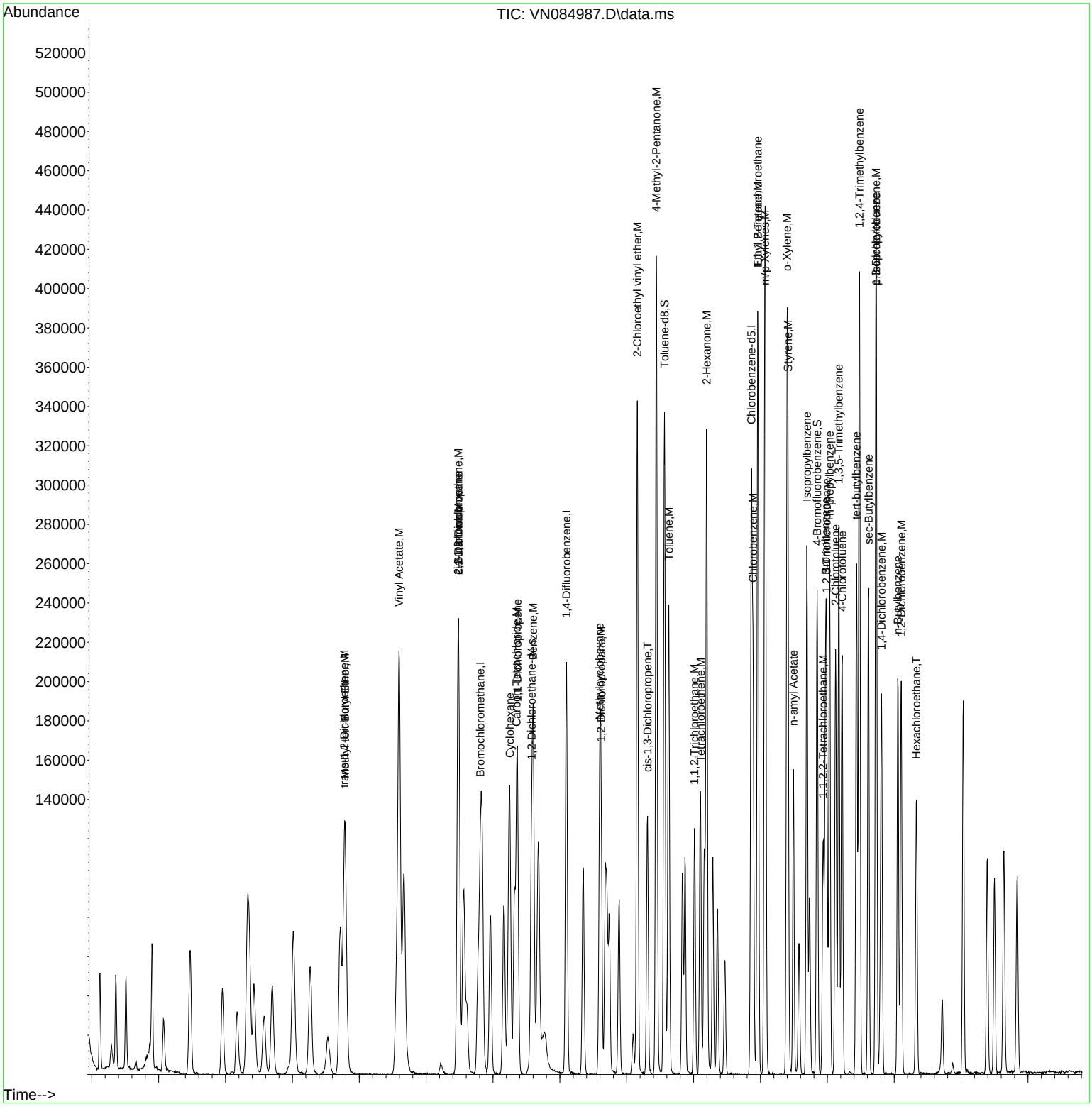
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112124\
Data File : VN084987.D
Acq On : 21 Nov 2024 10:09
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 21 14:42:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED

Reviewed By :John Carlone 11/21/2024
Supervised By :Mahesh Dadoda 11/22/2024



Sample Results: **VN084987.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112124\
Data File : VN084987.D
Acq On : 21 Nov 2024 10:09
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Nov 21 14:42:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 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	109	0.00
2	M	Dichlorodifluoromethane	1.745	1.838	-5.3	108	0.00
3	M	Chloromethane	2.101	1.977	5.9	99	0.00
4	M	Vinyl Chloride	1.951	1.886	3.3	100	0.00
5	M	Bromomethane	0.990	1.015	-2.5	102	0.00
6	M	Chloroethane	1.281	1.220	4.8	99	0.01
7	M	Trichlorofluoromethane	3.168	3.189	-0.7	103	0.00
8	T	Diethyl Ether	1.130	1.083	4.2	101	0.00
9		1,1,2-Trichlorotrifluoroeth	1.790	1.847	-3.2	104	0.00
10	M	1,1-Dichloroethene	1.748	1.663	4.9	98	0.00
11		Methyl Iodide	2.403	2.347	2.3	102	0.00
12		Methyl Acetate	2.725	2.331	14.5	94	0.00
13	M	Acrolein	0.336	0.358	-6.5	111	0.00
14	M	Acrylonitrile	0.892	0.872	2.2	105	0.00
15	M	Acetone	0.229	0.226	1.3	105	0.00
16	M	Carbon Disulfide	5.144	4.598	10.6	93	0.00
17		Allyl chloride	2.979	2.388	19.8	84	0.00
18	M	Methylene Chloride	2.049	1.896	7.5	93	0.00
19	M	trans-1,2-Dichloroethene	1.833	1.691	7.7	97	0.00
20	T	Diisopropyl ether	5.964	5.679	4.8	98	0.00
21	M	1,1-Dichloroethane	3.587	3.366	6.2	96	0.00
22	M	cis-1,2-Dichloroethene	2.188	1.951	10.8	95	0.00
23	M	tert-Butyl Alcohol	0.311	0.297	4.5	104	0.00
24	M	Methyl tert-Butyl Ether	5.654	5.343	5.5	100	0.00
25	M	Chloroform	3.675	3.521	4.2	98	0.00
26		Cyclohexane	2.740	2.729	0.4	105	0.00
27	s	1,2-Dichloroethane-d4	2.412	2.441	-1.2	107	0.00
28	I	1,4-Difluorobenzene	1.000	1.000	0.0	104	0.00
29		1,1-Dichloropropene	0.452	0.445	1.5	99	0.00
30	M	2-Butanone	0.208	0.214	-2.9	108	0.00
31		2,2-Dichloropropane	0.552	0.588	-6.5	105	0.00
32	M	1,1,1-Trichloroethane	0.614	0.604	1.6	97	0.00
33	M	Carbon Tetrachloride	0.524	0.534	-1.9	104	0.00
34	M	Benzene	1.494	1.418	5.1	97	0.00
35		Methacrylonitrile	0.247	0.242	2.0	103	0.00
36	M	1,2-Dichloroethane	0.497	0.490	1.4	98	0.00
37	M	Trichloroethene	0.337	0.315	6.5	94	0.00
38		Methylcyclohexane	0.486	0.455	6.4	99	0.00
39	M	1,2-Dichloropropane	0.360	0.347	3.6	97	0.00
40		Dibromomethane	0.252	0.248	1.6	99	0.00
41	M	Bromodichloromethane	0.539	0.520	3.5	99	0.00
42	M	Vinyl Acetate	0.779	0.743	4.6	99	0.00
43		Ethyl Acetate	0.438	0.407	7.1	99	0.00
44		Isopropyl Acetate	0.887	0.871	1.8	108	0.00
45	T	1,4-Dioxane	0.006	0.006	0.0	101	0.00
46		Methyl methacrylate	0.356	0.337	5.3	101	0.00
47		n-amyl Acetate	0.662	0.620	6.3	97	0.00
48	M	t-1,3-Dichloropropene	0.532	0.494	7.1	97	0.00

Sample Results: **VN084987.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112124\
Data File : VN084987.D
Acq On : 21 Nov 2024 10:09
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Nov 21 14:42:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 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	0.571	0.542	5.1	97	0.00
50	M	1,1,2-Trichloroethane	0.337	0.344	-2.1	101	0.00
51		Ethyl methacrylate	0.520	0.475	8.7	98	0.00
52		1,3-Dichloropropane	0.586	0.572	2.4	98	0.00
53	M	Dibromochloromethane	0.395	0.385	2.5	100	0.00
54	M	1,2-Dibromoethane	0.341	0.334	2.1	97	0.00
55	M	2-Chloroethyl vinyl ether	0.255	0.247	3.1	97	0.00
56	M	Bromoform	0.265	0.257	3.0	102	0.00
57	I	Chlorobenzene-d5	1.000	1.000	0.0	106	0.00
58	M	4-Methyl-2-Pentanone	0.473	0.489	-3.4	106	0.00
59	M	2-Hexanone	0.347	0.370	-6.6	111	0.00
60	S	4-Bromofluorobenzene	0.517	0.540	-4.4	114	0.00
61	M	Tetrachloroethene	0.314	0.299	4.8	96	0.00
62	M	Toluene	1.709	1.649	3.5	99	0.00
63	S	Toluene-d8	1.420	1.421	-0.1	105	0.00
64	M	Chlorobenzene	1.032	0.980	5.0	97	0.00
65		1,1,1,2-Tetrachloroethane	0.379	0.364	4.0	97	0.00
66	M	Ethyl Benzene	1.796	1.629	9.3	95	0.00
67	M	m/p-Xylenes	0.687	0.661	3.8	99	0.00
68	M	o-Xylene	0.663	0.630	5.0	97	0.00
69	M	Styrene	1.112	1.062	4.5	100	0.00
70		Isopropylbenzene	1.647	1.558	5.4	99	0.00
71	M	1,1,2,2-Tetrachloroethane	0.534	0.542	-1.5	102	0.00
72		1,2,3-Trichloropropane	0.456	0.451	1.1	91	0.00
73		Bromobenzene	0.425	0.408	4.0	98	0.00
74		n-propylbenzene	1.926	1.864	3.2	102	0.00
75		2-Chlorotoluene	1.255	1.218	2.9	101	0.00
76		1,3,5-Trimethylbenzene	1.408	1.367	2.9	101	0.00
77		t-1,4-Dichloro-2-butene	0.187	0.187	0.0	104	0.00
78		4-Chlorotoluene	1.268	1.217	4.0	100	0.00
79		tert-butylbenzene	1.164	1.124	3.4	104	0.00
80		1,2,4-Trimethylbenzene	1.420	1.393	1.9	102	0.00
81		sec-Butylbenzene	1.604	1.543	3.8	102	0.00
82		p-Isopropyltoluene	1.348	1.306	3.1	104	0.00
83	M	1,3-Dichlorobenzene	0.786	0.738	6.1	97	0.00
84	M	1,4-Dichlorobenzene	0.776	0.711	8.4	97	0.00
85		n-Butylbenzene	1.132	1.031	8.9	103	0.00
86	T	Hexachloroethane	0.276	0.277	-0.4	104	0.00
87	M	1,2-Dichlorobenzene	0.774	0.753	2.7	98	0.00
88		1,2-Dibromo-3-Chloropropane	0.103	0.105	-1.9	103	0.00
89		1,2,4-Trichlorobenzene	0.377	0.331	12.2	92	0.00
90		Hexachlorobutadiene	0.165	0.178	-7.9	112	0.00
91	M	Naphthalene	1.204	0.971	19.4	92	0.00
92		1,2,3-Trichlorobenzene	0.377	0.331	12.2	92	0.00

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

Sample Results: **VN084987.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112124\
Data File : VN084987.D
Acq On : 21 Nov 2024 10:09
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Nov 21 14:42:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 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	109	0.00
2	M	Dichlorodifluoromethane	20.000	21.065	-5.3	108	0.00
3	M	Chloromethane	20.000	18.823	5.9	99	0.00
4	M	Vinyl Chloride	20.000	19.332	3.3	100	0.00
5	M	Bromomethane	20.000	20.510	-2.6	102	0.00
6	M	Chloroethane	20.000	19.058	4.7	99	0.01
7	M	Trichlorofluoromethane	20.000	20.134	-0.7	103	0.00
8	T	Diethyl Ether	20.000	19.162	4.2	101	0.00
9		1,1,2-Trichlorotrifluoroeth	20.000	20.635	-3.2	104	0.00
10	M	1,1-Dichloroethene	20.000	19.024	4.9	98	0.00
11		Methyl Iodide	20.000	19.533	2.3	102	0.00
12		Methyl Acetate	20.000	17.106	14.5	94	0.00
13	M	Acrolein	100.000	106.654	-6.7	111	0.00
14	M	Acrylonitrile	100.000	97.839	2.2	105	0.00
15	M	Acetone	100.000	98.698	1.3	105	0.00
16	M	Carbon Disulfide	20.000	17.876	10.6	93	0.00
17		Allyl chloride	20.000	16.033	19.8	84	0.00
18	M	Methylene Chloride	20.000	18.513	7.4	93	0.00
19	M	trans-1,2-Dichloroethene	20.000	18.454	7.7	97	0.00
20	T	Diisopropyl ether	20.000	19.044	4.8	98	0.00
21	M	1,1-Dichloroethane	20.000	18.768	6.2	96	0.00
22	M	cis-1,2-Dichloroethene	20.000	17.832	10.8	95	0.00
23	M	tert-Butyl Alcohol	100.000	95.380	4.6	104	0.00
24	M	Methyl tert-Butyl Ether	20.000	18.900	5.5	100	0.00
25	M	Chloroform	20.000	19.164	4.2	98	0.00
26		Cyclohexane	20.000	19.921	0.4	105	0.00
27	s	1,2-Dichloroethane-d4	30.000	30.357	-1.2	107	0.00
28	I	1,4-Difluorobenzene	30.000	30.000	0.0	104	0.00
29		1,1-Dichloropropene	20.000	19.686	1.6	99	0.00
30	M	2-Butanone	100.000	102.552	-2.6	108	0.00
31		2,2-Dichloropropane	20.000	21.316	-6.6	105	0.00
32	M	1,1,1-Trichloroethane	20.000	19.678	1.6	97	0.00
33	M	Carbon Tetrachloride	20.000	20.382	-1.9	104	0.00
34	M	Benzene	20.000	18.985	5.1	97	0.00
35		Methacrylonitrile	20.000	19.629	1.9	103	0.00
36	M	1,2-Dichloroethane	20.000	19.732	1.3	98	0.00
37	M	Trichloroethene	20.000	18.691	6.5	94	0.00
38		Methylcyclohexane	20.000	18.714	6.4	99	0.00
39	M	1,2-Dichloropropane	20.000	19.290	3.6	97	0.00
40		Dibromomethane	20.000	19.716	1.4	99	0.00
41	M	Bromodichloromethane	20.000	19.291	3.5	99	0.00
42	M	Vinyl Acetate	100.000	95.413	4.6	99	0.00
43		Ethyl Acetate	20.000	18.577	7.1	99	0.00
44		Isopropyl Acetate	20.000	19.652	1.7	108	0.00
45	T	1,4-Dioxane	400.000	391.521	2.1	101	0.00
46		Methyl methacrylate	20.000	18.914	5.4	101	0.00
47		n-amyl Acetate	20.000	18.723	6.4	97	0.00
48	M	t-1,3-Dichloropropene	20.000	18.552	7.2	97	0.00

Sample Results: **VN084987.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112124\
Data File : VN084987.D
Acq On : 21 Nov 2024 10:09
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Nov 21 14:42:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 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	18.989	5.1	97	0.00
50	M	1,1,2-Trichloroethane	20.000	20.380	-1.9	101	0.00
51		Ethyl methacrylate	20.000	18.273	8.6	98	0.00
52		1,3-Dichloropropane	20.000	19.519	2.4	98	0.00
53	M	Dibromochloromethane	20.000	19.490	2.6	100	0.00
54	M	1,2-Dibromoethane	20.000	19.550	2.2	97	0.00
55	M	2-Chloroethyl vinyl ether	100.000	96.800	3.2	97	0.00
56	M	Bromoform	20.000	19.451	2.7	102	0.00
57	I	Chlorobenzene-d5	30.000	30.000	0.0	106	0.00
58	M	4-Methyl-2-Pentanone	100.000	103.239	-3.2	106	0.00
59	M	2-Hexanone	100.000	106.636	-6.6	111	0.00
60	S	4-Bromofluorobenzene	30.000	31.340	-4.5	114	0.00
61	M	Tetrachloroethene	20.000	19.060	4.7	96	0.00
62	M	Toluene	20.000	19.298	3.5	99	0.00
63	S	Toluene-d8	30.000	30.010	-0.0	105	0.00
64	M	Chlorobenzene	20.000	18.997	5.0	97	0.00
65		1,1,1,2-Tetrachloroethane	20.000	19.209	4.0	97	0.00
66	M	Ethyl Benzene	20.000	18.142	9.3	95	0.00
67	M	m/p-Xylenes	40.000	38.476	3.8	99	0.00
68	M	o-Xylene	20.000	19.001	5.0	97	0.00
69	M	Styrene	20.000	19.105	4.5	100	0.00
70		Isopropylbenzene	20.000	18.911	5.4	99	0.00
71	M	1,1,2,2-Tetrachloroethane	20.000	20.307	-1.5	102	0.00
72		1,2,3-Trichloropropane	20.000	19.782	1.1	91	0.00
73		Bromobenzene	20.000	19.182	4.1	98	0.00
74		n-propylbenzene	20.000	19.354	3.2	102	0.00
75		2-Chlorotoluene	20.000	19.416	2.9	101	0.00
76		1,3,5-Trimethylbenzene	20.000	19.422	2.9	101	0.00
77		t-1,4-Dichloro-2-butene	20.000	20.043	-0.2	104	0.00
78		4-Chlorotoluene	20.000	19.198	4.0	100	0.00
79		tert-butylbenzene	20.000	19.317	3.4	104	0.00
80		1,2,4-Trimethylbenzene	20.000	19.621	1.9	102	0.00
81		sec-Butylbenzene	20.000	19.240	3.8	102	0.00
82		p-Isopropyltoluene	20.000	19.384	3.1	104	0.00
83	M	1,3-Dichlorobenzene	20.000	18.780	6.1	97	0.00
84	M	1,4-Dichlorobenzene	20.000	18.325	8.4	97	0.00
85		n-Butylbenzene	20.000	18.220	8.9	103	0.00
86	T	Hexachloroethane	20.000	20.109	-0.5	104	0.00
87	M	1,2-Dichlorobenzene	20.000	19.451	2.7	98	0.00
88		1,2-Dibromo-3-Chloropropane	20.000	20.322	-1.6	103	0.00
89		1,2,4-Trichlorobenzene	20.000	17.542	12.3	92	0.00
90		Hexachlorobutadiene	20.000	21.601	-8.0	112	0.00
91	M	Naphthalene	20.000	16.121	19.4	92	0.00
92		1,2,3-Trichlorobenzene	20.000	17.542	12.3	92	0.00

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

QC SAMPLE DATA

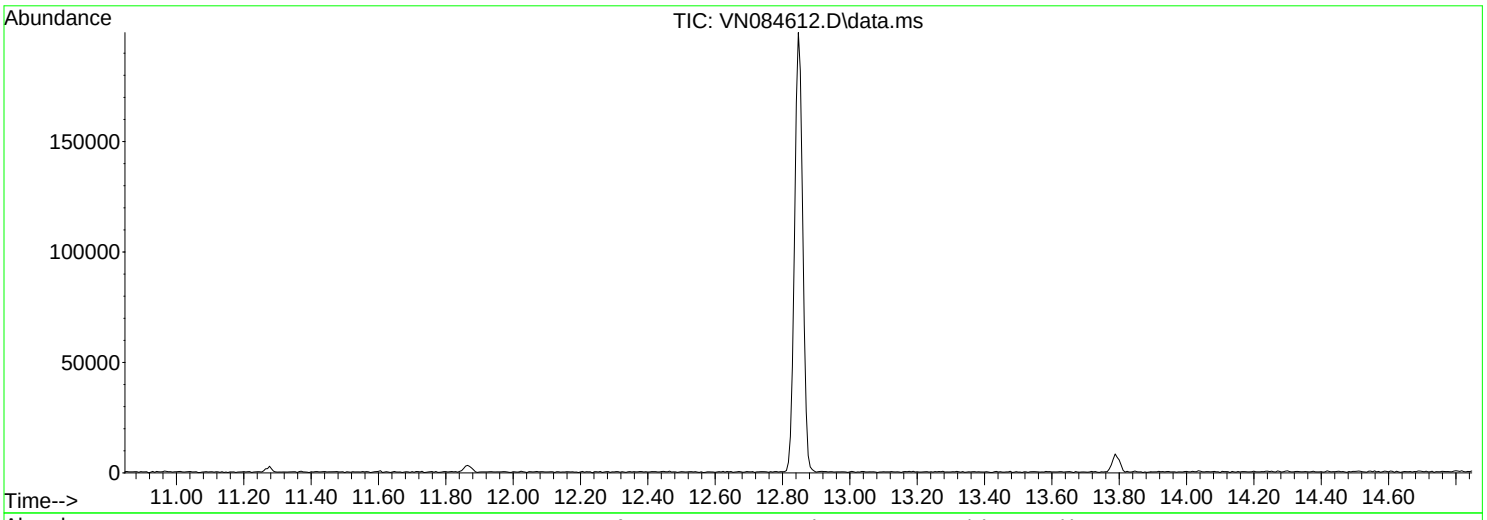
Sample Results: **VN084612.D**

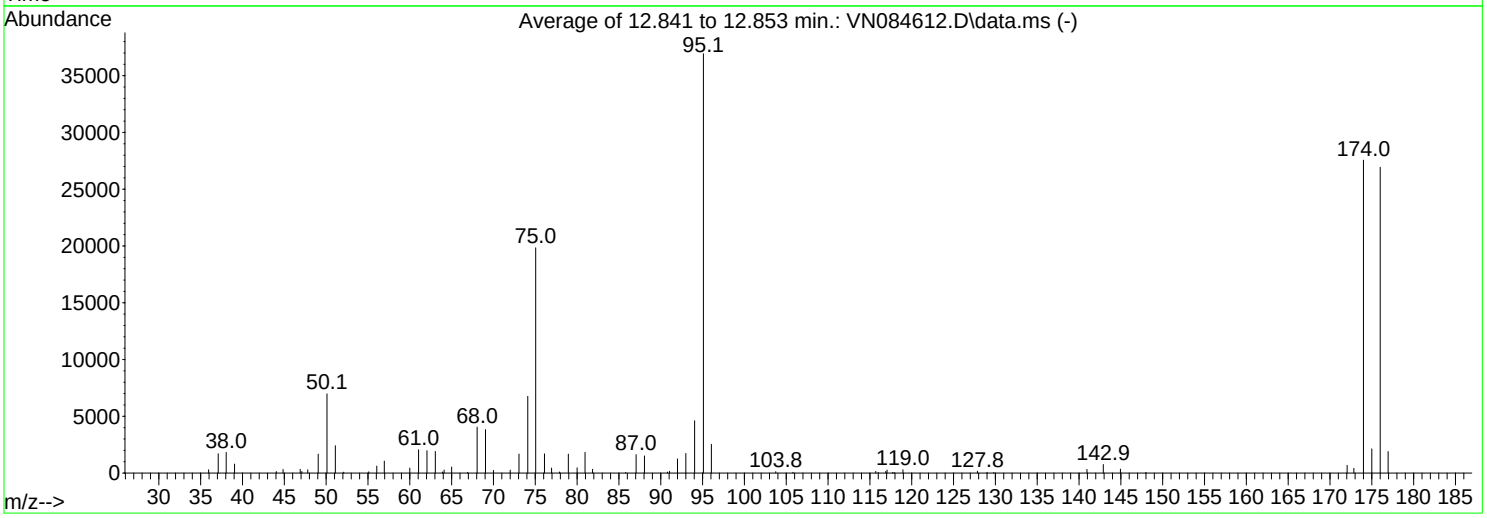
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084612.D
Acq On : 31 Oct 2024 10:56
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT3.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Fri Nov 01 02:38:04 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	18.9	6981	PASS
75	95	30	60	53.7	19840	PASS
95	95	100	100	100.0	36931	PASS
96	95	5	9	6.9	2535	PASS
173	174	0.00	2	1.5	422	PASS
174	95	50	100	74.6	27560	PASS
175	174	5	9	7.7	2131	PASS
176	174	95	101	97.7	26936	PASS
177	176	5	9	7.0	1894	PASS

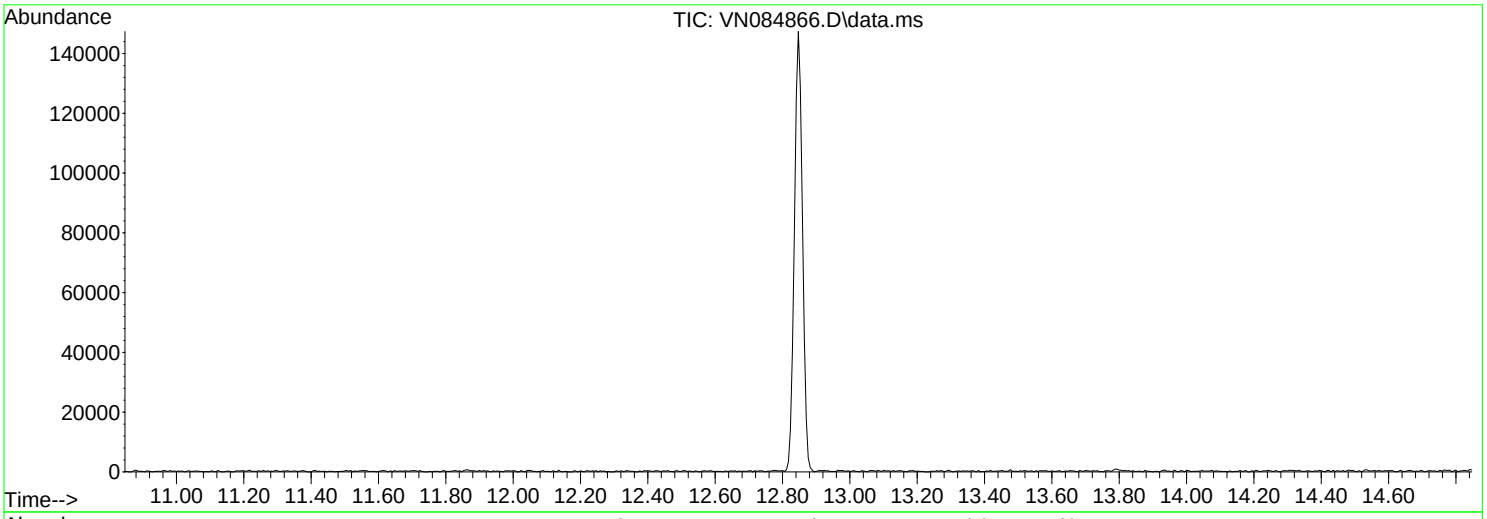
Sample Results: **VN084866.D**

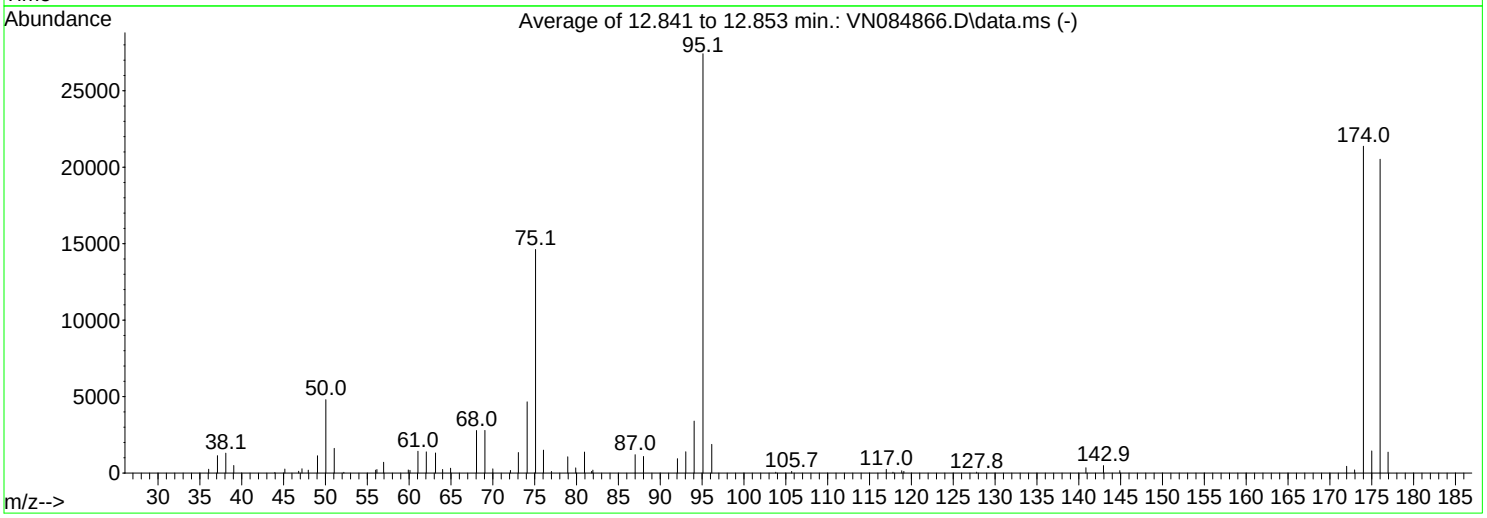
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111524\
Data File : VN084866.D
Acq On : 15 Nov 2024 13:01
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT3.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Fri Nov 01 02:38:04 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	17.5	4798	PASS
75	95	30	60	53.3	14620	PASS
95	95	100	100	100.0	27421	PASS
96	95	5	9	6.8	1877	PASS
173	174	0.00	2	1.0	208	PASS
174	95	50	100	77.9	21371	PASS
175	174	5	9	6.8	1446	PASS
176	174	95	101	96.0	20520	PASS
177	176	5	9	6.7	1368	PASS

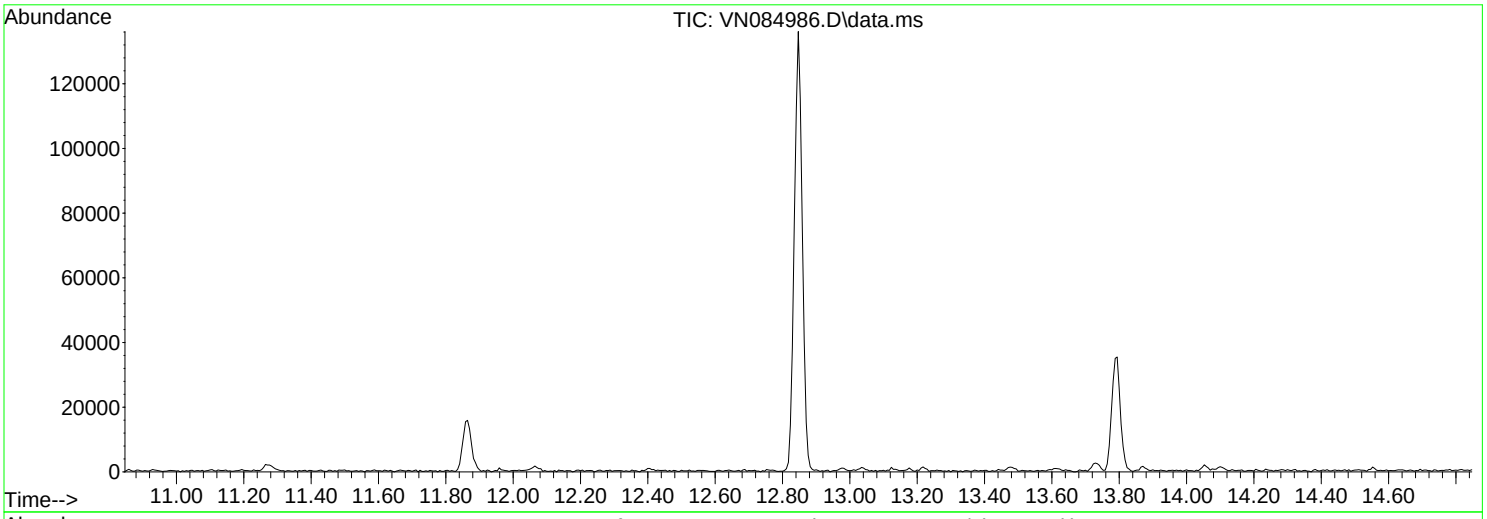
Sample Results: **VN084986.D**

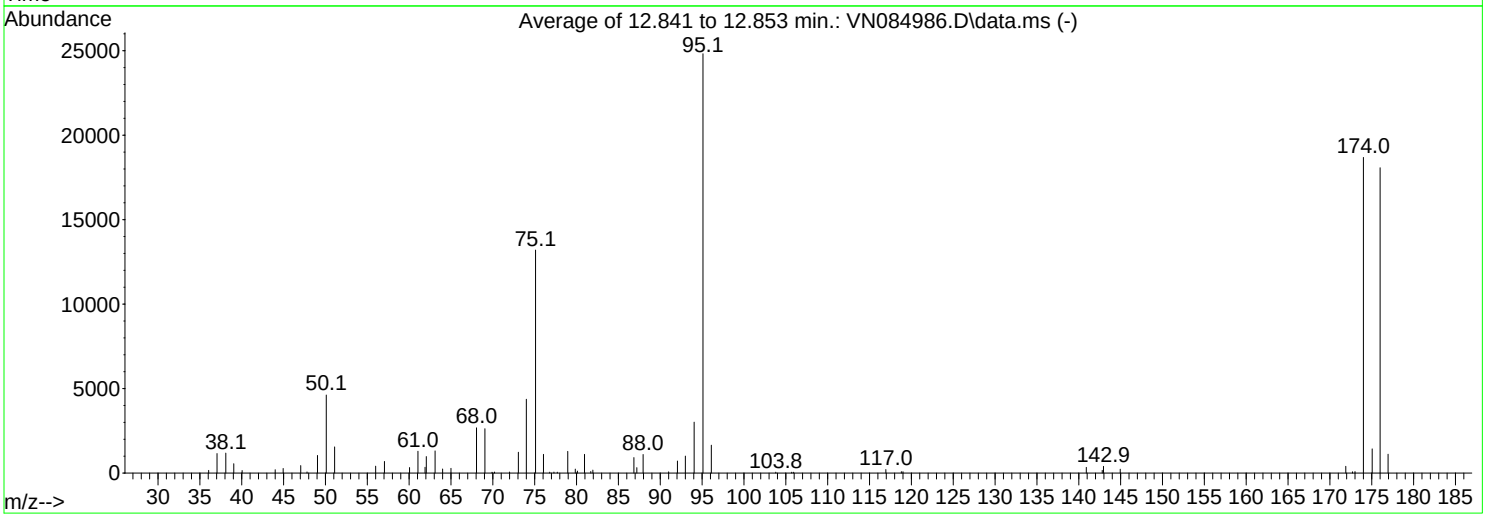
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112124\
Data File : VN084986.D
Acq On : 21 Nov 2024 09:33
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT3.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Fri Nov 01 02:38:04 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	18.6	4621	PASS
75	95	30	60	53.2	13200	PASS
95	95	100	100	100.0	24821	PASS
96	95	5	9	6.7	1651	PASS
173	174	0.00	2	0.5	91	PASS
174	95	50	100	75.3	18685	PASS
175	174	5	9	7.7	1431	PASS
176	174	95	101	96.7	18072	PASS
177	176	5	9	6.2	1116	PASS

Raw Data: **VN084870.D**

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

Report of Analysis

Client:	Tully Environmental, Inc		Date Collected:		
Project:	Transfer Station-SPDES		Date Received:		
Client Sample ID:	VN1115WBL01		SDG No.:	P4853	
Lab Sample ID:	VN1115WBL01		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5 Units: mL		Final Vol:	5000	uL
Soil Aliquot Vol:	uL		Test:	VOC-BTEX	
GC Column:	RXI-624 ID : 0.25		Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084870.D	1		11/15/24 15:23	VN111524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	0.69	U	0.69	5.00	ug/L
108-88-3	Toluene	0.72	U	0.72	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
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.4		91 - 110	98%	SPK: 30
2037-26-5	Toluene-d8	28.4		91 - 112	95%	SPK: 30
460-00-4	4-Bromofluorobenzene	23.9		63 - 112	80%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	20900	7.806			
540-36-3	1,4-Difluorobenzene	103000	9.1			
3114-55-4	Chlorobenzene-d5	89000	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

Sample Results: **VN084870.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111524\
Data File : VN084870.D
Acq On : 15 Nov 2024 15:23
Operator : JC\MD
Sample : VN1115WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBL01

Quant Time: Nov 15 22:25:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.806	128	20903	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	102633	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	89042	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	49454	29.429	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 98.100%			
60) 4-Bromofluorobenzene	12.847	95	36599	23.872	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 79.567%			
63) Toluene-d8	10.565	98	119543	28.359	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 94.533%			
Target Compounds						Qvalue

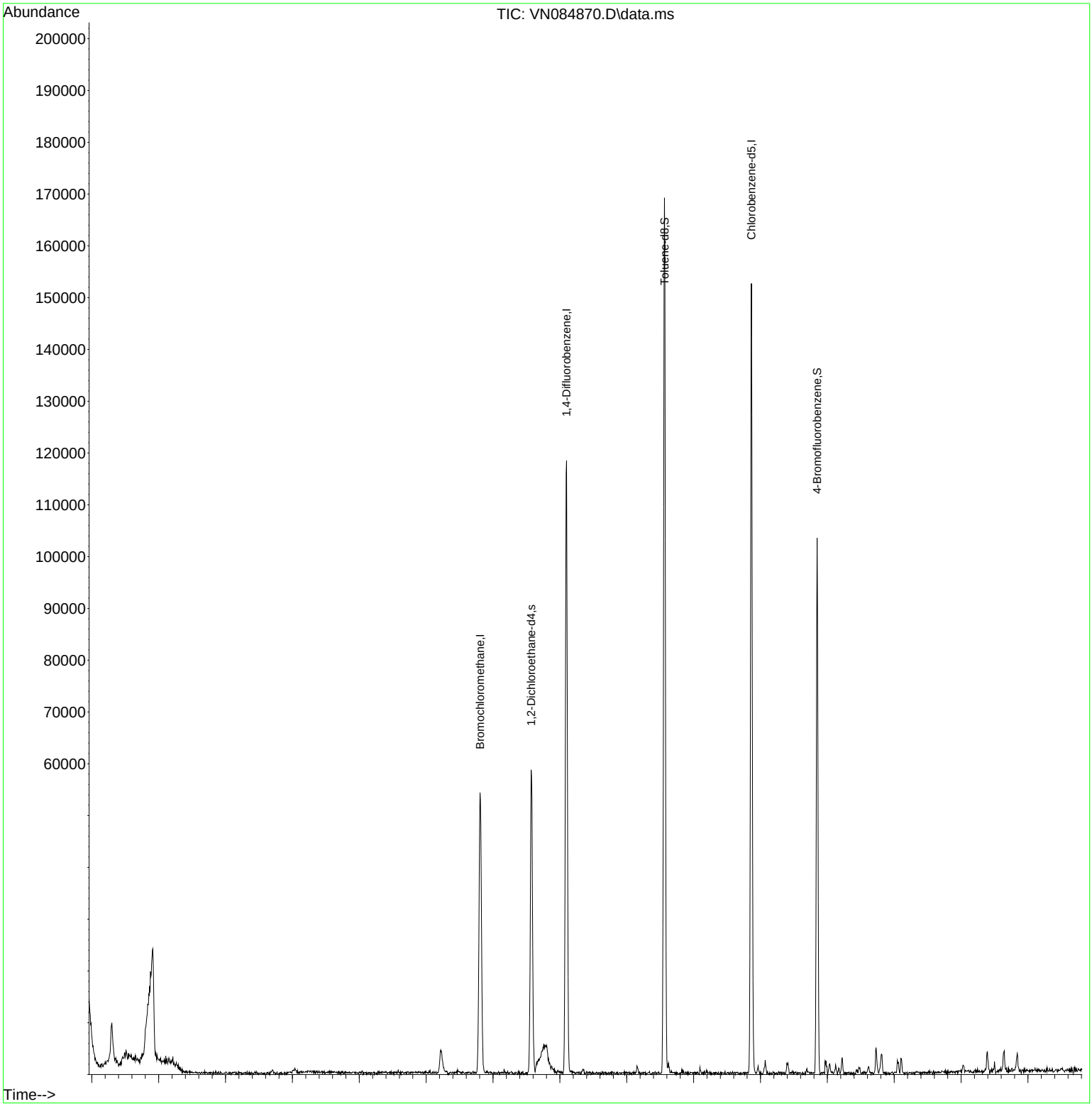
(#) = qualifier out of range (m) = manual integration (+) = signals summed

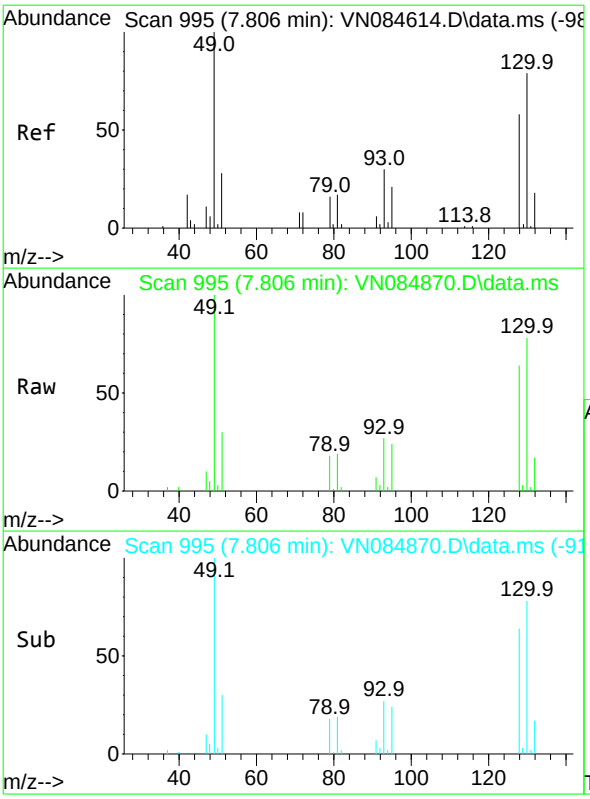
Sample Results: **VN084870.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111524\
Data File : VN084870.D
Acq On : 15 Nov 2024 15:23
Operator : JC\MD
Sample : VN1115WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBL01

Quant Time: Nov 15 22:25:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration



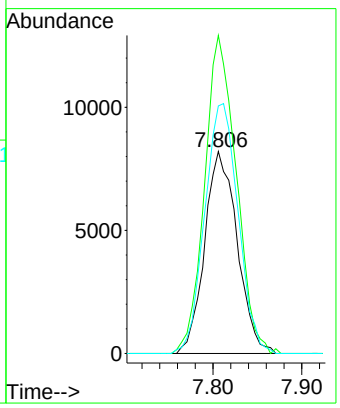


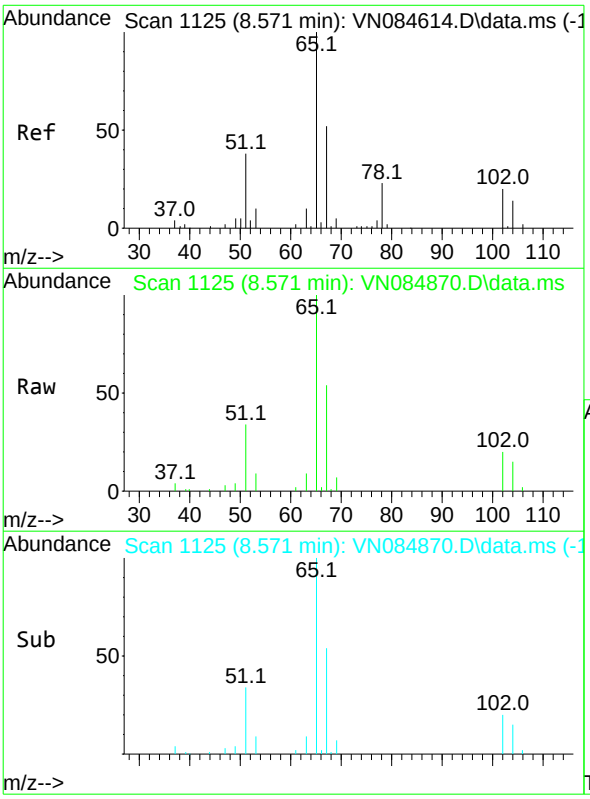
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.806 min Scan# 99
Delta R.T. 0.000 min
Lab File: VN084870.D
Acq: 15 Nov 2024 15:23

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBL01

Tgt Ion:128 Resp: 20903

Ion	Ratio	Lower	Upper
128	100		
49	152.5	0.0	427.0
130	127.0	0.0	322.2

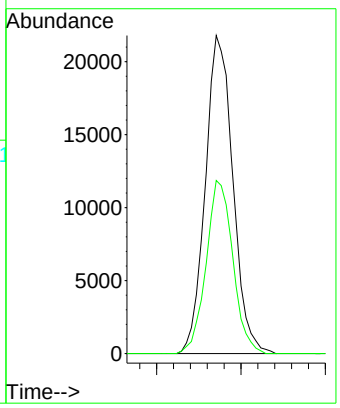


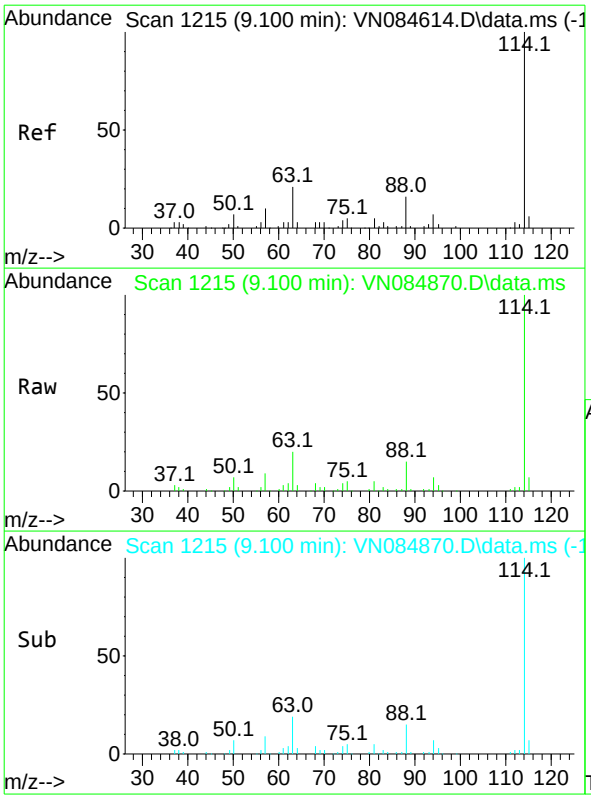


#27
1,2-Dichloroethane-d4
Concen: 29.429 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.000 min
Lab File: VN084870.D
Acq: 15 Nov 2024 15:23

Tgt Ion: 65 Resp: 49454

Ion	Ratio	Lower	Upper
65	100		
67	52.8	40.7	61.1



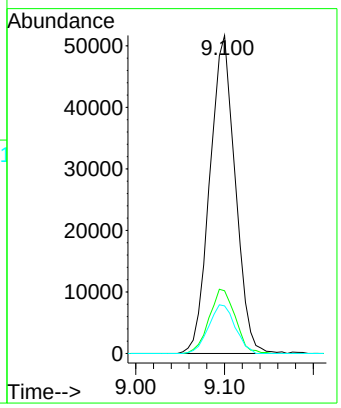


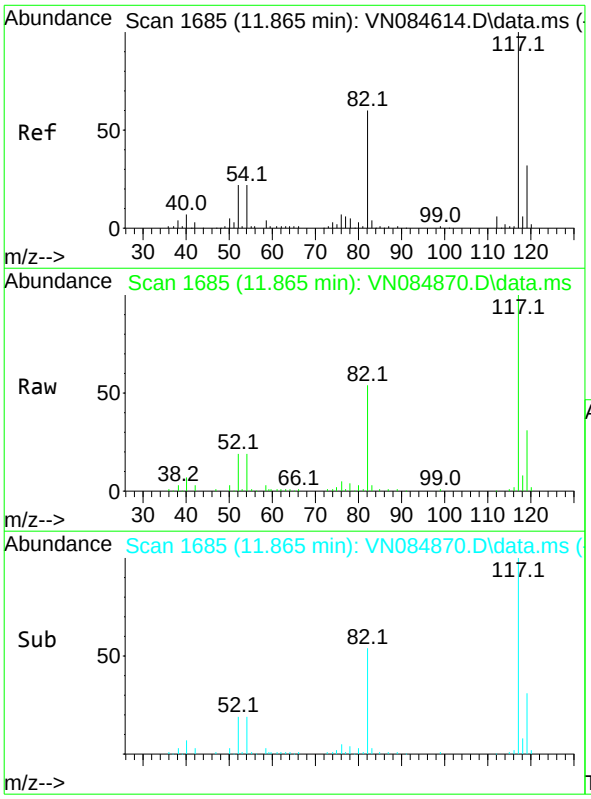
#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. -0.000 min
Lab File: VN084870.D
Acq: 15 Nov 2024 15:23

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBL01

Tgt Ion:114 Resp: 102633

Ion	Ratio	Lower	Upper
114	100		
63	20.7	16.8	25.2
88	16.0	12.9	19.3

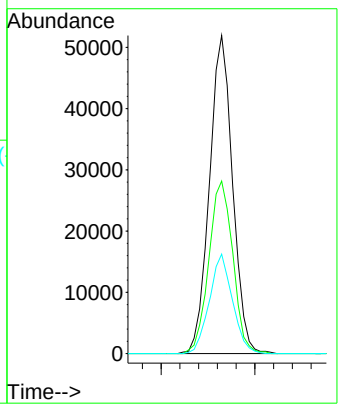


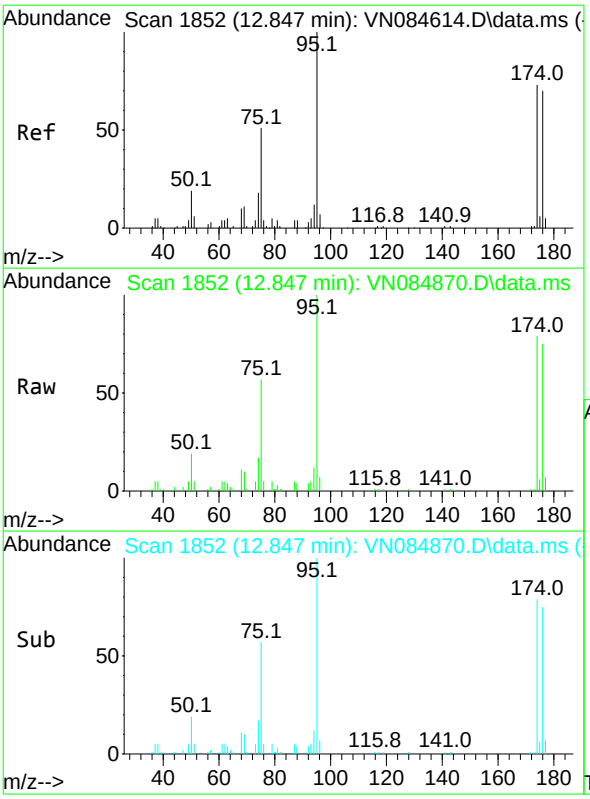


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN084870.D
Acq: 15 Nov 2024 15:23

Tgt Ion:117 Resp: 89042

Ion	Ratio	Lower	Upper
117	100		
82	56.2	45.5	68.3
119	31.2	25.3	37.9



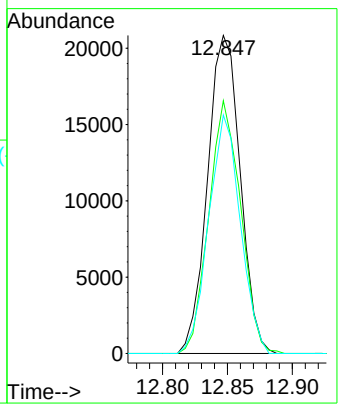


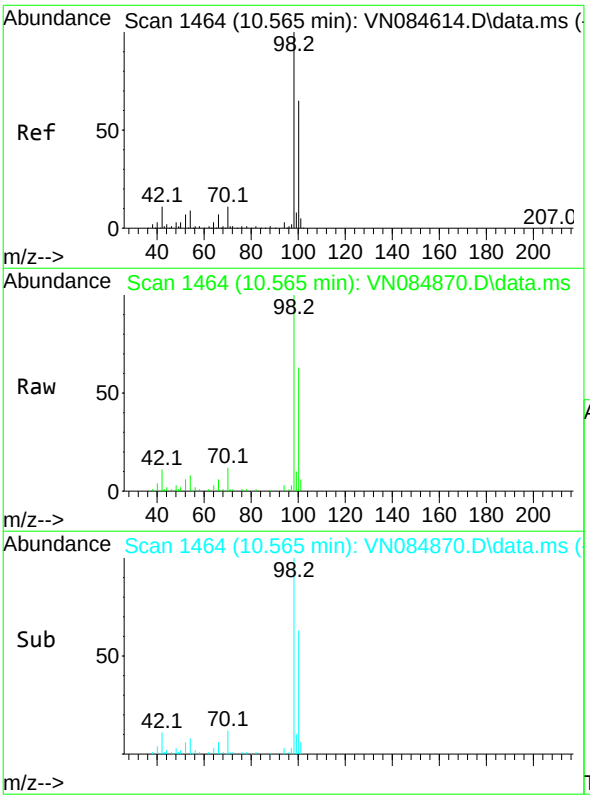
#60
4-Bromofluorobenzene
Concen: 23.872 ug/l
RT: 12.847 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN084870.D
Acq: 15 Nov 2024 15:23

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBL01

Tgt Ion: 95 Resp: 36599

Ion	Ratio	Lower	Upper
95	100		
174	77.3	59.6	89.4
176	72.4	58.6	88.0

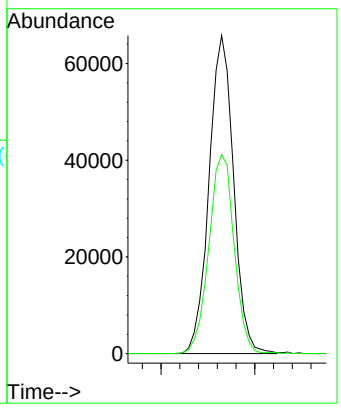




#63
Toluene-d8
Concen: 28.359 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084870.D
Acq: 15 Nov 2024 15:23

Tgt Ion: 98 Resp: 119543

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.2	78.2



Raw Data: **VN084990.D**

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

Report of Analysis

Client:	Tully Environmental, Inc		Date Collected:		
Project:	Transfer Station-SPDES		Date Received:		
Client Sample ID:	VN1121WBL01		SDG No.:	P4853	
Lab Sample ID:	VN1121WBL01		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5 Units: mL		Final Vol:	5000	uL
Soil Aliquot Vol:	uL		Test:	VOC-BTEX	
GC Column:	RXI-624 ID : 0.25		Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084990.D	1		11/21/24 11:43	VN112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	0.69	U	0.69	5.00	ug/L
108-88-3	Toluene	0.72	U	0.72	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
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	31.0		91 - 110	103%	SPK: 30
2037-26-5	Toluene-d8	28.0		91 - 112	93%	SPK: 30
460-00-4	4-Bromofluorobenzene	24.4		63 - 112	81%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	27000	7.812			
540-36-3	1,4-Difluorobenzene	144000	9.1			
3114-55-4	Chlorobenzene-d5	124000	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\VN112124\
Data File : VN084990.D
Acq On : 21 Nov 2024 11:43
Operator : JC\MD
Sample : VN1121WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBL01

Quant Time: Nov 21 14:43:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

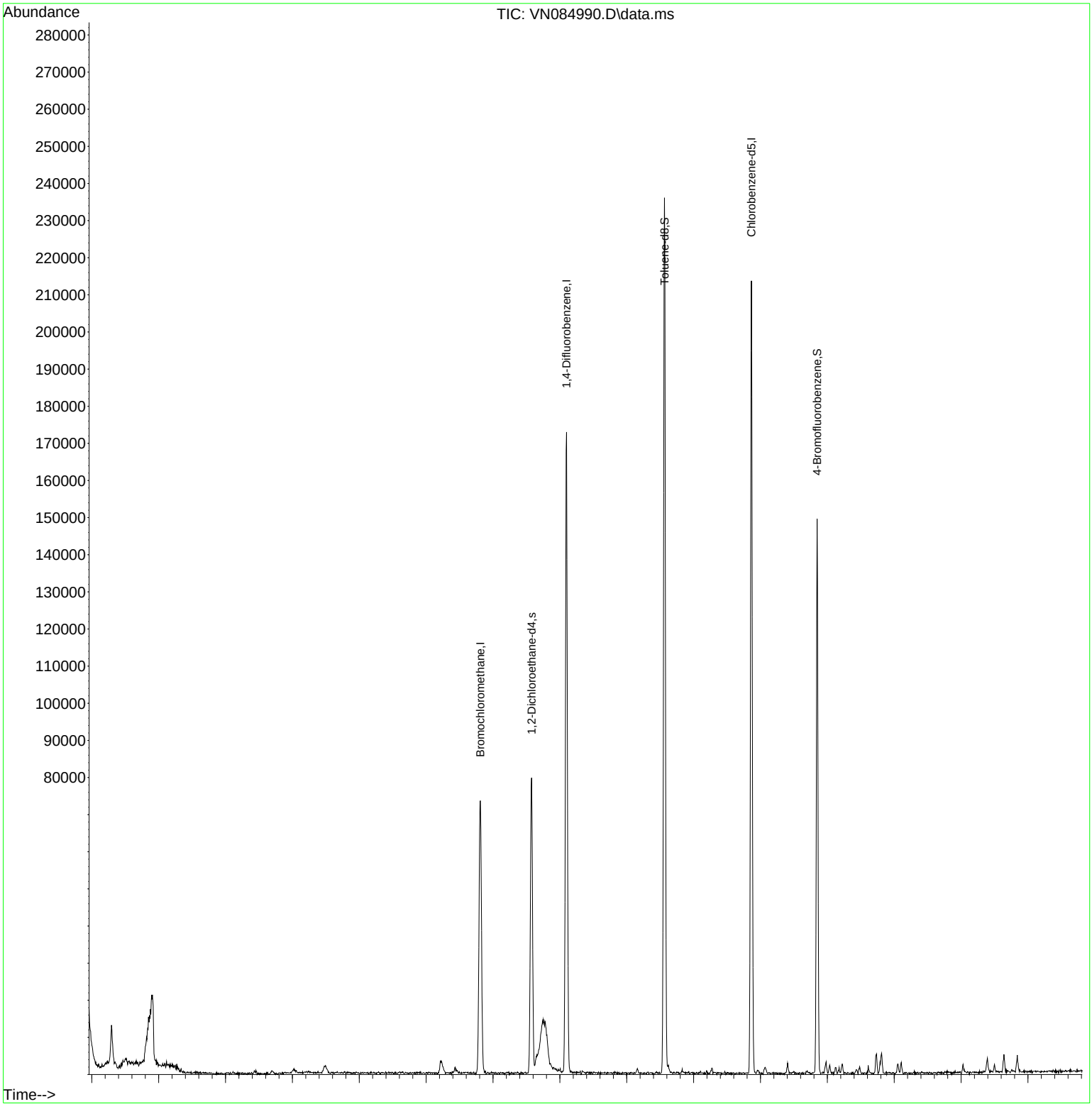
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.812	128	26986	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	144485	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	123949	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	67156	30.954	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.167%			
60) 4-Bromofluorobenzene	12.847	95	52082	24.404	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 81.333%			
63) Toluene-d8	10.565	98	164490	28.033	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 93.433%			
Target Compounds						Qvalue

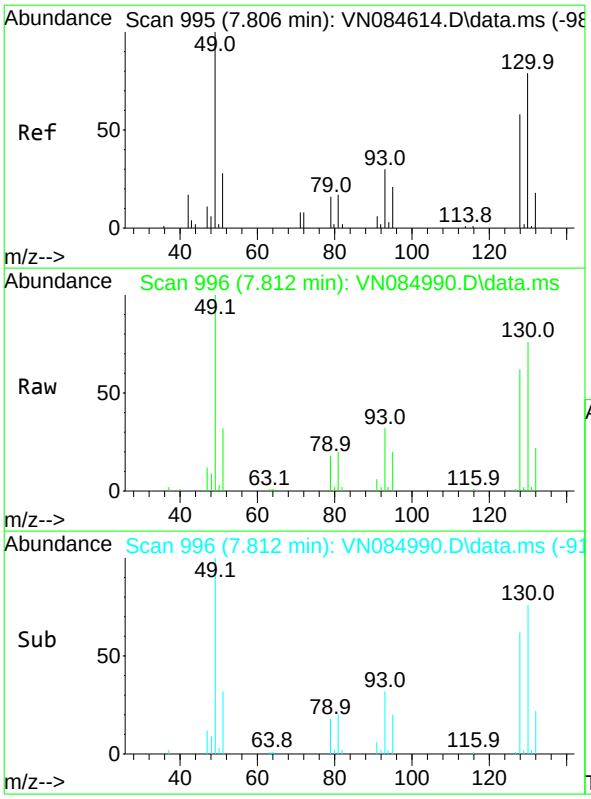
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112124\
Data File : VN084990.D
Acq On : 21 Nov 2024 11:43
Operator : JC\MD
Sample : VN1121WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBL01

Quant Time: Nov 21 14:43:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration



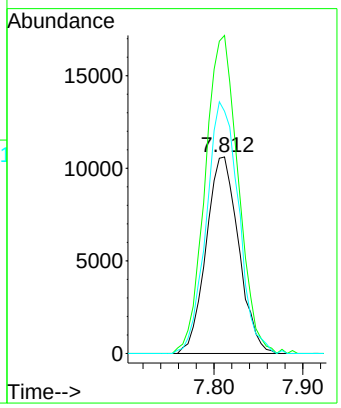


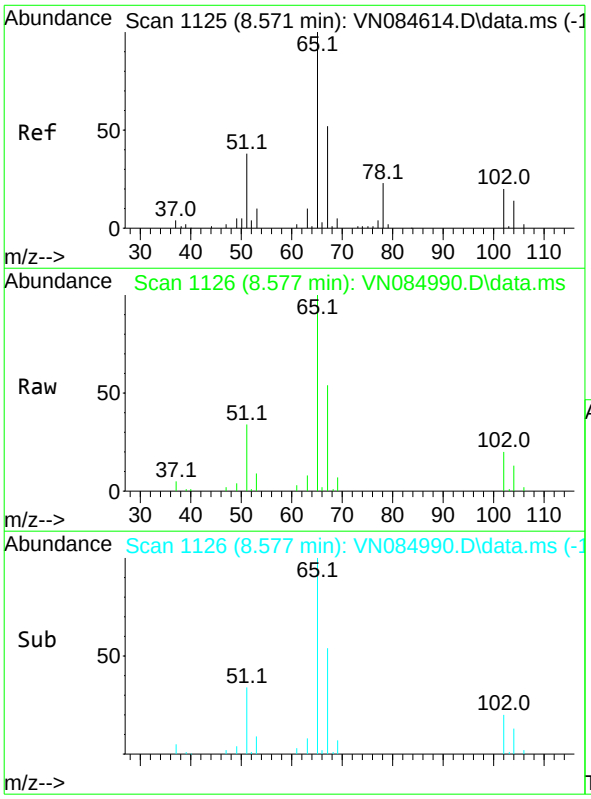
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 99
Delta R.T. 0.006 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBL01

Tgt Ion:128 Resp: 26986

Ion	Ratio	Lower	Upper
128	100		
49	164.2	0.0	427.0
130	127.4	0.0	322.2

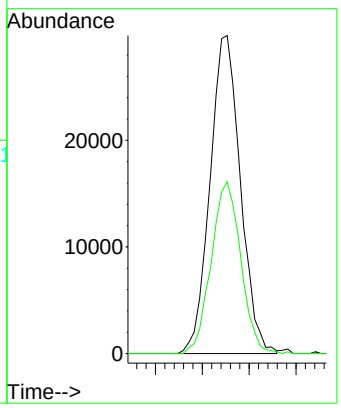


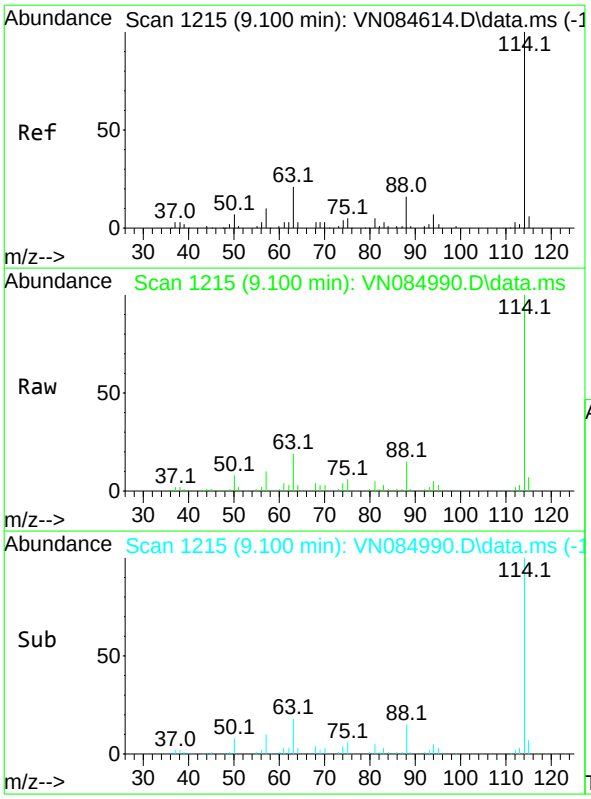


#27
1,2-Dichloroethane-d4
Concen: 30.954 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

Tgt Ion: 65 Resp: 67156

Ion	Ratio	Lower	Upper
65	100		
67	52.5	40.7	61.1



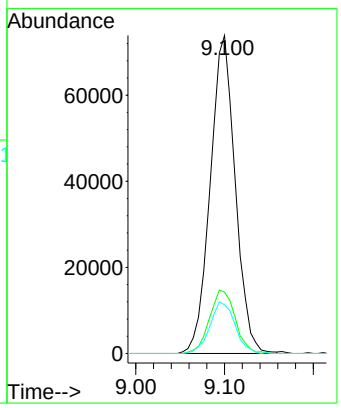


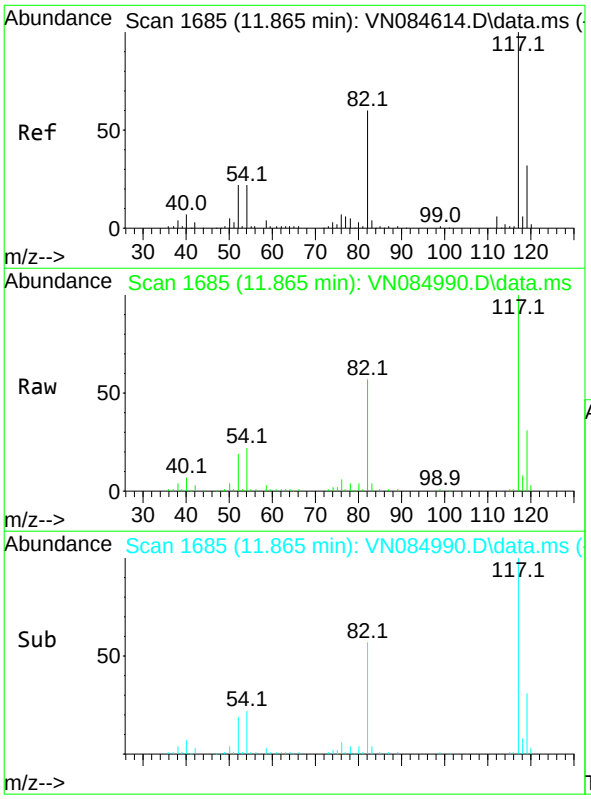
#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. -0.000 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBL01

Tgt Ion:114 Resp: 144485

Ion	Ratio	Lower	Upper
114	100		
63	20.6	16.8	25.2
88	16.3	12.9	19.3

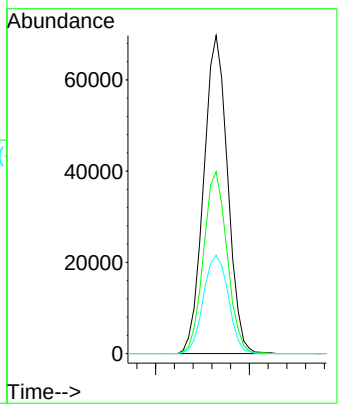


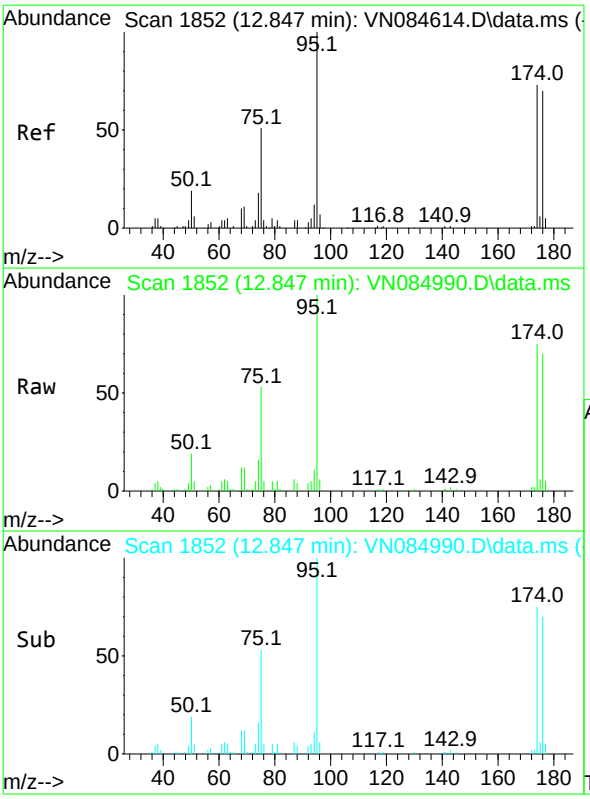


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

Tgt Ion:117 Resp: 123949

Ion	Ratio	Lower	Upper
117	100		
82	56.1	45.5	68.3
119	32.1	25.3	37.9



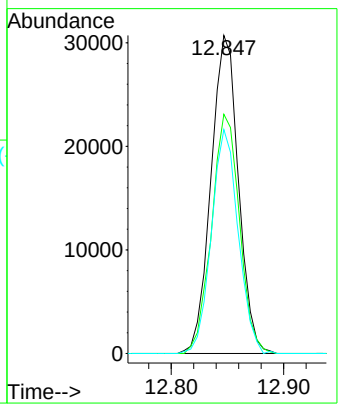


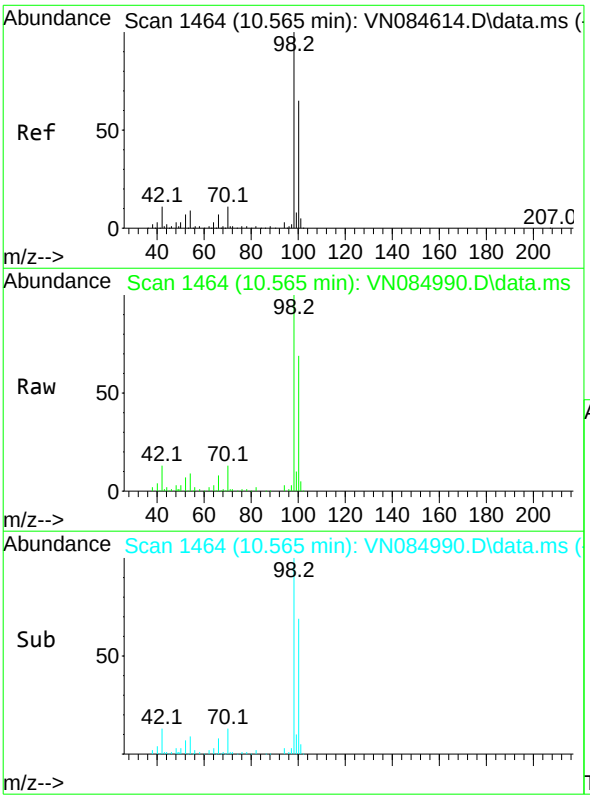
#60
4-Bromofluorobenzene
Concen: 24.404 ug/l
RT: 12.847 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBL01

Tgt Ion: 95 Resp: 52082

Ion	Ratio	Lower	Upper
95	100		
174	76.3	59.6	89.4
176	68.5	58.6	88.0

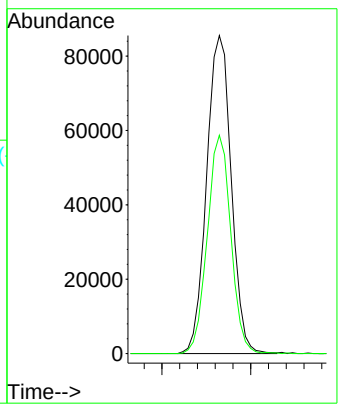




#63
Toluene-d8
Concen: 28.033 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

Tgt Ion: 98 Resp: 164490

Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.2	78.2



Raw Data: **VN084868.D**

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

Report of Analysis

Client:	Tully Environmental, Inc	Date Collected:	
Project:	Transfer Station-SPDES	Date Received:	
Client Sample ID:	VN1115WBS01	SDG No.:	P4853
Lab Sample ID:	VN1115WBS01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-BTEX
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084868.D	1		11/15/24 14:26	VN111524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	19.3		0.69	5.00	ug/L
108-88-3	Toluene	18.8		0.72	5.00	ug/L
100-41-4	Ethyl Benzene	18.5		0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	38.0		1.70	10.0	ug/L
95-47-6	o-Xylene	18.6		0.82	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.7		91 - 110	102%	SPK: 30
2037-26-5	Toluene-d8	29.7		91 - 112	99%	SPK: 30
460-00-4	4-Bromofluorobenzene	30.2		63 - 112	101%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	28700	7.812			
540-36-3	1,4-Difluorobenzene	153000	9.1			
3114-55-4	Chlorobenzene-d5	143000	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

Sample Results: **VN084868.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111524\
Data File : VN084868.D
Acq On : 15 Nov 2024 14:26
Operator : JC\MD
Sample : VN1115WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 15 22:23:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBS01

Manual Integrations APPROVED
Reviewed By :John Carlone 11/17/2024
Supervised By :Mahesh Dadoda 11/18/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.812	128	28727	30.000	ug/l		0.00
28) 1,4-Difluorobenzene	9.100	114	152762	30.000	ug/l		0.00
57) Chlorobenzene-d5	11.865	117	143052	30.000	ug/l		0.00
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.577	65	70943	30.718	ug/l		0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.400%				
60) 4-Bromofluorobenzene	12.847	95	74373	30.195	ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.633%				
63) Toluene-d8	10.565	98	201331	29.729	ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.100%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.118	85	34534	20.669	ug/l		98
3) Chloromethane	2.359	50	41270	20.516	ug/l		97
4) Vinyl Chloride	2.512	62	40871	21.880	ug/l		92
5) Bromomethane	2.901	94	21124	22.280	ug/l		99
6) Chloroethane	3.077	64	25824	21.055	ug/l		94
7) Trichlorofluoromethane	3.471	101	62262	20.524	ug/l		99
8) Diethyl Ether	3.953	74	19593	18.106	ug/l		97
9) 1,1,2-Trichlorotrifluo...	4.359	101	35667	20.804	ug/l		97
10) 1,1-Dichloroethene	4.330	96	32031	19.133	ug/l		94
11) Methyl Iodide	4.577	142	45443	19.749	ug/l		92
12) Methyl Acetate	5.024	43	42380	16.240	ug/l		99
13) Acrolein	4.177	56	33579	104.345	ug/l		98
14) Acrylonitrile	5.712	53	77581	90.876	ug/l		100
15) Acetone	4.424	58	19745	90.014	ug/l		90
16) Carbon Disulfide	4.700	76	89763	18.222	ug/l		96
17) Allyl chloride	5.012	41	50194	17.595	ug/l		90
18) Methylene Chloride	5.265	84	36904	18.811	ug/l		97
19) trans-1,2-Dichloroethene	5.777	96	32910	18.754	ug/l		90
20) Diisopropyl ether	6.665	45	102791	18.000	ug/l		99
21) 1,1-Dichloroethane	6.565	63	64632	18.819	ug/l		98
22) cis-1,2-Dichloroethene	7.477	96	39664	18.932	ug/l		97
23) tert-Butyl Alcohol	5.536	59	25850	86.733	ug/l	#	100
24) Methyl tert-Butyl Ether	5.795	73	101249	18.702	ug/l		99
25) Chloroform	7.959	83	68134	19.364	ug/l		95
26) Cyclohexane	8.253	56	52497	20.012	ug/l	#	96
29) 1,1-Dichloropropene	8.371	75	46466	20.195	ug/l		98
30) 2-Butanone	7.483	43	100352	94.549	ug/l	#	96
31) 2,2-Dichloropropane	7.483	77	60717	21.617	ug/l		100
32) 1,1,1-Trichloroethane	8.159	97	62329	19.939	ug/l		97
33) Carbon Tetrachloride	8.359	117	54595	20.468	ug/l		99
34) Benzene	8.600	78	146411	19.251	ug/l	#	95
35) Methacrylonitrile	7.777	41	22140	17.600	ug/l		92
36) 1,2-Dichloroethane	8.665	62	49956	19.752	ug/l		99
37) Trichloroethene	9.347	130	33608	19.588	ug/l		94
38) Methylcyclohexane	9.600	83	44752	18.067	ug/l		95
39) 1,2-Dichloropropane	9.618	63	35016	19.126	ug/l		100
40) Dibromomethane	9.706	93	25870	20.199	ug/l		96
41) Bromodichloromethane	9.882	83	52771	19.220	ug/l		98
42) Vinyl Acetate	6.594	43	363526	91.632	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111524\
Data File : VN084868.D
Acq On : 15 Nov 2024 14:26
Operator : JC\MD
Sample : VN1115WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 15 22:23:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 11/17/2024
Supervised By :Mahesh Dadoda 11/18/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) Ethyl Acetate	7.559	43	41308	18.522 ug/l	99
44) Isopropyl Acetate	8.688	43	73623	16.303 ug/l	96
45) 1,4-Dioxane	9.700	88	11872	393.773 ug/l	97
46) Methyl methacrylate	9.677	41	32885	18.120 ug/l	86
47) n-amyl Acetate	12.494	43	59673	17.693 ug/l	100
48) t-1,3-Dichloropropene	10.829	75	50245	18.533 ug/l	98
49) cis-1,3-Dichloropropene	10.312	75	55343	19.047 ug/l	95
50) 1,1,2-Trichloroethane	11.012	97	34982	20.363 ug/l	96
51) Ethyl methacrylate	10.871	69	47292	17.859 ug/l	97
52) 1,3-Dichloropropane	11.159	76	57505	19.284 ug/l	99
53) Dibromochloromethane	11.359	129	39398	19.597 ug/l	98
54) 1,2-Dibromoethane	11.465	107	34447	19.825 ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	98981	76.240 ug/l	98
56) Bromoform	12.576	173	25674	19.052 ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	212863	94.320 ug/l	98
59) 2-Hexanone	11.194	43	160631	97.200 ug/l	99
61) Tetrachloroethene	11.100	164	29978	20.024 ug/l	91
62) Toluene	10.629	91	152841	18.759 ug/l	100
64) Chlorobenzene	11.888	112	96941	19.709 ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	36346	20.106 ug/l	97
66) Ethyl Benzene	11.959	91	158414	18.501 ug/l	93
67) m/p-Xylenes	12.071	106	124496	37.976 ug/l	99
68) o-Xylene	12.400	106	58772	18.585 ug/l	96
69) Styrene	12.412	104	99743	18.812 ug/l	99
70) Isopropylbenzene	12.694	105	151576	19.295 ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.941	83	50929	20.002 ug/l	94
72) 1,2,3-Trichloropropane	12.994	75	39398m	18.121 ug/l	
73) Bromobenzene	12.976	156	38909	19.204 ug/l	98
74) n-propylbenzene	13.035	91	176634	19.229 ug/l	100
75) 2-Chlorotoluene	13.123	91	114798	19.190 ug/l	95
76) 1,3,5-Trimethylbenzene	13.171	105	132899	19.800 ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	16769	18.806 ug/l	94
78) 4-Chlorotoluene	13.218	91	117611	19.459 ug/l	97
79) tert-butylbenzene	13.435	119	105399	18.989 ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	134591	19.877 ug/l	99
81) sec-Butylbenzene	13.618	105	150165	19.633 ug/l	99
82) p-Isopropyltoluene	13.729	119	125386	19.511 ug/l	98
83) 1,3-Dichlorobenzene	13.729	146	74185	19.798 ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	72940	19.700 ug/l	99
85) n-Butylbenzene	14.053	91	101044	18.720 ug/l	99
86) Hexachloroethane	14.335	117	26188	19.925 ug/l	100
87) 1,2-Dichlorobenzene	14.106	146	72712	19.692 ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	9692	19.727 ug/l	97
89) 1,2,4-Trichlorobenzene	15.835	180	33546	18.659 ug/l	95
90) Hexachlorobutadiene	15.500	225	18385	23.410 ug/l	94
91) Naphthalene	15.641	128	100764	17.550 ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	33546	18.659 ug/l	95

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

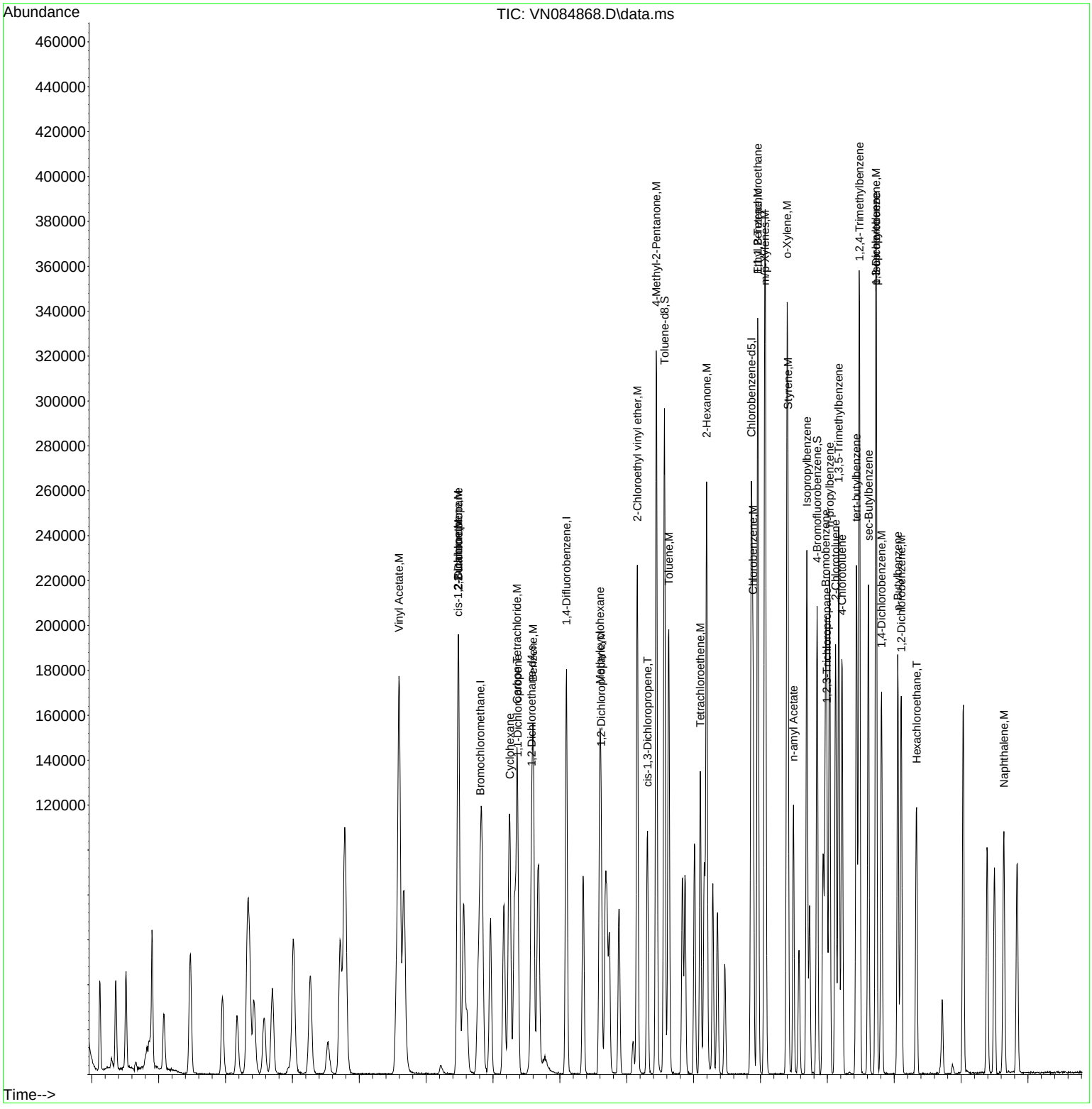
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111524\
Data File : VN084868.D
Acq On : 15 Nov 2024 14:26
Operator : JC\MD
Sample : VN1115WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 15 22:23:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 11/17/2024
Supervised By :Mahesh Dadoda 11/18/2024



Raw Data: **VN084988.D**

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

Report of Analysis

Client:	Tully Environmental, Inc	Date Collected:	
Project:	Transfer Station-SPDES	Date Received:	
Client Sample ID:	VN1121WBS01	SDG No.:	P4853
Lab Sample ID:	VN1121WBS01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-BTEX
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084988.D	1		11/21/24 10:45	VN112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	19.2		0.69	5.00	ug/L
108-88-3	Toluene	19.3		0.72	5.00	ug/L
100-41-4	Ethyl Benzene	18.7		0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	39.3		1.70	10.0	ug/L
95-47-6	o-Xylene	18.8		0.82	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.8		91 - 110	99%	SPK: 30
2037-26-5	Toluene-d8	29.8		91 - 112	99%	SPK: 30
460-00-4	4-Bromofluorobenzene	29.9		63 - 112	100%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	33100	7.812			
540-36-3	1,4-Difluorobenzene	174000	9.1			
3114-55-4	Chlorobenzene-d5	160000	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

Sample Results: **VN084988.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112124\
Data File : VN084988.D
Acq On : 21 Nov 2024 10:45
Operator : JC\MD
Sample : VN1121WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 21 14:42:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBS01

Manual Integrations APPROVED
Reviewed By :John Carlone 11/21/2024
Supervised By :Mahesh Dadoda 11/22/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.812	128	33147	30.000	ug/l		0.00
28) 1,4-Difluorobenzene	9.100	114	173978	30.000	ug/l		0.00
57) Chlorobenzene-d5	11.865	117	160474	30.000	ug/l		0.00
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.577	65	79319	29.765	ug/l		0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 99.233%				
60) 4-Bromofluorobenzene	12.847	95	82657	29.915	ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.700%				
63) Toluene-d8	10.565	98	226677	29.838	ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.467%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	40472	20.993	ug/l		95
3) Chloromethane	2.360	50	43422	18.707	ug/l		99
4) Vinyl Chloride	2.512	62	41995	19.484	ug/l		97
5) Bromomethane	2.901	94	22585	20.645	ug/l		98
6) Chloroethane	3.077	64	26950	19.043	ug/l		96
7) Trichlorofluoromethane	3.471	101	69511	19.858	ug/l		98
8) Diethyl Ether	3.954	74	24001	19.222	ug/l		96
9) 1,1,2-Trichlorotrifluo...	4.359	101	40435	20.440	ug/l		99
10) 1,1-Dichloroethene	4.330	96	36783	19.041	ug/l		88
11) Methyl Iodide	4.577	142	51571	19.424	ug/l		92
12) Methyl Acetate	5.018	43	52524	17.443	ug/l		98
13) Acrolein	4.171	56	32449	87.388	ug/l		96
14) Acrylonitrile	5.718	53	96636	98.102	ug/l		99
15) Acetone	4.424	58	24787	97.931	ug/l		91
16) Carbon Disulfide	4.695	76	101214	17.807	ug/l		97
17) Allyl chloride	5.006	41	59376	18.039	ug/l		98
18) Methylene Chloride	5.259	84	41680	18.412	ug/l		91
19) trans-1,2-Dichloroethene	5.777	96	37375	18.459	ug/l		90
20) Diisopropyl ether	6.671	45	123310	18.713	ug/l	#	97
21) 1,1-Dichloroethane	6.559	63	74669	18.843	ug/l		96
22) cis-1,2-Dichloroethene	7.483	96	44798	18.532	ug/l		98
23) tert-Butyl Alcohol	5.536	59	33690	97.965	ug/l	#	100
24) Methyl tert-Butyl Ether	5.789	73	118027m	18.894	ug/l		
25) Chloroform	7.965	83	79410	19.559	ug/l		96
26) Cyclohexane	8.253	56	56892	18.795	ug/l	#	95
29) 1,1-Dichloropropene	8.365	75	50899	19.424	ug/l		100
30) 2-Butanone	7.483	43	125024	103.430	ug/l		98
31) 2,2-Dichloropropane	7.489	77	69445	21.710	ug/l		100
32) 1,1,1-Trichloroethane	8.165	97	70467	19.794	ug/l		99
33) Carbon Tetrachloride	8.353	117	62143	20.456	ug/l		99
34) Benzene	8.600	78	166530	19.226	ug/l		96
35) Methacrylonitrile	7.777	41	28689	20.025	ug/l		98
36) 1,2-Dichloroethane	8.665	62	57978	20.128	ug/l		98
37) Trichloroethene	9.347	130	37658	19.272	ug/l		89
38) Methylcyclohexane	9.594	83	54086	19.172	ug/l		98
39) 1,2-Dichloropropane	9.618	63	40518	19.433	ug/l		91
40) Dibromomethane	9.706	93	29520	20.238	ug/l		100
41) Bromodichloromethane	9.883	83	60271	19.275	ug/l	#	98
42) Vinyl Acetate	6.600	43	441844	97.791	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112124\
Data File : VN084988.D
Acq On : 21 Nov 2024 10:45
Operator : JC\MD
Sample : VN1121WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 21 14:42:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 11/21/2024
Supervised By :Mahesh Dadoda 11/22/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) Ethyl Acetate	7.553	43	54269	21.366 ug/l	96
44) Isopropyl Acetate	8.689	43	106073	20.624 ug/l	94
45) 1,4-Dioxane	9.700	88	13807	402.107 ug/l	93
46) Methyl methacrylate	9.677	41	38864	18.803 ug/l	95
47) n-amyl Acetate	12.494	43	74010	19.268 ug/l	99
48) t-1,3-Dichloropropene	10.830	75	59172	19.164 ug/l	99
49) cis-1,3-Dichloropropene	10.306	75	64315	19.435 ug/l	96
50) 1,1,2-Trichloroethane	11.012	97	38344	19.598 ug/l	93
51) Ethyl methacrylate	10.871	69	56846	18.849 ug/l	93
52) 1,3-Dichloropropane	11.159	76	65319	19.233 ug/l	100
53) Dibromochloromethane	11.353	129	44579	19.470 ug/l	100
54) 1,2-Dibromoethane	11.465	107	38394	19.402 ug/l	97
55) 2-Chloroethyl vinyl ether	10.159	63	140371	94.936 ug/l	99
56) Bromoform	12.577	173	30232	19.699 ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	265823	104.999 ug/l	99
59) 2-Hexanone	11.194	43	197859	106.729 ug/l	100
61) Tetrachloroethene	11.100	164	32693	19.466 ug/l	98
62) Toluene	10.630	91	176525	19.313 ug/l	98
64) Chlorobenzene	11.888	112	109209	19.792 ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	40311	19.879 ug/l	99
66) Ethyl Benzene	11.965	91	179414	18.678 ug/l	93
67) m/p-Xylenes	12.071	106	144660	39.336 ug/l	98
68) o-Xylene	12.400	106	66693	18.800 ug/l	95
69) Styrene	12.412	104	116657	19.613 ug/l	98
70) Isopropylbenzene	12.694	105	171977	19.515 ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.935	83	58943	20.636 ug/l	96
72) 1,2,3-Trichloropropane	12.994	75	46418m	19.032 ug/l	
73) Bromobenzene	12.976	156	44125	19.414 ug/l	95
74) n-propylbenzene	13.035	91	201397	19.544 ug/l	99
75) 2-Chlorotoluene	13.124	91	132887	19.803 ug/l	98
76) 1,3,5-Trimethylbenzene	13.171	105	153028	20.324 ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	19537	19.531 ug/l	85
78) 4-Chlorotoluene	13.224	91	132037	19.474 ug/l	98
79) tert-butylbenzene	13.435	119	122349	19.649 ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	151349	19.925 ug/l	99
81) sec-Butylbenzene	13.612	105	170275	19.846 ug/l	100
82) p-Isopropyltoluene	13.729	119	143476	19.902 ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	82117	19.535 ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	81782	19.690 ug/l	97
85) n-Butylbenzene	14.053	91	115603	19.092 ug/l	98
86) Hexachloroethane	14.335	117	28955	19.639 ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	82364	19.884 ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.718	75	11686	21.204 ug/l	99
89) 1,2,4-Trichlorobenzene	15.841	180	36633	18.164 ug/l	94
90) Hexachlorobutadiene	15.500	225	19164	21.753 ug/l	94
91) Naphthalene	15.635	128	115536	17.938 ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	36633	18.164 ug/l	94

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

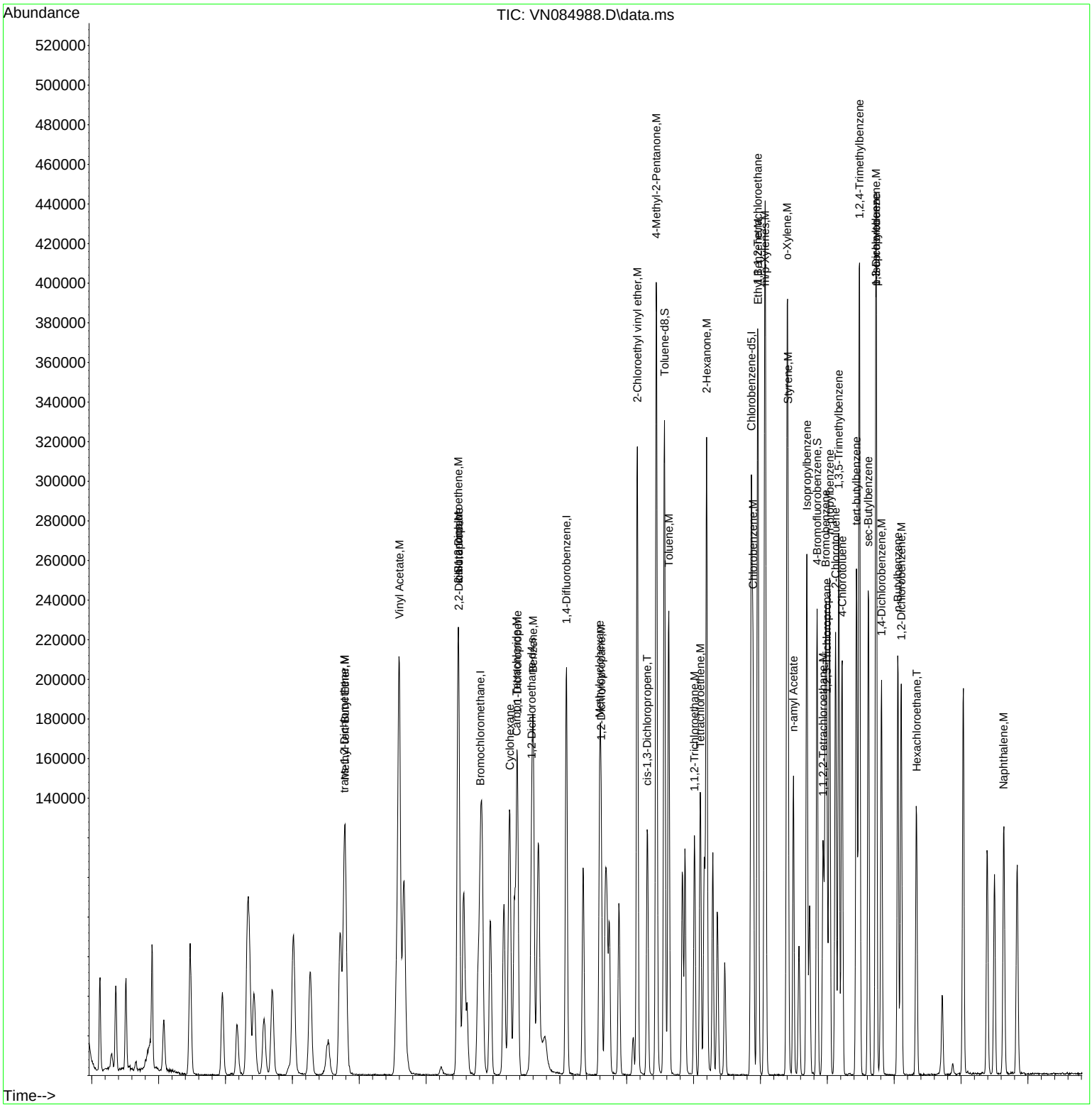
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112124\
Data File : VN084988.D
Acq On : 21 Nov 2024 10:45
Operator : JC\MD
Sample : VN1121WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 21 14:42:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 11/21/2024
Supervised By :Mahesh Dadoda 11/22/2024



Raw Data: **VN084869.D**

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

Report of Analysis

Client:	Tully Environmental, Inc	Date Collected:	
Project:	Transfer Station-SPDES	Date Received:	
Client Sample ID:	VN1115WBSD01	SDG No.:	P4853
Lab Sample ID:	VN1115WBSD01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-BTEX
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084869.D	1		11/15/24 14:59	VN111524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	19.9		0.69	5.00	ug/L
108-88-3	Toluene	20.1		0.72	5.00	ug/L
100-41-4	Ethyl Benzene	19.3		0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	40.5		1.70	10.0	ug/L
95-47-6	o-Xylene	19.8		0.82	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.9		91 - 110	100%	SPK: 30
2037-26-5	Toluene-d8	29.6		91 - 112	99%	SPK: 30
460-00-4	4-Bromofluorobenzene	31.0		63 - 112	103%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	27800	7.806			
540-36-3	1,4-Difluorobenzene	144000	9.1			
3114-55-4	Chlorobenzene-d5	132000	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

Sample Results: **VN084869.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111524\
Data File : VN084869.D
Acq On : 15 Nov 2024 14:59
Operator : JC\MD
Sample : VN1115WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 15 22:24:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBSD01

Manual Integrations APPROVED
Reviewed By :John Carlone 11/17/2024
Supervised By :Mahesh Dadoda 11/18/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.806	128	27777	30.000	ug/l		0.00
28) 1,4-Difluorobenzene	9.100	114	143562	30.000	ug/l		0.00
57) Chlorobenzene-d5	11.865	117	132133	30.000	ug/l		0.00
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.571	65	66747	29.890	ug/l		0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 99.633%				
60) 4-Bromofluorobenzene	12.847	95	70609	31.035	ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 103.467%				
63) Toluene-d8	10.565	98	185283	29.621	ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.733%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	32686	20.232	ug/l		91
3) Chloromethane	2.359	50	38666	19.879	ug/l		98
4) Vinyl Chloride	2.512	62	38205	21.152	ug/l		95
5) Bromomethane	2.900	94	20669	22.546	ug/l		94
6) Chloroethane	3.071	64	26367	22.233	ug/l		98
7) Trichlorofluoromethane	3.477	101	59973	20.445	ug/l		98
8) Diethyl Ether	3.953	74	19853	18.974	ug/l		94
9) 1,1,2-Trichlorotrifluo...	4.365	101	33677	20.315	ug/l		95
10) 1,1-Dichloroethene	4.324	96	31038	19.173	ug/l		89
11) Methyl Iodide	4.571	142	44360	19.938	ug/l		84
12) Methyl Acetate	5.024	43	41237	16.343	ug/l		91
13) Acrolein	4.177	56	36553	117.472	ug/l		99
14) Acrylonitrile	5.718	53	80531	97.557	ug/l		97
15) Acetone	4.424	58	20069	94.620	ug/l		95
16) Carbon Disulfide	4.700	76	86729	18.208	ug/l		100
17) Allyl chloride	5.012	41	47364	17.171	ug/l		99
18) Methylene Chloride	5.271	84	36522	19.253	ug/l		95
19) trans-1,2-Dichloroethene	5.777	96	31643	18.649	ug/l		95
20) Diisopropyl ether	6.671	45	101553	18.391	ug/l		96
21) 1,1-Dichloroethane	6.559	63	61629	18.559	ug/l		95
22) cis-1,2-Dichloroethene	7.482	96	38262	18.888	ug/l		96
23) tert-Butyl Alcohol	5.541	59	26430	91.712	ug/l	#	100
24) Methyl tert-Butyl Ether	5.788	73	101702	19.428	ug/l		98
25) Chloroform	7.959	83	66435	19.527	ug/l		97
26) Cyclohexane	8.247	56	47352	18.668	ug/l	#	96
29) 1,1-Dichloropropene	8.365	75	42918	19.848	ug/l		98
30) 2-Butanone	7.477	43	100555	100.812	ug/l		98
31) 2,2-Dichloropropane	7.488	77	57944	21.952	ug/l		99
32) 1,1,1-Trichloroethane	8.165	97	61181	20.826	ug/l		98
33) Carbon Tetrachloride	8.353	117	51647	20.603	ug/l		98
34) Benzene	8.606	78	142162	19.890	ug/l	#	93
35) Methacrylonitrile	7.777	41	22520	19.050	ug/l		97
36) 1,2-Dichloroethane	8.665	62	48331	20.334	ug/l		100
37) Trichloroethene	9.347	130	31820	19.735	ug/l		95
38) Methylcyclohexane	9.594	83	44082	18.937	ug/l		97
39) 1,2-Dichloropropane	9.618	63	33278	19.342	ug/l		97
40) Dibromomethane	9.706	93	24619	20.454	ug/l		96
41) Bromodichloromethane	9.882	83	50075	19.407	ug/l		99
42) Vinyl Acetate	6.600	43	354614	95.113	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111524\
Data File : VN084869.D
Acq On : 15 Nov 2024 14:59
Operator : JC\MD
Sample : VN1115WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 15 22:24:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 11/17/2024
Supervised By :Mahesh Dadoda 11/18/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) Ethyl Acetate	7.553	43	42917	20.477 ug/l	98
44) Isopropyl Acetate	8.688	43	73627	17.348 ug/l	96
45) 1,4-Dioxane	9.700	88	11947	421.654 ug/l	93
46) Methyl methacrylate	9.676	41	32421	19.010 ug/l	90
47) n-amyl Acetate	12.494	43	59136	18.657 ug/l	98
48) t-1,3-Dichloropropene	10.835	75	49378	19.380 ug/l	97
49) cis-1,3-Dichloropropene	10.306	75	55708	20.401 ug/l	96
50) 1,1,2-Trichloroethane	11.018	97	34274	21.229 ug/l	96
51) Ethyl methacrylate	10.871	69	49829	20.023 ug/l	94
52) 1,3-Dichloropropane	11.159	76	55741	19.891 ug/l	98
53) Dibromochloromethane	11.359	129	38777	20.524 ug/l	96
54) 1,2-Dibromoethane	11.465	107	34963	21.412 ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	118346	96.998 ug/l	99
56) Bromoform	12.576	173	26958	21.287 ug/l	97
58) 4-Methyl-2-Pentanone	10.441	43	214726	103.008 ug/l	98
59) 2-Hexanone	11.194	43	158511	103.844 ug/l	98
61) Tetrachloroethene	11.100	164	29049	21.006 ug/l	98
62) Toluene	10.623	91	151208	20.092 ug/l	98
64) Chlorobenzene	11.888	112	90954	20.020 ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	35740	21.405 ug/l	97
66) Ethyl Benzene	11.965	91	153019	19.347 ug/l	96
67) m/p-Xylenes	12.070	106	122503	40.456 ug/l	99
68) o-Xylene	12.400	106	57915	19.828 ug/l	98
69) Styrene	12.412	104	100487	20.518 ug/l	98
70) Isopropylbenzene	12.694	105	144485	19.912 ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	50122	21.312 ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	45853m	22.833 ug/l	
73) Bromobenzene	12.982	156	38814	20.740 ug/l	98
74) n-propylbenzene	13.035	91	173358	20.432 ug/l	99
75) 2-Chlorotoluene	13.123	91	114083	20.647 ug/l	98
76) 1,3,5-Trimethylbenzene	13.170	105	128489	20.725 ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	16818	20.419 ug/l	90
78) 4-Chlorotoluene	13.217	91	113835	20.391 ug/l	99
79) tert-butylbenzene	13.435	119	103008	20.092 ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	131357	21.002 ug/l	98
81) sec-Butylbenzene	13.611	105	143056	20.250 ug/l	98
82) p-Isopropyltoluene	13.729	119	121558	20.478 ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	70929	20.493 ug/l	97
84) 1,4-Dichlorobenzene	13.811	146	71089	20.786 ug/l	98
85) n-Butylbenzene	14.053	91	98151	19.687 ug/l	98
86) Hexachloroethane	14.335	117	23621	19.457 ug/l	94
87) 1,2-Dichlorobenzene	14.106	146	71901	21.082 ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	9680	21.331 ug/l	96
89) 1,2,4-Trichlorobenzene	15.841	180	33559	20.209 ug/l	97
90) Hexachlorobutadiene	15.500	225	16226	22.369 ug/l	97
91) Naphthalene	15.641	128	101921	19.218 ug/l	100
92) 1,2,3-Trichlorobenzene	15.841	180	33559	20.209 ug/l	97

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

Sample Results: **VN084869.D**

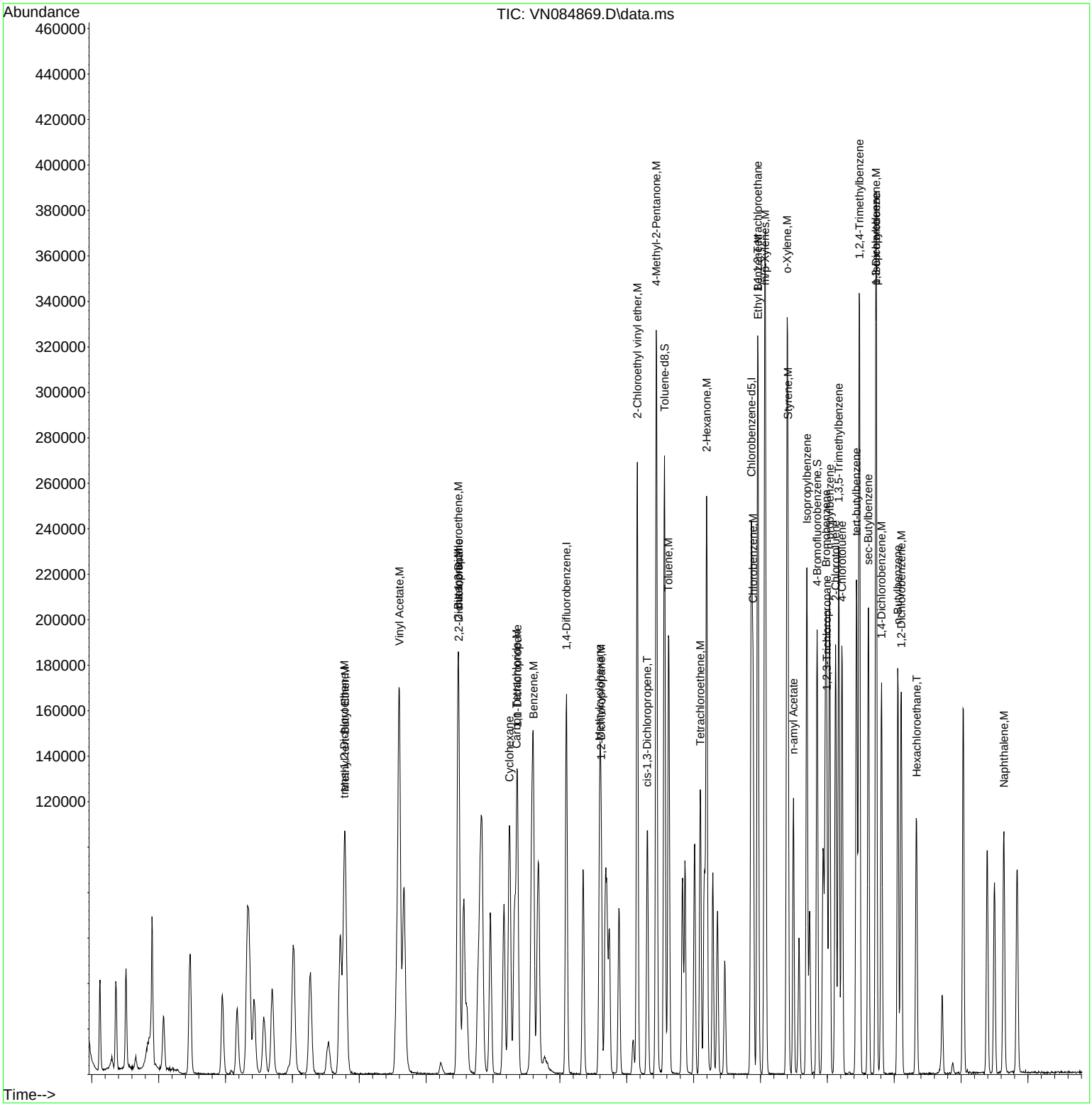
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111524\
Data File : VN084869.D
Acq On : 15 Nov 2024 14:59
Operator : JC\MD
Sample : VN1115WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 15 22:24:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 11/17/2024
Supervised By :Mahesh Dadoda 11/18/2024



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

Manual Integration Report

Sequence:	VN103124	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VN084613.D	1,2,3-Trichloropropane	SAM	11/1/2024 11:36:59 AM	MMDadoda	11/4/2024 1:19:09 AM	Peak Integrated by Software
VSTDICC005	VN084613.D	Acetone	SAM	11/1/2024 11:36:59 AM	MMDadoda	11/4/2024 1:19:09 AM	Peak Integrated by Software
VSTDICC005	VN084613.D	Acrylonitrile	SAM	11/1/2024 11:36:59 AM	MMDadoda	11/4/2024 1:19:09 AM	Peak Integrated by Software
VSTDICC005	VN084613.D	Allyl chloride	SAM	11/1/2024 11:36:59 AM	MMDadoda	11/4/2024 1:19:09 AM	Peak Integrated by Software
VSTDICC005	VN084613.D	Chloroethane	SAM	11/1/2024 11:36:59 AM	MMDadoda	11/4/2024 1:19:09 AM	Peak Integrated by Software
VSTDICC005	VN084613.D	Methyl Acetate	SAM	11/1/2024 11:36:59 AM	MMDadoda	11/4/2024 1:19:09 AM	Peak Integrated by Software
VSTDICC005	VN084613.D	trans-1,2-Dichloroethene	SAM	11/1/2024 11:36:59 AM	MMDadoda	11/4/2024 1:19:09 AM	Peak Integrated by Software
VSTDICC005	VN084613.D	Trichloroethene	SAM	11/1/2024 11:36:59 AM	MMDadoda	11/4/2024 1:19:09 AM	Peak Integrated by Software
VSTDICCC020	VN084614.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:13:50 AM	MMDadoda	11/4/2024 1:19:11 AM	Peak Integrated by Software
VSTDICCC020	VN084614.D	tert-Butyl Alcohol	SAM	11/4/2024 1:13:50 AM	MMDadoda	11/4/2024 1:19:11 AM	Peak Integrated by Software
VSTDICC050	VN084615.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:13:52 AM	MMDadoda	11/4/2024 1:19:12 AM	Peak Integrated by Software
VSTDICC050	VN084615.D	Chloroethane	SAM	11/4/2024 1:13:52 AM	MMDadoda	11/4/2024 1:19:12 AM	Peak Integrated by Software
VSTDICC100	VN084616.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:13:53 AM	MMDadoda	11/4/2024 1:19:13 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VN103124	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC150	VN084617.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:13:54 AM	MMDadoda	11/4/2024 1:19:15 AM	Peak Integrated by Software
VSTDICV020	VN084619.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:13:55 AM	MMDadoda	11/4/2024 1:19:16 AM	Peak Integrated by Software
VSTDCCC020	VN084626.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:14:00 AM	MMDadoda	11/4/2024 1:19:23 AM	Peak Integrated by Software
VSTDCCC020	VN084626.D	Allyl chloride	SAM	11/4/2024 1:14:00 AM	MMDadoda	11/4/2024 1:19:23 AM	Peak Integrated by Software
VSTDCCC020	VN084626.D	Diethyl Ether	SAM	11/4/2024 1:14:00 AM	MMDadoda	11/4/2024 1:19:23 AM	Peak Integrated by Software
VSTDCCC020	VN084626.D	tert-Butyl Alcohol	SAM	11/4/2024 1:14:00 AM	MMDadoda	11/4/2024 1:19:23 AM	Peak Integrated by Software
VSTDCCC020	VN084626.D	trans-1,2-Dichloroethene	SAM	11/4/2024 1:14:00 AM	MMDadoda	11/4/2024 1:19:23 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VN111524	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC020	VN084867.D	1,2,3-Trichloropropane	JOHN	11/17/2024 9:34:37 AM	MMDadoda	11/18/2024 3:13:45 PM	Peak Integrated by Software
VSTDCCC020	VN084867.D	tert-Butyl Alcohol	JOHN	11/17/2024 9:34:37 AM	MMDadoda	11/18/2024 3:13:45 PM	Peak Integrated by Software
VN1115WBS01	VN084868.D	1,2,3-Trichloropropane	JOHN	11/17/2024 9:34:41 AM	MMDadoda	11/18/2024 3:13:45 PM	Peak Integrated by Software
VN1115WBSD01	VN084869.D	1,2,3-Trichloropropane	JOHN	11/17/2024 9:34:45 AM	MMDadoda	11/18/2024 3:13:47 PM	Peak Integrated by Software
VSTDCCC020	VN084882.D	1,2,3-Trichloropropane	JOHN	11/17/2024 9:34:54 AM	MMDadoda	11/18/2024 3:13:51 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VN112124	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC020	VN084987.D	1,2,3-Trichloropropane	JOHN	11/21/2024 3:20:49 PM	MMDadoda	11/22/2024 3:31:44 PM	Peak Integrated by Software
VSTDCCC020	VN084987.D	Methyl tert-Butyl Ether	JOHN	11/21/2024 3:20:49 PM	MMDadoda	11/22/2024 3:31:44 PM	Peak Integrated by Software
VSTDCCC020	VN084987.D	tert-Butyl Alcohol	JOHN	11/21/2024 3:20:49 PM	MMDadoda	11/22/2024 3:31:44 PM	Peak Integrated by Software
VN1121WBS01	VN084988.D	1,2,3-Trichloropropane	JOHN	11/21/2024 3:20:54 PM	MMDadoda	11/22/2024 3:31:45 PM	Peak Integrated by Software
VN1121WBS01	VN084988.D	Methyl tert-Butyl Ether	JOHN	11/21/2024 3:20:54 PM	MMDadoda	11/22/2024 3:31:45 PM	Peak Integrated by Software
P4853-01DL	VN084991.D	Carbon Disulfide	JOHN	11/21/2024 3:20:58 PM	MMDadoda	11/22/2024 3:31:47 PM	Peak Integrated by Software
VSTDCCC020	VN084993.D	1,2,3-Trichloropropane	JOHN	11/21/2024 3:21:04 PM	MMDadoda	11/22/2024 3:31:49 PM	Peak Integrated by Software
VSTDCCC050	VN084995.D	1,2,3-Trichloropropane	JOHN	11/22/2024 9:41:19 AM	MMDadoda	11/22/2024 3:31:52 PM	Peak Integrated by Software
VSTDCCC050	VN085002.D	1,2,3-Trichloropropane	JOHN	11/22/2024 9:41:49 AM	MMDadoda	11/22/2024 3:32:01 PM	Peak Integrated by Software
VSTDCCC050	VN085002.D	trans-1,4-Dichloro-2-but ene	JOHN	11/22/2024 9:41:49 AM	MMDadoda	11/22/2024 3:32:01 PM	Peak Integrated by Software

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103124

Review By	Semsettin Yesilyurt	Review On	11/1/2024 11:37:52 AM				
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:19:34 AM				
SubDirectory	VN103124	HP Acquire Method	MSVOA_N		HP Processing Method	624n103124w.m	

STD. NAME	STD REF.#
Tune/Reschk	VP131208
Initial Calibration Stds	VP131209,VP131210,VP131211,VP131212,VP131213
CCC	VP131215,VP131216
Internal Standard/PEM	VP130994
ICV/I.BLK	VP131214
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084612.D	31 Oct 2024 10:56	JC\MD	Ok
2	VSTDICC005	VN084613.D	31 Oct 2024 12:08	JC\MD	Ok,M
3	VSTDICCC020	VN084614.D	31 Oct 2024 12:32	JC\MD	Ok,M
4	VSTDICC050	VN084615.D	31 Oct 2024 12:56	JC\MD	Ok,M
5	VSTDICC100	VN084616.D	31 Oct 2024 13:20	JC\MD	Ok,M
6	VSTDICC150	VN084617.D	31 Oct 2024 13:44	JC\MD	Ok,M
7	VIBLK	VN084618.D	31 Oct 2024 14:08	JC\MD	Ok
8	VSTDICV020	VN084619.D	31 Oct 2024 14:42	JC\MD	Ok,M
9	VN1031WBS01	VN084620.D	31 Oct 2024 15:25	JC\MD	Ok,M
10	VN1031WBSD01	VN084621.D	31 Oct 2024 15:49	JC\MD	Ok,M
11	VN1031WBL01	VN084622.D	31 Oct 2024 16:37	JC\MD	Ok
12	P4646-02	VN084623.D	31 Oct 2024 17:01	JC\MD	Ok
13	P4646-01	VN084624.D	31 Oct 2024 17:25	JC\MD	Ok,M
14	VIBLK	VN084625.D	31 Oct 2024 17:49	JC\MD	Ok
15	VSTDCCC020	VN084626.D	31 Oct 2024 18:13	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN111524

Review By	John Carlone	Review On	11/17/2024 9:40:01 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/18/2024 3:13:56 PM		
SubDirectory	VN111524	HP Acquire Method		HP Processing Method	624N103124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131532
Initial Calibration Stds	
CCC	VP131533,VP131534
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084866.D	15 Nov 2024 13:01	JC\MD	Ok
2	VSTDCCC020	VN084867.D	15 Nov 2024 13:49	JC\MD	Ok,M
3	VN1115WBS01	VN084868.D	15 Nov 2024 14:26	JC\MD	Ok,M
4	VN1115WBSD01	VN084869.D	15 Nov 2024 14:59	JC\MD	Ok,M
5	VN1115WBL01	VN084870.D	15 Nov 2024 15:23	JC\MD	Ok
6	P4844-02	VN084871.D	15 Nov 2024 16:00	JC\MD	Ok
7	P4867-01	VN084872.D	15 Nov 2024 16:24	JC\MD	Ok
8	P4867-04	VN084873.D	15 Nov 2024 16:48	JC\MD	Ok
9	P4853-01	VN084874.D	15 Nov 2024 17:12	JC\MD	Dilution
10	P4853-02	VN084875.D	15 Nov 2024 17:36	JC\MD	Dilution
11	P4844-01	VN084876.D	15 Nov 2024 18:00	JC\MD	Ok,M
12	IBLK	VN084877.D	15 Nov 2024 18:24	JC\MD	Ok
13	P4867-02	VN084878.D	15 Nov 2024 18:48	JC\MD	Ok
14	P4867-03	VN084879.D	15 Nov 2024 19:12	JC\MD	Ok
15	P4762-01	VN084880.D	15 Nov 2024 19:36	JC\MD	Ok
16	IBLK	VN084881.D	15 Nov 2024 20:00	JC\MD	Ok
17	VSTDCCC020	VN084882.D	15 Nov 2024 20:24	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN112124

Review By	John Carlone	Review On	11/22/2024 9:42:23 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/22/2024 3:32:07 PM		
SubDirectory	VN112124	HP Acquire Method		HP Processing Method	624N103124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131687,VP131713
Initial Calibration Stds	
CCC	VP131688,VP131689,VP131714,VP131715
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084986.D	21 Nov 2024 09:33	JC\MD	Ok
2	VSTDCCC020	VN084987.D	21 Nov 2024 10:09	JC\MD	Ok,M
3	VN1121WBS01	VN084988.D	21 Nov 2024 10:45	JC\MD	Ok,M
4	VN1121WBSD01	VN084989.D	21 Nov 2024 11:20	JC\MD	Not Ok
5	VN1121WBL01	VN084990.D	21 Nov 2024 11:43	JC\MD	Ok
6	P4853-01DL	VN084991.D	21 Nov 2024 12:18	JC\MD	Ok,M
7	P4853-02DL	VN084992.D	21 Nov 2024 12:42	JC\MD	Ok
8	VSTDCCC020	VN084993.D	21 Nov 2024 13:06	JC\MD	Ok,M
9	BFB	VN084994.D	21 Nov 2024 13:30	JC\MD	Ok
10	VSTDCCC050	VN084995.D	21 Nov 2024 15:22	JC\MD	Ok,M
11	VN1121MBL01	VN084996.D	21 Nov 2024 15:57	JC\MD	Ok
12	VN1121WBL02	VN084997.D	21 Nov 2024 16:21	JC\MD	Ok
13	VN1121WBS02	VN084998.D	21 Nov 2024 16:45	JC\MD	Ok,M
14	VN1121WBSD02	VN084999.D	21 Nov 2024 17:20	JC\MD	Ok,M
15	P4929-02	VN085000.D	21 Nov 2024 17:44	JC\MD	Ok
16	P4892-03	VN085001.D	21 Nov 2024 18:08	JC\MD	Ok,M
17	VSTDCCC050	VN085002.D	21 Nov 2024 18:32	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103124

Review By	Semsettin Yesilyurt	Review On	11/1/2024 11:37:52 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:19:34 AM		
SubDirectory	VN103124	HP Acquire Method	MSVOA_N	HP Processing Method	624n103124w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131208
Initial Calibration Stds	VP131209,VP131210,VP131211,VP131212,VP131213
CCC	VP131215,VP131216
Internal Standard/PEM	VP130994
ICV/I.BLK	VP131214
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084612.D	31 Oct 2024 10:56		JC\MD	Ok
2	VSTDICC005	VSTDICC005	VN084613.D	31 Oct 2024 12:08		JC\MD	Ok,M
3	VSTDICCC020	VSTDICCC020	VN084614.D	31 Oct 2024 12:32		JC\MD	Ok,M
4	VSTDICC050	VSTDICC050	VN084615.D	31 Oct 2024 12:56		JC\MD	Ok,M
5	VSTDICC100	VSTDICC100	VN084616.D	31 Oct 2024 13:20		JC\MD	Ok,M
6	VSTDICC150	VSTDICC150	VN084617.D	31 Oct 2024 13:44		JC\MD	Ok,M
7	VIBLK	VIBLK	VN084618.D	31 Oct 2024 14:08		JC\MD	Ok
8	VSTDICV020	ICVVN103124	VN084619.D	31 Oct 2024 14:42		JC\MD	Ok,M
9	VN1031WBS01	VN1031WBS01	VN084620.D	31 Oct 2024 15:25		JC\MD	Ok,M
10	VN1031WBSD01	VN1031WBSD01	VN084621.D	31 Oct 2024 15:49		JC\MD	Ok,M
11	VN1031WBL01	VN1031WBL01	VN084622.D	31 Oct 2024 16:37		JC\MD	Ok
12	P4646-02	241030043-05-TRIP-BL	VN084623.D	31 Oct 2024 17:01	TB,pH#6.0 B	JC\MD	Ok
13	P4646-01	241030069-01-VOA	VN084624.D	31 Oct 2024 17:25	pH#9.0 B	JC\MD	Ok,M
14	VIBLK	VIBLK	VN084625.D	31 Oct 2024 17:49		JC\MD	Ok
15	VSTDCCC020	VSTDCCC020EC	VN084626.D	31 Oct 2024 18:13		JC\MD	Ok,M

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Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN111524

Review By	John Carlone	Review On	11/17/2024 9:40:01 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/18/2024 3:13:56 PM		
SubDirectory	VN111524	HP Acquire Method		HP Processing Method	624N103124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131532
Initial Calibration Stds	
CCC	VP131533,VP131534
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	VN084866.D	15 Nov 2024 13:01		JC\MD	Ok
2	VSTDCCC020	VSTDCCC020	VN084867.D	15 Nov 2024 13:49	V13516	JC\MD	Ok,M
3	VN1115WBS01	VN1115WBS01	VN084868.D	15 Nov 2024 14:26		JC\MD	Ok,M
4	VN1115WBSD01	VN1115WBSD01	VN084869.D	15 Nov 2024 14:59		JC\MD	Ok,M
5	VN1115WBL01	VN1115WBL01	VN084870.D	15 Nov 2024 15:23		JC\MD	Ok
6	P4844-02	241113050-06-TRIP-BL	VN084871.D	15 Nov 2024 16:00	vial B pH#6.0 TB	JC\MD	Ok
7	P4867-01	TT-TB-20241113	VN084872.D	15 Nov 2024 16:24	vial A pH<2 TB	JC\MD	Ok
8	P4867-04	TT-072-IDWGW-20241	VN084873.D	15 Nov 2024 16:48	vial A pH<2	JC\MD	Ok
9	P4853-01	001-WILLETS-PT-BLVD	VN084874.D	15 Nov 2024 17:12	vial A pH<2 Need 5X	JC\MD	Dilution
10	P4853-02	002-35TH-AVE(NOV)	VN084875.D	15 Nov 2024 17:36	vial A pH<2 Need 5X	JC\MD	Dilution
11	P4844-01	241113075-01-VOA	VN084876.D	15 Nov 2024 18:00	vial B pH#6.0 ; Surrogate fail	JC\MD	Ok,M
12	IBLK	IBLK	VN084877.D	15 Nov 2024 18:24		JC\MD	Ok
13	P4867-02	TT-070-IDWGW-20241	VN084878.D	15 Nov 2024 18:48	vial A pH<2	JC\MD	Ok
14	P4867-03	TT-071-IDWGW-20241	VN084879.D	15 Nov 2024 19:12	vial A pH<2	JC\MD	Ok
15	P4762-01	EFF-WW	VN084880.D	15 Nov 2024 19:36	vial A pH<2	JC\MD	Ok
16	IBLK	IBLK	VN084881.D	15 Nov 2024 20:00		JC\MD	Ok
17	VSTDCCC020	VSTDCCC020EC	VN084882.D	15 Nov 2024 20:24		JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN112124

Review By	John Carlone	Review On	11/22/2024 9:42:23 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/22/2024 3:32:07 PM		
SubDirectory	VN112124	HP Acquire Method		HP Processing Method	624N103124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131687,VP131713
Initial Calibration Stds	
CCC	VP131688,VP131689,VP131714,VP131715
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	VN084986.D	21 Nov 2024 09:33		JC\MD	Ok
2	VSTDCCC020	VSTDCCC020	VN084987.D	21 Nov 2024 10:09		JC\MD	Ok,M
3	VN1121WBS01	VN1121WBS01	VN084988.D	21 Nov 2024 10:45		JC\MD	Ok,M
4	VN1121WBSD01	VN1121WBSD01	VN084989.D	21 Nov 2024 11:20	retention shift	JC\MD	Not Ok
5	VN1121WBL01	VN1121WBL01	VN084990.D	21 Nov 2024 11:43		JC\MD	Ok
6	P4853-01DL	001-WILLETS-PT-BLVD	VN084991.D	21 Nov 2024 12:18	vial B pH<2	JC\MD	Ok,M
7	P4853-02DL	002-35TH-AVE(NOV)DI	VN084992.D	21 Nov 2024 12:42	vial B pH<2	JC\MD	Ok
8	VSTDCCC020	VSTDCCC020EC	VN084993.D	21 Nov 2024 13:06		JC\MD	Ok,M
9	BFB	BFB	VN084994.D	21 Nov 2024 13:30		JC\MD	Ok
10	VSTDCCC050	VSTDCCC050	VN084995.D	21 Nov 2024 15:22		JC\MD	Ok,M
11	VN1121MBL01	VN1121MBL01	VN084996.D	21 Nov 2024 15:57	Contaminated	JC\MD	Ok
12	VN1121WBL02	VN1121WBL02	VN084997.D	21 Nov 2024 16:21		JC\MD	Ok
13	VN1121WBS02	VN1121WBS02	VN084998.D	21 Nov 2024 16:45		JC\MD	Ok,M
14	VN1121WBSD02	VN1121WBSD02	VN084999.D	21 Nov 2024 17:20		JC\MD	Ok,M
15	P4929-02	ARS520	VN085000.D	21 Nov 2024 17:44	vial A pH#5.0	JC\MD	Ok
16	P4892-03	WB-310-BOT	VN085001.D	21 Nov 2024 18:08	vial A pH#5.0	JC\MD	Ok,M
17	VSTDCCC050	VSTDCCC050EC	VN085002.D	21 Nov 2024 18:32		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.
QUOTE NO. P4853
COC Number 2041298

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Tully Environmental
ADDRESS: 57 Seaview Blvd
CITY Pt Washington STATE: NY ZIP: 11050
ATTENTION: D Deve
PHONE: 718 4467000 FAX: 718 458 5199

CLIENT PROJECT INFORMATION

PROJECT NAME: Transfe station SPRS
PROJECT NO.: 242113 LOCATION:
PROJECT MANAGER:
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

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

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ 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)
- ❑ EDD FORMAT _____
- ❑ Level 4 (QC + Full Raw Data)
- ❑ NJ Reduced ❑ US EPA CLP
- ❑ NYS ASP A ❑ NYS ASP B
- ❑ Other _____

ANALYSIS

1 Cu Fe Pb
2 BOD5
3 TSS
4 Hg 1631 LL
5 BTEX
6 O&G/Ammonia
7
8
9

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.	001 Willets Pt Blvd (Nov)	W		X	11/13	3pm		X	X	X	X	X	X				
2.	002 35th Ave (Nov)	W		X	11/13	3pm		X	X	X	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:
D Deve	11/13/24	1.
RELINQUISHED BY SAMPLER:	DATE/TIME: 1049 11-14-24	RECEIVED BY: 2.
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY: 3.

Conditions of bottles or coolers at receipt: ❑ COMPLIANT ❑ NON COMPLIANT ❑ COOLER TEMP 4.0 °C
Comments: IA Can #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 : P4853 TULL01
Client Name : Tully Environmental, Inc
Client Contact : Dean Devoe
Invoice Name : Tully Environmental, Inc
Invoice Contact : Dean Devoe

Order Date : 11/14/2024 11:45:00 AM
Project Name : Transfer Station-SPDES
Receive DateTime : 11/14/2024 10:49:00 AM
Purchase Order :

Project Mgr :
Report Type : Results Only
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4853-01	001-WILLETS-PT-BLVD(NOV)	Water	11/13/2024	15:00					
					VOC-BTEX		624.1		5 Bus. Days
P4853-02	002-35TH-AVE(NOV)	Water	11/13/2024	15:00					
					VOC-BTEX		624.1		5 Bus. Days

Relinguished By : CR
Date / Time : 11-14-24 1233

Received By : M
Date / Time : 11-14-24 12:33

Storage Area : VOA Refridgerator Room