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

Cover Page

Order ID : P4861

Project ID : Meeker Ave Plumes Superfund Site RI FS

Client : AECOM

Lab Sample Number	Client Sample Number
P4861-01	WC-11-A-202411

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: 11/26/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **P4861**

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

QA Review Signature: **PRADIP PRAJAPATI** **Date:** **11/26/2024**

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

LAB CHRONICLE

OrderID:	P4861	**OrderDate:**	11/14/2024 1:44:00 PM
Client:	AECOM	**Project:**	Meeker Ave Plumes Superfund Site RI FS
Contact:	Amit Haryani	**Location:**	L41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4861-01	**WC-11-A-202411**	**TCLP**			**11/13/24**			**11/14/24**
			TCLP VOA	8260D			11/18/24	

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

Hit Summary Sheet
SW-846

SDG No.: P4861

Client: AECOM

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**WC-11-A-202411**							
P4861-01	WC-11-A-202411	TCLP	Vinyl Chloride	2.10	J	0.34	5.00	ug/L
P4861-01	WC-11-A-202411	TCLP	Chloroform	1.00	J	0.26	5.00	ug/L
P4861-01	WC-11-A-202411	TCLP	Benzene	1.20	J	0.16	5.00	ug/L
P4861-01	WC-11-A-202411	TCLP	1,2-Dichloroethane	2.70	J	0.24	5.00	ug/L
P4861-01	WC-11-A-202411	TCLP	Trichloroethene	21.9		0.32	5.00	ug/L
P4861-01	WC-11-A-202411	TCLP	Tetrachloroethene	97.9		0.25	5.00	ug/L
			Total Voc :	127				
			Total Concentration:	127				

QC SUMMARY

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

Surrogate Summary

SDG No.: P4861

Client: AECOM

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P4861-01	WC-11-A-202411	1,2-Dichloroethane-d4	50	50.1	100	74	125
		Dibromofluoromethane	50	47.2	94	75	124
		Toluene-d8	50	46.5	93	86	113
		4-Bromofluorobenzene	50	53.5	107	77	121

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

Surrogate Summary

SDG No.: P4861

Client: AECOM

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
VN1118WBL01	VN1118WBL01	1,2-Dichloroethane-d4	50	52.4	105	74	125
		Dibromofluoromethane	50	49.6	99	75	124
		Toluene-d8	50	45.7	91	86	113
		4-Bromofluorobenzene	50	45.2	90	77	121
VN1118WBS01	VN1118WBS01	1,2-Dichloroethane-d4	50	51.1	102	74	125
		Dibromofluoromethane	50	51.7	103	75	124
		Toluene-d8	50	51.1	102	86	113
		4-Bromofluorobenzene	50	56.6	113	77	121
VN1118WBSD0	VN1118WBSD01	1,2-Dichloroethane-d4	50	47.7	95	74	125
		Dibromofluoromethane	50	47.3	95	75	124
		Toluene-d8	50	46.1	92	86	113
		4-Bromofluorobenzene	50	49.8	100	77	121

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4861

Client: AECOM

Analytical Method: SW8260-Low **Datafile :** VN084919.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1118WBS01	Vinyl chloride	20	20.6	ug/L	103			65	117	
	1,1-Dichloroethene	20	20.9	ug/L	104			74	110	
	2-Butanone	100	120	ug/L	120			65	122	
	Carbon Tetrachloride	20	21.6	ug/L	108			77	113	
	Chloroform	20	22.0	ug/L	110			79	113	
	Benzene	20	21.2	ug/L	106			82	109	
	1,2-Dichloroethane	20	21.9	ug/L	110			80	115	
	Trichloroethene	20	20.3	ug/L	102			77	113	
	Tetrachloroethene	20	20.4	ug/L	102			67	123	
	Chlorobenzene	20	21.5	ug/L	108			82	109	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4861

Client: AECOM

Analytical Method: SW8260-Low **Datafile :** VN084923.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1118WBSD01	Vinyl chloride	20	18.2	ug/L	91	12		65	117	20
	1,1-Dichloroethene	20	18.1	ug/L	91	13		74	110	20
	2-Butanone	100	100	ug/L	100	18		65	122	20
	Carbon Tetrachloride	20	18.5	ug/L	93	15		77	113	20
	Chloroform	20	19.0	ug/L	95	15		79	113	20
	Benzene	20	17.9	ug/L	90	16		82	109	20
	1,2-Dichloroethane	20	18.6	ug/L	93	17		80	115	20
	Trichloroethene	20	17.5	ug/L	88	15		77	113	20
	Tetrachloroethene	20	17.1	ug/L	86	17		67	123	20
	Chlorobenzene	20	17.7	ug/L	89	19		82	109	20

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

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1118WBL01

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: P4861 SAS No.: P4861 SDG NO.: P4861

Lab File ID: VN084913.D Lab Sample ID: VN1118WBL01

Date Analyzed: 11/18/2024 Time Analyzed: 12:27

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
VN1118WBS01	VN1118WBS01	VN084919.D	11/18/2024
VN1118WBSD01	VN1118WBSD01	VN084923.D	11/18/2024
WC-11-A-202411	P4861-01	VN084924.D	11/18/2024

COMMENTS:

Alliance TECHNICAL GROUP

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: P4861 SAS No.: P4861 SDG NO.: P4861

Lab File ID: VN084569.D BFB Injection Date: 10/30/2024

Instrument ID: MSVOA_N BFB Injection Time: 10:42

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.5
75	30.0 - 60.0% of mass 95	50.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	1.2 (1.6) 1
174	50.0 - 100.0% of mass 95	73.5
175	5.0 - 9.0% of mass 174	5.7 (7.7) 1
176	95.0 - 101.0% of mass 174	70.1 (95.4) 1
177	5.0 - 9.0% of mass 176	4.8 (6.9) 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
VSTDICC100	VSTDICC100	VN084570.D	10/30/2024	11:46
VSTDICCC050	VSTDICCC050	VN084571.D	10/30/2024	12:09
VSTDICC020	VSTDICC020	VN084572.D	10/30/2024	12:33
VSTDICC010	VSTDICC010	VN084573.D	10/30/2024	12:57
VSTDICC005	VSTDICC005	VN084574.D	10/30/2024	13:21
VSTDICC001	VSTDICC001	VN084575.D	10/30/2024	13:45

Raw Data: **VN084910.D**

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: P4861 SAS No.: P4861 SDG NO.: P4861

Lab File ID: VN084910.D BFB Injection Date: 11/18/2024

Instrument ID: MSVOA_N BFB Injection Time: 08:47

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	19.9
75	30.0 - 60.0% of mass 95	48.8
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	0.5 (0.6) 1
174	50.0 - 100.0% of mass 95	73.2
175	5.0 - 9.0% of mass 174	6.1 (8.3) 1
176	95.0 - 101.0% of mass 174	72 (98.4) 1
177	5.0 - 9.0% of mass 176	4.4 (6.1) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN084911.D	11/18/2024	09:51
VN1118WBL01	VN1118WBL01	VN084913.D	11/18/2024	12:27
VN1118WBS01	VN1118WBS01	VN084919.D	11/18/2024	14:52
VN1118WBSD01	VN1118WBSD01	VN084923.D	11/18/2024	16:28
WC-11-A-202411	P4861-01	VN084924.D	11/18/2024	16:52

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: P4861 SAS No.: P4861 SDG NO.: P4861

Lab File ID: VN084911.D Date Analyzed: 11/18/2024

Instrument ID: MSVOA_N Time Analyzed: 09:51

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	168638	8.22	277153	9.09	245519	11.87
UPPER LIMIT	337276	8.718	554306	9.594	491038	12.365
LOWER LIMIT	84319	7.718	138577	8.594	122760	11.365
EPA SAMPLE NO.						
WC-11-A-202411	175303	8.22	312575	9.10	285945	11.87
VN1118WBL01	175680	8.22	312901	9.10	269131	11.87
VN1118WBS01	184217	8.22	316400	9.09	286519	11.87
VN1118WBSD01	187181	8.22	326112	9.10	290218	11.87

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

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: P4861 SAS No.: P4861 SDG NO.: P4861

Lab File ID: VN084911.D Date Analyzed: 11/18/2024

Instrument ID: MSVOA_N Time Analyzed: 09:51

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

	IS4 AREA #	RT #				
12 HOUR STD	120987	13.788				
UPPER LIMIT	241974	14.288				
LOWER LIMIT	60493.5	13.288				
EPA SAMPLE NO.						
WC-11-A-202411	132563	13.79				
VN1118WBL01	114405	13.79				
VN1118WBS01	143055	13.79				
VN1118WBSD01	145074	13.79				

IS4 = 1,4-Dichlorobenzene-d4

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

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

SAMPLE DATA

Raw Data: **VN084924.D**

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

Report of Analysis

Client:	AECOM	Date Collected:	11/13/24
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	11/14/24
Client Sample ID:	WC-11-A-202411	SDG No.:	P4861
Lab Sample ID:	P4861-01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084924.D	1		11/18/24 16:52	VN111824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	2.10	J	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	1.00	J	0.26	5.00	ug/L
71-43-2	Benzene	1.20	J	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	2.70	J	0.24	5.00	ug/L
79-01-6	Trichloroethene	21.9		0.32	5.00	ug/L
127-18-4	Tetrachloroethene	97.9		0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.1		74 - 125	100%	SPK: 50
1868-53-7	Dibromofluoromethane	47.2		75 - 124	94%	SPK: 50
2037-26-5	Toluene-d8	46.5		86 - 113	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.5		77 - 121	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	175000	8.224			
540-36-3	1,4-Difluorobenzene	313000	9.1			
3114-55-4	Chlorobenzene-d5	286000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	133000	13.788			

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\VN111824\
Data File : VN084924.D
Acq On : 18 Nov 2024 16:52
Operator : JC\MD
Sample : P4861-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WC-11-A-202411

Quant Time: Nov 19 00:30:36 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	175303	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	312575	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	285945	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	132563	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	126751	50.060	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.120%			
35) Dibromofluoromethane	8.165	113	99846	47.192	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.380%			
50) Toluene-d8	10.565	98	362247	46.479	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 92.960%			
62) 4-Bromofluorobenzene	12.847	95	155743	53.469	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.940%			
Target Compounds						Qvalue
4) Vinyl Chloride	2.506	62	4479	2.066	ug/l #	77
19) Methyl tert-butyl Ether	5.783	73	14639	2.392	ug/l	94
24) 1,1-Dichloroethane	6.565	63	13846	3.585	ug/l	95
27) cis-1,2-Dichloroethene	7.488	96	181372	75.775	ug/l	88
30) Chloroform	7.959	83	3993	1.016	ug/l	92
40) Benzene	8.606	78	11095	1.177	ug/l	97
42) 1,2-Dichloroethane	8.665	62	8263	2.708	ug/l	100
44) Trichloroethene	9.347	130	47544	21.877	ug/l	100
64) Tetrachloroethene	11.100	164	186140	97.865	ug/l	97
91) 1,2-Dichlorobenzene	14.106	146	11726	2.504	ug/l	90
93) 1,2,4-Trichlorobenzene	15.394	180	5039	1.966	ug/l	87
95) Naphthalene	15.641	128	11339	1.478	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.829	180	3125	1.256	ug/l	88

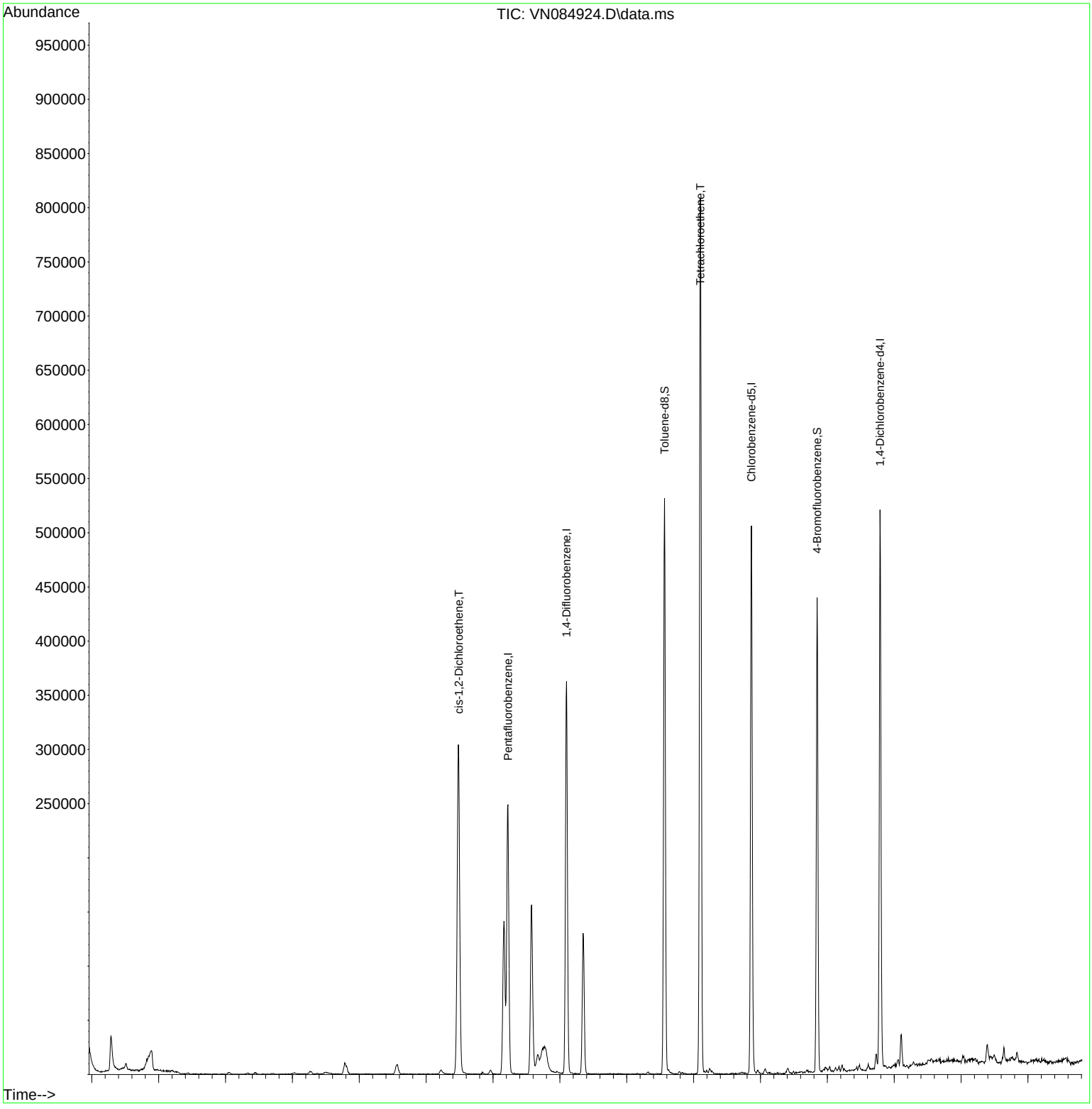
(#) = qualifier out of range (m) = manual integration (+) = signals summed

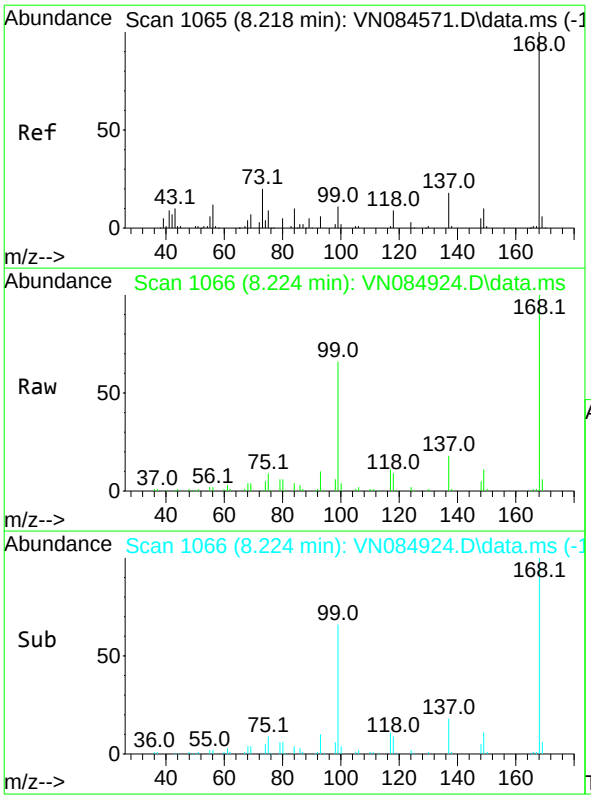
Sample Results: **VN084924.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084924.D
Acq On : 18 Nov 2024 16:52
Operator : JC\MD
Sample : P4861-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WC-11-A-202411

Quant Time: Nov 19 00:30:36 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



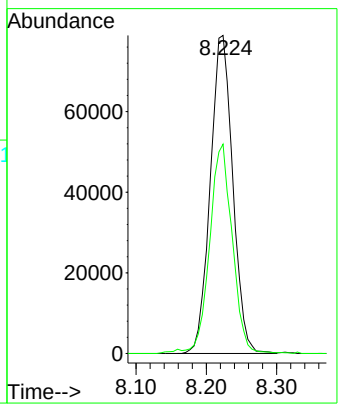


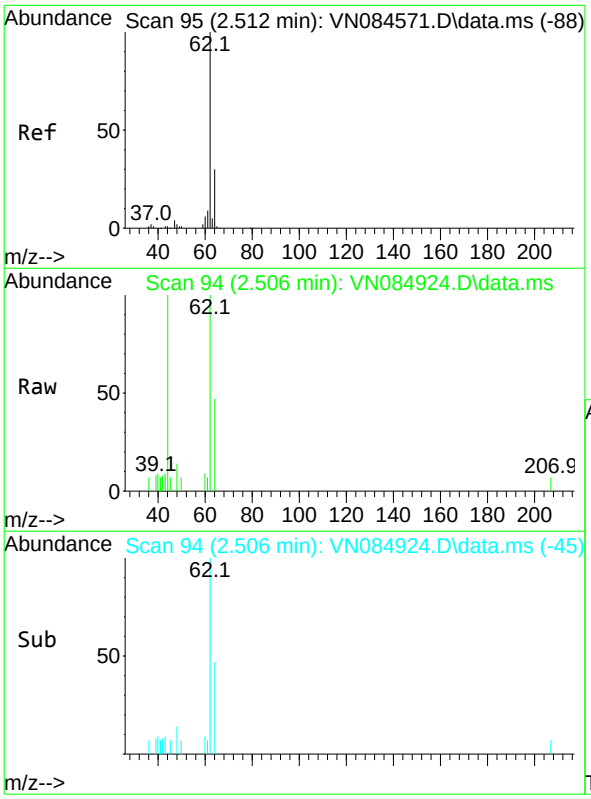
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN084924.D
Acq: 18 Nov 2024 16:52

Instrument :
MSVOA_N
ClientSampleId :
WC-11-A-202411

Tgt Ion:168 Resp: 175303

Ion	Ratio	Lower	Upper
168	100		
99	65.6	54.2	81.2

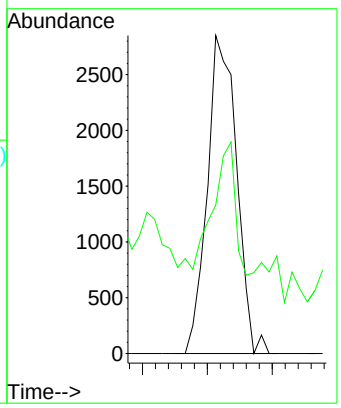


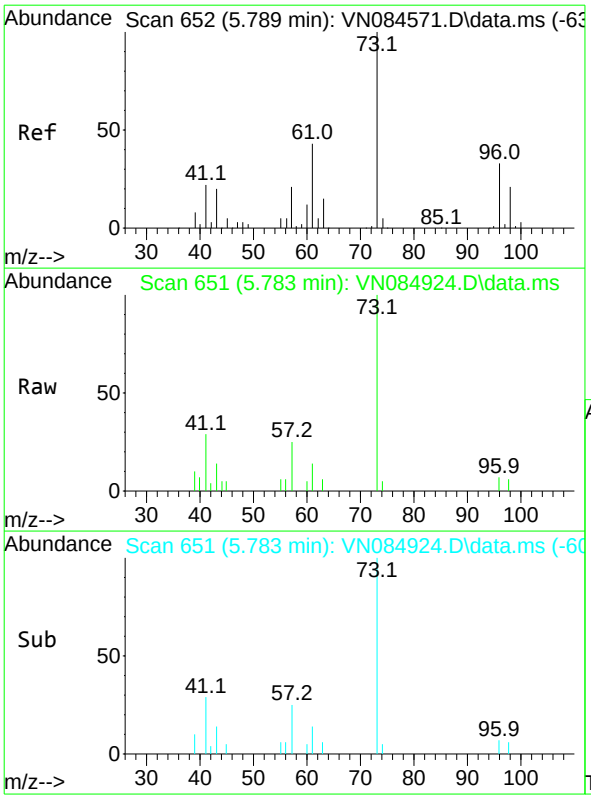


#4
Vinyl Chloride
Concen: 2.066 ug/l
RT: 2.506 min Scan# 94
Delta R.T. -0.012 min
Lab File: VN084924.D
Acq: 18 Nov 2024 16:52

Tgt Ion: 62 Resp: 4479

Ion	Ratio	Lower	Upper
62	100		
64	19.6	26.2	39.4#



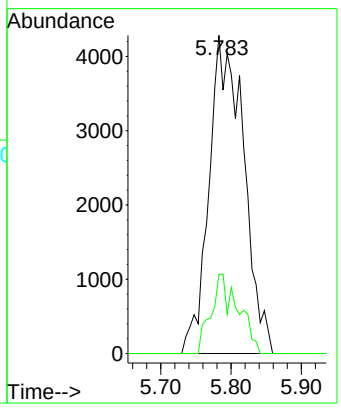


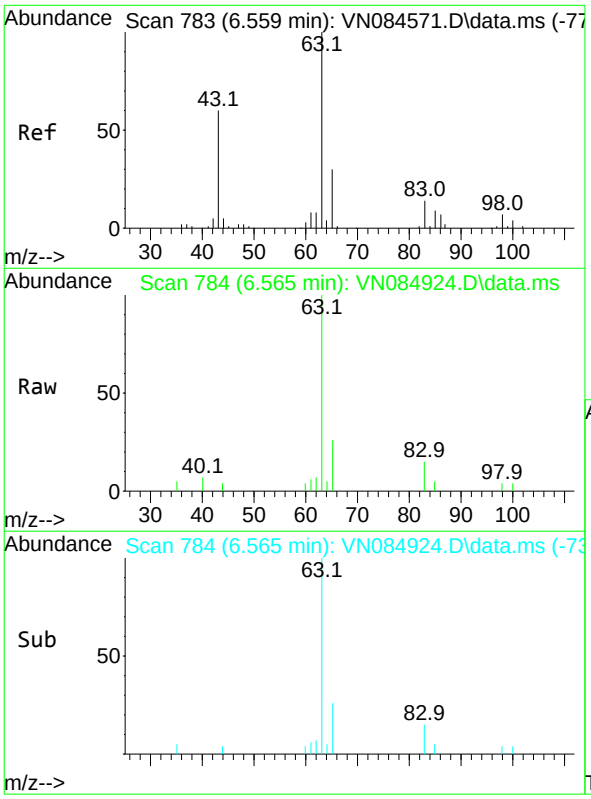
#19
Methyl tert-butyl Ether
Concen: 2.392 ug/l
RT: 5.783 min Scan# 65
Delta R.T. -0.012 min
Lab File: VN084924.D
Acq: 18 Nov 2024 16:52

Instrument :
MSVOA_N
ClientSampleId :
WC-11-A-202411

Tgt Ion: 73 Resp: 14639

Ion	Ratio	Lower	Upper
73	100		
57	24.9	17.7	26.5

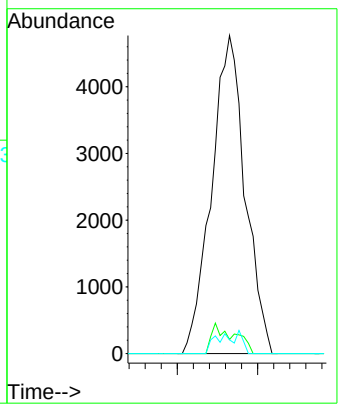


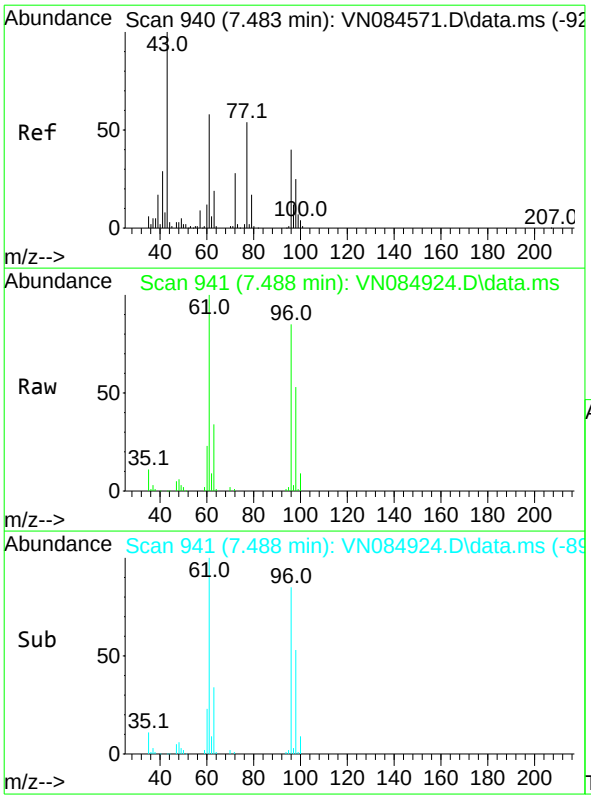


#24
1,1-Dichloroethane
Concen: 3.585 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.006 min
Lab File: VN084924.D
Acq: 18 Nov 2024 16:52

Tgt Ion: 63 Resp: 13846

Ion	Ratio	Lower	Upper
63	100		
98	4.4	3.4	10.2
100	4.3	2.0	5.8



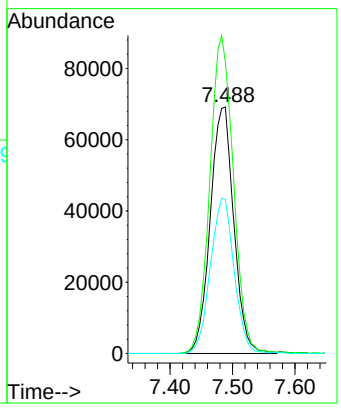


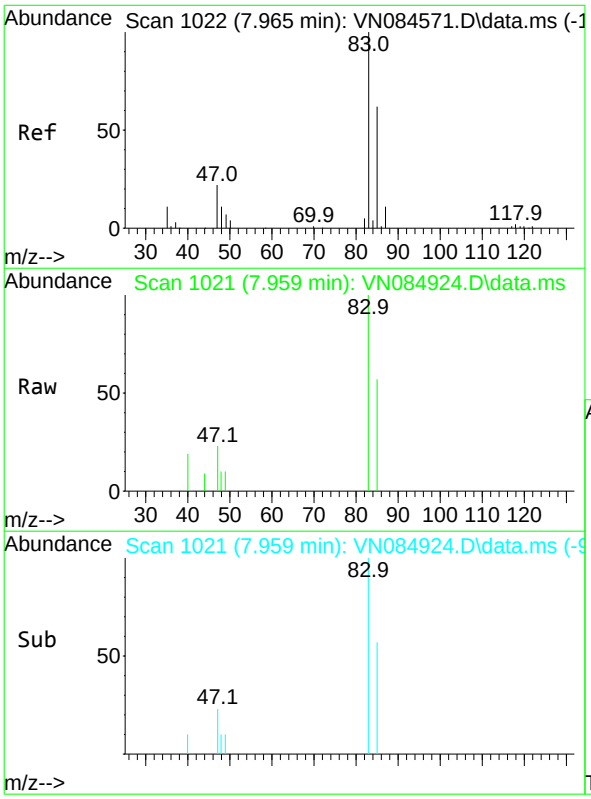
#27
cis-1,2-Dichloroethene
Concen: 75.775 ug/l
RT: 7.488 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN084924.D
Acq: 18 Nov 2024 16:52

Instrument :
MSVOA_N
ClientSampleId :
WC-11-A-202411

Tgt Ion: 96 Resp: 181372

Ion	Ratio	Lower	Upper
96	100		
61	129.0	0.0	301.8
98	63.4	0.0	128.2

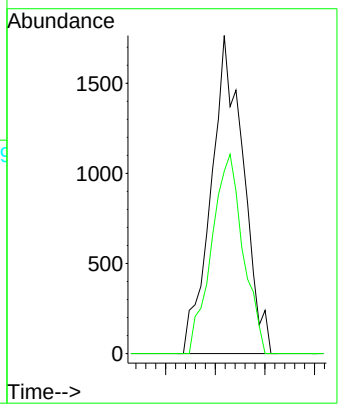


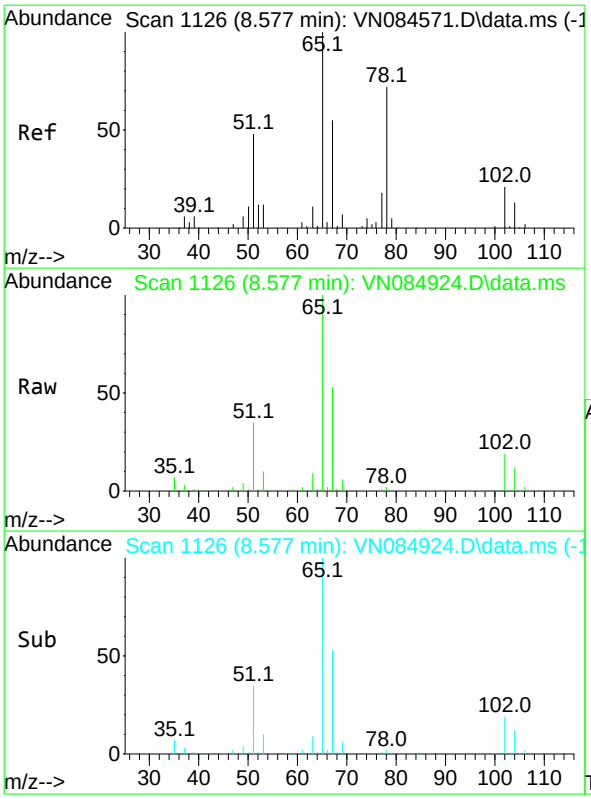


#30
Chloroform
Concen: 1.016 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. -0.006 min
Lab File: VN084924.D
Acq: 18 Nov 2024 16:52

Tgt Ion: 83 Resp: 3993

Ion	Ratio	Lower	Upper
83	100		
85	57.3	51.0	76.4



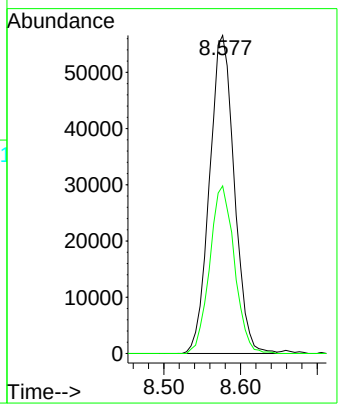


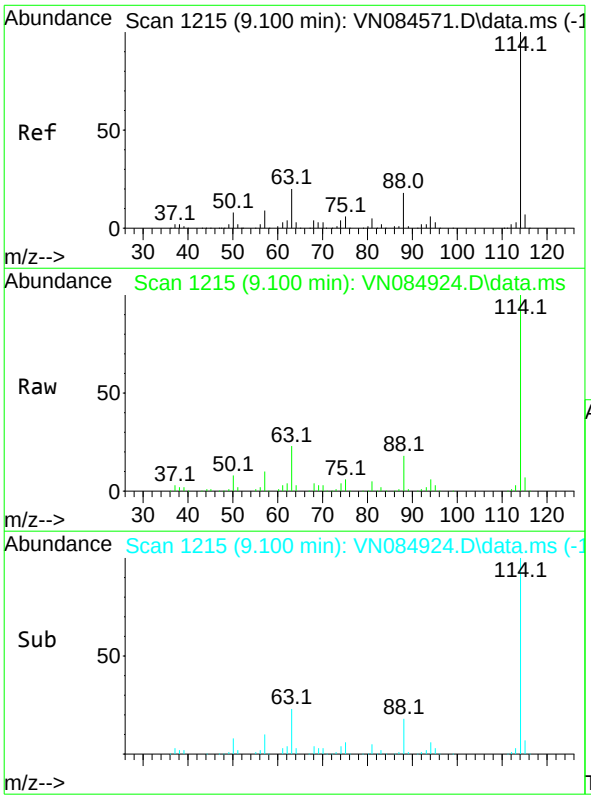
#33
1,2-Dichloroethane-d4
Concen: 50.060 ug/l
RT: 8.577 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN084924.D
Acq: 18 Nov 2024 16:52

Instrument :
MSVOA_N
ClientSampleId :
WC-11-A-202411

Tgt Ion: 65 Resp: 126751

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	102.0

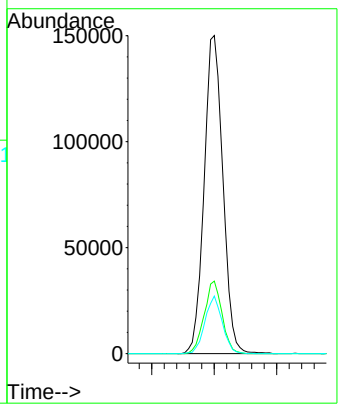


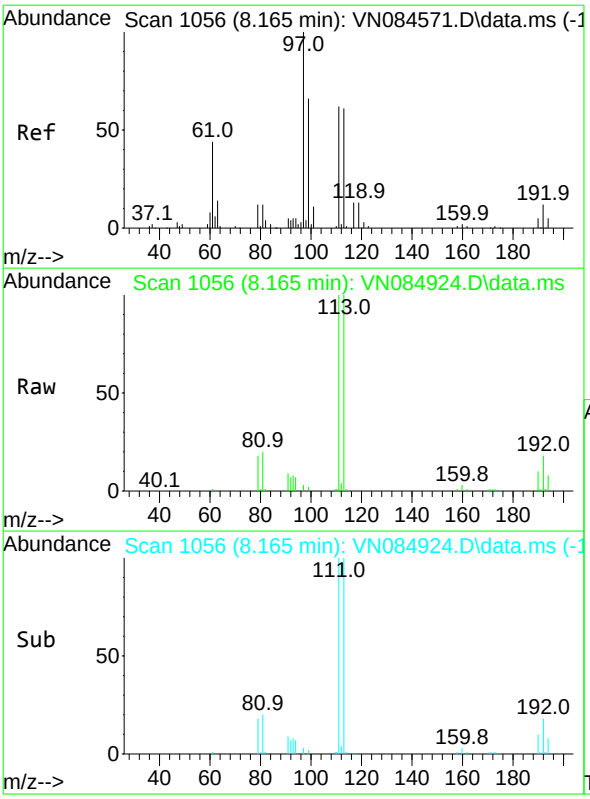


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084924.D
Acq: 18 Nov 2024 16:52

Tgt Ion:114 Resp: 312575

Ion	Ratio	Lower	Upper
114	100		
63	22.8	0.0	43.8
88	18.1	0.0	31.6



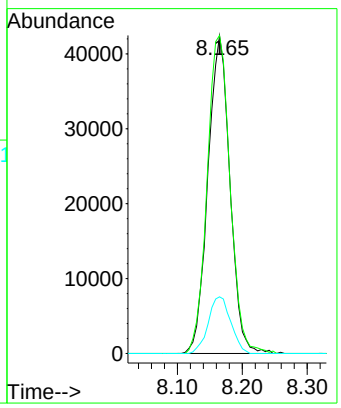


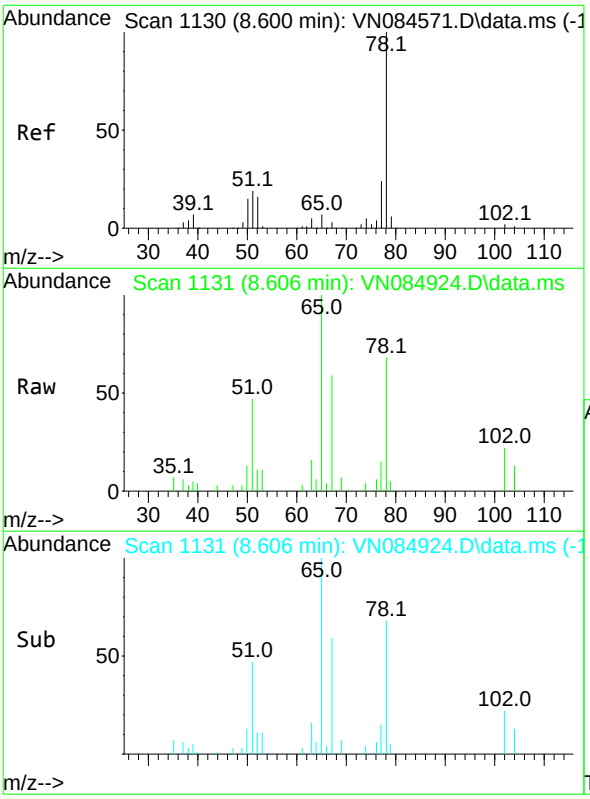
#35
Dibromofluoromethane
Concen: 47.192 ug/l
RT: 8.165 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN084924.D
Acq: 18 Nov 2024 16:52

Instrument :
MSVOA_N
ClientSampleId :
WC-11-A-202411

Tgt Ion:113 Resp: 99846

Ion	Ratio	Lower	Upper
113	100		
111	104.4	83.3	124.9
192	18.2	13.5	20.3

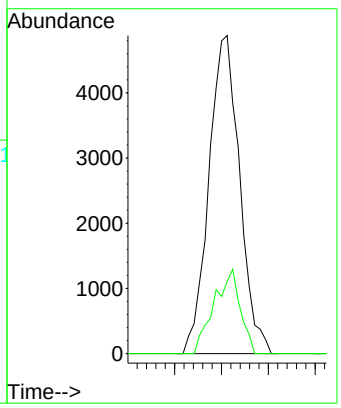


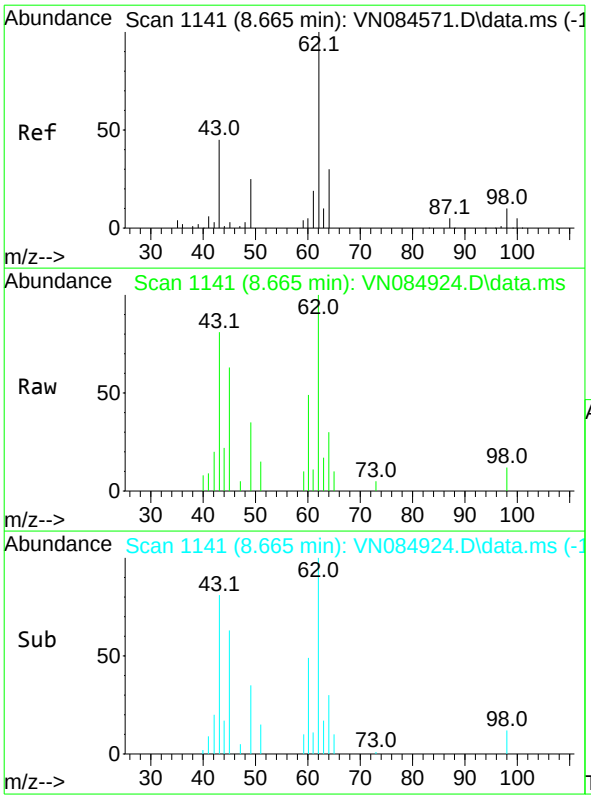


#40
Benzene
Concen: 1.177 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN084924.D
Acq: 18 Nov 2024 16:52

Tgt Ion: 78 Resp: 11095

Ion	Ratio	Lower	Upper
78	100		
77	22.7	19.1	28.7



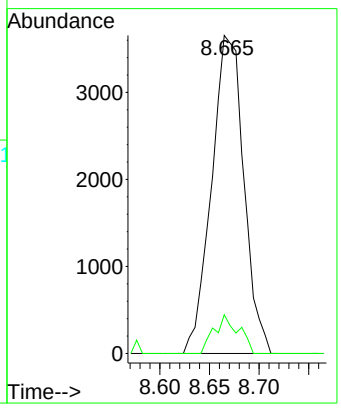


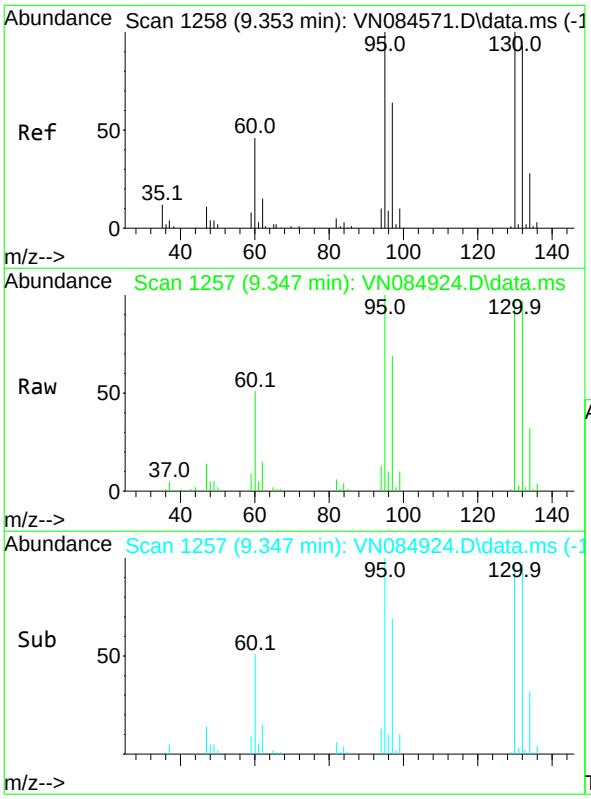
#42
1,2-Dichloroethane
Concen: 2.708 ug/l
RT: 8.665 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN084924.D
Acq: 18 Nov 2024 16:52

Instrument :
MSVOA_N
ClientSampleId :
WC-11-A-202411

Tgt Ion: 62 Resp: 8263

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	18.2

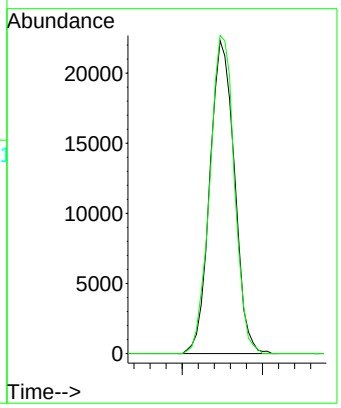


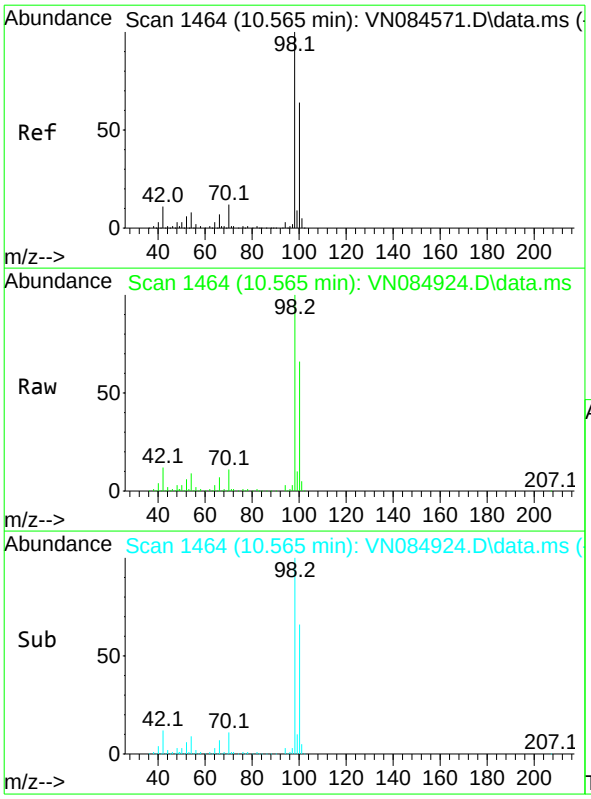


#44
Trichloroethene
Concen: 21.877 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN084924.D
Acq: 18 Nov 2024 16:52

Tgt Ion:130 Resp: 47544

Ion	Ratio	Lower	Upper
130	100		
95	101.6	0.0	203.0



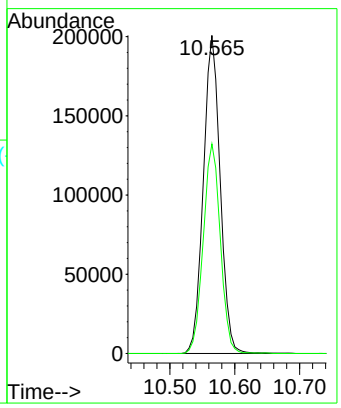


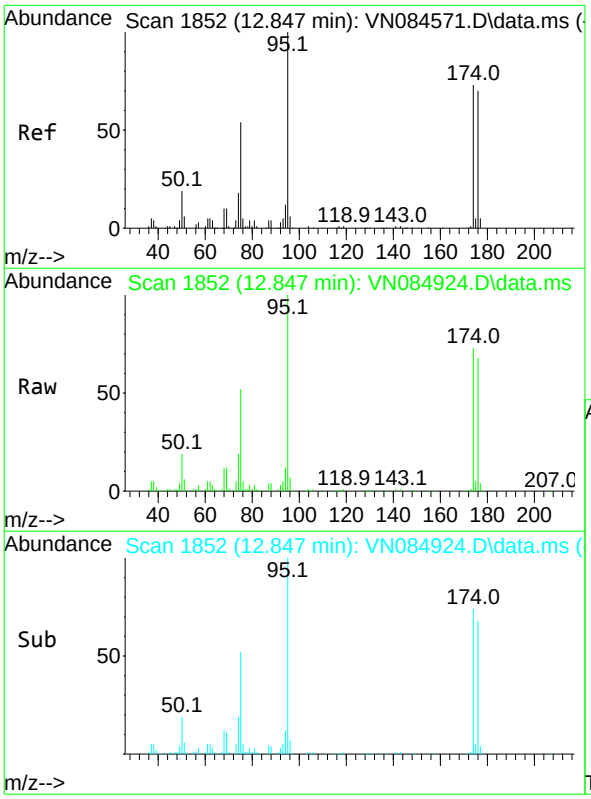
#50
Toluene-d8
Concen: 46.479 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN084924.D
Acq: 18 Nov 2024 16:52

Instrument :
MSVOA_N
ClientSampleId :
WC-11-A-202411

Tgt Ion: 98 Resp: 362247

Ion	Ratio	Lower	Upper
98	100		
100	66.7	52.7	79.1

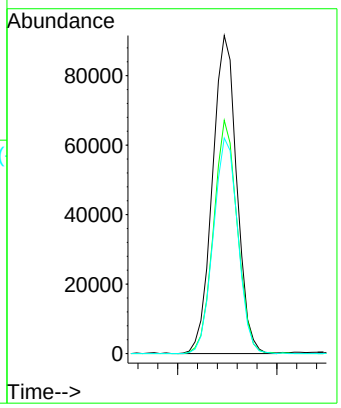


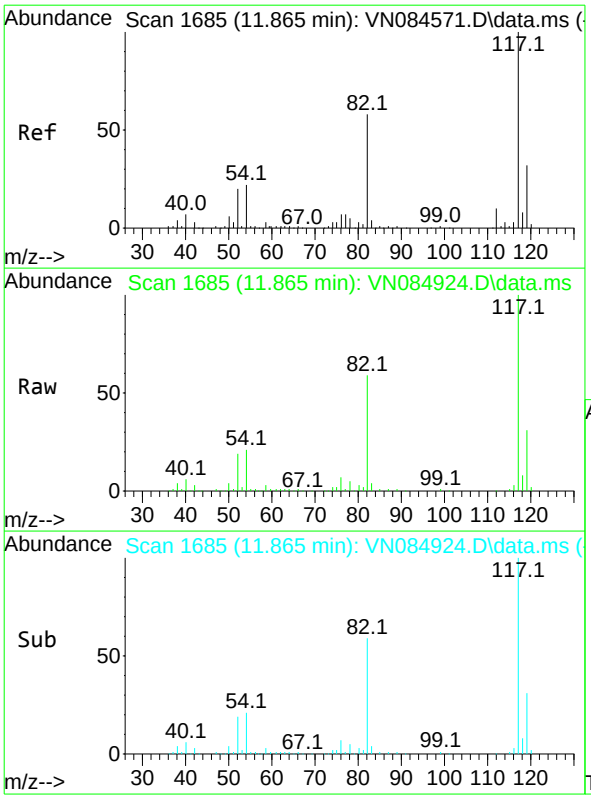


#62
4-Bromofluorobenzene
Concen: 53.469 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084924.D
Acq: 18 Nov 2024 16:52

Tgt Ion: 95 Resp: 155743

Ion	Ratio	Lower	Upper
95	100		
174	71.7	0.0	145.2
176	68.2	0.0	140.0



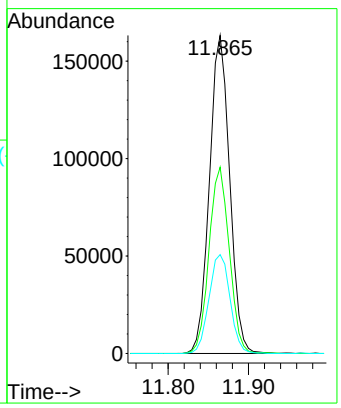


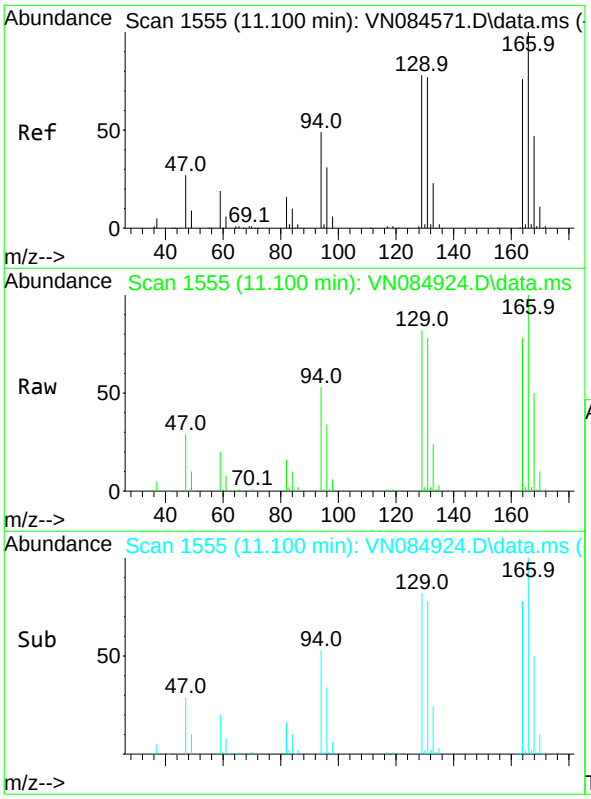
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN084924.D
Acq: 18 Nov 2024 16:52

Instrument :
MSVOA_N
ClientSampleId :
WC-11-A-202411

Tgt Ion:117 Resp: 285945

Ion	Ratio	Lower	Upper
117	100		
82	58.6	47.2	70.8
119	31.1	25.4	38.0

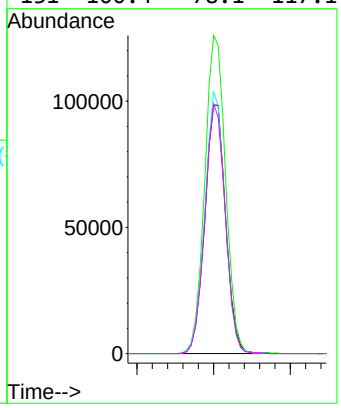


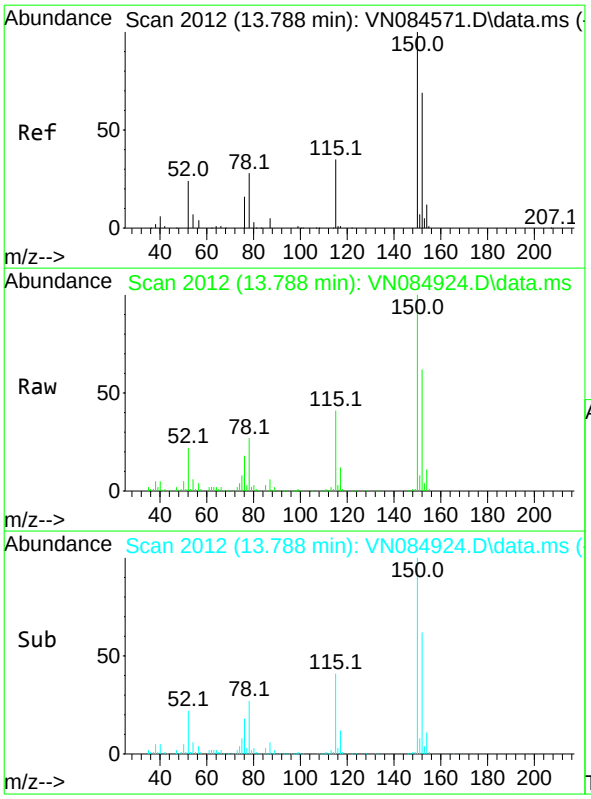


#64
Tetrachloroethene
Concen: 97.865 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN084924.D
Acq: 18 Nov 2024 16:52

Tgt Ion:164 Resp: 186140

Ion	Ratio	Lower	Upper
164	100		
166	128.0	101.0	151.4
129	105.3	80.8	121.2
131	100.4	78.1	117.1



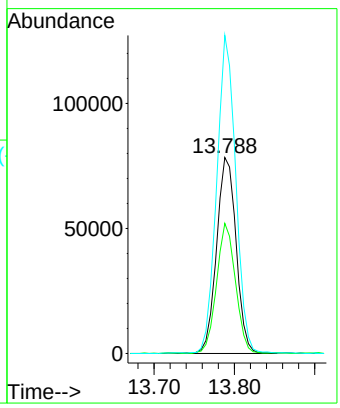


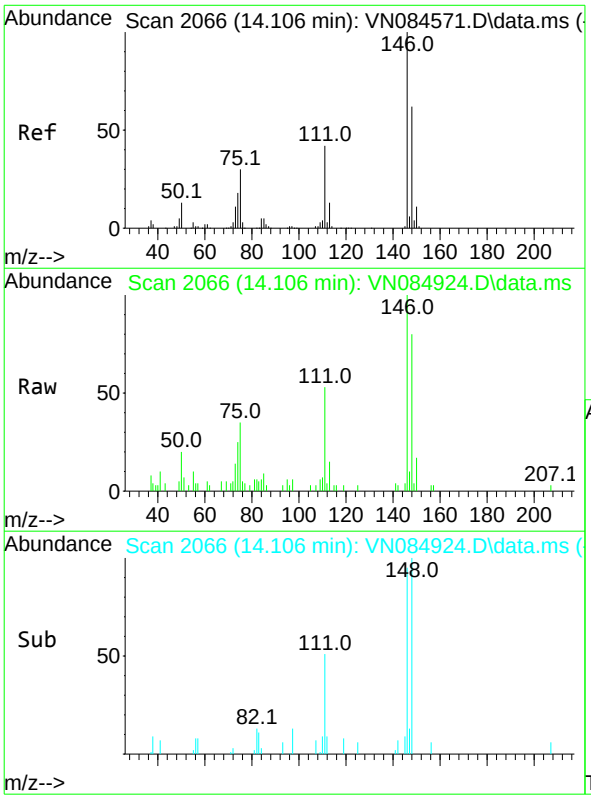
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN084924.D
Acq: 18 Nov 2024 16:52

Instrument :
MSVOA_N
ClientSampleId :
WC-11-A-202411

Tgt Ion:152 Resp: 132563

Ion	Ratio	Lower	Upper
152	100		
115	64.2	31.3	93.9
150	158.3	0.0	349.8

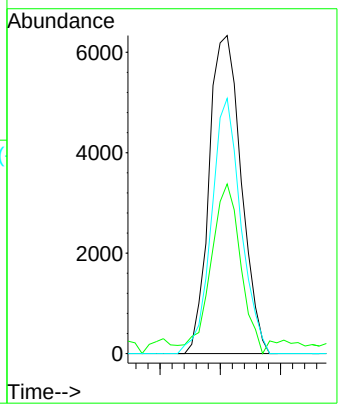


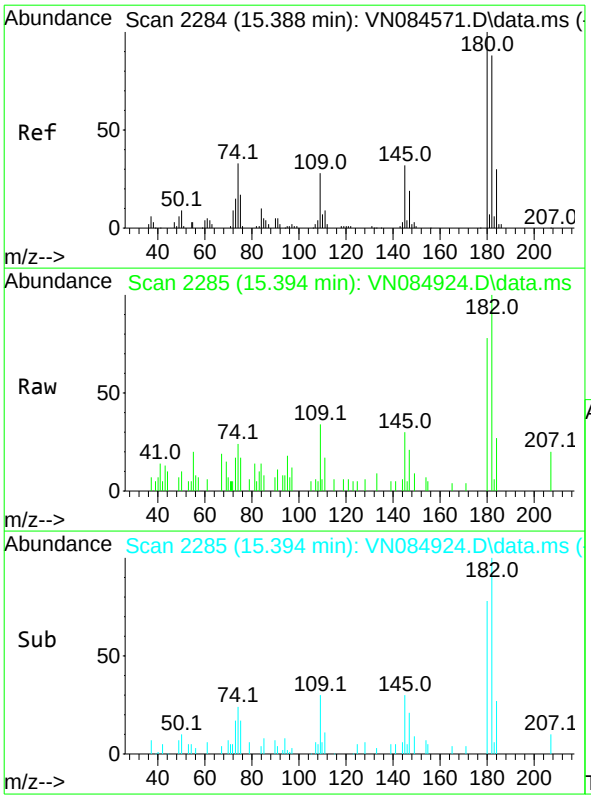


#91
1,2-Dichlorobenzene
Concen: 2.504 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.000 min
Lab File: VN084924.D
Acq: 18 Nov 2024 16:52

Tgt Ion:146 Resp: 11726

Ion	Ratio	Lower	Upper
146	100		
111	49.4	22.0	66.0
148	73.5	32.1	96.3



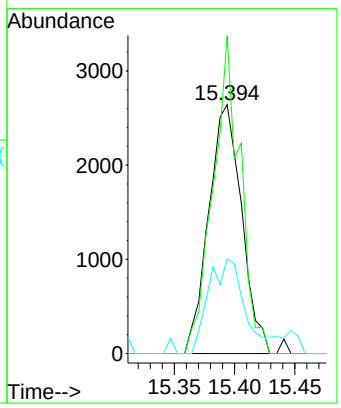


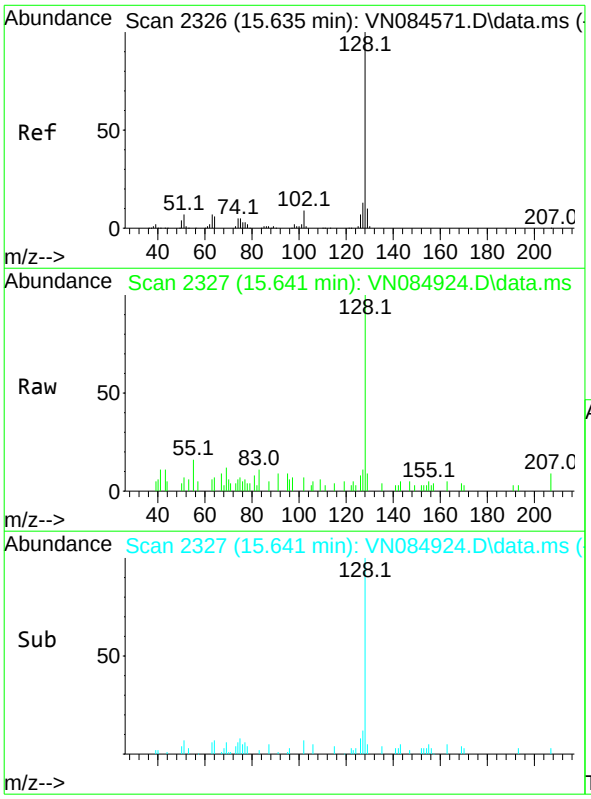
#93
1,2,4-Trichlorobenzene
Concen: 1.966 ug/l
RT: 15.394 min Scan# 22
Delta R.T. 0.006 min
Lab File: VN084924.D
Acq: 18 Nov 2024 16:52

Instrument :
MSVOA_N
ClientSampleId :
WC-11-A-202411

Tgt Ion:180 Resp: 5039

Ion	Ratio	Lower	Upper
180	100		
182	105.7	47.0	141.0
145	41.5	16.4	49.4

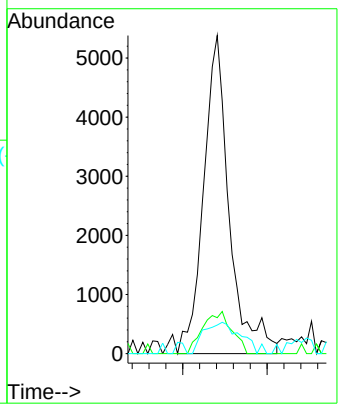


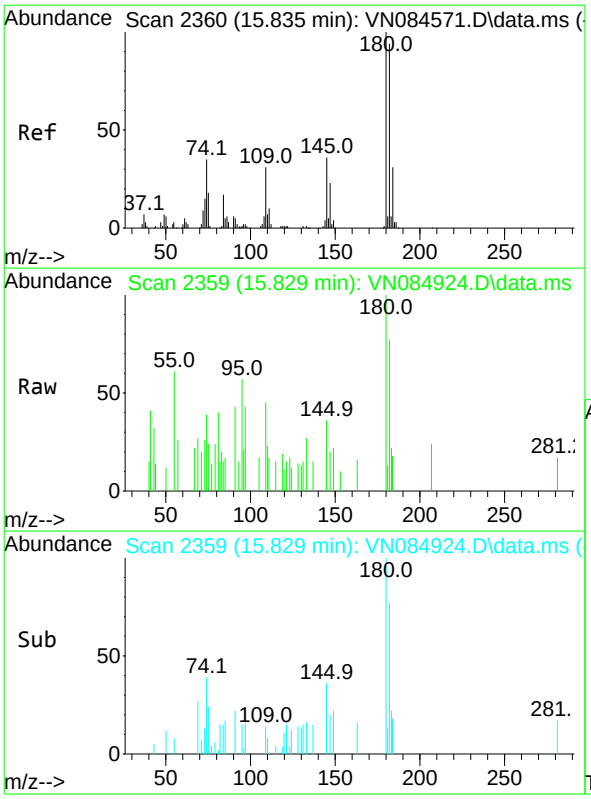


#95
Naphthalene
Concen: 1.478 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.006 min
Lab File: VN084924.D
Acq: 18 Nov 2024 16:52

Tgt Ion:128 Resp: 11339

Ion	Ratio	Lower	Upper
128	100		
127	14.9	10.5	15.7
129	14.3	8.7	13.1#



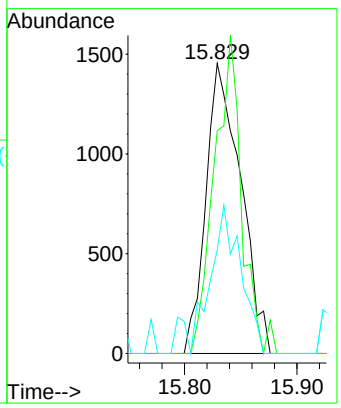


#96
1,2,3-Trichlorobenzene
Concen: 1.256 ug/l
RT: 15.829 min Scan# 23
Delta R.T. -0.006 min
Lab File: VN084924.D
Acq: 18 Nov 2024 16:52

Instrument :
MSVOA_N
ClientSampleId :
WC-11-A-202411

Tgt Ion:180 Resp: 3125

Ion	Ratio	Lower	Upper
180	100		
182	85.7	48.2	144.6
145	44.3	17.3	51.9



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: AECO02

Lab Code: CHEM Case No.: P4861 SAS No.: P4861 SDG No.: P4861

Instrument ID: MSVOA_N Calibration Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Calibration Time(s): 11:46 13:45

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

LAB FILE ID: RRF100 = VN084570.D RRF050 = VN084571.D RRF020 = VN084572.D
RRF010 = VN084573.D RRF005 = VN084574.D RRF001 = VN084575.D

COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	$\overline{RRF}$	% RSD
Vinyl Chloride	0.613	0.605	0.623	0.636	0.651	0.581	0.618	4
1,1-Dichloroethene	0.548	0.538	0.560	0.575	0.552	0.644	0.569	6.8
2-Butanone	0.316	0.315	0.348	0.338	0.370	0.334	0.337	6.1
Carbon Tetrachloride	0.530	0.514	0.532	0.548	0.537	0.488	0.525	4
Chloroform	1.099	1.086	1.142	1.154	1.222	1.025	1.121	6
Benzene	1.494	1.448	1.509	1.507	1.546	1.540	1.507	2.4
1,2-Dichloroethane	0.488	0.494	0.493	0.492	0.503	0.459	0.488	3.1
Trichloroethene	0.339	0.335	0.345	0.338	0.341	0.387	0.348	5.7
Tetrachloroethene	0.326	0.313	0.333	0.347	0.351	0.325	0.333	4.3
Chlorobenzene	1.068	1.061	1.149	1.123	1.165	1.146	1.119	3.9
1,2-Dichloroethane-d4	0.689	0.721	0.708	0.722	0.771		0.722	4.2
Dibromofluoromethane	0.334	0.344	0.326	0.336	0.353		0.338	3.1
Toluene-d8	1.267	1.303	1.216	1.231	1.217		1.247	3
4-Bromofluorobenzene	0.481	0.493	0.450	0.451	0.454		0.466	4.3

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

Response Factor Report MSVOA_N_NEW

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 82N103024W.M
Title : SW846 8260
Last Update : Thu Oct 31 18:45:38 2024
Response Via : Initial Calibration

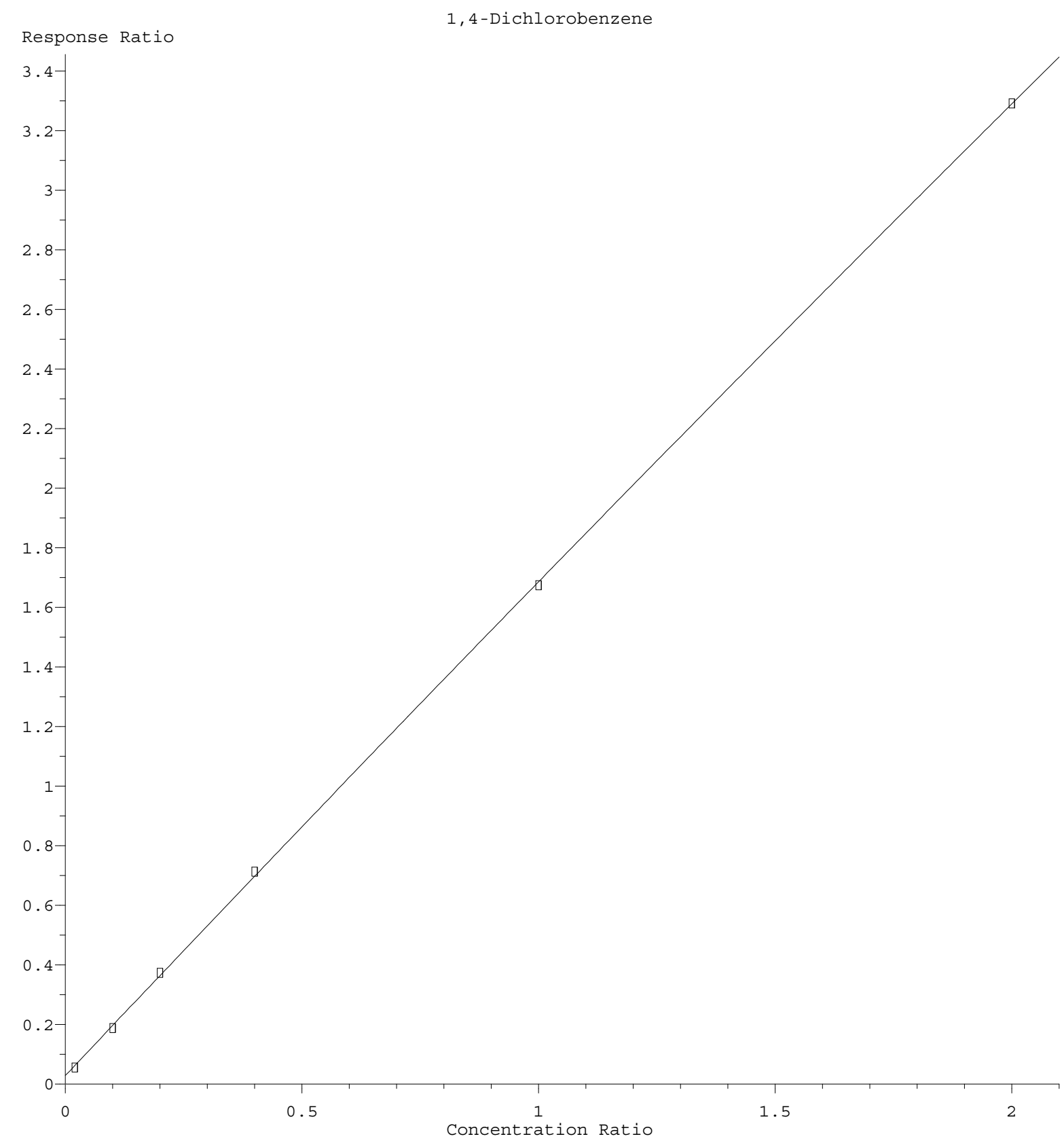
Calibration Files
1 =VN084575.D 5 =VN084574.D 10 =VN084573.D 20 =VN084572.D 50 =VN084571.D 100 =VN084570.D

		Compound	1	5	10	20	50	100	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.581	0.594	0.598	0.552	0.552	0.571	0.575	3.43
3)	P	Chloromethane	1.789	0.995	0.871	0.725	0.672	0.658	0.952	45.21
4)	C	Vinyl Chloride	0.581	0.651	0.636	0.623	0.605	0.613	0.618	3.98#
5)	T	Bromomethane		0.405	0.336	0.310	0.296	0.292	0.328	14.16
6)	T	Chloroethane	0.863	0.475	0.426	0.413	0.376	0.378	0.488	38.29
7)	T	Trichlorofluor...	1.071	1.070	1.022	1.017	0.959	0.971	1.018	4.66
8)	T	Diethyl Ether	0.358	0.371	0.364	0.359	0.353	0.351	0.359	2.08
9)	T	1,1,2-Trichlor...	0.586	0.588	0.585	0.571	0.557	0.566	0.575	2.23
10)	T	Methyl Iodide		0.817	0.800	0.764	0.736	0.728	0.769	5.08
11)	T	Tert butyl alc...		0.118	0.100	0.090	0.086	0.082	0.095	15.11
12)	CM	1,1-Dichloroet...	0.644	0.552	0.575	0.560	0.538	0.548	0.569	6.78#
13)	T	Acrolein		0.104	0.096	0.101	0.088	0.086	0.095	8.16
14)	T	Allyl chloride	0.849	0.977	0.925	0.939	0.917	0.934	0.923	4.56
15)	T	Acrylonitrile	0.263	0.294	0.282	0.282	0.271	0.264	0.276	4.42
16)	T	Acetone	0.338	0.241	0.223	0.213	0.204	0.209	0.238	21.31
17)	T	Carbon Disulfide	2.117	1.784	1.714	1.700	1.603	1.604	1.753	10.90
18)	T	Methyl Acetate	2.291	1.266	1.044	0.954	0.749	0.731	1.172	49.71
19)	T	Methyl tert-bu...	1.572	1.786	1.779	1.802	1.758	1.773	1.745	4.92
20)	T	Methylene Chlo...	0.600	0.714	0.658	0.633	0.602	0.604	0.635	7.09
21)	T	trans-1,2-Dich...	0.601	0.584	0.600	0.596	0.563	0.565	0.585	2.94
22)	T	Diisopropyl ether	1.623	1.843	1.909	1.921	1.855	1.858	1.835	5.91
23)	T	Vinyl Acetate	1.090	1.297	1.298	1.306	1.299	1.303	1.265	6.81
24)	P	1,1-Dichloroet...	1.033	1.203	1.127	1.114	1.066	1.067	1.102	5.49
25)	T	2-Butanone	0.334	0.370	0.338	0.348	0.315	0.316	0.337	6.14
26)	T	2,2-Dichloropr...	0.933	0.959	0.978	0.974	0.941	0.968	0.959	1.93
27)	T	cis-1,2-Dichlo...	0.673	0.705	0.685	0.697	0.662	0.675	0.683	2.38
28)	T	Bromochloromet...	0.429	0.408	0.415	0.388	0.511	0.483	0.439	10.79
29)	T	Tetrahydrofuran	0.197	0.236	0.234	0.231	0.222	0.221	0.224	6.52
30)	C	Chloroform	1.025	1.222	1.154	1.142	1.086	1.099	1.121	6.02#
31)	T	Cyclohexane		1.093	1.043	0.956	0.938	0.956	0.997	6.75
32)	T	1,1,1-Trichlor...	0.980	1.032	1.073	1.046	0.991	1.000	1.021	3.53
33)	S	1,2-Dichloroet...		0.771	0.722	0.708	0.721	0.689	0.722	4.20
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.353	0.336	0.326	0.344	0.334	0.338	3.07
36)	T	1,1-Dichloropr...	0.474	0.477	0.468	0.471	0.451	0.476	0.469	2.02
37)	T	Ethyl Acetate	0.410	0.466	0.404	0.429	0.422	0.424	0.426	5.14
38)	T	Carbon Tetrach...	0.488	0.537	0.548	0.532	0.514	0.530	0.525	4.04
39)	T	Methylcyclohexane	0.371	0.458	0.487	0.495	0.509	0.546	0.478	12.46
40)	TM	Benzene	1.540	1.546	1.507	1.509	1.448	1.494	1.507	2.35
41)	T	Methacrylonitrile	0.184	0.238	0.232	0.239	0.246	0.235	0.229	9.89
42)	TM	1,2-Dichloroet...	0.459	0.503	0.492	0.493	0.494	0.488	0.488	3.10
43)	T	Isopropyl Acetate	1.297	1.009	0.895	0.820	0.756	0.786	0.927	21.85
44)	TM	Trichloroethene	0.387	0.341	0.338	0.345	0.335	0.339	0.348	5.66
45)	C	1,2-Dichloropr...	0.330	0.373	0.357	0.358	0.348	0.356	0.354	3.95#
46)	T	Dibromomethane	0.247	0.260	0.244	0.257	0.244	0.245	0.250	2.89
47)	T	Bromodichlorom...	0.530	0.529	0.522	0.526	0.521	0.528	0.526	0.70
48)	T	Methyl methacr...	0.277	0.335	0.336	0.339	0.346	0.355	0.331	8.32
49)	T	1,4-Dioxane	0.005	0.006	0.006	0.006	0.006	0.006	0.006	8.90
50)	S	Toluene-d8		1.217	1.231	1.216	1.303	1.267	1.247	3.02
51)	T	4-Methyl-2-Pen...	0.344	0.412	0.417	0.416	0.423	0.424	0.406	7.59
52)	CM	Toluene	0.757	0.891	0.902	0.919	0.899	0.923	0.882	7.07#
53)	T	t-1,3-Dichloro...	0.555	0.547	0.532	0.538	0.543	0.552	0.544	1.60
54)	T	cis-1,3-Dichlo...	0.548	0.584	0.569	0.582	0.581	0.592	0.576	2.69
55)	T	1,1,2-Trichlor...	0.309	0.342	0.342	0.334	0.329	0.336	0.332	3.72

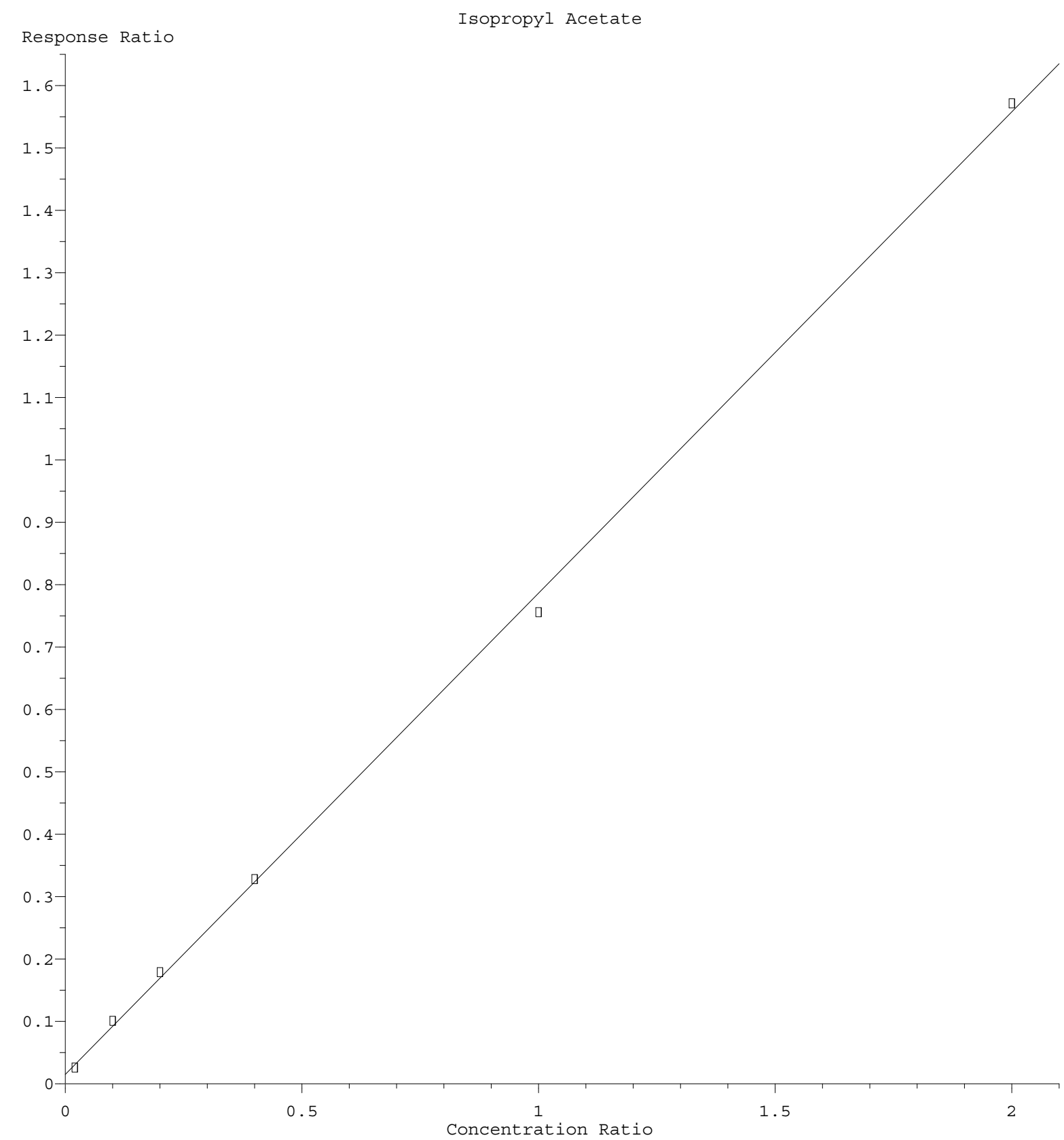
Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 82N103024W.M

56)	T	Ethyl methacry...	0.371	0.449	0.477	0.495	0.539	0.550	0.480	13.66
57)	T	1,3-Dichloropr...	0.527	0.598	0.573	0.579	0.565	0.577	0.570	4.16
58)	T	2-Chloroethyl ...	0.167	0.202	0.214	0.229	0.262	0.275	0.225	17.62
59)	T	2-Hexanone	0.256	0.294	0.297	0.301	0.312	0.314	0.296	7.11
60)	T	Dibromochlorom...	0.312	0.377	0.393	0.391	0.394	0.404	0.378	8.92
61)	T	1,2-Dibromoethane	0.336	0.355	0.335	0.341	0.333	0.340	0.340	2.38
62)	S	4-Bromofluorob...		0.454	0.451	0.450	0.493	0.481	0.466	4.26
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.325	0.351	0.347	0.333	0.313	0.326	0.333	4.29
65)	PM	Chlorobenzene	1.146	1.164	1.123	1.149	1.061	1.068	1.119	3.93
66)	T	1,1,1,2-Tetrac...	0.399	0.404	0.390	0.392	0.375	0.375	0.389	3.01
67)	C	Ethyl Benzene	1.697	1.849	1.880	1.928	1.891	1.957	1.867	4.90#
68)	T	m/p-Xylenes	0.654	0.683	0.701	0.737	0.728	0.737	0.707	4.76
69)	T	o-Xylene	0.550	0.645	0.679	0.701	0.690	0.703	0.661	8.89
70)	T	Styrene	1.050	1.093	1.144	1.206	1.205	1.223	1.154	6.11
71)	P	Bromoform	0.286	0.302	0.289	0.298	0.295	0.287	0.293	2.26
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.188	3.402	3.605	3.701	3.570	3.558	3.504	5.21
74)	T	N-amyl acetate	1.223	1.572	1.527	1.552	1.528	1.546	1.491	8.88
75)	P	1,1,2,2-Tetrac...	1.222	1.317	1.190	1.163	1.073	1.052	1.170	8.39
76)	T	1,2,3-Trichlor...	1.246	1.013	1.020	0.958	0.887	0.873	0.999	13.58
77)	T	Bromobenzene	1.114	0.931	0.943	0.921	0.883	0.860	0.942	9.52
78)	T	n-propylbenzene	3.621	4.041	4.188	4.316	4.236	4.233	4.106	6.19
79)	T	2-Chlorotoluene	2.601	2.746	2.700	2.848	2.621	2.581	2.683	3.82
80)	T	1,3,5-Trimethy...	2.418	2.765	3.038	3.099	3.068	3.037	2.904	9.19
81)	T	trans-1,4-Dich...		0.431	0.446	0.423	0.401	0.406	0.421	4.33
82)	T	4-Chlorotoluene	3.049	2.848	2.822	2.838	2.716	2.667	2.823	4.70
83)	T	tert-Butylbenzene	1.893	2.271	2.461	2.648	2.531	2.617	2.403	11.81
84)	T	1,2,4-Trimethy...	2.579	2.766	3.075	3.265	3.148	3.151	2.997	8.86
85)	T	sec-Butylbenzene	2.962	3.145	3.517	3.608	3.538	3.600	3.395	8.04
86)	T	p-Isopropyltol...	2.218	2.518	2.843	3.003	3.050	3.075	2.784	12.43
87)	T	1,3-Dichlorobe...	2.264	1.884	1.802	1.770	1.668	1.642	1.838	12.33
88)	T	1,4-Dichlorobe...	2.773	1.879	1.867	1.782	1.674	1.646	1.937	21.72
89)	T	n-Butylbenzene	2.747	2.454	2.457	2.623	2.619	2.728	2.605	4.88
90)	T	Hexachloroethane	0.681	0.626	0.633	0.617	0.589	0.578	0.621	5.88
91)	T	1,2-Dichlorobe...	2.021	1.879	1.732	1.748	1.618	1.601	1.766	9.07
92)	T	1,2-Dibromo-3-...	0.272	0.274	0.226	0.229	0.217	0.204	0.237	12.28
93)	T	1,2,4-Trichlor...	1.353	0.956	0.881	0.895	0.865	0.852	0.967	19.90
94)	T	Hexachlorobuta...	0.551	0.438	0.403	0.426	0.369	0.359	0.425	16.33
95)	T	Naphthalene	3.355	2.788	2.710	2.953	2.780	2.778	2.894	8.29
96)	T	1,2,3-Trichlor...	1.189	0.939	0.877	0.953	0.841	0.832	0.939	14.09

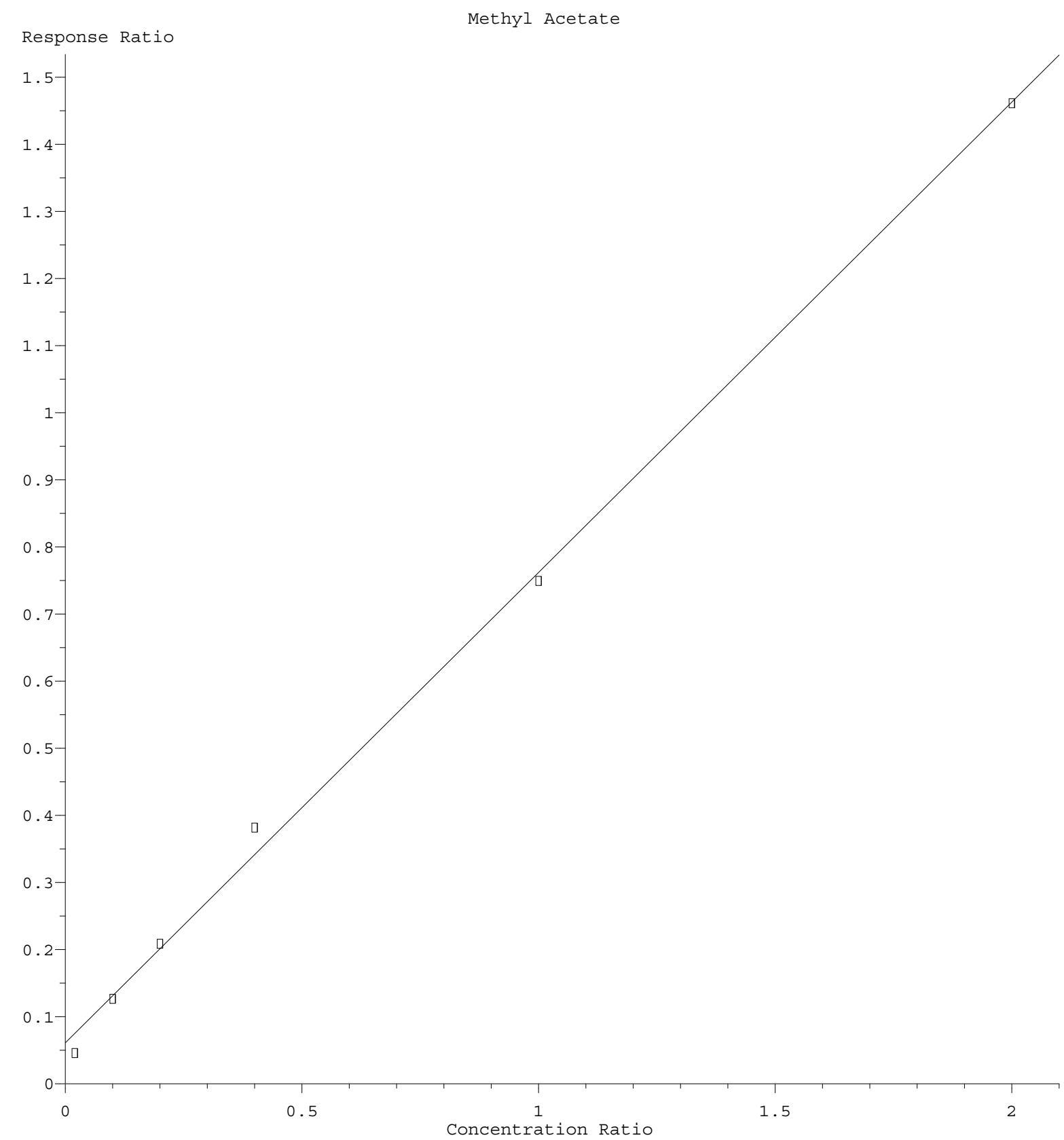
(#) = Out of Range



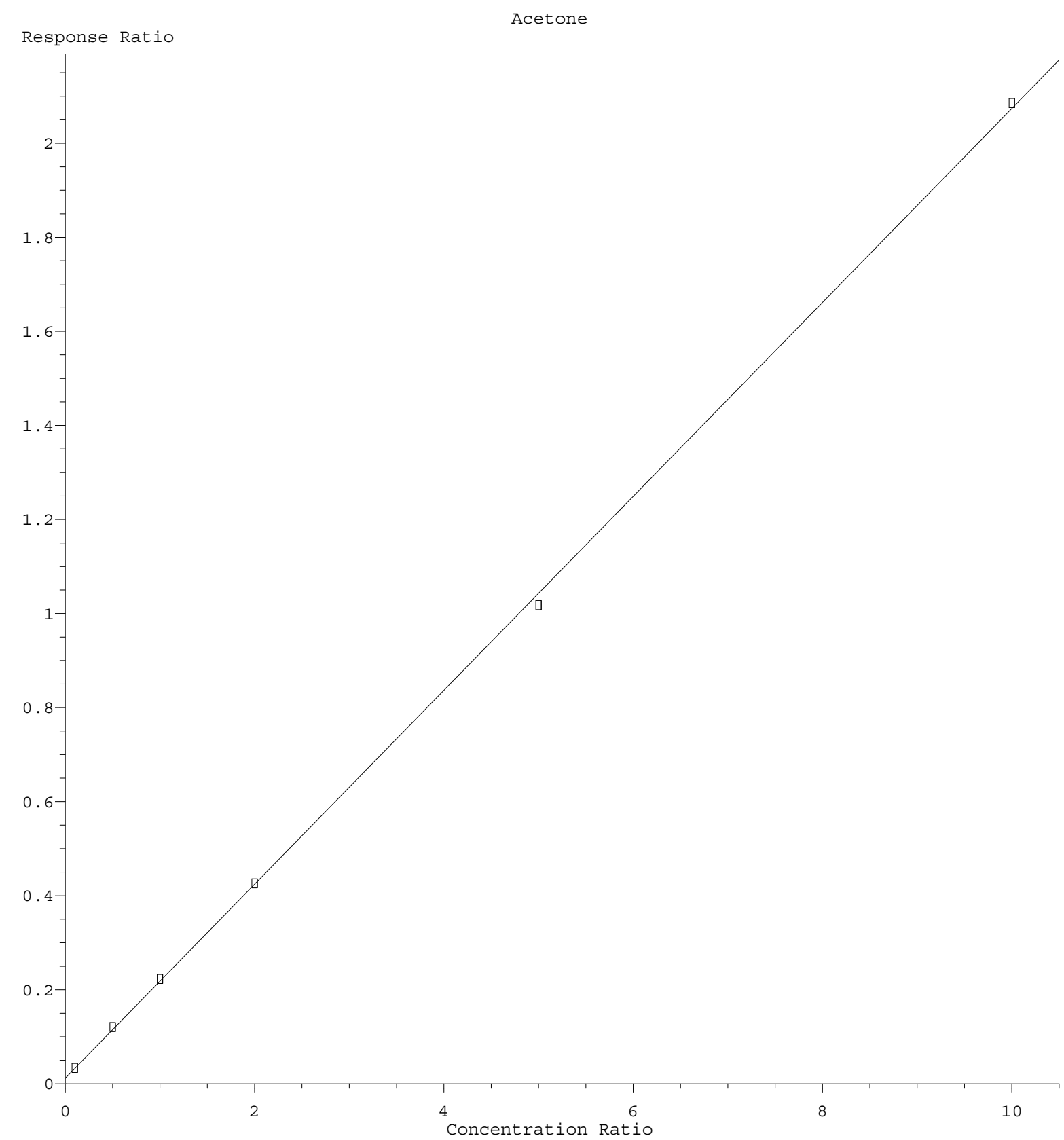
R = -2.647e-002 A*A + 1.683e+000 A + 2.851e-002
Coef of Det (r^2) = 0.999927 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M
Calibration Table Last Updated: Thu Oct 31 18:45:38 2024



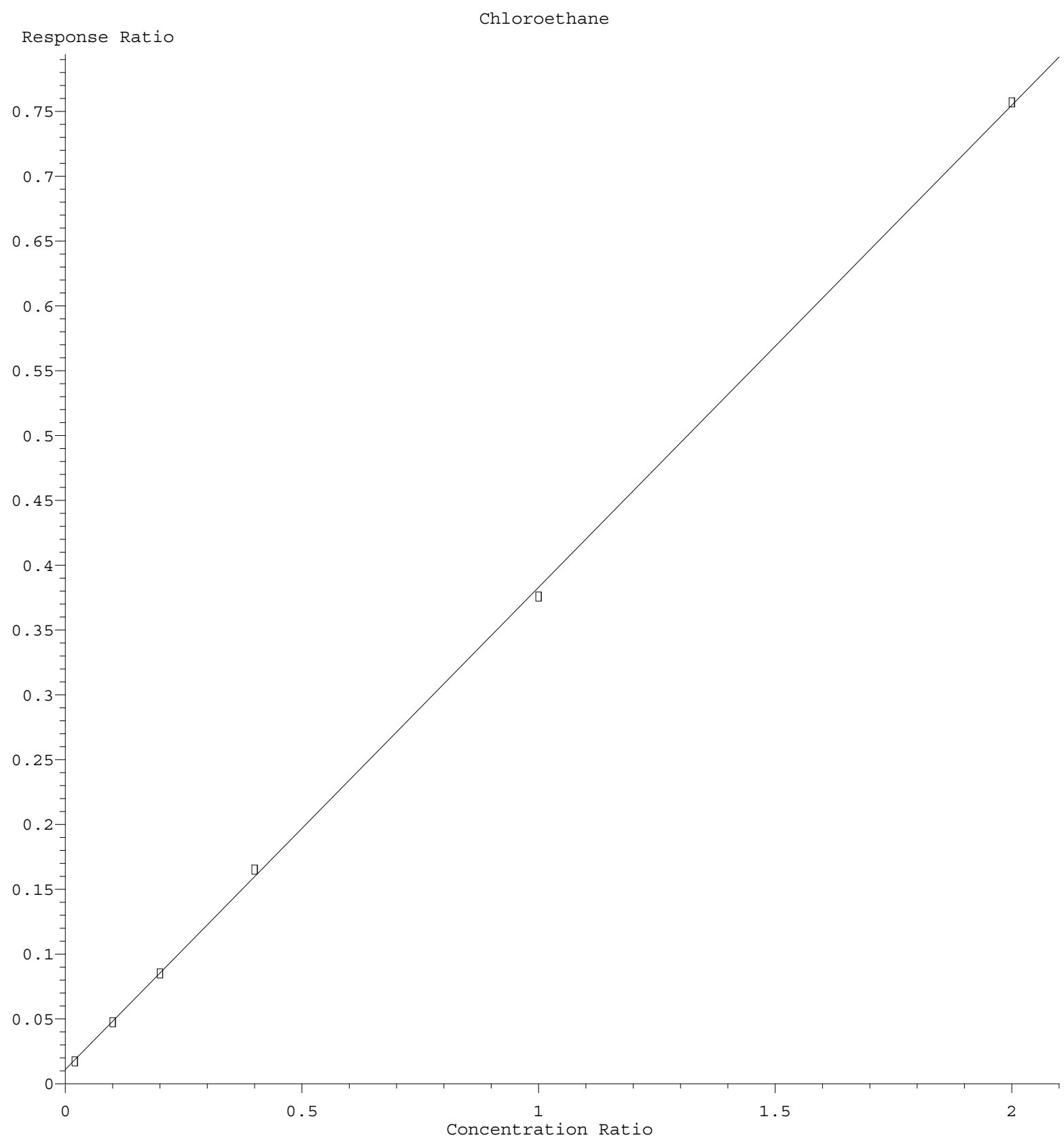
Response = 7.716e-001 * Amt + 1.519e-002
Coef of Det (r^2) = 0.999234 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M
Calibration Table Last Updated: Thu Oct 31 18:45:38 2024



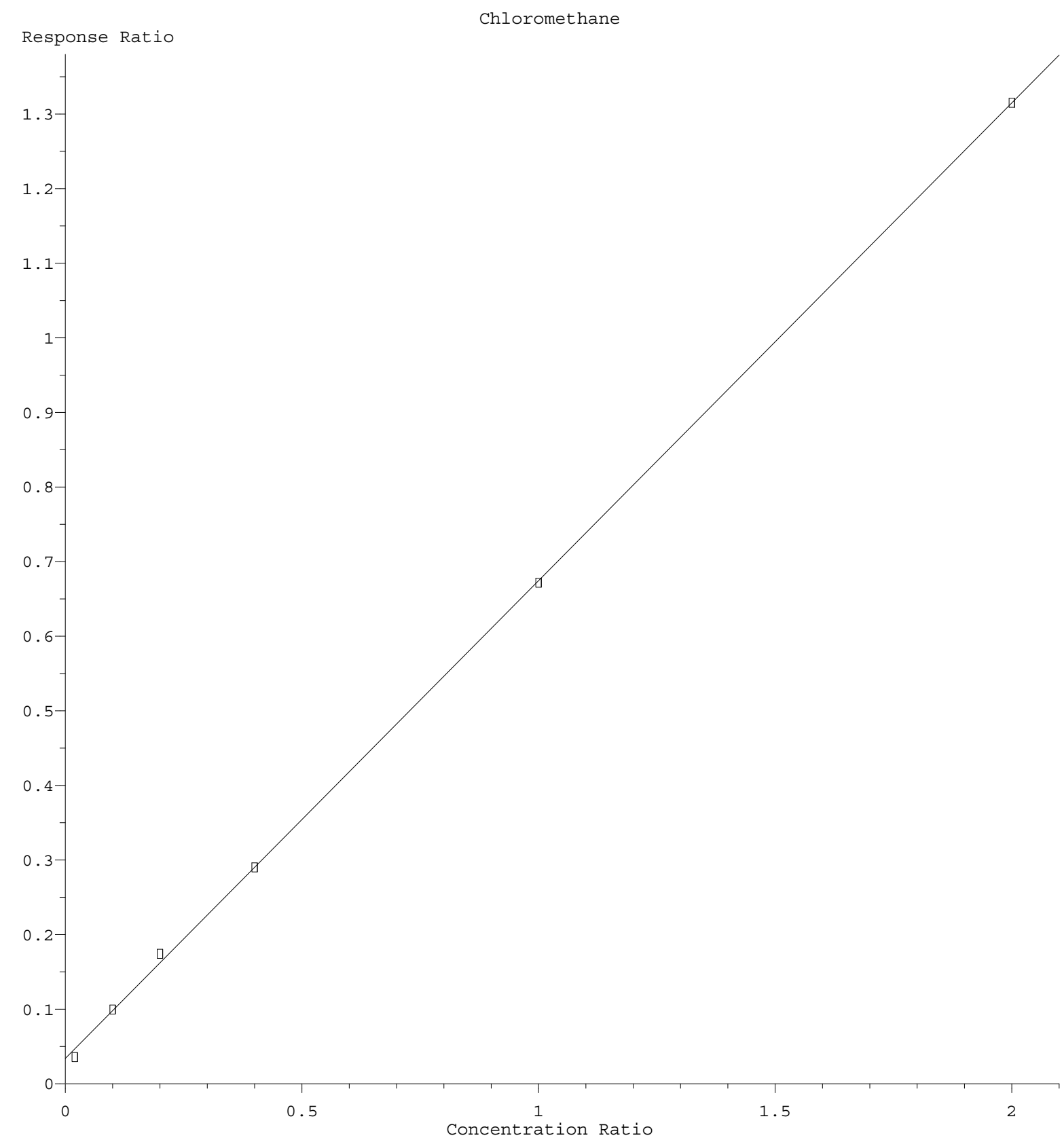
Response = 7.012e-001 * Amt + 6.084e-002
Coef of Det (r^2) = 0.998099 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M
Calibration Table Last Updated: Thu Oct 31 18:45:38 2024



Response = 2.062e-001 * Amt + 1.190e-002
Coef of Det (r^2) = 0.999735 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M
Calibration Table Last Updated: Thu Oct 31 18:45:38 2024



Response = 3.720e-001 * Amt + 1.067e-002
Coef of Det (r^2) = 0.999785 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M
Calibration Table Last Updated: Thu Oct 31 18:45:38 2024



Response = 6.405e-001 * Amt + 3.399e-002
Coef of Det (r^2) = 0.999766 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M
Calibration Table Last Updated: Thu Oct 31 18:45:38 2024

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084570.D
Acq On : 30 Oct 2024 11:46
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:18:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 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)
Internal Standards						
1) Pentafluorobenzene	8.224	168	187429	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	309230	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	282514	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	142702	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	258269	95.404	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 190.800%#			
35) Dibromofluoromethane	8.165	113	206417	98.617	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 197.240%#			
50) Toluene-d8	10.565	98	783727	101.646	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 203.300%#			
62) 4-Bromofluorobenzene	12.847	95	297647	103.292	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 206.580%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	214094	99.364	ug/l	93
3) Chloromethane	2.359	50	246492	100.015	ug/l	97
4) Vinyl Chloride	2.512	62	229760	99.144	ug/l	99
5) Bromomethane	2.901	94	109436	89.128	ug/l	97
6) Chloroethane	3.071	64	141883	100.310	ug/l	98
7) Trichlorofluoromethane	3.465	101	363937	95.335	ug/l	100
8) Diethyl Ether	3.953	74	131399	97.575	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.347	101	212244	98.394	ug/l	99
10) Methyl Iodide	4.577	142	272990	94.692	ug/l	96
11) Tert butyl alcohol	5.547	59	153595	429.840	ug/l	100
12) 1,1-Dichloroethene	4.324	96	205332	96.200	ug/l	98
13) Acrolein	4.171	56	161607	453.545	ug/l	100
14) Allyl chloride	5.012	41	350014	101.116	ug/l	92
15) Acrylonitrile	5.712	53	494070	477.613	ug/l	100
16) Acetone	4.424	43	390888	502.753	ug/l	98
17) Carbon Disulfide	4.700	76	601202	91.464	ug/l	99
18) Methyl Acetate	5.018	43	273870	99.857	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	664800	101.618	ug/l	99
20) Methylene Chloride	5.271	84	226231	95.017	ug/l	90
21) trans-1,2-Dichloroethene	5.777	96	211649	96.569	ug/l	93
22) Diisopropyl ether	6.665	45	696527	101.268	ug/l	99
23) Vinyl Acetate	6.600	43	2441301	514.697	ug/l	99
24) 1,1-Dichloroethane	6.559	63	399999	96.866	ug/l	98
25) 2-Butanone	7.483	43	591863	468.634	ug/l	98
26) 2,2-Dichloropropane	7.483	77	362927	100.979	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	252932	98.835	ug/l	96
28) Bromochloromethane	7.812	49	180881	109.944	ug/l	96
29) Tetrahydrofuran	7.835	42	415033	495.347	ug/l	97
30) Chloroform	7.959	83	412084	98.045	ug/l	100
31) Cyclohexane	8.253	56	358350	95.881	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	374940	98.012	ug/l	98
36) 1,1-Dichloropropene	8.365	75	294131	101.323	ug/l	99
37) Ethyl Acetate	7.559	43	262200	99.553	ug/l	98
38) Carbon Tetrachloride	8.359	117	327651	100.981	ug/l	98
39) Methylcyclohexane	9.600	83	337677	114.344	ug/l	97
40) Benzene	8.600	78	924038	99.119	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084570.D
Acq On : 30 Oct 2024 11:46
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:18:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 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)
41) Methacrylonitrile	7.777	41	145041	102.406 ug/l	95
42) 1,2-Dichloroethane	8.665	62	301932	100.005 ug/l	100
43) Isopropyl Acetate	8.688	43	485962	100.857 ug/l	99
44) Trichloroethene	9.347	130	209438	97.413 ug/l	98
45) 1,2-Dichloropropane	9.618	63	220258	100.718 ug/l	95
46) Dibromomethane	9.706	93	151661	98.281 ug/l	98
47) Bromodichloromethane	9.888	83	326466	100.364 ug/l #	96
48) Methyl methacrylate	9.677	41	219838	107.249 ug/l	98
49) 1,4-Dioxane	9.694	88	76189	2097.505 ug/l #	80
51) 4-Methyl-2-Pentanone	10.447	43	1312148	522.607 ug/l	99
52) Toluene	10.629	92	570832	104.696 ug/l	100
53) t-1,3-Dichloropropene	10.835	75	341196	101.334 ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	366358	102.804 ug/l	98
55) 1,1,2-Trichloroethane	11.018	97	207689	101.124 ug/l	97
56) Ethyl methacrylate	10.871	69	340367	114.573 ug/l	97
57) 1,3-Dichloropropane	11.165	76	357131	101.320 ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	849817	611.330 ug/l	98
59) 2-Hexanone	11.194	43	971064	531.346 ug/l	97
60) Dibromochloromethane	11.359	129	249733	106.691 ug/l	99
61) 1,2-Dibromoethane	11.471	107	210043	99.870 ug/l	100
64) Tetrachloroethene	11.100	164	184478	98.169 ug/l	96
65) Chlorobenzene	11.888	112	603595	95.500 ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.959	131	212055	96.458 ug/l	99
67) Ethyl Benzene	11.965	91	1106035	104.837 ug/l	99
68) m/p-Xylenes	12.070	106	832448	208.419 ug/l	99
69) o-Xylene	12.400	106	397449	106.372 ug/l	100
70) Styrene	12.412	104	691175	106.042 ug/l	98
71) Bromoform	12.582	173	162189	98.044 ug/l #	97
73) Isopropylbenzene	12.694	105	1015352	101.533 ug/l	100
74) N-amyl acetate	12.494	43	441232	103.666 ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	300162	89.924 ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	249062m	88.446 ug/l	
77) Bromobenzene	12.982	156	245558	91.341 ug/l	94
78) n-propylbenzene	13.035	91	1208185	103.100 ug/l	98
79) 2-Chlorotoluene	13.123	91	736738	96.217 ug/l	98
80) 1,3,5-Trimethylbenzene	13.170	105	866736	104.573 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	115847	96.347 ug/l	98
82) 4-Chlorotoluene	13.217	91	761196	94.462 ug/l	99
83) tert-Butylbenzene	13.435	119	746926	108.888 ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	899374	105.136 ug/l	99
85) sec-Butylbenzene	13.617	105	1027413	106.032 ug/l	99
86) p-Isopropyltoluene	13.729	119	877717	110.451 ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	468620	89.320 ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	469714	100.067 ug/l	98
89) n-Butylbenzene	14.053	91	778487	104.727 ug/l	100
90) Hexachloroethane	14.335	117	165030	93.123 ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	456925	90.631 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	58247	86.136 ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	243087	88.091 ug/l	99
94) Hexachlorobutadiene	15.500	225	102558	84.631 ug/l	99
95) Naphthalene	15.641	128	792903	95.997 ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	237515	88.667 ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084570.D
Acq On : 30 Oct 2024 11:46
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: Oct 31 18:18:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

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

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

ICAL Form

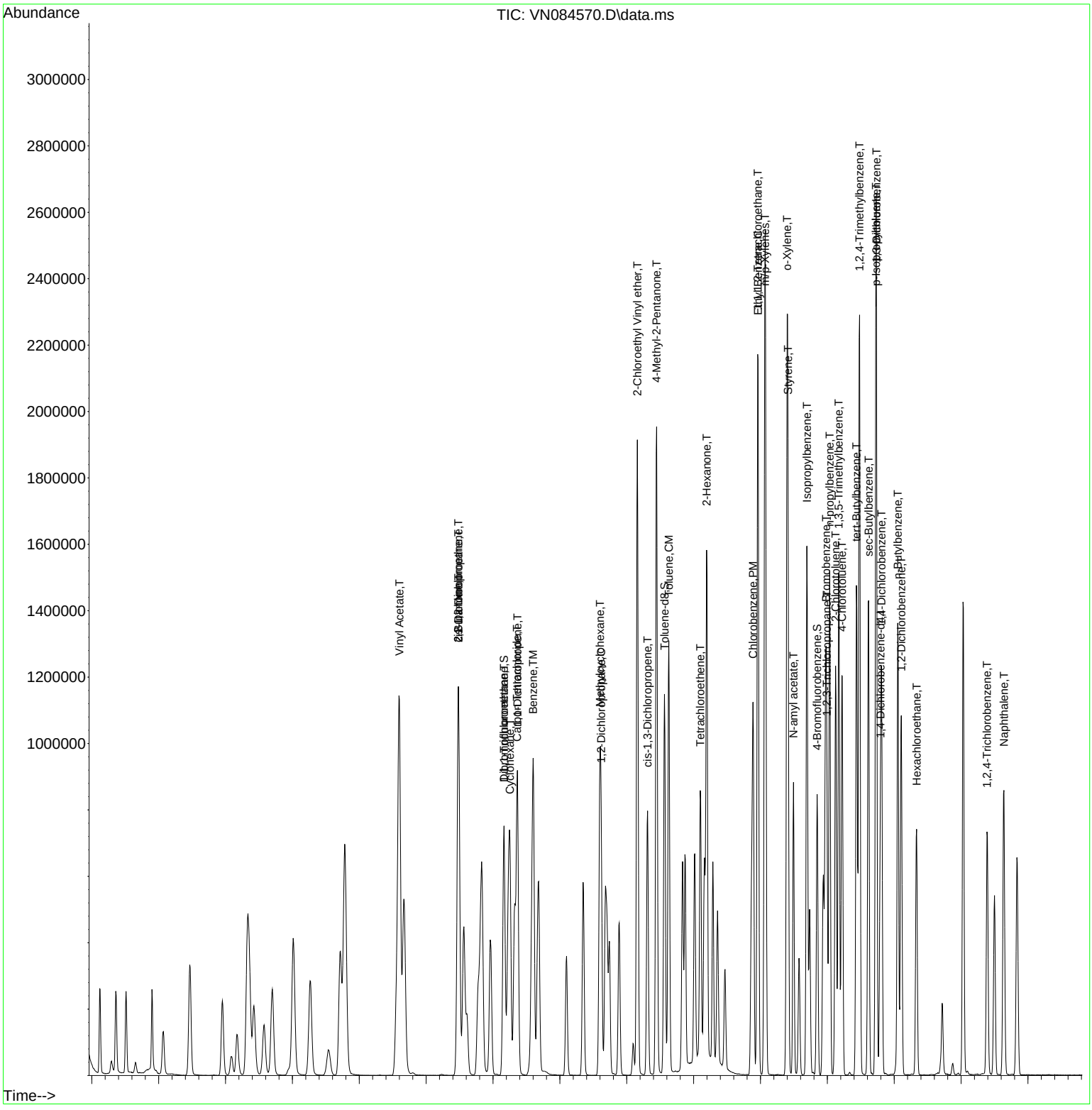
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084570.D
Acq On : 30 Oct 2024 11:46
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:18:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 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\VN103024\
Data File : VN084571.D
Acq On : 30 Oct 2024 12:09
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:18:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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)
Internal Standards						
1) Pentafluorobenzene	8.218	168	186594	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	311554	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	279228	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	138307	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	134521	49.914	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 99.820%			
35) Dibromofluoromethane	8.165	113	107131	50.801	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.600%			
50) Toluene-d8	10.565	98	405874	52.247	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.500%			
62) 4-Bromofluorobenzene	12.847	95	153622	52.913	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.820%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	103092	48.061	ug/l	97
3) Chloromethane	2.365	50	125344	49.788	ug/l	95
4) Vinyl Chloride	2.512	62	112961	48.962	ug/l	95
5) Bromomethane	2.901	94	55194	45.153	ug/l	100
6) Chloroethane	3.071	64	70126	49.078	ug/l	96
7) Trichlorofluoromethane	3.471	101	178947	47.086	ug/l	97
8) Diethyl Ether	3.953	74	65946	49.190	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.353	101	103864	48.366	ug/l	98
10) Methyl Iodide	4.583	142	137274	47.829	ug/l	97
11) Tert butyl alcohol	5.536	59	80598	226.565	ug/l	100
12) 1,1-Dichloroethene	4.324	96	100445	47.270	ug/l	96
13) Acrolein	4.171	56	82129	231.524	ug/l	99
14) Allyl chloride	5.012	41	171045	49.635	ug/l	92
15) Acrylonitrile	5.718	53	252853	245.525	ug/l	98
16) Acetone	4.424	43	189949	243.925	ug/l	99
17) Carbon Disulfide	4.700	76	299041	45.698	ug/l	99
18) Methyl Acetate	5.024	43	139826	49.097	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	328099	50.376	ug/l	97
20) Methylene Chloride	5.271	84	112282	47.370	ug/l	92
21) trans-1,2-Dichloroethene	5.777	96	105050	48.146	ug/l	96
22) Diisopropyl ether	6.671	45	346126	50.549	ug/l	98
23) Vinyl Acetate	6.600	43	1212022	256.673	ug/l	99
24) 1,1-Dichloroethane	6.559	63	198817	48.362	ug/l	100
25) 2-Butanone	7.483	43	294207	233.994	ug/l	98
26) 2,2-Dichloropropane	7.483	77	175511	49.052	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	123436	48.450	ug/l	97
28) Bromochloromethane	7.812	49	95269	58.166	ug/l	95
29) Tetrahydrofuran	7.835	42	206980	248.139	ug/l	97
30) Chloroform	7.965	83	202589	48.417	ug/l	98
31) Cyclohexane	8.253	56	175038	47.043	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	184986	48.573	ug/l	98
36) 1,1-Dichloropropene	8.365	75	140593	48.071	ug/l	99
37) Ethyl Acetate	7.553	43	131332	49.493	ug/l	99
38) Carbon Tetrachloride	8.359	117	160134	48.985	ug/l	97
39) Methylcyclohexane	9.600	83	158489	53.267	ug/l	99
40) Benzene	8.600	78	451074	48.024	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084571.D
Acq On : 30 Oct 2024 12:09
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:18:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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)
41) Methacrylonitrile	7.777	41	76791	53.814 ug/l	97
42) 1,2-Dichloroethane	8.665	62	153960	50.614 ug/l	100
43) Isopropyl Acetate	8.688	43	235517	48.004 ug/l	99
44) Trichloroethene	9.353	130	104498	48.241 ug/l	98
45) 1,2-Dichloropropane	9.618	63	108302	49.154 ug/l	95
46) Dibromomethane	9.706	93	76019	48.895 ug/l	97
47) Bromodichloromethane	9.888	83	162307	49.525 ug/l	97
48) Methyl methacrylate	9.677	41	107828	52.212 ug/l	98
49) 1,4-Dioxane	9.694	88	37719	1030.669 ug/l #	82
51) 4-Methyl-2-Pentanone	10.447	43	658351	260.254 ug/l	98
52) Toluene	10.629	92	280034	50.978 ug/l	99
53) t-1,3-Dichloropropene	10.835	75	169085	49.843 ug/l	98
54) cis-1,3-Dichloropropene	10.312	75	180909	50.386 ug/l	97
55) 1,1,2-Trichloroethane	11.018	97	102401	49.487 ug/l	98
56) Ethyl methacrylate	10.871	69	168060	56.150 ug/l	96
57) 1,3-Dichloropropane	11.159	76	175929	49.539 ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	407857	291.210 ug/l	97
59) 2-Hexanone	11.194	43	485391	263.615 ug/l	98
60) Dibromochloromethane	11.359	129	122816	52.078 ug/l	98
61) 1,2-Dibromoethane	11.465	107	103901	49.034 ug/l	98
64) Tetrachloroethene	11.100	164	87457	47.088 ug/l	96
65) Chlorobenzene	11.888	112	296199	47.416 ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	104844	48.252 ug/l	99
67) Ethyl Benzene	11.965	91	528107	50.646 ug/l	100
68) m/p-Xylenes	12.070	106	406816	103.053 ug/l	98
69) o-Xylene	12.394	106	192710	52.183 ug/l	99
70) Styrene	12.412	104	336570	52.245 ug/l	99
71) Bromoform	12.576	173	82245	50.303 ug/l #	99
73) Isopropylbenzene	12.694	105	493742	50.942 ug/l	99
74) N-amyl acetate	12.494	43	211326	51.228 ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	148441	45.884 ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	122649m	44.939 ug/l	
77) Bromobenzene	12.982	156	122062	46.847 ug/l	95
78) n-propylbenzene	13.035	91	585903	51.587 ug/l	100
79) 2-Chlorotoluene	13.123	91	362526	48.850 ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	424332	52.823 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	55485	47.612 ug/l	92
82) 4-Chlorotoluene	13.217	91	375636	48.097 ug/l	99
83) tert-Butylbenzene	13.435	119	350031	52.649 ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	435421	52.518 ug/l	99
85) sec-Butylbenzene	13.612	105	489305	52.102 ug/l	100
86) p-Isopropyltoluene	13.729	119	421834	54.770 ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	230686	45.366 ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	231568	49.658 ug/l	98
89) n-Butylbenzene	14.053	91	362215	50.276 ug/l	99
90) Hexachloroethane	14.335	117	81515	47.459 ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	223772	45.796 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.711	75	29987	45.754 ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	119579	44.711 ug/l	99
94) Hexachlorobutadiene	15.500	225	51033	43.451 ug/l	98
95) Naphthalene	15.635	128	384553	48.037 ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	116341	44.812 ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084571.D
Acq On : 30 Oct 2024 12:09
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

Quant Time: Oct 31 18:18:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

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

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

ICAL Form

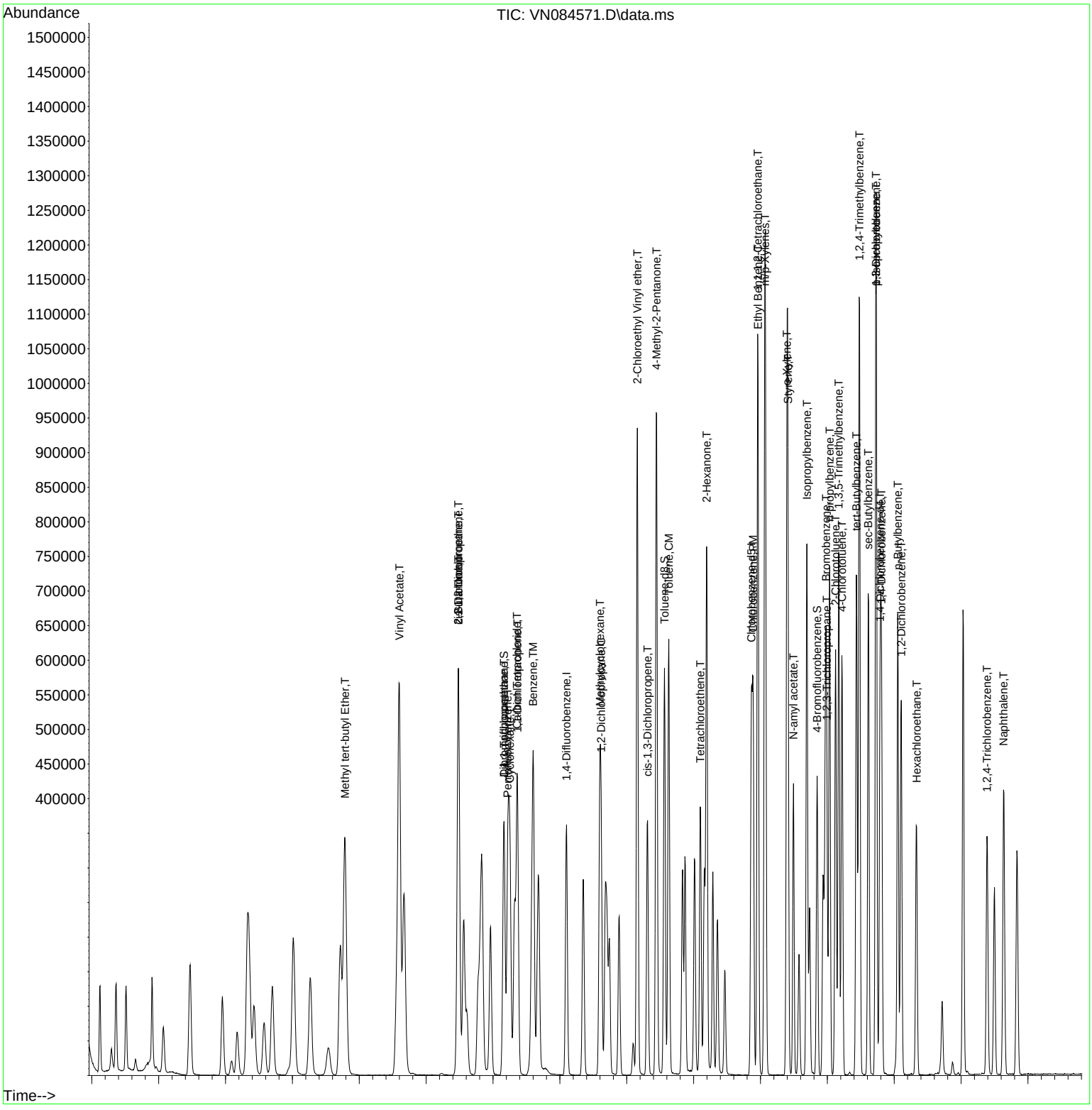
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084571.D
Acq On : 30 Oct 2024 12:09
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:18:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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\VN103024\
Data File : VN084572.D
Acq On : 30 Oct 2024 12:33
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:19:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

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)
Internal Standards						
1) Pentafluorobenzene	8.218	168	187576	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	319890	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	275857	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	130374	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	53102	19.600	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	39.200%#		
35) Dibromofluoromethane	8.165	113	41686	19.252	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	38.500%#		
50) Toluene-d8	10.565	98	155563	19.504	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	39.000%#		
62) 4-Bromofluorobenzene	12.847	95	57622	19.330	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	38.660%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	41443	19.219	ug/l	99
3) Chloromethane	2.359	50	54414	19.993	ug/l	97
4) Vinyl Chloride	2.512	62	46710	20.140	ug/l	93
5) Bromomethane	2.901	94	23244	18.916	ug/l	100
6) Chloroethane	3.042	64	30992	20.772	ug/l	94
7) Trichlorofluoromethane	3.442	101	76339	19.982	ug/l	96
8) Diethyl Ether	3.948	74	26904	19.963	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.342	101	42830	19.840	ug/l	99
10) Methyl Iodide	4.565	142	57315	19.865	ug/l	96
11) Tert butyl alcohol	5.559	59	33927	94.871	ug/l	99
12) 1,1-Dichloroethene	4.318	96	41980	19.653	ug/l	89
13) Acrolein	4.171	56	38007	106.582	ug/l	96
14) Allyl chloride	5.006	41	70420	20.328	ug/l	92
15) Acrylonitrile	5.718	53	105912	102.304	ug/l	97
16) Acetone	4.430	43	79971	100.481	ug/l	99
17) Carbon Disulfide	4.689	76	127521	19.385	ug/l	98
18) Methyl Acetate	5.024	43	71604	22.882	ug/l	98
19) Methyl tert-butyl Ether	5.789	73	135170	20.645	ug/l	100
20) Methylene Chloride	5.271	84	47467	19.921	ug/l	88
21) trans-1,2-Dichloroethene	5.771	96	44697	20.378	ug/l	93
22) Diisopropyl ether	6.671	45	144115	20.937	ug/l	97
23) Vinyl Acetate	6.594	43	490034	103.232	ug/l	100
24) 1,1-Dichloroethane	6.559	63	83555	20.218	ug/l	97
25) 2-Butanone	7.483	43	130541	103.281	ug/l	99
26) 2,2-Dichloropropane	7.483	77	73066	20.313	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	52279	20.412	ug/l	97
28) Bromochloromethane	7.806	49	29146	17.702	ug/l	91
29) Tetrahydrofuran	7.836	42	86837	103.560	ug/l	97
30) Chloroform	7.959	83	85675	20.368	ug/l	100
31) Cyclohexane	8.247	56	71698	19.169	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	78458	20.493	ug/l	97
36) 1,1-Dichloropropene	8.371	75	60208	20.050	ug/l	99
37) Ethyl Acetate	7.559	43	54942	20.165	ug/l	97
38) Carbon Tetrachloride	8.359	117	68076	20.282	ug/l	98
39) Methylcyclohexane	9.600	83	63305	20.722	ug/l	93
40) Benzene	8.600	78	193129	20.026	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084572.D
Acq On : 30 Oct 2024 12:33
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:19:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

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)
41) Methacrylonitrile	7.771	41	30596	20.882 ug/l		97
42) 1,2-Dichloroethane	8.665	62	63026	20.180 ug/l		99
43) Isopropyl Acetate	8.688	43	104951	20.277 ug/l		98
44) Trichloroethene	9.347	130	44176	19.862 ug/l		99
45) 1,2-Dichloropropane	9.618	63	45764	20.229 ug/l		93
46) Dibromomethane	9.706	93	32857	20.583 ug/l		99
47) Bromodichloromethane	9.888	83	67288	19.997 ug/l	#	98
48) Methyl methacrylate	9.682	41	43398	20.466 ug/l		97
49) 1,4-Dioxane	9.700	88	15417	410.291 ug/l	#	79
51) 4-Methyl-2-Pentanone	10.447	43	266010	102.417 ug/l		100
52) Toluene	10.629	92	117530	20.838 ug/l		99
53) t-1,3-Dichloropropene	10.835	75	68847	19.766 ug/l		99
54) cis-1,3-Dichloropropene	10.312	75	74498	20.208 ug/l		95
55) 1,1,2-Trichloroethane	11.012	97	42791	20.141 ug/l		95
56) Ethyl methacrylate	10.871	69	63347	20.613 ug/l		96
57) 1,3-Dichloropropane	11.159	76	74082	20.317 ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	146372	101.786 ug/l		98
59) 2-Hexanone	11.194	43	192335	101.735 ug/l		99
60) Dibromochloromethane	11.359	129	50039	20.665 ug/l		99
61) 1,2-Dibromoethane	11.465	107	43666	20.070 ug/l		100
64) Tetrachloroethene	11.106	164	36798	20.054 ug/l		92
65) Chlorobenzene	11.888	112	126753	20.539 ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.959	131	43201	20.125 ug/l		99
67) Ethyl Benzene	11.965	91	212737	20.651 ug/l		99
68) m/p-Xylenes	12.071	106	162754	41.732 ug/l		99
69) o-Xylene	12.400	106	77396	21.214 ug/l		99
70) Styrene	12.412	104	133059	20.907 ug/l		96
71) Bromoform	12.576	173	32901	20.369 ug/l	#	99
73) Isopropylbenzene	12.694	105	193023	21.127 ug/l		100
74) N-amyl acetate	12.494	43	80939	20.815 ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.935	83	60645	19.886 ug/l		98
76) 1,2,3-Trichloropropane	12.994	75	49947m	19.414 ug/l		
77) Bromobenzene	12.976	156	48017	19.550 ug/l		97
78) n-propylbenzene	13.035	91	225085	21.024 ug/l		99
79) 2-Chlorotoluene	13.123	91	148533	21.233 ug/l		99
80) 1,3,5-Trimethylbenzene	13.171	105	161619	21.343 ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	22047	20.070 ug/l	#	85
82) 4-Chlorotoluene	13.218	91	147989	20.102 ug/l		100
83) tert-Butylbenzene	13.435	119	138079	22.033 ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	170246	21.783 ug/l		99
85) sec-Butylbenzene	13.618	105	188158	21.255 ug/l		100
86) p-Isopropyltoluene	13.729	119	156598	21.569 ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	92310	19.258 ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	92940	20.458 ug/l		99
89) n-Butylbenzene	14.053	91	136771	20.139 ug/l		99
90) Hexachloroethane	14.329	117	32199	19.887 ug/l		100
91) 1,2-Dichlorobenzene	14.106	146	91138	19.787 ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	11962	19.362 ug/l		96
93) 1,2,4-Trichlorobenzene	15.394	180	46698	18.523 ug/l		96
94) Hexachlorobutadiene	15.500	225	22216	20.066 ug/l		96
95) Naphthalene	15.635	128	153972	20.404 ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	49699	20.308 ug/l		99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084572.D
Acq On : 30 Oct 2024 12:33
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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

Quant Time: Oct 31 18:19:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

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

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

ICAL Form

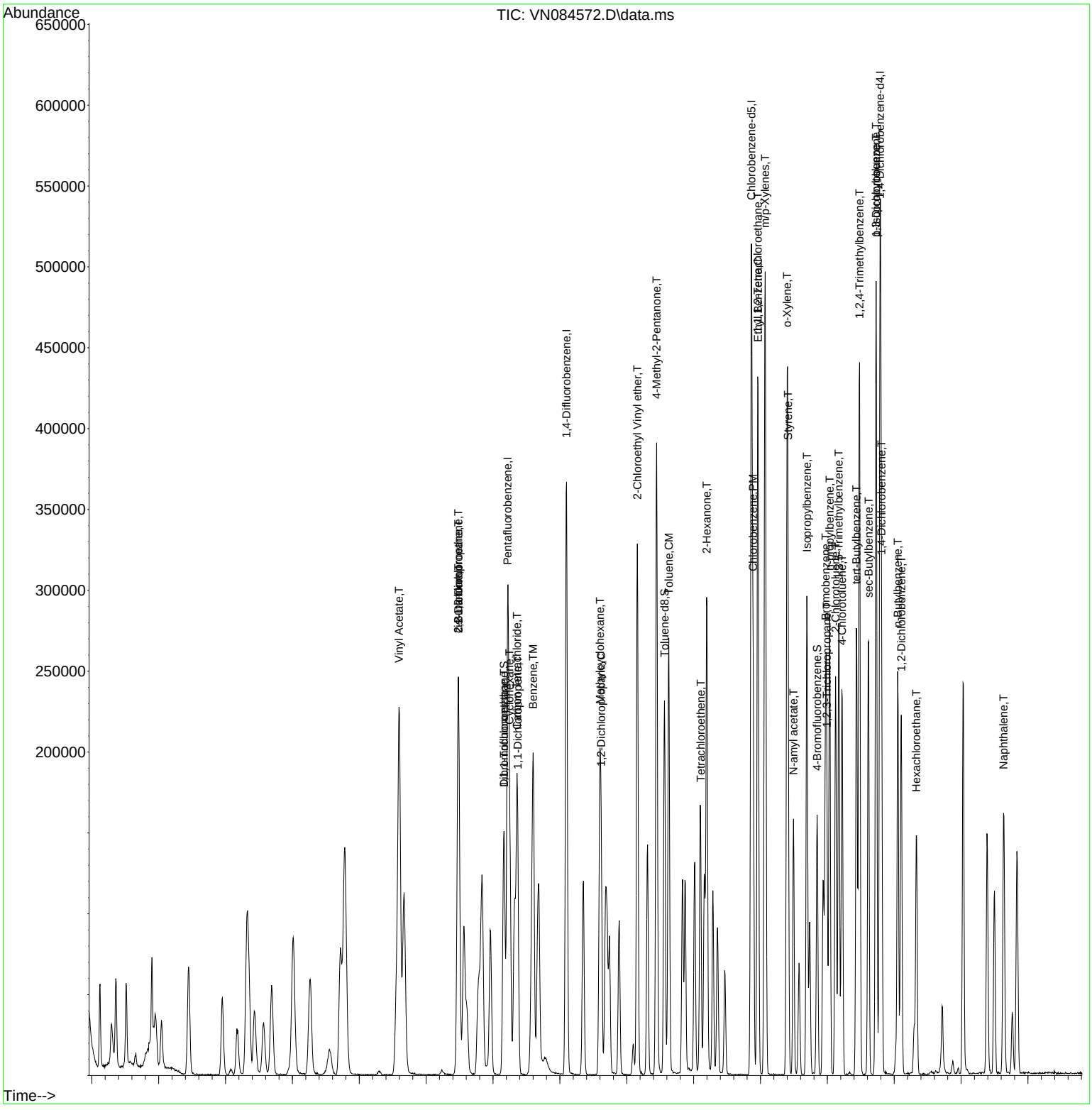
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084572.D
Acq On : 30 Oct 2024 12:33
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:19:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

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\VN103024\
Data File : VN084573.D
Acq On : 30 Oct 2024 12:57
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:19:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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)
Internal Standards							
1) Pentafluorobenzene	8.224	168	179863	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.100	114	312244	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.865	117	270408	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	127178	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.583	65	25986	10.003	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 20.000%#				
35) Dibromofluoromethane	8.159	113	20969	9.921	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 19.840%#				
50) Toluene-d8	10.565	98	76892	9.876	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 19.760%#				
62) 4-Bromofluorobenzene	12.847	95	28191	9.689	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 19.380%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	21501	10.399	ug/l		96
3) Chloromethane	2.359	50	31342	10.950	ug/l		98
4) Vinyl Chloride	2.512	62	22896	10.295	ug/l		93
5) Bromomethane	2.901	94	12071	10.245	ug/l		95
6) Chloroethane	3.059	64	15315	10.010	ug/l	#	83
7) Trichlorofluoromethane	3.459	101	36747	10.031	ug/l		99
8) Diethyl Ether	3.953	74	13090	10.129	ug/l		100
9) 1,1,2-Trichlorotrifluo...	4.353	101	21028	10.158	ug/l		98
10) Methyl Iodide	4.577	142	28795	10.408	ug/l		97
11) Tert butyl alcohol	5.542	59	17899	52.198	ug/l	#	85
12) 1,1-Dichloroethene	4.324	96	20669	10.091	ug/l		87
13) Acrolein	4.177	56	17284	50.547	ug/l		99
14) Allyl chloride	5.012	41	33287	10.021	ug/l		93
15) Acrylonitrile	5.718	53	50731	51.104	ug/l		98
16) Acetone	4.430	43	40100	51.168	ug/l		93
17) Carbon Disulfide	4.695	76	61652	9.774	ug/l		97
18) Methyl Acetate	5.030	43	37538	10.544	ug/l		100
19) Methyl tert-butyl Ether	5.789	73	64007	10.195	ug/l		97
20) Methylene Chloride	5.265	84	23684	10.366	ug/l		94
21) trans-1,2-Dichloroethene	5.771	96	21581	10.261	ug/l		84
22) Diisopropyl ether	6.671	45	68672	10.404	ug/l	#	97
23) Vinyl Acetate	6.600	43	233407	51.279	ug/l		99
24) 1,1-Dichloroethane	6.565	63	40556	10.234	ug/l	#	95
25) 2-Butanone	7.483	43	60876	50.229	ug/l		96
26) 2,2-Dichloropropane	7.483	77	35189	10.203	ug/l		100
27) cis-1,2-Dichloroethene	7.483	96	24626	10.028	ug/l		99
28) Bromochloromethane	7.806	49	14918	9.449	ug/l	#	15
29) Tetrahydrofuran	7.841	42	42072	52.326	ug/l		99
30) Chloroform	7.965	83	41496	10.288	ug/l		97
31) Cyclohexane	8.247	56	37514	10.460	ug/l		96
32) 1,1,1-Trichloroethane	8.165	97	38612	10.518	ug/l		94
36) 1,1-Dichloropropene	8.371	75	29218	9.968	ug/l		99
37) Ethyl Acetate	7.559	43	25249	9.494	ug/l		96
38) Carbon Tetrachloride	8.359	117	34214	10.443	ug/l		95
39) Methylcyclohexane	9.600	83	30390	10.191	ug/l		96
40) Benzene	8.606	78	94121	9.999	ug/l		95

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084573.D
Acq On : 30 Oct 2024 12:57
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:19:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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)
41) Methacrylonitrile	7.777	41	14485	10.128 ug/l		96
42) 1,2-Dichloroethane	8.671	62	30752	10.087 ug/l		99
43) Isopropyl Acetate	8.688	43	55871	10.611 ug/l		94
44) Trichloroethene	9.353	130	21099	9.719 ug/l		98
45) 1,2-Dichloropropane	9.618	63	22314	10.105 ug/l		96
46) Dibromomethane	9.706	93	15211	9.762 ug/l		99
47) Bromodichloromethane	9.883	83	32612	9.929 ug/l	#	93
48) Methyl methacrylate	9.683	41	20961	10.127 ug/l		98
49) 1,4-Dioxane	9.700	88	7375	201.076 ug/l	#	76
51) 4-Methyl-2-Pentanone	10.447	43	130324	51.405 ug/l		99
52) Toluene	10.630	92	56321	10.230 ug/l		100
53) t-1,3-Dichloropropene	10.835	75	33220	9.771 ug/l		95
54) cis-1,3-Dichloropropene	10.312	75	35562	9.883 ug/l		92
55) 1,1,2-Trichloroethane	11.018	97	21367	10.303 ug/l		94
56) Ethyl methacrylate	10.871	69	29804	9.936 ug/l		98
57) 1,3-Dichloropropane	11.165	76	35790	10.056 ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	66790	47.583 ug/l		97
59) 2-Hexanone	11.200	43	92772	50.273 ug/l		100
60) Dibromochloromethane	11.359	129	24541	10.383 ug/l		97
61) 1,2-Dibromoethane	11.471	107	20895	9.839 ug/l		97
64) Tetrachloroethene	11.100	164	18777	10.439 ug/l		94
65) Chlorobenzene	11.888	112	60746	10.041 ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.959	131	21080	10.018 ug/l		98
67) Ethyl Benzene	11.965	91	101653	10.067 ug/l		99
68) m/p-Xylenes	12.071	106	75857	19.842 ug/l		100
69) o-Xylene	12.394	106	36696	10.261 ug/l		100
70) Styrene	12.412	104	61865	9.916 ug/l		98
71) Bromoform	12.576	173	15630	9.871 ug/l	#	95
73) Isopropylbenzene	12.694	105	91683	10.287 ug/l		98
74) N-amyl acetate	12.494	43	38841	10.240 ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.935	83	30270	10.175 ug/l		97
76) 1,2,3-Trichloropropane	12.994	75	25940m	10.336 ug/l		
77) Bromobenzene	12.982	156	23987	10.012 ug/l		94
78) n-propylbenzene	13.035	91	106518	10.199 ug/l		99
79) 2-Chlorotoluene	13.123	91	68678	10.064 ug/l		100
80) 1,3,5-Trimethylbenzene	13.171	105	77273	10.461 ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	11334	10.577 ug/l		96
82) 4-Chlorotoluene	13.218	91	71787	9.996 ug/l		99
83) tert-Butylbenzene	13.435	119	62600	10.240 ug/l		97
84) 1,2,4-Trimethylbenzene	13.482	105	78207	10.258 ug/l		98
85) sec-Butylbenzene	13.612	105	89469	10.361 ug/l		99
86) p-Isopropyltoluene	13.729	119	72307	10.210 ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	45832	9.802 ug/l		98
88) 1,4-Dichlorobenzene	13.812	146	47483	10.276 ug/l		97
89) n-Butylbenzene	14.053	91	62495	9.433 ug/l		100
90) Hexachloroethane	14.335	117	16100	10.194 ug/l		98
91) 1,2-Dichlorobenzene	14.106	146	44055	9.805 ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	5744	9.531 ug/l		97
93) 1,2,4-Trichlorobenzene	15.394	180	22413	9.114 ug/l		97
94) Hexachlorobutadiene	15.494	225	10263	9.503 ug/l		97
95) Naphthalene	15.641	128	68919	9.363 ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	22303	9.342 ug/l		99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084573.D
Acq On : 30 Oct 2024 12:57
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

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

Quant Time: Oct 31 18:19:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

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

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

ICAL Form

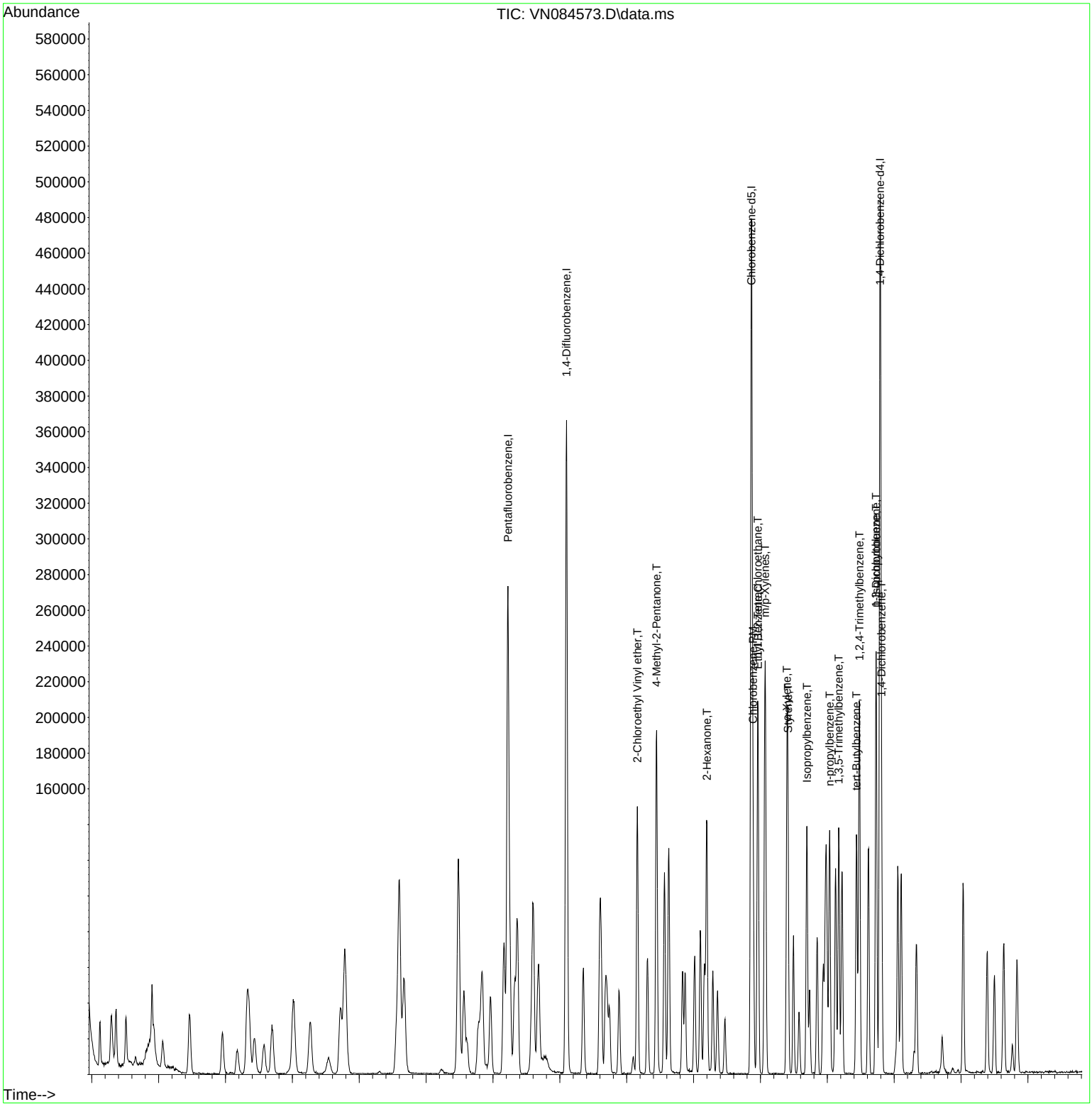
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084573.D
Acq On : 30 Oct 2024 12:57
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:19:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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\VN103024\
Data File : VN084574.D
Acq On : 30 Oct 2024 13:21
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 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:19:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.224	168	171598	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.100	114	297777	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.865	117	254342	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	118229	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.577	65	13227	5.337	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	10.680%#			
35) Dibromofluoromethane	8.165	113	10512	5.215	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.440%#			
50) Toluene-d8	10.565	98	36225	4.879	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	9.760%#			
62) 4-Bromofluorobenzene	12.847	95	13506	4.867	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	9.740%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	10192	5.167	ug/l		93
3) Chloromethane	2.360	50	17076	5.115	ug/l		97
4) Vinyl Chloride	2.513	62	11174	5.267	ug/l		96
5) Bromomethane	2.901	94	6944	6.177	ug/l		98
6) Chloroethane	3.060	64	8146	4.946	ug/l		98
7) Trichlorofluoromethane	3.460	101	18362	5.254	ug/l		98
8) Diethyl Ether	3.954	74	6372	5.168	ug/l		91
9) 1,1,2-Trichlorotrifluo...	4.348	101	10090	5.109	ug/l		99
10) Methyl Iodide	4.571	142	14021	5.312	ug/l	#	96
11) Tert butyl alcohol	5.536	59	10153	31.035	ug/l	#	87
12) 1,1-Dichloroethene	4.324	96	9474	4.848	ug/l		91
13) Acrolein	4.183	56	8890	27.251	ug/l		97
14) Allyl chloride	5.012	41	16771	5.292	ug/l		94
15) Acrylonitrile	5.724	53	25212	26.621	ug/l		99
16) Acetone	4.430	43	20706	26.370	ug/l		91
17) Carbon Disulfide	4.689	76	30614	5.087	ug/l	#	86
18) Methyl Acetate	5.030	43	21727	4.691	ug/l		99
19) Methyl tert-butyl Ether	5.795	73	30655	5.118	ug/l	#	89
20) Methylene Chloride	5.265	84	12258	5.623	ug/l		91
21) trans-1,2-Dichloroethene	5.771	96	10024	4.996	ug/l		94
22) Diisopropyl ether	6.671	45	31631	5.023	ug/l		93
23) Vinyl Acetate	6.601	43	111267	25.622	ug/l		98
24) 1,1-Dichloroethane	6.559	63	20644	5.460	ug/l		96
25) 2-Butanone	7.489	43	31742	27.452	ug/l		97
26) 2,2-Dichloropropane	7.483	77	16462	5.003	ug/l		94
27) cis-1,2-Dichloroethene	7.483	96	12105	5.167	ug/l		98
28) Bromochloromethane	7.806	49	7002	4.649	ug/l	#	91
29) Tetrahydrofuran	7.842	42	20240	26.385	ug/l		99
30) Chloroform	7.959	83	20974	5.451	ug/l		92
31) Cyclohexane	8.253	56	18750	5.480	ug/l		98
32) 1,1,1-Trichloroethane	8.165	97	17717	5.059	ug/l		97
36) 1,1-Dichloropropene	8.371	75	14193	5.077	ug/l		99
37) Ethyl Acetate	7.559	43	13884	5.474	ug/l	#	94
38) Carbon Tetrachloride	8.353	117	15977	5.113	ug/l		96
39) Methylcyclohexane	9.600	83	13624	4.791	ug/l		95
40) Benzene	8.600	78	46044	5.129	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084574.D
Acq On : 30 Oct 2024 13:21
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:19:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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)
41) Methacrylonitrile	7.771	41	7091	5.199	ug/l		97
42) 1,2-Dichloroethane	8.665	62	14972	5.150	ug/l		98
43) Isopropyl Acetate	8.689	43	30044	5.554	ug/l	#	90
44) Trichloroethene	9.347	130	10168	4.911	ug/l		89
45) 1,2-Dichloropropane	9.618	63	11095	5.269	ug/l		97
46) Dibromomethane	9.706	93	7752	5.217	ug/l		97
47) Bromodichloromethane	9.889	83	15749	5.028	ug/l	#	98
48) Methyl methacrylate	9.677	41	9971	5.051	ug/l		97
49) 1,4-Dioxane	9.700	88	3729	106.609	ug/l		95
51) 4-Methyl-2-Pentanone	10.447	43	61332	25.367	ug/l		100
52) Toluene	10.630	92	26518	5.051	ug/l		99
53) t-1,3-Dichloropropene	10.836	75	16279	5.021	ug/l		93
54) cis-1,3-Dichloropropene	10.312	75	17395	5.069	ug/l		96
55) 1,1,2-Trichloroethane	11.018	97	10193	5.154	ug/l		93
56) Ethyl methacrylate	10.871	69	13362	4.671	ug/l		94
57) 1,3-Dichloropropane	11.165	76	17816	5.249	ug/l		96
58) 2-Chloroethyl Vinyl ether	10.159	63	30088	22.477	ug/l		98
59) 2-Hexanone	11.194	43	43750	24.860	ug/l		97
60) Dibromochloromethane	11.359	129	11226	4.980	ug/l		96
61) 1,2-Dibromoethane	11.471	107	10584	5.226	ug/l		97
64) Tetrachloroethene	11.100	164	8917	5.271	ug/l	#	87
65) Chlorobenzene	11.888	112	29618	5.205	ug/l		94
66) 1,1,1,2-Tetrachloroethane	11.959	131	10265	5.186	ug/l		99
67) Ethyl Benzene	11.965	91	47037	4.952	ug/l		98
68) m/p-Xylenes	12.065	106	34753	9.665	ug/l		100
69) o-Xylene	12.394	106	16393	4.873	ug/l		99
70) Styrene	12.412	104	27807	4.739	ug/l		98
71) Bromoform	12.577	173	7686	5.161	ug/l	#	95
73) Isopropylbenzene	12.694	105	40223	4.855	ug/l		99
74) N-amyl acetate	12.494	43	18583	5.270	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.935	83	15573	5.631	ug/l		97
76) 1,2,3-Trichloropropane	12.994	75	11982m	5.136	ug/l		
77) Bromobenzene	12.983	156	11012	4.944	ug/l		98
78) n-propylbenzene	13.035	91	47776	4.921	ug/l		99
79) 2-Chlorotoluene	13.124	91	32460	5.117	ug/l		100
80) 1,3,5-Trimethylbenzene	13.171	105	32685	4.760	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.730	75	5096	5.116	ug/l		93
82) 4-Chlorotoluene	13.218	91	33672	5.044	ug/l		98
83) tert-Butylbenzene	13.435	119	26850	4.724	ug/l		95
84) 1,2,4-Trimethylbenzene	13.483	105	32703	4.614	ug/l		100
85) sec-Butylbenzene	13.612	105	37187	4.632	ug/l		97
86) p-Isopropyltoluene	13.730	119	29767	4.521	ug/l		97
87) 1,3-Dichlorobenzene	13.730	146	22272	5.124	ug/l		98
88) 1,4-Dichlorobenzene	13.812	146	22213	4.741	ug/l		91
89) n-Butylbenzene	14.053	91	29010	4.710	ug/l		99
90) Hexachloroethane	14.335	117	7404	5.043	ug/l		100
91) 1,2-Dichlorobenzene	14.106	146	22221	5.320	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.718	75	3239	5.781	ug/l		93
93) 1,2,4-Trichlorobenzene	15.394	180	11298	4.942	ug/l		99
94) Hexachlorobutadiene	15.500	225	5184	5.163	ug/l		96
95) Naphthalene	15.641	128	32966	4.817	ug/l		98
96) 1,2,3-Trichlorobenzene	15.835	180	11106	5.004	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084574.D
Acq On : 30 Oct 2024 13:21
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 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:19:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

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

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

ICAL Form

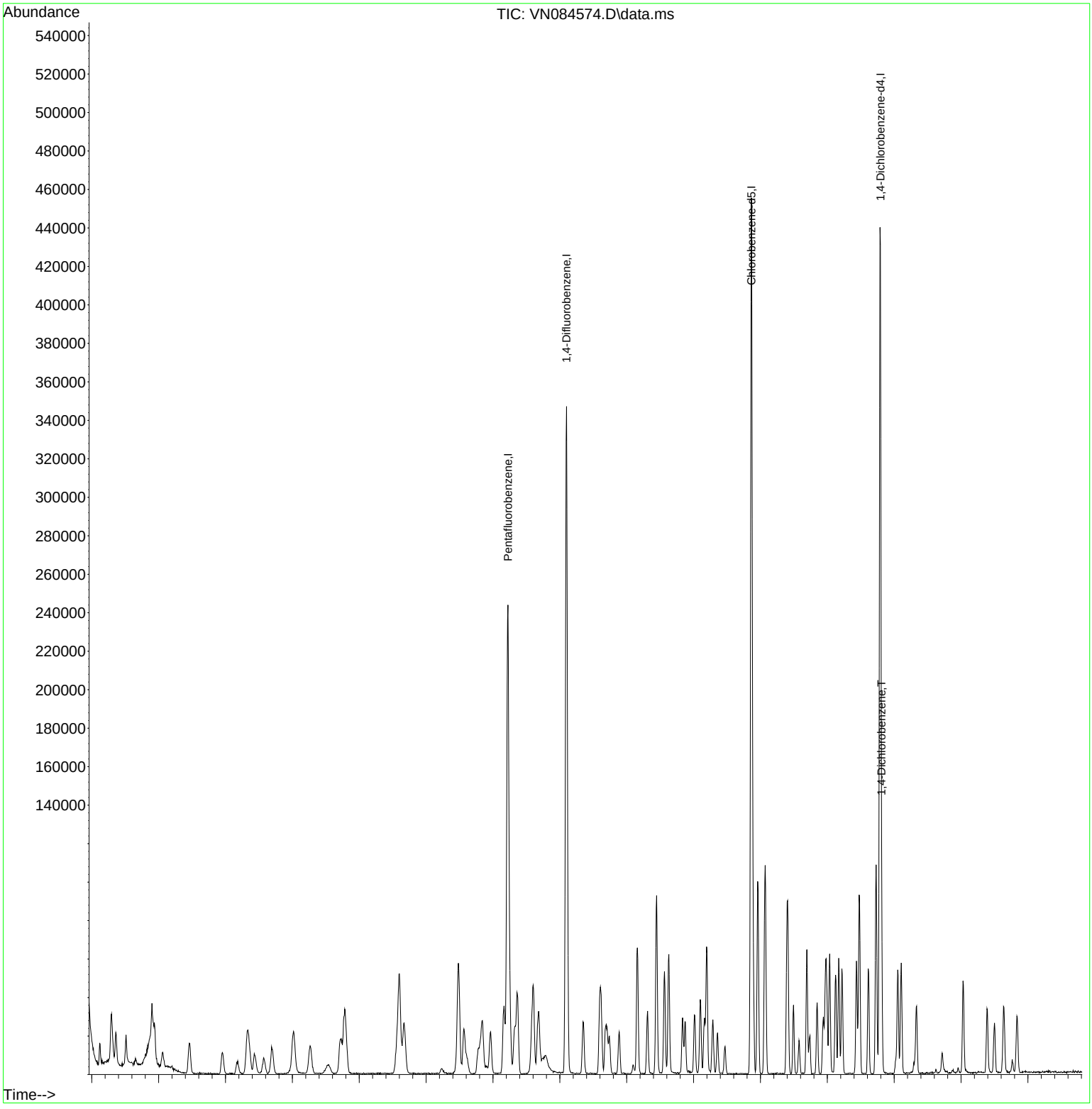
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084574.D
Acq On : 30 Oct 2024 13:21
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:19:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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\VN103024\
Data File : VN084575.D
Acq On : 30 Oct 2024 13:45
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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

Quant Time: Oct 31 18:14:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:13:36 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.224	168	168991	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.100	114	297772	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.865	117	250990	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	109560	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l		
Spiked Amount 50.000	Range 74 - 125		Recovery =	0.000%#			
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l		
Spiked Amount 50.000	Range 75 - 124		Recovery =	0.000%#			
50) Toluene-d8	0.000	98	0d	0.000	ug/l		
Spiked Amount 50.000	Range 86 - 113		Recovery =	0.000%#			
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l		
Spiked Amount 50.000	Range 77 - 121		Recovery =	0.000%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	1964	1.011	ug/l		100
3) Chloromethane	2.365	50	6046	1.880	ug/l	#	80
4) Vinyl Chloride	2.512	62	1963	0.939	ug/l		89
6) Chloroethane	3.083	64	2917	0.885	ug/l		98
7) Trichlorofluoromethane	3.471	101	3621	1.052	ug/l	#	74
8) Diethyl Ether	3.971	74	1209m	0.996	ug/l		
9) 1,1,2-Trichlorotrifluo...	4.359	101	1982	1.019	ug/l		90
12) 1,1-Dichloroethene	4.336	96	2177	1.131	ug/l	#	68
14) Allyl chloride	5.006	41	2869	0.919	ug/l	#	29
15) Acrylonitrile	5.730	53	4443	4.764	ug/l	#	55
16) Acetone	4.430	43	5707m	5.302	ug/l		
17) Carbon Disulfide	4.700	76	7155	1.207	ug/l	#	93
18) Methyl Acetate	5.024	43	7743	1.954	ug/l	#	89
19) Methyl tert-butyl Ether	5.806	73	5314	0.901	ug/l		95
20) Methylene Chloride	5.271	84	2029	0.945	ug/l	#	81
21) trans-1,2-Dichloroethene	5.789	96	2030	1.027	ug/l	#	78
22) Diisopropyl ether	6.665	45	5485	0.884	ug/l	#	89
23) Vinyl Acetate	6.600	43	18413	4.306	ug/l		96
24) 1,1-Dichloroethane	6.553	63	3491	0.938	ug/l	#	83
25) 2-Butanone	7.494	43	5644	4.956	ug/l	#	88
26) 2,2-Dichloropropane	7.488	77	3152	0.973	ug/l	#	70
27) cis-1,2-Dichloroethene	7.477	96	2275	0.986	ug/l	#	75
28) Bromochloromethane	7.812	49	1450	0.978	ug/l	#	97
29) Tetrahydrofuran	7.847	42	3321	4.396	ug/l		96
30) Chloroform	7.965	83	3463	0.914	ug/l		87
32) 1,1,1-Trichloroethane	8.171	97	3312	0.960	ug/l	#	34
36) 1,1-Dichloropropene	8.365	75	2825	1.011	ug/l		97
37) Ethyl Acetate	7.559	43	2440	0.962	ug/l	#	88
38) Carbon Tetrachloride	8.353	117	2904	0.929	ug/l	#	73
39) Methylcyclohexane	9.600	83	2212	0.778	ug/l		89
40) Benzene	8.600	78	9169	1.021	ug/l		94
41) Methacrylonitrile	7.777	41	1095	0.803	ug/l	#	84
42) 1,2-Dichloroethane	8.665	62	2733	0.940	ug/l		81
43) Isopropyl Acetate	8.688	43	7724	0.697	ug/l	#	78
44) Trichloroethene	9.353	130	2306	1.114	ug/l		74
45) 1,2-Dichloropropane	9.624	63	1967	0.934	ug/l	#	86

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084575.D
Acq On : 30 Oct 2024 13:45
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:14:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:13:36 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

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)
46) Dibromomethane	9.712	93	1472	0.991 ug/l	93
47) Bromodichloromethane	9.882	83	3156	1.008 ug/l #	96
48) Methyl methacrylate	9.682	41	1652	0.837 ug/l #	84
49) 1,4-Dioxane	9.700	88	576	16.468 ug/l #	73
51) 4-Methyl-2-Pentanone	10.441	43	10237	4.234 ug/l	92
52) Toluene	10.629	92	4507	0.858 ug/l	89
53) t-1,3-Dichloropropene	10.835	75	3308	1.020 ug/l	93
54) cis-1,3-Dichloropropene	10.312	75	3266	0.952 ug/l #	94
55) 1,1,2-Trichloroethane	11.012	97	1841	0.931 ug/l #	86
56) Ethyl methacrylate	10.876	69	2211	0.773 ug/l	94
57) 1,3-Dichloropropane	11.165	76	3139	0.925 ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	4979	3.720 ug/l #	87
59) 2-Hexanone	11.194	43	7617	4.328 ug/l	89
60) Dibromochloromethane	11.353	129	1857	0.824 ug/l	88
61) 1,2-Dibromoethane	11.465	107	2001	0.988 ug/l	89
64) Tetrachloroethene	11.100	164	1629	0.976 ug/l #	69
65) Chlorobenzene	11.894	112	5753	1.025 ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	2002	1.025 ug/l #	61
67) Ethyl Benzene	11.965	91	8520	0.909 ug/l	98
68) m/p-Xylenes	12.070	106	6568	1.851 ug/l	96
69) o-Xylene	12.400	106	2759	0.831 ug/l	99
70) Styrene	12.406	104	5269	0.910 ug/l	95
71) Bromoform	12.582	173	1434	0.976 ug/l #	95
73) Isopropylbenzene	12.694	105	6985	0.910 ug/l	99
74) N-amyl acetate	12.488	43	2680	0.820 ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.929	83	2678	1.045 ug/l #	91
76) 1,2,3-Trichloropropane	12.994	75	2731m	1.263 ug/l	
77) Bromobenzene	12.982	156	2440	1.182 ug/l	95
78) n-propylbenzene	13.035	91	7935	0.882 ug/l	95
79) 2-Chlorotoluene	13.123	91	5699	0.969 ug/l	96
80) 1,3,5-Trimethylbenzene	13.170	105	5298	0.833 ug/l	98
82) 4-Chlorotoluene	13.223	91	6682	1.080 ug/l	96
83) tert-Butylbenzene	13.435	119	4148	0.788 ug/l	89
84) 1,2,4-Trimethylbenzene	13.482	105	5651	0.860 ug/l	98
85) sec-Butylbenzene	13.617	105	6490	0.872 ug/l	93
86) p-Isopropyltoluene	13.729	119	4859	0.796 ug/l	94
87) 1,3-Dichlorobenzene	13.729	146	4961	1.232 ug/l	95
88) 1,4-Dichlorobenzene	13.817	146	6076m	0.801 ug/l	
89) n-Butylbenzene	14.059	91	6020	1.055 ug/l	95
90) Hexachloroethane	14.329	117	1493	1.097 ug/l	95
91) 1,2-Dichlorobenzene	14.106	146	4428	1.144 ug/l	91
92) 1,2-Dibromo-3-Chloropr...	14.717	75	595	1.146 ug/l	83
93) 1,2,4-Trichlorobenzene	15.394	180	2964	1.399 ug/l	98
94) Hexachlorobutadiene	15.506	225	1208	1.298 ug/l	88
95) Naphthalene	15.635	128	7352	1.159 ug/l	96
96) 1,2,3-Trichlorobenzene	15.835	180	2605	1.267 ug/l	91

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

ICAL Form

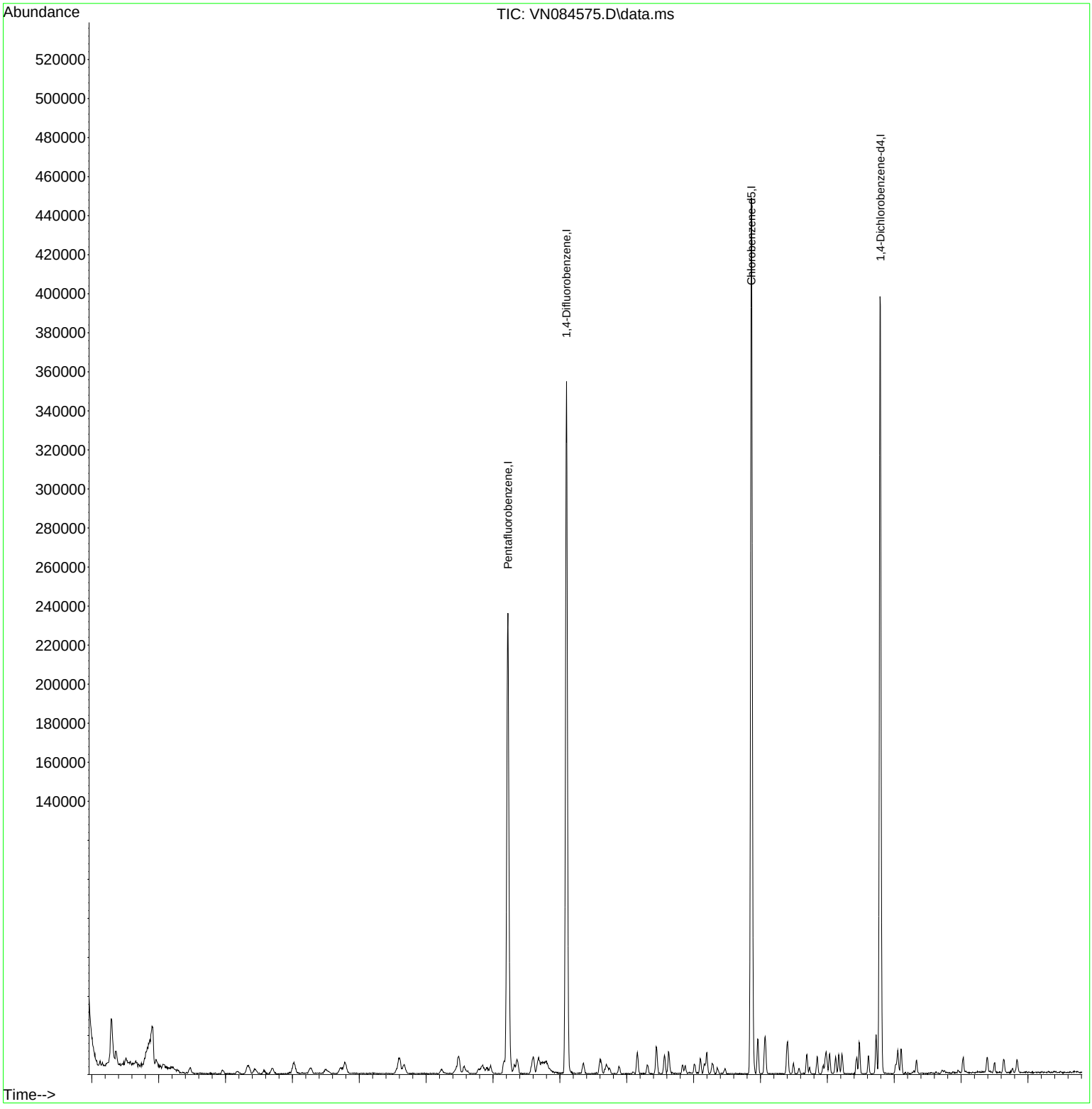
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084575.D
Acq On : 30 Oct 2024 13:45
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:14:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:13:36 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

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\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

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)
Internal Standards						
1) Pentafluorobenzene	8.224	168	192202	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	324264	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	291586	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	142817	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	132029	47.560	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 95.120%			
35) Dibromofluoromethane	8.165	113	104306	47.522	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.040%			
50) Toluene-d8	10.565	98	390989	48.359	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.720%			
62) 4-Bromofluorobenzene	12.847	95	144180	47.715	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.420%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	101605	45.985	ug/l	97
3) Chloromethane	2.359	50	118060	45.299	ug/l	99
4) Vinyl Chloride	2.512	62	110340	46.430	ug/l	95
5) Bromomethane	2.900	94	54764	43.494	ug/l	100
6) Chloroethane	3.071	64	68330	46.348	ug/l	93
7) Trichlorofluoromethane	3.471	101	178683	45.644	ug/l	98
8) Diethyl Ether	3.959	74	64407	46.640	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.359	101	101094	45.702	ug/l	98
10) Methyl Iodide	4.577	142	137594	46.542	ug/l	97
11) Tert butyl alcohol	5.536	59	80556	219.840	ug/l	99
12) 1,1-Dichloroethene	4.330	96	99235	45.338	ug/l	99
13) Acrolein	4.171	56	79788	218.362	ug/l	98
14) Allyl chloride	5.012	41	170293	47.975	ug/l	92
15) Acrylonitrile	5.718	53	251141	236.747	ug/l	100
16) Acetone	4.430	43	196070	244.445	ug/l	100
17) Carbon Disulfide	4.700	76	287697	42.682	ug/l	99
18) Methyl Acetate	5.024	43	132834	44.944	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	326067	48.603	ug/l	97
20) Methylene Chloride	5.265	84	111618	45.716	ug/l	91
21) trans-1,2-Dichloroethene	5.777	96	101181	45.019	ug/l	98
22) Diisopropyl ether	6.671	45	343763	48.739	ug/l	99
23) Vinyl Acetate	6.600	43	1204384	247.614	ug/l	99
24) 1,1-Dichloroethane	6.559	63	196518	46.408	ug/l	97
25) 2-Butanone	7.483	43	307765	237.635	ug/l	97
26) 2,2-Dichloropropane	7.488	77	166234	45.103	ug/l	97
27) cis-1,2-Dichloroethene	7.483	96	121280	46.214	ug/l	97
28) Bromochloromethane	7.806	49	92741	54.971	ug/l	97
29) Tetrahydrofuran	7.835	42	211210	245.822	ug/l	98
30) Chloroform	7.965	83	203935	47.316	ug/l	100
31) Cyclohexane	8.253	56	172671	45.053	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	183488	46.774	ug/l	98
36) 1,1-Dichloropropene	8.365	75	141152	46.370	ug/l	100
37) Ethyl Acetate	7.559	43	132993	48.154	ug/l	99
38) Carbon Tetrachloride	8.359	117	157005	46.145	ug/l	97
39) Methylcyclohexane	9.600	83	154743	49.969	ug/l	99
40) Benzene	8.606	78	452351	46.273	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

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)
41) Methacrylonitrile	7.777	41	77176	51.964	ug/l		99
42) 1,2-Dichloroethane	8.671	62	149173	47.118	ug/l		99
43) Isopropyl Acetate	8.688	43	232558	45.492	ug/l		98
44) Trichloroethene	9.347	130	100849	44.732	ug/l		99
45) 1,2-Dichloropropane	9.618	63	108229	47.196	ug/l		96
46) Dibromomethane	9.706	93	74292	45.911	ug/l		96
47) Bromodichloromethane	9.888	83	158814	46.560	ug/l	#	99
48) Methyl methacrylate	9.676	41	109745	51.057	ug/l		97
49) 1,4-Dioxane	9.694	88	40527	1063.992	ug/l	#	95
51) 4-Methyl-2-Pentanone	10.447	43	665397	252.729	ug/l		98
52) Toluene	10.629	92	277957	48.616	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	162100	45.911	ug/l		99
54) cis-1,3-Dichloropropene	10.312	75	175008	46.832	ug/l		99
55) 1,1,2-Trichloroethane	11.018	97	102553	47.618	ug/l		97
56) Ethyl methacrylate	10.871	69	164370	52.764	ug/l		98
57) 1,3-Dichloropropane	11.165	76	176546	47.765	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	408174	280.013	ug/l		98
59) 2-Hexanone	11.194	43	489776	255.570	ug/l		99
60) Dibromochloromethane	11.359	129	120465	49.079	ug/l		99
61) 1,2-Dibromoethane	11.465	107	102316	46.393	ug/l		100
64) Tetrachloroethene	11.100	164	88124	45.436	ug/l		98
65) Chlorobenzene	11.888	112	292713	44.872	ug/l		95
66) 1,1,1,2-Tetrachloroethane	11.959	131	105108	46.323	ug/l		99
67) Ethyl Benzene	11.965	91	526140	48.319	ug/l		99
68) m/p-Xylenes	12.070	106	408029	98.979	ug/l		99
69) o-Xylene	12.400	106	194895	50.538	ug/l		99
70) Styrene	12.412	104	333668	49.600	ug/l		98
71) Bromoform	12.576	173	78822	46.166	ug/l	#	98
73) Isopropylbenzene	12.694	105	491033	49.063	ug/l		100
74) N-amyl acetate	12.494	43	209049	49.076	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.935	83	147181	44.058	ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	122725m	42.988	ug/l		
77) Bromobenzene	12.976	156	119728	44.500	ug/l		97
78) n-propylbenzene	13.035	91	576495	49.156	ug/l		98
79) 2-Chlorotoluene	13.123	91	367294	47.930	ug/l		100
80) 1,3,5-Trimethylbenzene	13.170	105	420675	50.714	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	54512	45.300	ug/l		99
82) 4-Chlorotoluene	13.223	91	361596	44.837	ug/l		98
83) tert-Butylbenzene	13.435	119	361800	52.701	ug/l		98
84) 1,2,4-Trimethylbenzene	13.482	105	428517	50.053	ug/l		100
85) sec-Butylbenzene	13.617	105	483212	49.829	ug/l		100
86) p-Isopropyltoluene	13.729	119	410129	51.568	ug/l		100
87) 1,3-Dichlorobenzene	13.729	146	219757	41.852	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	221608	45.904	ug/l		99
89) n-Butylbenzene	14.053	91	341775	45.941	ug/l		100
90) Hexachloroethane	14.329	117	77324	43.597	ug/l		98
91) 1,2-Dichlorobenzene	14.106	146	220824	43.765	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	30895	45.651	ug/l		98
93) 1,2,4-Trichlorobenzene	15.388	180	111270	40.290	ug/l		98
94) Hexachlorobutadiene	15.500	225	47959	39.544	ug/l		97
95) Naphthalene	15.641	128	375360	45.408	ug/l		100
96) 1,2,3-Trichlorobenzene	15.841	180	108830	40.595	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Manual Integrations APPROVED

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

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 2024
Response via : Initial Calibration

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

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

ICAL Form

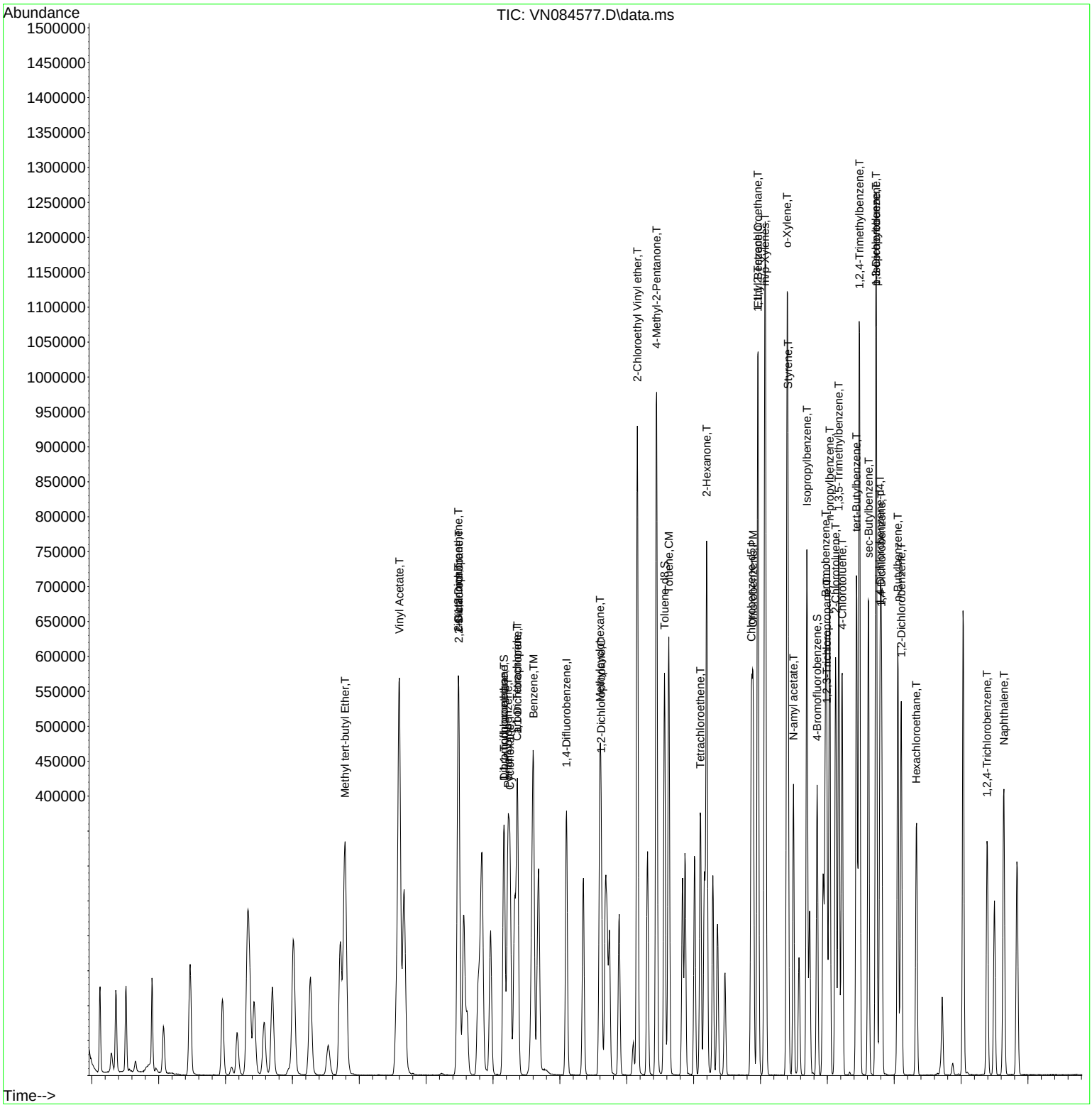
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

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\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 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	Pentafluorobenzene	1.000	1.000	0.0	103	0.00
2	T	Dichlorodifluoromethane	0.575	0.529	8.0	99	0.00
3	P	Chloromethane	0.952	0.614	35.5#	94	0.00
4	C	Vinyl Chloride	0.618	0.574	7.1#	98	0.00
5	T	Bromomethane	0.328	0.285	13.1	99	-0.05
6	T	Chloroethane	0.488	0.356	27.0#	97	-0.05
7	T	Trichlorofluoromethane	1.018	0.930	8.6	100	-0.02
8	T	Diethyl Ether	0.359	0.335	6.7	98	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.575	0.526	8.5	97	-0.01
10	T	Methyl Iodide	0.769	0.716	6.9	100	-0.02
11	T	Tert butyl alcohol	0.095	0.084	11.6	100	0.01
12	CM	1,1-Dichloroethene	0.569	0.516	9.3#	99	-0.01
13	T	Acrolein	0.095	0.083	12.6	97	0.00
14	T	Allyl chloride	0.923	0.886	4.0	100	-0.01
15	T	Acrylonitrile	0.276	0.261	5.4	99	0.00
16	T	Acetone	0.238	0.204	14.3	103	0.00
17	T	Carbon Disulfide	1.753	1.497	14.6	96	-0.01
18	T	Methyl Acetate	1.172	0.691	41.0#	95	0.00
19	T	Methyl tert-butyl Ether	1.745	1.696	2.8	99	0.00
20	T	Methylene Chloride	0.635	0.581	8.5	99	-0.01
21	T	trans-1,2-Dichloroethene	0.585	0.526	10.1	96	-0.01
22	T	Diisopropyl ether	1.835	1.789	2.5	99	0.00
23	T	Vinyl Acetate	1.265	1.253	0.9	99	0.00
24	P	1,1-Dichloroethane	1.102	1.022	7.3	99	-0.01
25	T	2-Butanone	0.337	0.320	5.0	105	0.00
26	T	2,2-Dichloropropane	0.959	0.865	9.8	95	0.00
27	T	cis-1,2-Dichloroethene	0.683	0.631	7.6	98	0.00
28	T	Bromochloromethane	0.439	0.483	-10.0	97	0.00
29	T	Tetrahydrofuran	0.224	0.220	1.8	102	0.00
30	C	Chloroform	1.121	1.061	5.4#	101	0.00
31	T	Cyclohexane	0.997	0.898	9.9	99	0.00
32	T	1,1,1-Trichloroethane	1.021	0.955	6.5	99	0.00
33	S	1,2-Dichloroethane-d4	0.722	0.687	4.8	98	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	104	0.00
35	S	Dibromofluoromethane	0.338	0.322	4.7	97	0.00
36	T	1,1-Dichloropropene	0.469	0.435	7.2	100	0.00
37	T	Ethyl Acetate	0.426	0.410	3.8	101	0.00
38	T	Carbon Tetrachloride	0.525	0.484	7.8	98	0.00
39	T	Methylcyclohexane	0.478	0.477	0.2	98	0.00
40	TM	Benzene	1.507	1.395	7.4	100	0.00
41	T	Methacrylonitrile	0.229	0.238	-3.9	101	0.00
42	TM	1,2-Dichloroethane	0.488	0.460	5.7	97	0.00
43	T	Isopropyl Acetate	0.927	0.717	22.7	99	0.00
44	TM	Trichloroethene	0.348	0.311	10.6	97	0.00
45	C	1,2-Dichloropropane	0.354	0.334	5.6#	100	0.00
46	T	Dibromomethane	0.250	0.229	8.4	98	0.00
47	T	Bromodichloromethane	0.526	0.490	6.8	98	0.00
48	T	Methyl methacrylate	0.331	0.338	-2.1	102	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 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	1,4-Dioxane	0.006	0.006	0.0	107	0.00
50	S	Toluene-d8	1.247	1.206	3.3	96	0.00
51	T	4-Methyl-2-Pentanone	0.406	0.410	-1.0	101	0.00
52	CM	Toluene	0.882	0.857	2.8#	99	0.00
53	T	t-1,3-Dichloropropene	0.544	0.500	8.1	96	0.00
54	T	cis-1,3-Dichloropropene	0.576	0.540	6.2	97	0.00
55	T	1,1,2-Trichloroethane	0.332	0.316	4.8	100	0.00
56	T	Ethyl methacrylate	0.480	0.507	-5.6	98	0.00
57	T	1,3-Dichloropropane	0.570	0.544	4.6	100	0.00
58	T	2-Chloroethyl Vinyl ether	0.225	0.252	-12.0	100	0.00
59	T	2-Hexanone	0.296	0.302	-2.0	101	0.00
60	T	Dibromochloromethane	0.378	0.372	1.6	98	0.00
61	T	1,2-Dibromoethane	0.340	0.316	7.1	98	0.00
62	S	4-Bromofluorobenzene	0.466	0.445	4.5	94	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
64	T	Tetrachloroethene	0.333	0.302	9.3	101	0.00
65	PM	Chlorobenzene	1.119	1.004	10.3	99	0.00
66	T	1,1,1,2-Tetrachloroethane	0.389	0.360	7.5	100	0.00
67	C	Ethyl Benzene	1.867	1.804	3.4#	100	0.00
68	T	m/p-Xylenes	0.707	0.700	1.0	100	0.00
69	T	o-Xylene	0.661	0.668	-1.1	101	0.00
70	T	Styrene	1.154	1.144	0.9	99	0.00
71	P	Bromoform	0.293	0.270	7.8	96	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
73	T	Isopropylbenzene	3.504	3.438	1.9	99	0.00
74	T	N-amyl acetate	1.491	1.464	1.8	99	0.00
75	P	1,1,2,2-Tetrachloroethane	1.170	1.031	11.9	99	0.00
76	T	1,2,3-Trichloropropane	0.999	0.859	14.0	100	0.00
77	T	Bromobenzene	0.942	0.838	11.0	98	0.00
78	T	n-propylbenzene	4.106	4.037	1.7	98	0.00
79	T	2-Chlorotoluene	2.683	2.572	4.1	101	0.00
80	T	1,3,5-Trimethylbenzene	2.904	2.946	-1.4	99	0.00
81	T	trans-1,4-Dichloro-2-butene	0.421	0.382	9.3	98	0.00
82	T	4-Chlorotoluene	2.823	2.532	10.3	96	0.00
83	T	tert-Butylbenzene	2.403	2.533	-5.4	103	0.00
84	T	1,2,4-Trimethylbenzene	2.997	3.000	-0.1	98	0.00
85	T	sec-Butylbenzene	3.395	3.383	0.4	99	0.00
86	T	p-Isopropyltoluene	2.784	2.872	-3.2	97	0.00
87	T	1,3-Dichlorobenzene	1.838	1.539	16.3	95	0.00
88	T	1,4-Dichlorobenzene	1.937	1.552	19.9	96	0.00
89	T	n-Butylbenzene	2.605	2.393	8.1	94	0.00
90	T	Hexachloroethane	0.621	0.541	12.9	95	0.00
91	T	1,2-Dichlorobenzene	1.766	1.546	12.5	99	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.237	0.216	8.9	103	0.00
93	T	1,2,4-Trichlorobenzene	0.967	0.779	19.4	93	0.00
94	T	Hexachlorobutadiene	0.425	0.336	20.9	94	0.00
95	T	Naphthalene	2.894	2.628	9.2	98	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 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)
96 T	1,2,3-Trichlorobenzene	0.939	0.762	18.8	94	0.00

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

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 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	Pentafluorobenzene	50.000	50.000	0.0	103	0.00
2	T	Dichlorodifluoromethane	50.000	45.985	8.0	99	0.00
3	P	Chloromethane	50.000	45.299	9.4	94	0.00
4	C	Vinyl Chloride	50.000	46.430	7.1#	98	0.00
5	T	Bromomethane	50.000	43.494	13.0	99	-0.05
6	T	Chloroethane	50.000	46.348	7.3	97	-0.05
7	T	Trichlorofluoromethane	50.000	45.644	8.7	100	-0.02
8	T	Diethyl Ether	50.000	46.640	6.7	98	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	45.702	8.6	97	-0.01
10	T	Methyl Iodide	50.000	46.542	6.9	100	-0.02
11	T	Tert butyl alcohol	250.000	219.840	12.1	100	0.01
12	CM	1,1-Dichloroethene	50.000	45.338	9.3#	99	-0.01
13	T	Acrolein	250.000	218.362	12.7	97	0.00
14	T	Allyl chloride	50.000	47.975	4.0	100	-0.01
15	T	Acrylonitrile	250.000	236.747	5.3	99	0.00
16	T	Acetone	250.000	244.445	2.2	103	0.00
17	T	Carbon Disulfide	50.000	42.682	14.6	96	-0.01
18	T	Methyl Acetate	50.000	44.944	10.1	95	0.00
19	T	Methyl tert-butyl Ether	50.000	48.603	2.8	99	0.00
20	T	Methylene Chloride	50.000	45.716	8.6	99	-0.01
21	T	trans-1,2-Dichloroethene	50.000	45.019	10.0	96	-0.01
22	T	Diisopropyl ether	50.000	48.739	2.5	99	0.00
23	T	Vinyl Acetate	250.000	247.614	1.0	99	0.00
24	P	1,1-Dichloroethane	50.000	46.408	7.2	99	-0.01
25	T	2-Butanone	250.000	237.635	4.9	105	0.00
26	T	2,2-Dichloropropane	50.000	45.103	9.8	95	0.00
27	T	cis-1,2-Dichloroethene	50.000	46.214	7.6	98	0.00
28	T	Bromochloromethane	50.000	54.971	-9.9	97	0.00
29	T	Tetrahydrofuran	250.000	245.822	1.7	102	0.00
30	C	Chloroform	50.000	47.316	5.4#	101	0.00
31	T	Cyclohexane	50.000	45.053	9.9	99	0.00
32	T	1,1,1-Trichloroethane	50.000	46.774	6.5	99	0.00
33	S	1,2-Dichloroethane-d4	50.000	47.560	4.9	98	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	104	0.00
35	S	Dibromofluoromethane	50.000	47.522	5.0	97	0.00
36	T	1,1-Dichloropropene	50.000	46.370	7.3	100	0.00
37	T	Ethyl Acetate	50.000	48.154	3.7	101	0.00
38	T	Carbon Tetrachloride	50.000	46.145	7.7	98	0.00
39	T	Methylcyclohexane	50.000	49.969	0.1	98	0.00
40	TM	Benzene	50.000	46.273	7.5	100	0.00
41	T	Methacrylonitrile	50.000	51.964	-3.9	101	0.00
42	TM	1,2-Dichloroethane	50.000	47.118	5.8	97	0.00
43	T	Isopropyl Acetate	50.000	45.492	9.0	99	0.00
44	TM	Trichloroethene	50.000	44.732	10.5	97	0.00
45	C	1,2-Dichloropropane	50.000	47.196	5.6#	100	0.00
46	T	Dibromomethane	50.000	45.911	8.2	98	0.00
47	T	Bromodichloromethane	50.000	46.560	6.9	98	0.00
48	T	Methyl methacrylate	50.000	51.057	-2.1	102	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 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	1,4-Dioxane	1000.000	1063.992	-6.4	107	0.00
50	S	Toluene-d8	50.000	48.359	3.3	96	0.00
51	T	4-Methyl-2-Pentanone	250.000	252.729	-1.1	101	0.00
52	CM	Toluene	50.000	48.616	2.8#	99	0.00
53	T	t-1,3-Dichloropropene	50.000	45.911	8.2	96	0.00
54	T	cis-1,3-Dichloropropene	50.000	46.832	6.3	97	0.00
55	T	1,1,2-Trichloroethane	50.000	47.618	4.8	100	0.00
56	T	Ethyl methacrylate	50.000	52.764	-5.5	98	0.00
57	T	1,3-Dichloropropane	50.000	47.765	4.5	100	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	280.013	-12.0	100	0.00
59	T	2-Hexanone	250.000	255.570	-2.2	101	0.00
60	T	Dibromochloromethane	50.000	49.079	1.8	98	0.00
61	T	1,2-Dibromoethane	50.000	46.393	7.2	98	0.00
62	S	4-Bromofluorobenzene	50.000	47.715	4.6	94	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	104	0.00
64	T	Tetrachloroethene	50.000	45.436	9.1	101	0.00
65	PM	Chlorobenzene	50.000	44.872	10.3	99	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	46.323	7.4	100	0.00
67	C	Ethyl Benzene	50.000	48.319	3.4#	100	0.00
68	T	m/p-Xylenes	100.000	98.979	1.0	100	0.00
69	T	o-Xylene	50.000	50.538	-1.1	101	0.00
70	T	Styrene	50.000	49.600	0.8	99	0.00
71	P	Bromoform	50.000	46.166	7.7	96	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	103	0.00
73	T	Isopropylbenzene	50.000	49.063	1.9	99	0.00
74	T	N-amyl acetate	50.000	49.076	1.8	99	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	44.058	11.9	99	0.00
76	T	1,2,3-Trichloropropane	50.000	42.988	14.0	100	0.00
77	T	Bromobenzene	50.000	44.500	11.0	98	0.00
78	T	n-propylbenzene	50.000	49.156	1.7	98	0.00
79	T	2-Chlorotoluene	50.000	47.930	4.1	101	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.714	-1.4	99	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	45.300	9.4	98	0.00
82	T	4-Chlorotoluene	50.000	44.837	10.3	96	0.00
83	T	tert-Butylbenzene	50.000	52.701	-5.4	103	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.053	-0.1	98	0.00
85	T	sec-Butylbenzene	50.000	49.829	0.3	99	0.00
86	T	p-Isopropyltoluene	50.000	51.568	-3.1	97	0.00
87	T	1,3-Dichlorobenzene	50.000	41.852	16.3	95	0.00
88	T	1,4-Dichlorobenzene	50.000	45.904	8.2	96	0.00
89	T	n-Butylbenzene	50.000	45.941	8.1	94	0.00
90	T	Hexachloroethane	50.000	43.597	12.8	95	0.00
91	T	1,2-Dichlorobenzene	50.000	43.765	12.5	99	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	45.651	8.7	103	0.00
93	T	1,2,4-Trichlorobenzene	50.000	40.290	19.4	93	0.00
94	T	Hexachlorobutadiene	50.000	39.544	20.9	94	0.00
95	T	Naphthalene	50.000	45.408	9.2	98	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 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)
96 T	1,2,3-Trichlorobenzene	50.000	40.595	18.8	94	0.00

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

Raw Data: **VN084911.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: P4861 SAS No.: P4861 SDG No.: P4861

Instrument ID: MSVOA_N Calibration Date/Time: 11/18/2024 09:51

Lab File ID: VN084911.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:46 13:45

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.618	0.613		-0.81	20
1,1-Dichloroethene	0.569	0.556		-2.29	20
2-Butanone	0.337	0.400		18.69	20
Carbon Tetrachloride	0.525	0.572		8.95	20
Chloroform	1.121	1.196		6.69	20
Benzene	1.507	1.585		5.18	20
1,2-Dichloroethane	0.488	0.532		9.02	20
Trichloroethene	0.348	0.351		0.86	20
Tetrachloroethene	0.333	0.343		3	20
Chlorobenzene	1.119	1.141	0.3	1.97	20
1,2-Dichloroethane-d4	0.722	0.729		0.97	20
Dibromofluoromethane	0.338	0.348		2.96	20
Toluene-d8	1.247	1.248		0.08	20
4-Bromofluorobenzene	0.466	0.461		-1.07	20

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

Sample Results: **VN084911.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084911.D
Acq On : 18 Nov 2024 09:51
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

Quant Time: Nov 19 00:22:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	168638	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	277153	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	245519	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	120987	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	122943	50.475	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.960%			
35) Dibromofluoromethane	8.165	113	96367	51.369	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.740%			
50) Toluene-d8	10.565	98	345790	50.038	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.080%			
62) 4-Bromofluorobenzene	12.847	95	127896	49.520	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.040%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.118	85	94140	48.560	ug/l	97
3) Chloromethane	2.359	50	106397	46.601	ug/l	98
4) Vinyl Chloride	2.512	62	103437	49.608	ug/l	97
5) Bromomethane	2.901	94	56086	50.768	ug/l	98
6) Chloroethane	3.065	64	69564	54.008	ug/l	98
7) Trichlorofluoromethane	3.465	101	176382	51.352	ug/l	97
8) Diethyl Ether	3.953	74	63015	52.008	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.359	101	102681	52.906	ug/l	99
10) Methyl Iodide	4.577	142	135583	52.270	ug/l	94
11) Tert butyl alcohol	5.542	59	79448	247.112	ug/l #	88
12) 1,1-Dichloroethene	4.324	96	93815	48.851	ug/l	96
13) Acrolein	4.171	56	77585	242.002	ug/l	98
14) Allyl chloride	5.012	41	156216	50.158	ug/l	93
15) Acrylonitrile	5.712	53	254739	273.694	ug/l	99
16) Acetone	4.424	43	217186	309.363	ug/l	100
17) Carbon Disulfide	4.695	76	257155	43.482	ug/l	99
18) Methyl Acetate	5.018	43	133018	51.908	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	321920	54.690	ug/l	99
20) Methylene Chloride	5.271	84	108903	50.836	ug/l	89
21) trans-1,2-Dichloroethene	5.777	96	97942	49.667	ug/l	96
22) Diisopropyl ether	6.671	45	336088	54.309	ug/l	98
23) Vinyl Acetate	6.594	43	1199542	281.078	ug/l	100
24) 1,1-Dichloroethane	6.559	63	194999	52.484	ug/l	98
25) 2-Butanone	7.483	43	337139	296.690	ug/l	99
26) 2,2-Dichloropropane	7.483	77	181782	56.214	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	122088	53.023	ug/l	96
28) Bromochloromethane	7.806	49	83372	56.322	ug/l	95
29) Tetrahydrofuran	7.836	42	215923	286.423	ug/l	96
30) Chloroform	7.959	83	201727	53.344	ug/l	96
31) Cyclohexane	8.253	56	161905	48.147	ug/l	98
32) 1,1,1-Trichloroethane	8.159	97	184581	53.627	ug/l	98
36) 1,1-Dichloropropene	8.365	75	135635	52.132	ug/l	99
37) Ethyl Acetate	7.559	43	135552	57.424	ug/l	98
38) Carbon Tetrachloride	8.359	117	158591	54.534	ug/l	98
39) Methylcyclohexane	9.594	83	145438	54.948	ug/l	98
40) Benzene	8.600	78	439334	52.580	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084911.D
Acq On : 18 Nov 2024 09:51
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 00:22:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.771	41	72719	57.286 ug/l	96
42) 1,2-Dichloroethane	8.671	62	147319	54.442 ug/l	100
43) Isopropyl Acetate	8.688	43	235029	53.970 ug/l	99
44) Trichloroethene	9.347	130	97336	50.512 ug/l	99
45) 1,2-Dichloropropane	9.618	63	105711	53.933 ug/l	99
46) Dibromomethane	9.706	93	75555	54.629 ug/l	98
47) Bromodichloromethane	9.883	83	160196	54.948 ug/l	97
48) Methyl methacrylate	9.677	41	105134	57.226 ug/l	97
49) 1,4-Dioxane	9.694	88	35315	1084.756 ug/l #	94
51) 4-Methyl-2-Pentanone	10.441	43	673789	299.418 ug/l	99
52) Toluene	10.630	92	268205	54.885 ug/l	100
53) t-1,3-Dichloropropene	10.835	75	156513	51.864 ug/l	99
54) cis-1,3-Dichloropropene	10.306	75	170454	53.367 ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	100727	54.720 ug/l	96
56) Ethyl methacrylate	10.871	69	157529	59.164 ug/l	96
57) 1,3-Dichloropropane	11.159	76	171101	54.160 ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	368017	295.379 ug/l	98
59) 2-Hexanone	11.194	43	507919	310.089 ug/l	98
60) Dibromochloromethane	11.359	129	115630	55.117 ug/l	98
61) 1,2-Dibromoethane	11.471	107	100185	53.148 ug/l	100
64) Tetrachloroethene	11.100	164	84223	51.572 ug/l	97
65) Chlorobenzene	11.888	112	280248	51.022 ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.959	131	102787	53.800 ug/l	99
67) Ethyl Benzene	11.959	91	497151	54.224 ug/l	98
68) m/p-Xylenes	12.071	106	384862	110.877 ug/l	100
69) o-Xylene	12.394	106	182327	56.150 ug/l	100
70) Styrene	12.406	104	310628	54.839 ug/l	99
71) Bromoform	12.576	173	76522	53.228 ug/l #	100
73) Isopropylbenzene	12.694	105	465886	54.949 ug/l	100
74) N-amyl acetate	12.494	43	195775	54.252 ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	148276	52.394 ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	121239m	50.130 ug/l	
77) Bromobenzene	12.976	156	115164	50.527 ug/l	95
78) n-propylbenzene	13.035	91	543291	54.683 ug/l	100
79) 2-Chlorotoluene	13.123	91	338859	52.198 ug/l	98
80) 1,3,5-Trimethylbenzene	13.171	105	394394	56.125 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	50580m	49.616 ug/l	
82) 4-Chlorotoluene	13.218	91	340174	49.791 ug/l	99
83) tert-Butylbenzene	13.435	119	324633	55.819 ug/l	97
84) 1,2,4-Trimethylbenzene	13.476	105	400869	55.272 ug/l	99
85) sec-Butylbenzene	13.612	105	452436	55.073 ug/l	100
86) p-Isopropyltoluene	13.729	119	384216	57.027 ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	207861	46.729 ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	206880	50.751 ug/l	99
89) n-Butylbenzene	14.053	91	317355	50.355 ug/l	99
90) Hexachloroethane	14.329	117	73571	48.966 ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	214119	50.093 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	28020	48.873 ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	100485	42.950 ug/l	99
94) Hexachlorobutadiene	15.500	225	47622	46.351 ug/l	98
95) Naphthalene	15.641	128	326855	46.675 ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	102100	44.956 ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084911.D
Acq On : 18 Nov 2024 09:51
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 00:22:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

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

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

Sample Results: **VN084911.D**

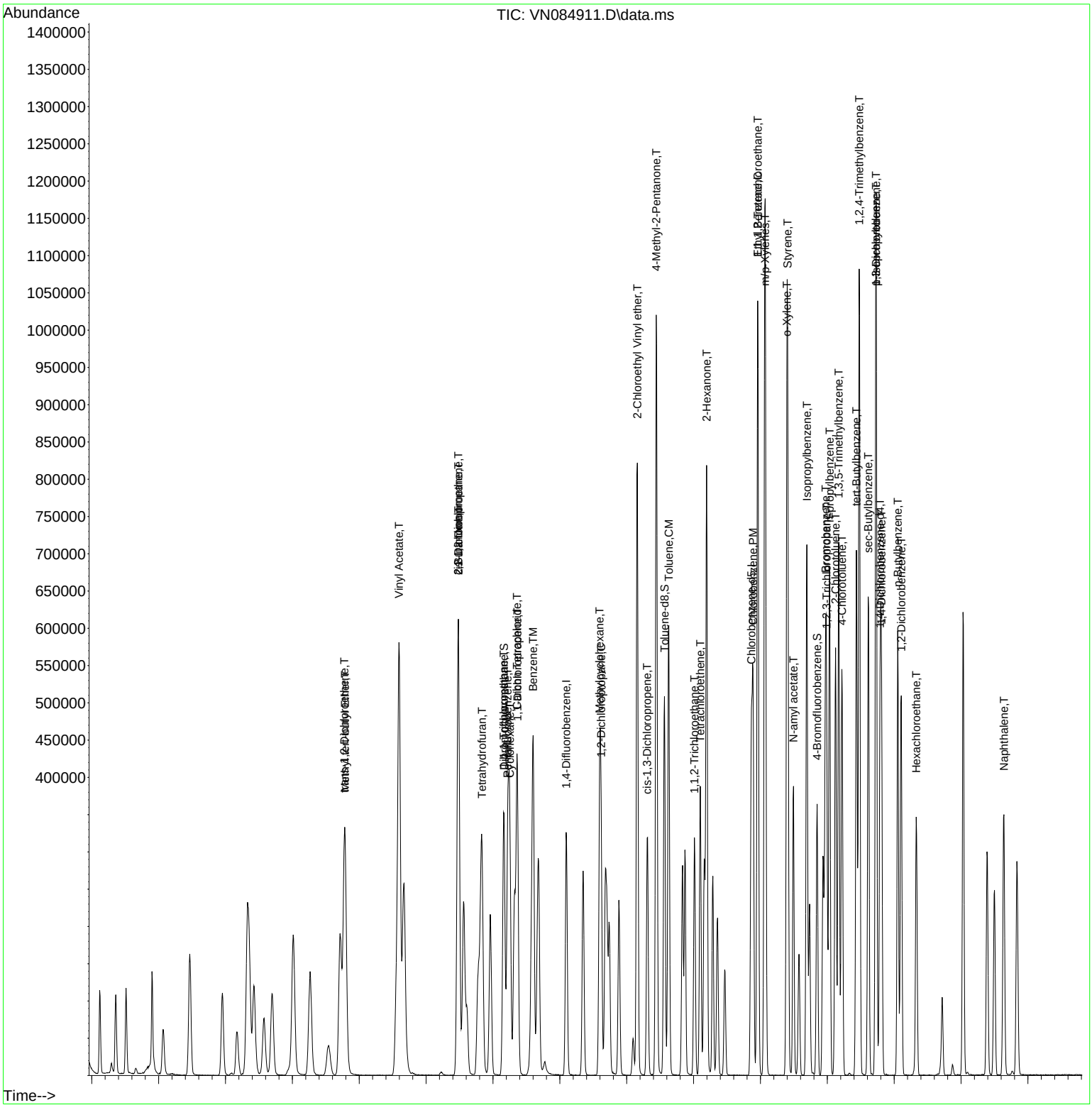
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084911.D
Acq On : 18 Nov 2024 09:51
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 00:22:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024



Sample Results: **VN084911.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084911.D
Acq On : 18 Nov 2024 09:51
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 19 00:22:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 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	Pentafluorobenzene	1.000	1.000	0.0	90	0.00
2	T	Dichlorodifluoromethane	0.575	0.558	3.0	91	0.00
3	P	Chloromethane	0.952	0.631	33.7#	85	0.00
4	C	Vinyl Chloride	0.618	0.613	0.8#	92	0.00
5	T	Bromomethane	0.328	0.333	-1.5	102	-0.05
6	T	Chloroethane	0.488	0.413	15.4	99	-0.05
7	T	Trichlorofluoromethane	1.018	1.046	-2.8	99	-0.03
8	T	Diethyl Ether	0.359	0.374	-4.2	96	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.575	0.609	-5.9	99	-0.01
10	T	Methyl Iodide	0.769	0.804	-4.6	99	-0.02
11	T	Tert butyl alcohol	0.095	0.094	1.1	99	0.02
12	CM	1,1-Dichloroethene	0.569	0.556	2.3#	93	-0.02
13	T	Acrolein	0.095	0.092	3.2	94	0.00
14	T	Allyl chloride	0.923	0.926	-0.3	91	-0.01
15	T	Acrylonitrile	0.276	0.302	-9.4	101	0.00
16	T	Acetone	0.238	0.258	-8.4	114	0.00
17	T	Carbon Disulfide	1.753	1.525	13.0	86	-0.02
18	T	Methyl Acetate	1.172	0.789	32.7#	95	0.00
19	T	Methyl tert-butyl Ether	1.745	1.909	-9.4	98	0.00
20	T	Methylene Chloride	0.635	0.646	-1.7	97	0.00
21	T	trans-1,2-Dichloroethene	0.585	0.581	0.7	93	-0.01
22	T	Diisopropyl ether	1.835	1.993	-8.6	97	0.00
23	T	Vinyl Acetate	1.265	1.423	-12.5	99	0.00
24	P	1,1-Dichloroethane	1.102	1.156	-4.9	98	-0.01
25	T	2-Butanone	0.337	0.400	-18.7	115	0.00
26	T	2,2-Dichloropropane	0.959	1.078	-12.4	104	0.00
27	T	cis-1,2-Dichloroethene	0.683	0.724	-6.0	99	0.00
28	T	Bromochloromethane	0.439	0.494	-12.5	88	0.00
29	T	Tetrahydrofuran	0.224	0.256	-14.3	104	0.00
30	C	Chloroform	1.121	1.196	-6.7#	100	0.00
31	T	Cyclohexane	0.997	0.960	3.7	92	0.00
32	T	1,1,1-Trichloroethane	1.021	1.095	-7.2	100	-0.01
33	S	1,2-Dichloroethane-d4	0.722	0.729	-1.0	91	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	89	0.00
35	S	Dibromofluoromethane	0.338	0.348	-3.0	90	0.00
36	T	1,1-Dichloropropene	0.469	0.489	-4.3	96	0.00
37	T	Ethyl Acetate	0.426	0.489	-14.8	103	0.00
38	T	Carbon Tetrachloride	0.525	0.572	-9.0	99	0.00
39	T	Methylcyclohexane	0.478	0.525	-9.8	92	0.00
40	TM	Benzene	1.507	1.585	-5.2	97	0.00
41	T	Methacrylonitrile	0.229	0.262	-14.4	95	0.00
42	TM	1,2-Dichloroethane	0.488	0.532	-9.0	96	0.00
43	T	Isopropyl Acetate	0.927	0.848	8.5	100	0.00
44	TM	Trichloroethene	0.348	0.351	-0.9	93	0.00
45	C	1,2-Dichloropropane	0.354	0.381	-7.6#	98	0.00
46	T	Dibromomethane	0.250	0.273	-9.2	99	0.00
47	T	Bromodichloromethane	0.526	0.578	-9.9	99	0.00
48	T	Methyl methacrylate	0.331	0.379	-14.5	98	0.00

Sample Results: **VN084911.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084911.D
Acq On : 18 Nov 2024 09:51
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 19 00:22:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 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	1,4-Dioxane	0.006	0.006	0.0	94	0.00
50	S	Toluene-d8	1.247	1.248	-0.1	85	0.00
51	T	4-Methyl-2-Pentanone	0.406	0.486	-19.7	102	0.00
52	CM	Toluene	0.882	0.968	-9.8#	96	0.00
53	T	t-1,3-Dichloropropene	0.544	0.565	-3.9	93	0.00
54	T	cis-1,3-Dichloropropene	0.576	0.615	-6.8	94	0.00
55	T	1,1,2-Trichloroethane	0.332	0.363	-9.3	98	0.00
56	T	Ethyl methacrylate	0.480	0.568	-18.3	94	0.00
57	T	1,3-Dichloropropane	0.570	0.617	-8.2	97	0.00
58	T	2-Chloroethyl Vinyl ether	0.225	0.266	-18.2	90	0.00
59	T	2-Hexanone	0.296	0.367	-24.0	105	0.00
60	T	Dibromochloromethane	0.378	0.417	-10.3	94	0.00
61	T	1,2-Dibromoethane	0.340	0.361	-6.2	96	0.00
62	S	4-Bromofluorobenzene	0.466	0.461	1.1	83	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	88	0.00
64	T	Tetrachloroethene	0.333	0.343	-3.0	96	0.00
65	PM	Chlorobenzene	1.119	1.141	-2.0	95	0.00
66	T	1,1,1,2-Tetrachloroethane	0.389	0.419	-7.7	98	0.00
67	C	Ethyl Benzene	1.867	2.025	-8.5#	94	0.00
68	T	m/p-Xylenes	0.707	0.784	-10.9	95	0.00
69	T	o-Xylene	0.661	0.743	-12.4	95	0.00
70	T	Styrene	1.154	1.265	-9.6	92	0.00
71	P	Bromoform	0.293	0.312	-6.5	93	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	87	0.00
73	T	Isopropylbenzene	3.504	3.851	-9.9	94	0.00
74	T	N-amyl acetate	1.491	1.618	-8.5	93	0.00
75	P	1,1,2,2-Tetrachloroethane	1.170	1.226	-4.8	100	0.00
76	T	1,2,3-Trichloropropane	0.999	1.002	-0.3	99	0.00
77	T	Bromobenzene	0.942	0.952	-1.1	94	0.00
78	T	n-propylbenzene	4.106	4.490	-9.4	93	0.00
79	T	2-Chlorotoluene	2.683	2.801	-4.4	93	0.00
80	T	1,3,5-Trimethylbenzene	2.904	3.260	-12.3	93	0.00
81	T	trans-1,4-Dichloro-2-butene	0.421	0.418	0.7	91	0.00
82	T	4-Chlorotoluene	2.823	2.812	0.4	91	0.00
83	T	tert-Butylbenzene	2.403	2.683	-11.7	93	0.00
84	T	1,2,4-Trimethylbenzene	2.997	3.313	-10.5	92	0.00
85	T	sec-Butylbenzene	3.395	3.740	-10.2	92	0.00
86	T	p-Isopropyltoluene	2.784	3.176	-14.1	91	0.00
87	T	1,3-Dichlorobenzene	1.838	1.718	6.5	90	0.00
88	T	1,4-Dichlorobenzene	1.937	1.710	11.7	89	0.00
89	T	n-Butylbenzene	2.605	2.623	-0.7	88	0.00
90	T	Hexachloroethane	0.621	0.608	2.1	90	0.00
91	T	1,2-Dichlorobenzene	1.766	1.770	-0.2	96	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.237	0.232	2.1	93	0.00
93	T	1,2,4-Trichlorobenzene	0.967	0.831	14.1	84	0.00
94	T	Hexachlorobutadiene	0.425	0.394	7.3	93	0.00
95	T	Naphthalene	2.894	2.702	6.6	85	0.00

Sample Results: **VN084911.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084911.D
Acq On : 18 Nov 2024 09:51
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 19 00:22:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 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)
96 T	1,2,3-Trichlorobenzene	0.939	0.844	10.1	88	0.00

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

Sample Results: **VN084911.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084911.D
Acq On : 18 Nov 2024 09:51
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 19 00:22:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 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	Pentafluorobenzene	50.000	50.000	0.0	90	0.00
2	T	Dichlorodifluoromethane	50.000	48.560	2.9	91	0.00
3	P	Chloromethane	50.000	46.601	6.8	85	0.00
4	C	Vinyl Chloride	50.000	49.608	0.8#	92	0.00
5	T	Bromomethane	50.000	50.768	-1.5	102	-0.05
6	T	Chloroethane	50.000	54.008	-8.0	99	-0.05
7	T	Trichlorofluoromethane	50.000	51.352	-2.7	99	-0.03
8	T	Diethyl Ether	50.000	52.008	-4.0	96	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	52.906	-5.8	99	-0.01
10	T	Methyl Iodide	50.000	52.270	-4.5	99	-0.02
11	T	Tert butyl alcohol	250.000	247.112	1.2	99	0.02
12	CM	1,1-Dichloroethene	50.000	48.851	2.3#	93	-0.02
13	T	Acrolein	250.000	242.002	3.2	94	0.00
14	T	Allyl chloride	50.000	50.158	-0.3	91	-0.01
15	T	Acrylonitrile	250.000	273.694	-9.5	101	0.00
16	T	Acetone	250.000	309.363	-23.7	114	0.00
17	T	Carbon Disulfide	50.000	43.482	13.0	86	-0.02
18	T	Methyl Acetate	50.000	51.908	-3.8	95	0.00
19	T	Methyl tert-butyl Ether	50.000	54.690	-9.4	98	0.00
20	T	Methylene Chloride	50.000	50.836	-1.7	97	0.00
21	T	trans-1,2-Dichloroethene	50.000	49.667	0.7	93	-0.01
22	T	Diisopropyl ether	50.000	54.309	-8.6	97	0.00
23	T	Vinyl Acetate	250.000	281.078	-12.4	99	0.00
24	P	1,1-Dichloroethane	50.000	52.484	-5.0	98	-0.01
25	T	2-Butanone	250.000	296.690	-18.7	115	0.00
26	T	2,2-Dichloropropane	50.000	56.214	-12.4	104	0.00
27	T	cis-1,2-Dichloroethene	50.000	53.023	-6.0	99	0.00
28	T	Bromochloromethane	50.000	56.322	-12.6	88	0.00
29	T	Tetrahydrofuran	250.000	286.423	-14.6	104	0.00
30	C	Chloroform	50.000	53.344	-6.7#	100	0.00
31	T	Cyclohexane	50.000	48.147	3.7	92	0.00
32	T	1,1,1-Trichloroethane	50.000	53.627	-7.3	100	-0.01
33	S	1,2-Dichloroethane-d4	50.000	50.475	-1.0	91	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	89	0.00
35	S	Dibromofluoromethane	50.000	51.369	-2.7	90	0.00
36	T	1,1-Dichloropropene	50.000	52.132	-4.3	96	0.00
37	T	Ethyl Acetate	50.000	57.424	-14.8	103	0.00
38	T	Carbon Tetrachloride	50.000	54.534	-9.1	99	0.00
39	T	Methylcyclohexane	50.000	54.948	-9.9	92	0.00
40	TM	Benzene	50.000	52.580	-5.2	97	0.00
41	T	Methacrylonitrile	50.000	57.286	-14.6	95	0.00
42	TM	1,2-Dichloroethane	50.000	54.442	-8.9	96	0.00
43	T	Isopropyl Acetate	50.000	53.970	-7.9	100	0.00
44	TM	Trichloroethene	50.000	50.512	-1.0	93	0.00
45	C	1,2-Dichloropropane	50.000	53.933	-7.9#	98	0.00
46	T	Dibromomethane	50.000	54.629	-9.3	99	0.00
47	T	Bromodichloromethane	50.000	54.948	-9.9	99	0.00
48	T	Methyl methacrylate	50.000	57.226	-14.5	98	0.00

Sample Results: **VN084911.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084911.D
Acq On : 18 Nov 2024 09:51
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 19 00:22:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 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	1,4-Dioxane	1000.000	1084.756	-8.5	94	0.00
50	S	Toluene-d8	50.000	50.038	-0.1	85	0.00
51	T	4-Methyl-2-Pentanone	250.000	299.418	-19.8	102	0.00
52	CM	Toluene	50.000	54.885	-9.8#	96	0.00
53	T	t-1,3-Dichloropropene	50.000	51.864	-3.7	93	0.00
54	T	cis-1,3-Dichloropropene	50.000	53.367	-6.7	94	0.00
55	T	1,1,2-Trichloroethane	50.000	54.720	-9.4	98	0.00
56	T	Ethyl methacrylate	50.000	59.164	-18.3	94	0.00
57	T	1,3-Dichloropropane	50.000	54.160	-8.3	97	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	295.379	-18.2	90	0.00
59	T	2-Hexanone	250.000	310.089	-24.0	105	0.00
60	T	Dibromochloromethane	50.000	55.117	-10.2	94	0.00
61	T	1,2-Dibromoethane	50.000	53.148	-6.3	96	0.00
62	S	4-Bromofluorobenzene	50.000	49.520	1.0	83	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	88	0.00
64	T	Tetrachloroethene	50.000	51.572	-3.1	96	0.00
65	PM	Chlorobenzene	50.000	51.022	-2.0	95	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	53.800	-7.6	98	0.00
67	C	Ethyl Benzene	50.000	54.224	-8.4#	94	0.00
68	T	m/p-Xylenes	100.000	110.877	-10.9	95	0.00
69	T	o-Xylene	50.000	56.150	-12.3	95	0.00
70	T	Styrene	50.000	54.839	-9.7	92	0.00
71	P	Bromoform	50.000	53.228	-6.5	93	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	87	0.00
73	T	Isopropylbenzene	50.000	54.949	-9.9	94	0.00
74	T	N-amyl acetate	50.000	54.252	-8.5	93	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	52.394	-4.8	100	0.00
76	T	1,2,3-Trichloropropane	50.000	50.130	-0.3	99	0.00
77	T	Bromobenzene	50.000	50.527	-1.1	94	0.00
78	T	n-propylbenzene	50.000	54.683	-9.4	93	0.00
79	T	2-Chlorotoluene	50.000	52.198	-4.4	93	0.00
80	T	1,3,5-Trimethylbenzene	50.000	56.125	-12.3	93	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	49.616	0.8	91	0.00
82	T	4-Chlorotoluene	50.000	49.791	0.4	91	0.00
83	T	tert-Butylbenzene	50.000	55.819	-11.6	93	0.00
84	T	1,2,4-Trimethylbenzene	50.000	55.272	-10.5	92	0.00
85	T	sec-Butylbenzene	50.000	55.073	-10.1	92	0.00
86	T	p-Isopropyltoluene	50.000	57.027	-14.1	91	0.00
87	T	1,3-Dichlorobenzene	50.000	46.729	6.5	90	0.00
88	T	1,4-Dichlorobenzene	50.000	50.751	-1.5	89	0.00
89	T	n-Butylbenzene	50.000	50.355	-0.7	88	0.00
90	T	Hexachloroethane	50.000	48.966	2.1	90	0.00
91	T	1,2-Dichlorobenzene	50.000	50.093	-0.2	96	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	48.873	2.3	93	0.00
93	T	1,2,4-Trichlorobenzene	50.000	42.950	14.1	84	0.00
94	T	Hexachlorobutadiene	50.000	46.351	7.3	93	0.00
95	T	Naphthalene	50.000	46.675	6.7	85	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084911.D
Acq On : 18 Nov 2024 09:51
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 19 00:22:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 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)
96 T	1,2,3-Trichlorobenzene	50.000	44.956	10.1	88	0.00

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

QC SAMPLE DATA

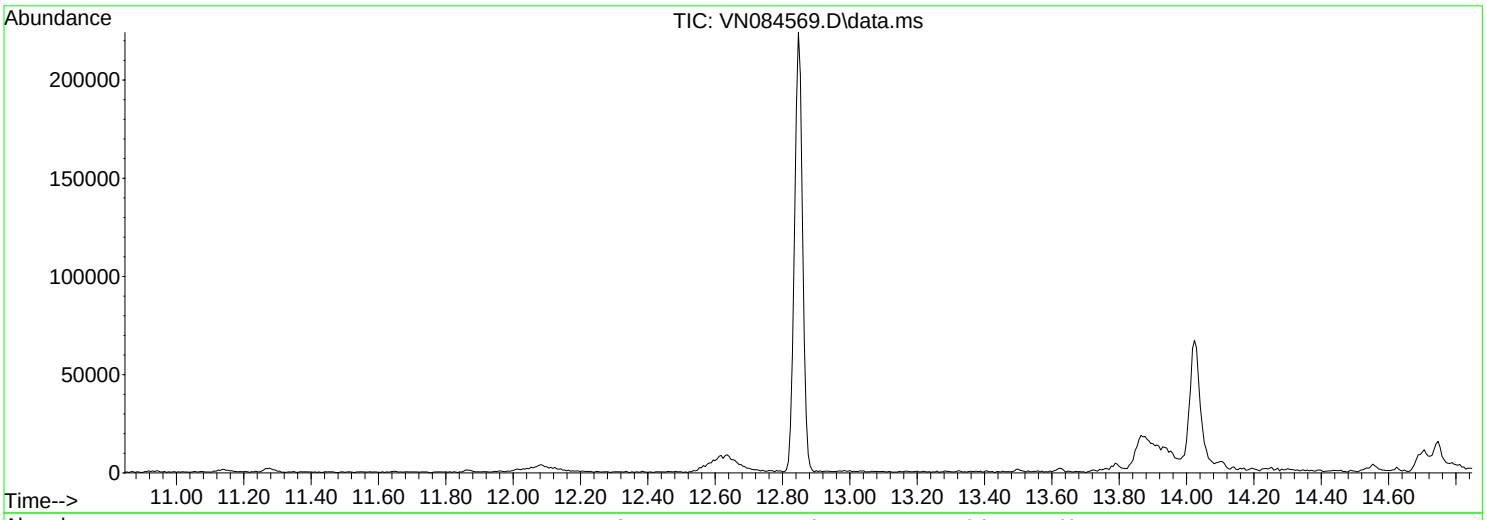
Sample Results: **VN084569.D**

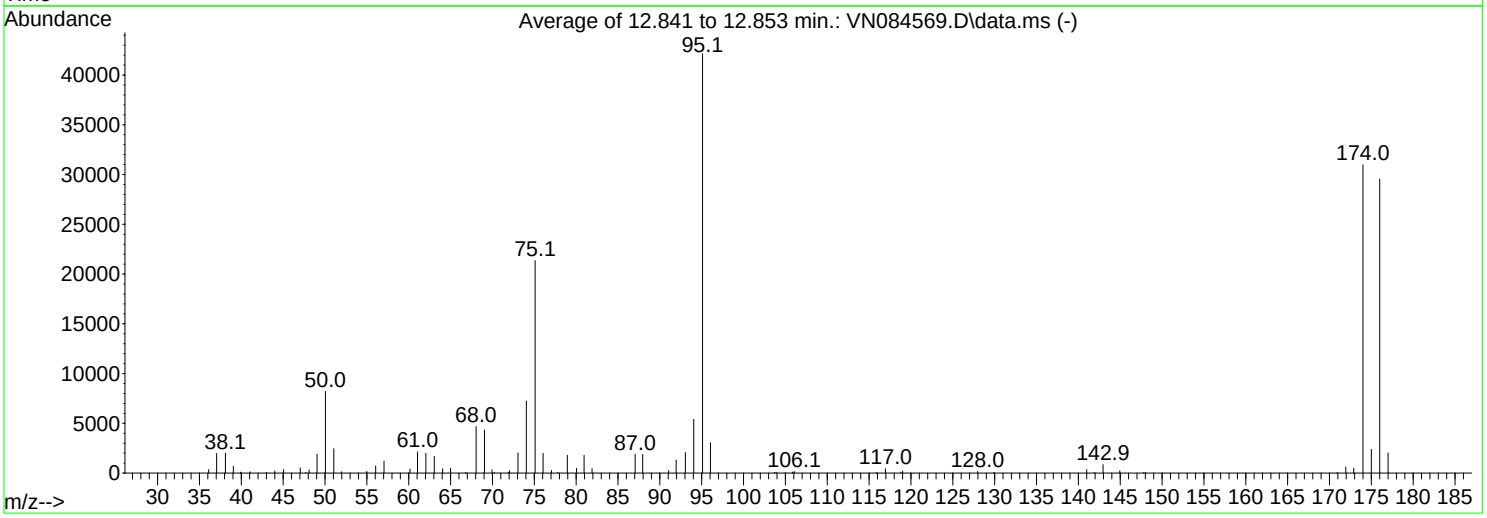
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084569.D
Acq On : 30 Oct 2024 10:42
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Title : SW846 8260
Last Update : Thu Oct 31 18:45:38 2024





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

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.5	8210	PASS
75	95	30	60	50.7	21357	PASS
95	95	100	100	100.0	42141	PASS
96	95	5	9	7.2	3053	PASS
173	174	0.00	2	1.6	502	PASS
174	95	50	100	73.5	30984	PASS
175	174	5	9	7.7	2392	PASS
176	174	95	101	95.4	29560	PASS
177	176	5	9	6.9	2026	PASS

Average of 12.841 to 12.853 min.: VN084569.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	359	48.10	321	63.05	1677	74.05	7235
37.05	1972	49.05	1905	64.05	441	75.10	21357
38.10	2004	50.05	8210	65.00	496	76.05	1981
39.05	674	51.05	2454	66.80	70	77.05	266
39.90	98	51.95	137	68.05	4674	77.80	63
41.05	129	55.00	174	69.05	4327	78.95	1789
43.00	58	56.05	724	69.95	329	80.05	481
44.00	211	57.05	1205	70.20	94	80.95	1784
45.05	351	60.15	415	71.90	82	81.90	450
47.05	515	61.05	2127	72.05	237	87.05	1893
47.70	66	62.05	1973	73.05	2035	87.95	1870

Instrument :
MSVOA_N
ClientSampleId :
BFB

Average of 12.841 to 12.853 min.: VN084569.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
91.05	256	115.90	54	148.00	75		
91.95	1316	116.95	438	170.90	52		
93.05	2070	118.80	90	171.95	607		
94.05	5401	119.00	202	172.90	502		
95.10	42141	127.95	162	174.00	30984		
96.05	3053	129.90	69	175.00	2392		
103.70	65	141.00	358	176.00	29560		
103.90	65	141.90	66	177.00	2026		
105.00	53	142.95	857				
105.85	107	144.95	228				
106.05	162	147.80	53				

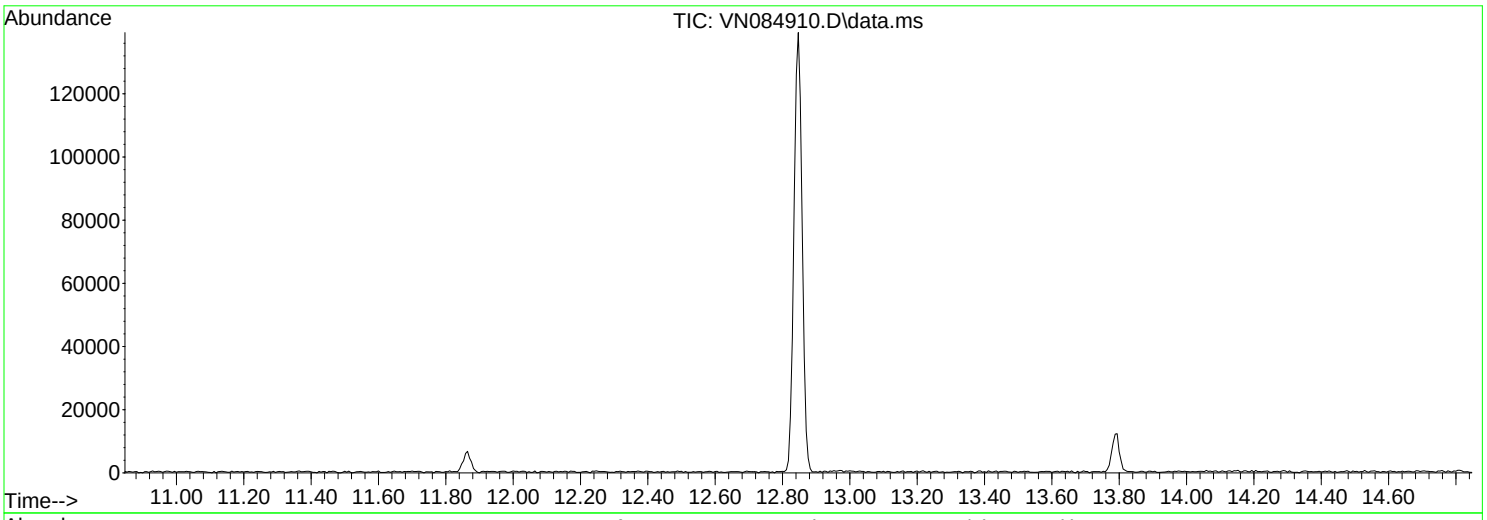
Sample Results: **VN084910.D**

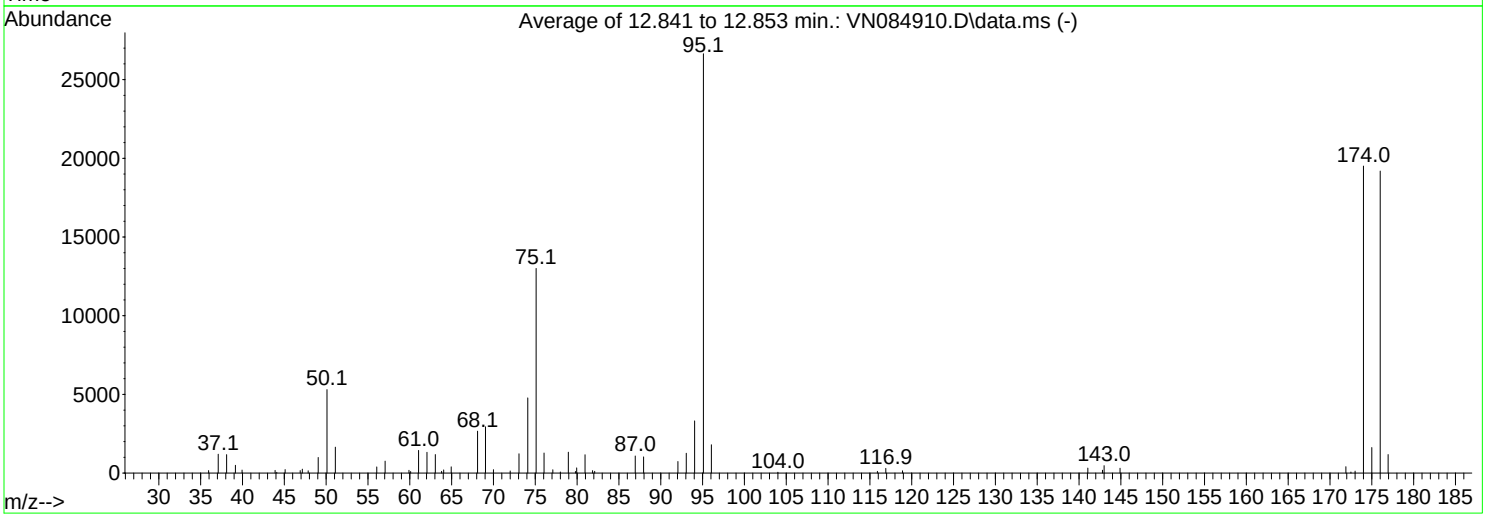
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084910.D
Acq On : 18 Nov 2024 08:47
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Title : SW846 8260
Last Update : Thu Oct 31 18:45:38 2024





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

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.9	5305	PASS
75	95	30	60	48.8	13002	PASS
95	95	100	100	100.0	26645	PASS
96	95	5	9	6.8	1800	PASS
173	174	0.00	2	0.6	124	PASS
174	95	50	100	73.2	19507	PASS
175	174	5	9	8.3	1624	PASS
176	174	95	101	98.4	19189	PASS
177	176	5	9	6.1	1178	PASS

Average of 12.841 to 12.853 min.: VN084910.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	158	49.05	991	64.05	202	78.00	69
37.10	1200	50.10	5305	64.95	396	78.95	1328
38.10	1172	51.10	1647	68.10	2662	79.80	101
39.15	495	56.05	392	69.05	2940	79.95	329
39.95	191	57.05	760	70.00	216	80.95	1166
43.90	171	59.90	177	72.00	134	81.85	156
44.10	50	60.10	97	73.05	1225	82.10	113
45.10	223	61.05	1439	74.10	4775	86.95	1087
46.90	160	62.05	1320	75.10	13002	87.95	1029
47.15	251	63.05	1176	76.05	1275	92.05	735
47.85	145	63.80	111	77.10	212	93.05	1259

Instrument :
MSVOA_N
ClientSampleId :
BFB

Average of 12.841 to 12.853 min.: VN084910.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.05	3316	171.90	407				
95.10	26645	172.50	68				
96.05	1800	173.00	124				
104.00	54	174.00	19507				
115.90	111	175.00	1624				
116.90	299	176.00	19189				
118.90	145	176.95	1178				
141.05	316						
142.80	184						
143.00	474						
144.90	309						

Raw Data: **VN084913.D**

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

Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	
Client Sample ID:	VN1118WBL01	SDG No.:	P4861
Lab Sample ID:	VN1118WBL01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084913.D	1		11/18/24 12:27	VN111824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.4		74 - 125	105%	SPK: 50
1868-53-7	Dibromofluoromethane	49.6		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	45.7		86 - 113	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.2		77 - 121	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	176000	8.218			
540-36-3	1,4-Difluorobenzene	313000	9.1			
3114-55-4	Chlorobenzene-d5	269000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	114000	13.788			

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\VN111824\
Data File : VN084913.D
Acq On : 18 Nov 2024 12:27
Operator : JC\MD
Sample : VN1118WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1118WBL01

Quant Time: Nov 19 00:23:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

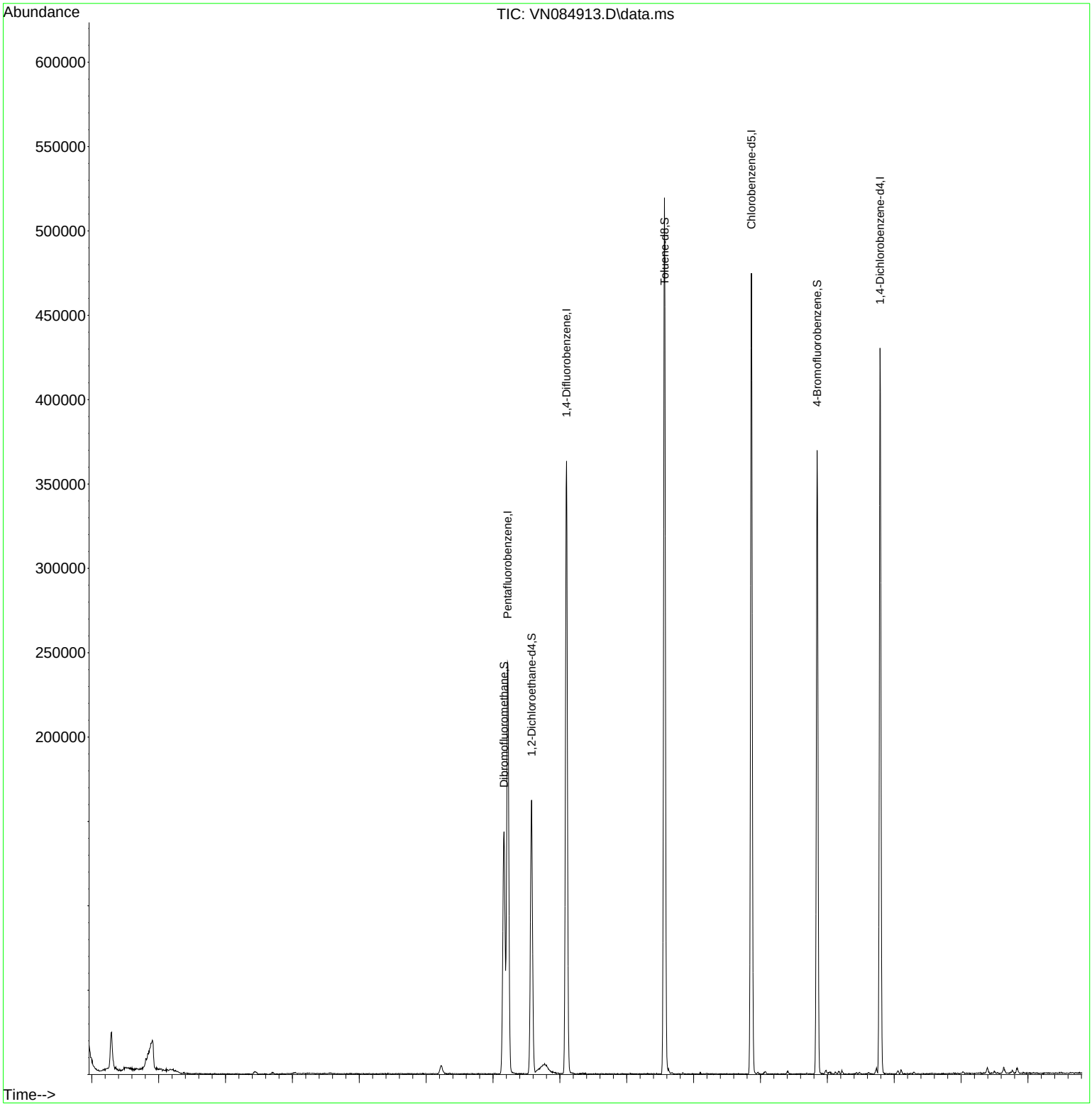
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	175680	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	312901	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	269131	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	114405	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	132908	52.379	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.760%			
35) Dibromofluoromethane	8.165	113	104958	49.556	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.120%			
50) Toluene-d8	10.565	98	356712	45.721	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 91.440%			
62) 4-Bromofluorobenzene	12.847	95	131717	45.173	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 90.340%			
Target Compounds						Qvalue

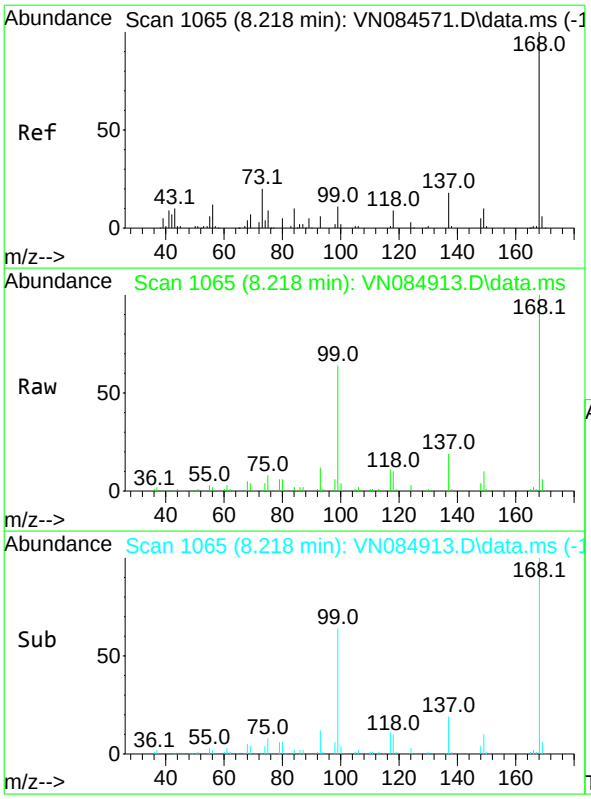
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084913.D
Acq On : 18 Nov 2024 12:27
Operator : JC\MD
Sample : VN1118WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1118WBL01

Quant Time: Nov 19 00:23:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



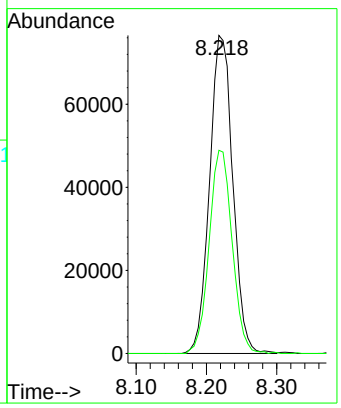


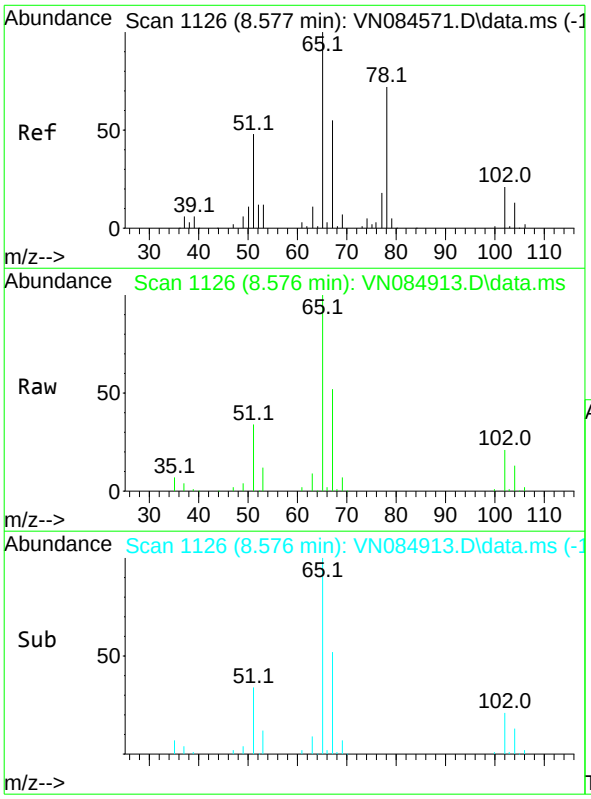
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN084913.D
Acq: 18 Nov 2024 12:27

Instrument :
MSVOA_N
ClientSampleId :
VN1118WBL01

Tgt Ion:168 Resp: 175680

Ion	Ratio	Lower	Upper
168	100		
99	63.9	54.2	81.2

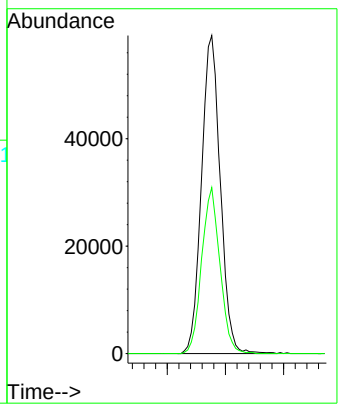


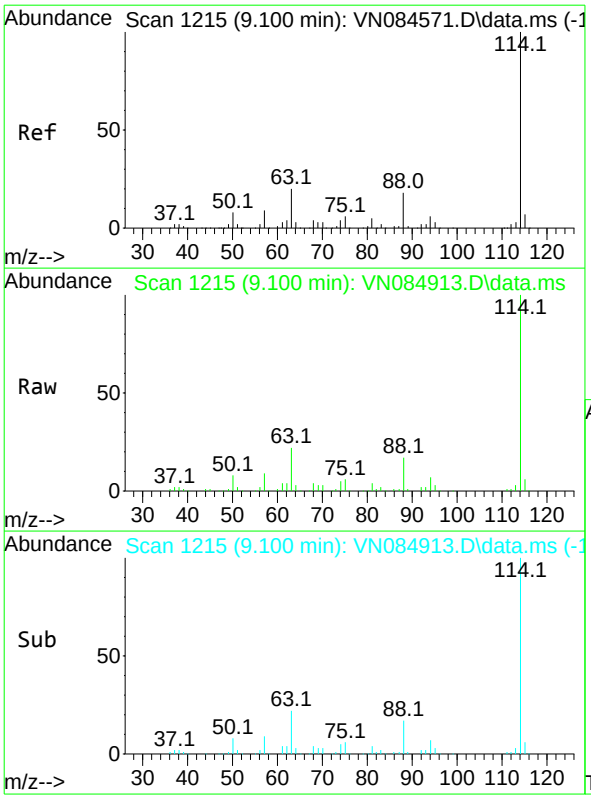


#33
1,2-Dichloroethane-d4
Concen: 52.379 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. -0.001 min
Lab File: VN084913.D
Acq: 18 Nov 2024 12:27

Tgt Ion: 65 Resp: 132908

Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	102.0



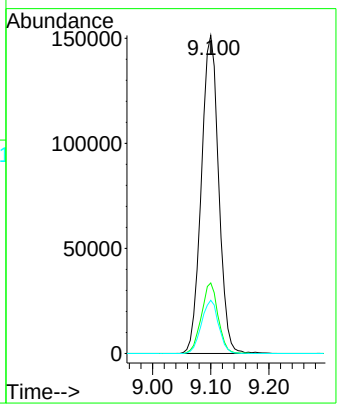


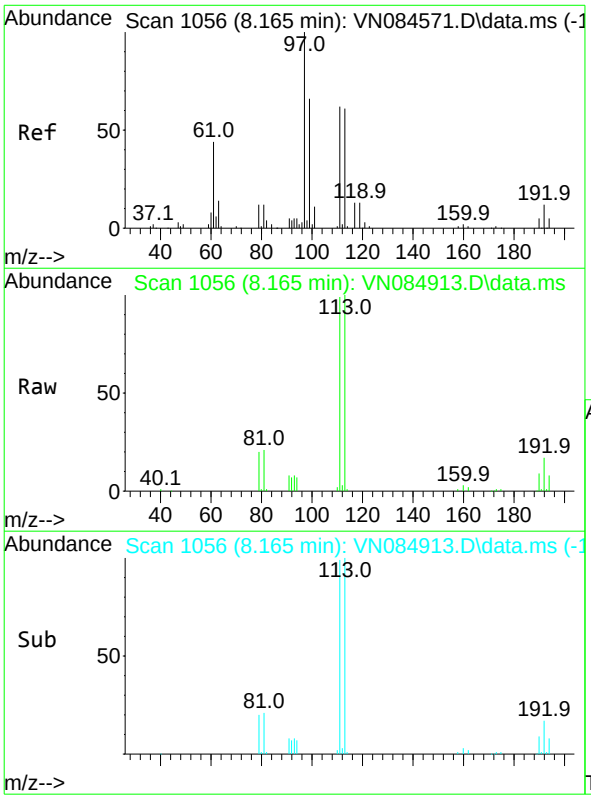
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. 0.000 min
Lab File: VN084913.D
Acq: 18 Nov 2024 12:27

Instrument :
MSVOA_N
ClientSampleId :
VN1118WBL01

Tgt Ion:114 Resp: 312901

Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	43.8
88	16.7	0.0	31.6

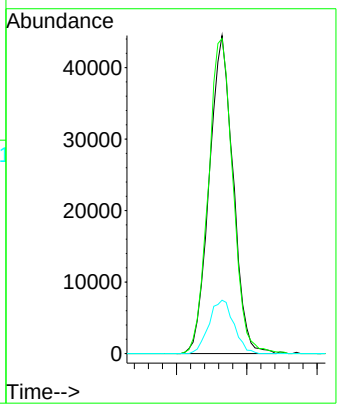


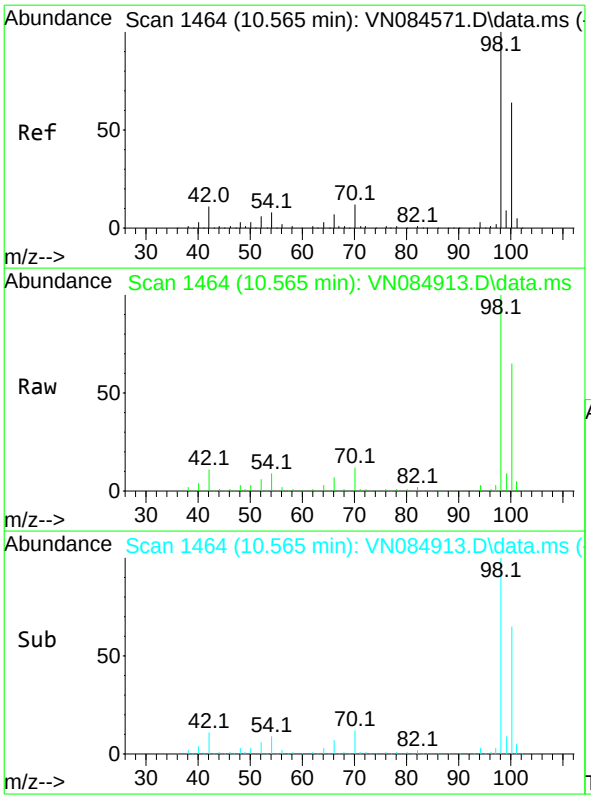


#35
Dibromofluoromethane
Concen: 49.556 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN084913.D
Acq: 18 Nov 2024 12:27

Tgt Ion:113 Resp: 104958

Ion	Ratio	Lower	Upper
113	100		
111	102.1	83.3	124.9
192	17.5	13.5	20.3



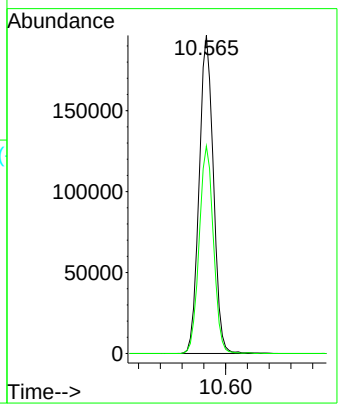


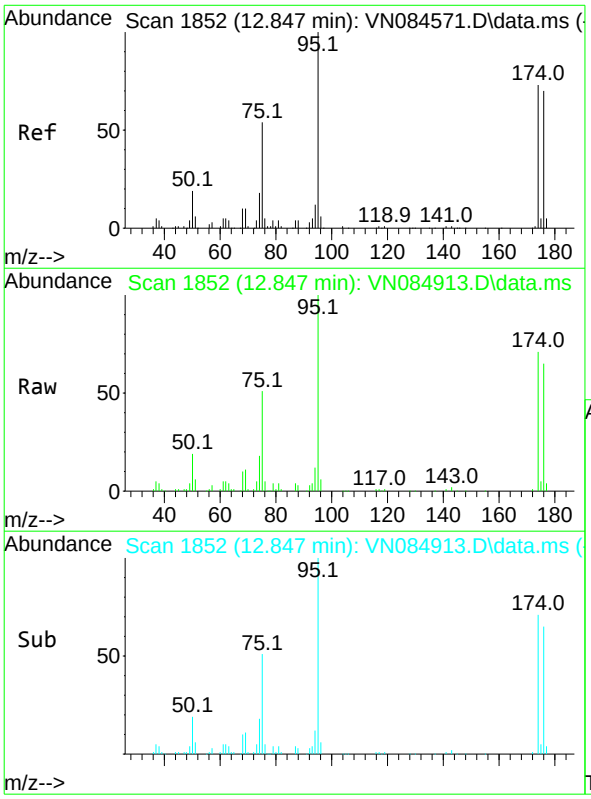
#50
Toluene-d8
Concen: 45.721 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN084913.D
Acq: 18 Nov 2024 12:27

Instrument :
MSVOA_N
ClientSampleId :
VN1118WBL01

Tgt Ion: 98 Resp: 356712

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.7	79.1

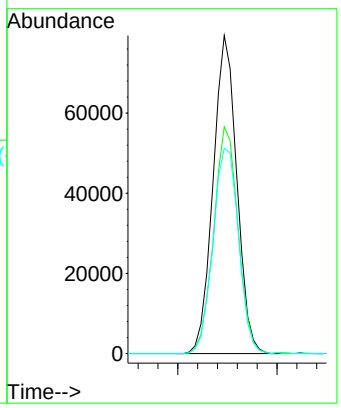


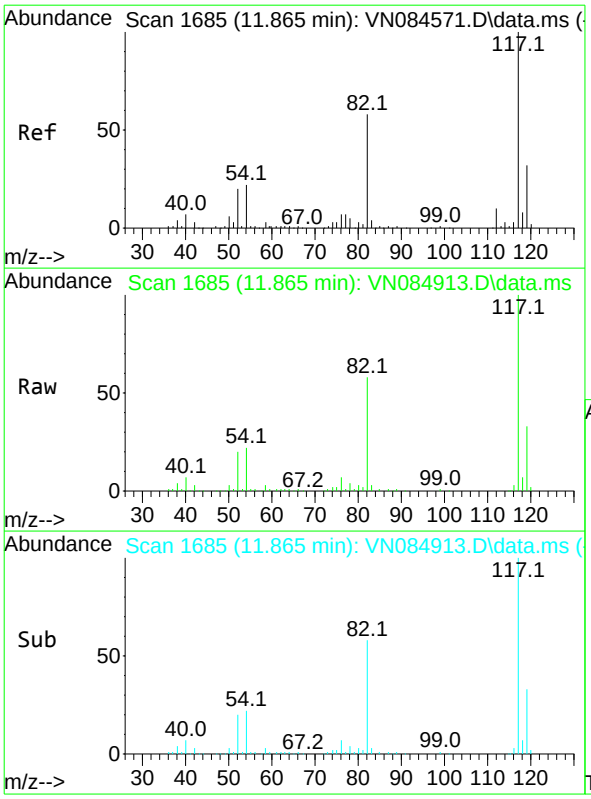


#62
4-Bromofluorobenzene
Concen: 45.173 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084913.D
Acq: 18 Nov 2024 12:27

Tgt Ion: 95 Resp: 131717

Ion	Ratio	Lower	Upper
95	100		
174	73.2	0.0	145.2
176	69.8	0.0	140.0



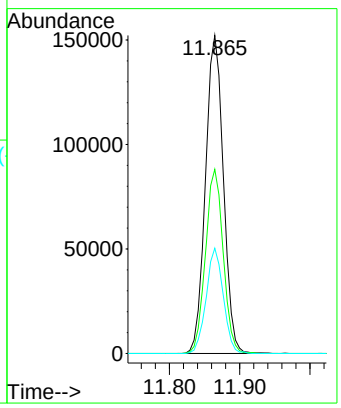


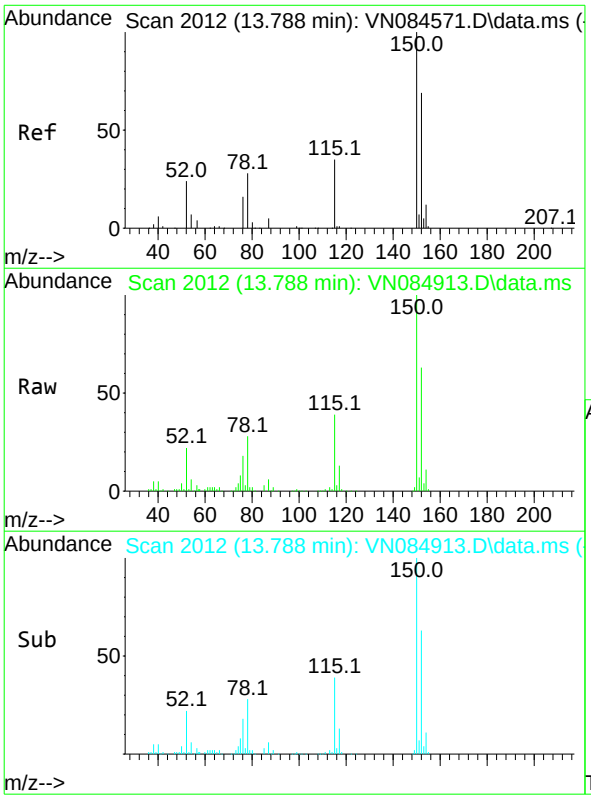
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN084913.D
Acq: 18 Nov 2024 12:27

Instrument :
MSVOA_N
ClientSampleId :
VN1118WBL01

Tgt Ion:117 Resp: 269131

Ion	Ratio	Lower	Upper
117	100		
82	57.9	47.2	70.8
119	33.1	25.4	38.0

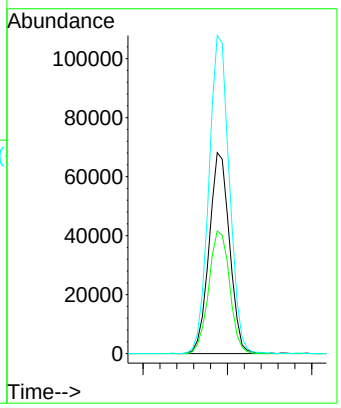




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN084913.D
Acq: 18 Nov 2024 12:27

Tgt Ion:152 Resp: 114405

Ion	Ratio	Lower	Upper
152	100		
115	62.5	31.3	93.9
150	159.0	0.0	349.8



Raw Data: **VN084919.D**

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

Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	
Client Sample ID:	VN1118WBS01	SDG No.:	P4861
Lab Sample ID:	VN1118WBS01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084919.D	1		11/18/24 14:52	VN111824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	20.6		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	20.9		0.26	1.00	ug/L
78-93-3	2-Butanone	120		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	21.6		0.25	1.00	ug/L
67-66-3	Chloroform	22.0		0.26	1.00	ug/L
71-43-2	Benzene	21.2		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.9		0.24	1.00	ug/L
79-01-6	Trichloroethene	20.3		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	20.4		0.25	1.00	ug/L
108-90-7	Chlorobenzene	21.5		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.1		74 - 125	102%	SPK: 50
1868-53-7	Dibromofluoromethane	51.7		75 - 124	103%	SPK: 50
2037-26-5	Toluene-d8	51.1		86 - 113	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.6		77 - 121	113%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	184000	8.224			
540-36-3	1,4-Difluorobenzene	316000	9.094			
3114-55-4	Chlorobenzene-d5	287000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	143000	13.788			

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: **VN084919.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084919.D
Acq On : 18 Nov 2024 14:52
Operator : JC\MD
Sample : VN1118WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 19 00:26:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1118WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	184217	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	316400	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	286519	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	143055	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	135870	51.065	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.140%			
35) Dibromofluoromethane	8.165	113	110681	51.680	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.360%			
50) Toluene-d8	10.565	98	402974	51.080	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.160%			
62) 4-Bromofluorobenzene	12.847	95	166876	56.598	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 113.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	42121	19.890	ug/l	90
3) Chloromethane	2.359	50	47444	17.452	ug/l	98
4) Vinyl Chloride	2.512	62	46824	20.557	ug/l	97
5) Bromomethane	2.901	94	24102	19.972	ug/l	94
6) Chloroethane	3.077	64	31558	21.590	ug/l	100
7) Trichlorofluoromethane	3.471	101	80182	21.370	ug/l	94
8) Diethyl Ether	3.953	74	29207	22.067	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.359	101	45621	21.518	ug/l	98
10) Methyl Iodide	4.583	142	63057	22.254	ug/l	96
11) Tert butyl alcohol	5.542	59	36832	104.873	ug/l #	92
12) 1,1-Dichloroethene	4.324	96	43818	20.887	ug/l	96
13) Acrolein	4.177	56	29221	83.438	ug/l	98
14) Allyl chloride	5.018	41	74004	21.752	ug/l	93
15) Acrylonitrile	5.718	53	111576	109.740	ug/l	99
16) Acetone	4.430	43	90638	116.405	ug/l	98
17) Carbon Disulfide	4.700	76	115971	17.951	ug/l	97
18) Methyl Acetate	5.012	43	58892	18.458	ug/l	98
19) Methyl tert-butyl Ether	5.794	73	148772	23.137	ug/l	99
20) Methylene Chloride	5.271	84	50141	21.426	ug/l	94
21) trans-1,2-Dichloroethene	5.783	96	44573	20.692	ug/l	94
22) Diisopropyl ether	6.671	45	155190	22.957	ug/l	97
23) Vinyl Acetate	6.600	43	538631	115.539	ug/l	98
24) 1,1-Dichloroethane	6.565	63	87796	21.632	ug/l	99
25) 2-Butanone	7.483	43	145054	116.856	ug/l	99
26) 2,2-Dichloropropane	7.488	77	81900	23.185	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	55571	22.093	ug/l	99
28) Bromochloromethane	7.806	49	41663	25.765	ug/l	94
29) Tetrahydrofuran	7.835	42	93553	113.604	ug/l	97
30) Chloroform	7.965	83	90863	21.996	ug/l	97
31) Cyclohexane	8.253	56	77465	21.088	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	85105	22.635	ug/l	96
36) 1,1-Dichloropropene	8.371	75	62015	20.879	ug/l	99
37) Ethyl Acetate	7.559	43	61783	22.926	ug/l	99
38) Carbon Tetrachloride	8.353	117	71604	21.568	ug/l	95
39) Methylcyclohexane	9.600	83	68762	22.756	ug/l	97
40) Benzene	8.606	78	202210	21.199	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084919.D
Acq On : 18 Nov 2024 14:52
Operator : JC\MD
Sample : VN1118WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 19 00:26:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1118WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.783	41	35079	24.206 ug/l		99
42) 1,2-Dichloroethane	8.665	62	67653	21.900 ug/l		99
43) Isopropyl Acetate	8.688	43	106413	20.811 ug/l		98
44) Trichloroethene	9.347	130	44723	20.330 ug/l		95
45) 1,2-Dichloropropane	9.618	63	49559	22.148 ug/l		95
46) Dibromomethane	9.706	93	34999	22.166 ug/l		98
47) Bromodichloromethane	9.888	83	72576	21.806 ug/l	#	99
48) Methyl methacrylate	9.677	41	49516	23.609 ug/l		96
49) 1,4-Dioxane	9.700	88	17599	473.526 ug/l	#	80
51) 4-Methyl-2-Pentanone	10.441	43	310382	120.819 ug/l		99
52) Toluene	10.629	92	127267	22.813 ug/l		99
53) t-1,3-Dichloropropene	10.835	75	72850	21.146 ug/l		97
54) cis-1,3-Dichloropropene	10.312	75	79743	21.870 ug/l		99
55) 1,1,2-Trichloroethane	11.012	97	48782	23.214 ug/l		98
56) Ethyl methacrylate	10.871	69	77810	25.599 ug/l		96
57) 1,3-Dichloropropane	11.165	76	83513	23.156 ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	147900	103.983 ug/l		98
59) 2-Hexanone	11.194	43	237409	126.962 ug/l		100
60) Dibromochloromethane	11.359	129	53979	22.538 ug/l		99
61) 1,2-Dibromoethane	11.471	107	47442	22.046 ug/l		99
64) Tetrachloroethene	11.100	164	38917	20.420 ug/l		99
65) Chlorobenzene	11.888	112	137913	21.515 ug/l		95
66) 1,1,1,2-Tetrachloroethane	11.959	131	50033	22.441 ug/l		96
67) Ethyl Benzene	11.959	91	243830	22.789 ug/l		99
68) m/p-Xylenes	12.070	106	182998	45.177 ug/l		100
69) o-Xylene	12.394	106	93162	24.585 ug/l		97
70) Styrene	12.412	104	152817	23.118 ug/l		99
71) Bromoform	12.576	173	36555	21.789 ug/l	#	98
73) Isopropylbenzene	12.694	105	231596	23.102 ug/l		99
74) N-amyl acetate	12.494	43	97530	22.858 ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.935	83	68716	20.536 ug/l		98
76) 1,2,3-Trichloropropane	12.994	75	58978m	20.625 ug/l		
77) Bromobenzene	12.976	156	55291	20.516 ug/l		96
78) n-propylbenzene	13.035	91	267365	22.759 ug/l		97
79) 2-Chlorotoluene	13.123	91	172382	22.457 ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	197081	23.719 ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	25030	20.766 ug/l		98
82) 4-Chlorotoluene	13.217	91	168657	20.878 ug/l		98
83) tert-Butylbenzene	13.435	119	174830	25.424 ug/l		98
84) 1,2,4-Trimethylbenzene	13.482	105	201379	23.483 ug/l		98
85) sec-Butylbenzene	13.612	105	233308	24.019 ug/l		99
86) p-Isopropyltoluene	13.729	119	199253	25.012 ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	101999	19.393 ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	100169	20.077 ug/l		100
89) n-Butylbenzene	14.053	91	171934	23.073 ug/l		99
90) Hexachloroethane	14.335	117	35291	19.865 ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	101580	20.099 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	13208	19.484 ug/l		89
93) 1,2,4-Trichlorobenzene	15.388	180	52915	19.128 ug/l		97
94) Hexachlorobutadiene	15.500	225	24159	19.887 ug/l		99
95) Naphthalene	15.635	128	181901	21.968 ug/l	#	97
96) 1,2,3-Trichlorobenzene	15.841	180	52253	19.459 ug/l		97

Sample Results: **VN084919.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084919.D
Acq On : 18 Nov 2024 14:52
Operator : JC\MD
Sample : VN1118WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 19 00:26:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1118WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

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

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

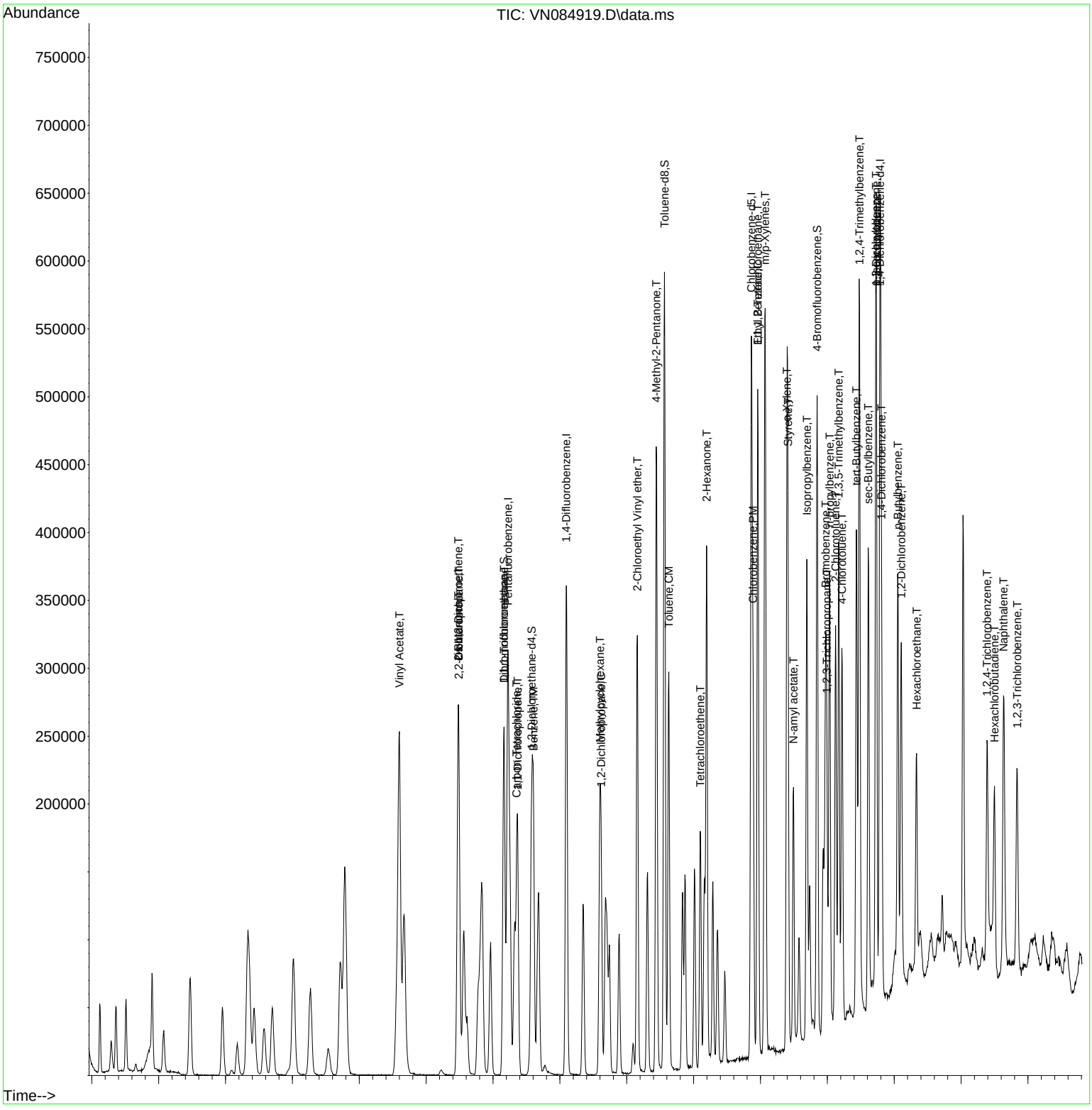
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084919.D
Acq On : 18 Nov 2024 14:52
Operator : JC\MD
Sample : VN1118WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 19 00:26:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1118WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024



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

Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	
Client Sample ID:	VN1118WBSD01	SDG No.:	P4861
Lab Sample ID:	VN1118WBSD01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084923.D	1		11/18/24 16:28	VN111824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	18.2		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.1		0.26	1.00	ug/L
78-93-3	2-Butanone	100		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.5		0.25	1.00	ug/L
67-66-3	Chloroform	19.0		0.26	1.00	ug/L
71-43-2	Benzene	17.9		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.6		0.24	1.00	ug/L
79-01-6	Trichloroethene	17.5		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	17.1		0.25	1.00	ug/L
108-90-7	Chlorobenzene	17.7		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.7		74 - 125	95%	SPK: 50
1868-53-7	Dibromofluoromethane	47.3		75 - 124	95%	SPK: 50
2037-26-5	Toluene-d8	46.1		86 - 113	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.8		77 - 121	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	187000	8.218			
540-36-3	1,4-Difluorobenzene	326000	9.1			
3114-55-4	Chlorobenzene-d5	290000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	145000	13.788			

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: **VN084923.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084923.D
Acq On : 18 Nov 2024 16:28
Operator : JC\MD
Sample : VN1118WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 19 00:29:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1118WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	187181	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	326112	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	290218	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	145074	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	129063	47.739	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 95.480%			
35) Dibromofluoromethane	8.165	113	104415	47.303	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.600%			
50) Toluene-d8	10.565	98	374741	46.086	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 92.180%			
62) 4-Bromofluorobenzene	12.847	95	151304	49.789	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.580%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	37472	17.414	ug/l	94
3) Chloromethane	2.359	50	42149	14.925	ug/l	99
4) Vinyl Chloride	2.512	62	42163	18.218	ug/l	98
5) Bromomethane	2.901	94	20936	17.073	ug/l	97
6) Chloroethane	3.065	64	26707	17.742	ug/l	97
7) Trichlorofluoromethane	3.471	101	70321	18.445	ug/l	99
8) Diethyl Ether	3.954	74	26468	19.681	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.353	101	40137	18.632	ug/l	98
10) Methyl Iodide	4.577	142	54625	18.973	ug/l	99
11) Tert butyl alcohol	5.536	59	32341	90.627	ug/l	99
12) 1,1-Dichloroethene	4.330	96	38539	18.080	ug/l	97
13) Acrolein	4.177	56	30647	86.124	ug/l	99
14) Allyl chloride	5.018	41	64715	18.720	ug/l	94
15) Acrylonitrile	5.718	53	95898	92.827	ug/l	99
16) Acetone	4.424	43	81440	102.602	ug/l	97
17) Carbon Disulfide	4.701	76	99630	15.177	ug/l	98
18) Methyl Acetate	5.024	43	53052	15.872	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	130619	19.992	ug/l	99
20) Methylene Chloride	5.271	84	43518	18.302	ug/l	85
21) trans-1,2-Dichloroethene	5.777	96	38290	17.494	ug/l	89
22) Diisopropyl ether	6.665	45	135287	19.695	ug/l	97
23) Vinyl Acetate	6.600	43	477387	100.780	ug/l	100
24) 1,1-Dichloroethane	6.559	63	78396	19.010	ug/l	98
25) 2-Butanone	7.483	43	126423	100.234	ug/l	100
26) 2,2-Dichloropropane	7.483	77	70505	19.643	ug/l	98
27) cis-1,2-Dichloroethene	7.483	96	48067	18.807	ug/l	98
28) Bromochloromethane	7.812	49	33469	20.370	ug/l	98
29) Tetrahydrofuran	7.841	42	79703	95.253	ug/l	98
30) Chloroform	7.965	83	79646	18.975	ug/l	97
31) Cyclohexane	8.253	56	69104	18.514	ug/l	92
32) 1,1,1-Trichloroethane	8.165	97	74270	19.440	ug/l	92
36) 1,1-Dichloropropene	8.365	75	52608	17.184	ug/l	96
37) Ethyl Acetate	7.559	43	52353	18.849	ug/l	97
38) Carbon Tetrachloride	8.359	117	63324	18.506	ug/l	95
39) Methylcyclohexane	9.600	83	58539	18.796	ug/l	98
40) Benzene	8.606	78	175539	17.855	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084923.D
Acq On : 18 Nov 2024 16:28
Operator : JC\MD
Sample : VN1118WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 19 00:29:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1118WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.777	41	29404	19.686 ug/l	98
42) 1,2-Dichloroethane	8.671	62	59188	18.589 ug/l	97
43) Isopropyl Acetate	8.688	43	129839	24.817 ug/l #	90
44) Trichloroethene	9.347	130	39583	17.458 ug/l	100
45) 1,2-Dichloropropane	9.624	63	43179	18.722 ug/l	98
46) Dibromomethane	9.706	93	30267	18.599 ug/l	98
47) Bromodichloromethane	9.883	83	62023	18.080 ug/l #	97
48) Methyl methacrylate	9.683	41	42237	19.539 ug/l	97
49) 1,4-Dioxane	9.694	88	14768	385.520 ug/l	98
51) 4-Methyl-2-Pentanone	10.447	43	265390	100.229 ug/l	100
52) Toluene	10.630	92	108899	18.939 ug/l	100
53) t-1,3-Dichloropropene	10.835	75	63548	17.896 ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	69720	18.551 ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	40920	18.893 ug/l	93
56) Ethyl methacrylate	10.871	69	64476	20.580 ug/l	98
57) 1,3-Dichloropropane	11.159	76	69437	18.680 ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	124292	84.783 ug/l	96
59) 2-Hexanone	11.194	43	196552	101.982 ug/l	99
60) Dibromochloromethane	11.359	129	46369	18.784 ug/l	98
61) 1,2-Dibromoethane	11.465	107	40487	18.254 ug/l	98
64) Tetrachloroethene	11.100	164	32973	17.081 ug/l	96
65) Chlorobenzene	11.888	112	114669	17.661 ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	41227	18.255 ug/l	99
67) Ethyl Benzene	11.965	91	202751	18.708 ug/l	98
68) m/p-Xylenes	12.071	106	152162	37.085 ug/l	99
69) o-Xylene	12.394	106	76195	19.851 ug/l	100
70) Styrene	12.406	104	125793	18.787 ug/l	99
71) Bromoform	12.576	173	29749	17.506 ug/l #	96
73) Isopropylbenzene	12.694	105	195137	19.194 ug/l	99
74) N-amyl acetate	12.494	43	83814	19.370 ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	59576	17.556 ug/l	98
76) 1,2,3-Trichloropropane	12.994	75	49491m	17.066 ug/l	
77) Bromobenzene	12.976	156	46633	17.063 ug/l	95
78) n-propylbenzene	13.035	91	217956	18.295 ug/l	99
79) 2-Chlorotoluene	13.124	91	143719	18.463 ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	162239	19.254 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	19238	15.738 ug/l	93
82) 4-Chlorotoluene	13.218	91	140794	17.186 ug/l	98
83) tert-Butylbenzene	13.435	119	137903	19.775 ug/l	96
84) 1,2,4-Trimethylbenzene	13.482	105	167231	19.230 ug/l	97
85) sec-Butylbenzene	13.612	105	189337	19.221 ug/l	100
86) p-Isopropyltoluene	13.729	119	159203	19.706 ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	83465	15.648 ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	84967	16.636 ug/l	100
89) n-Butylbenzene	14.053	91	130915	17.324 ug/l	99
90) Hexachloroethane	14.329	117	29539	16.396 ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	85875	16.755 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	10902	15.858 ug/l	89
93) 1,2,4-Trichlorobenzene	15.394	180	41282	14.715 ug/l	99
94) Hexachlorobutadiene	15.494	225	18627	15.120 ug/l	96
95) Naphthalene	15.635	128	148636	17.701 ug/l	98
96) 1,2,3-Trichlorobenzene	15.841	180	40693	14.943 ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084923.D
Acq On : 18 Nov 2024 16:28
Operator : JC\MD
Sample : VN1118WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 19 00:29:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1118WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

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

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

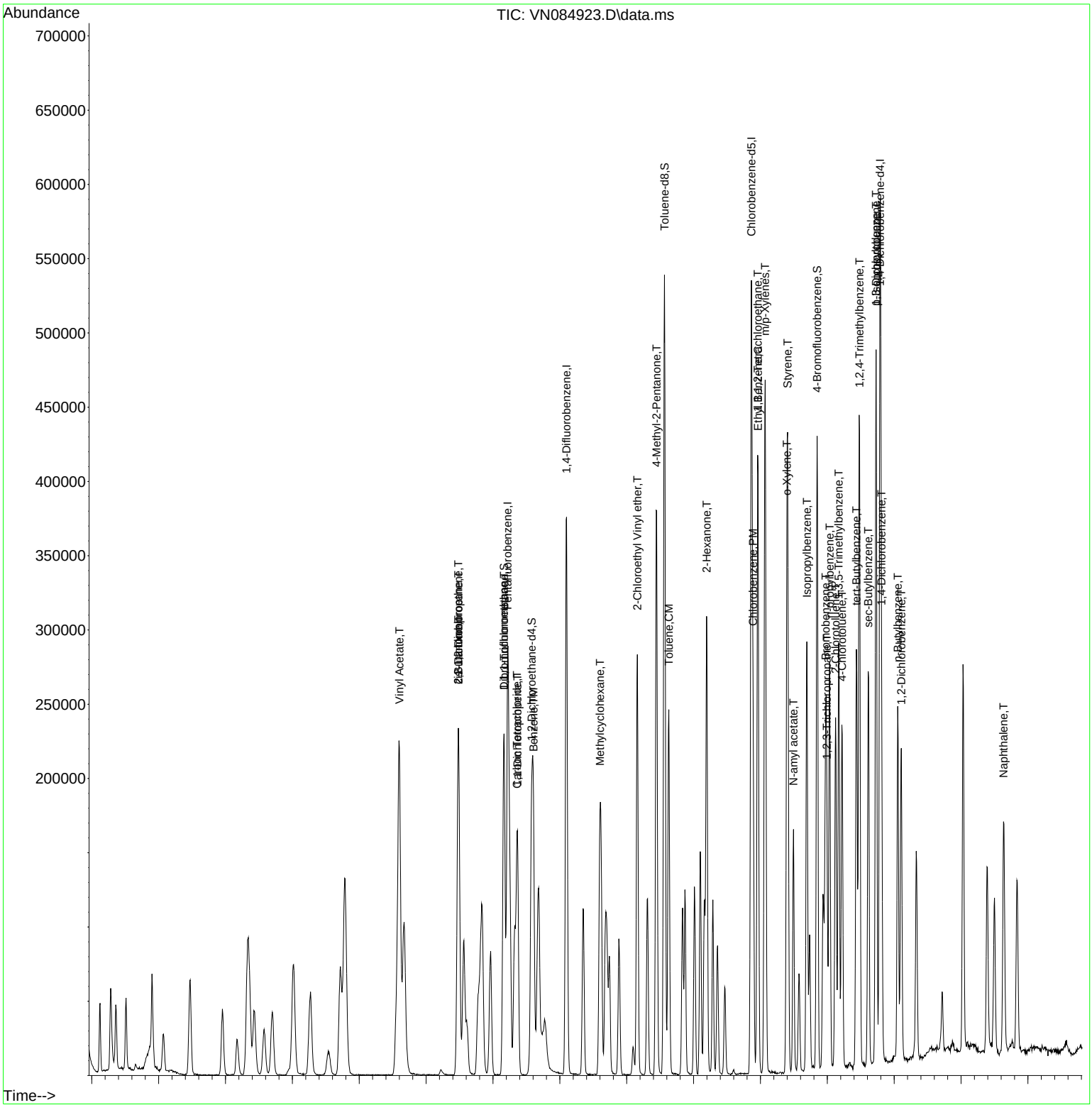
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084923.D
Acq On : 18 Nov 2024 16:28
Operator : JC\MD
Sample : VN1118WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 19 00:29:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1118WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024



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

Manual Integration Report

Sequence:	vn103024	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN084570.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:14 AM	MMDadoda	11/4/2024 1:18:00 AM	Peak Integrated by Software
VSTDICCC050	VN084571.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:15 AM	MMDadoda	11/4/2024 1:18:01 AM	Peak Integrated by Software
VSTDICC020	VN084572.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:16 AM	MMDadoda	11/4/2024 1:18:03 AM	Peak Integrated by Software
VSTDICC010	VN084573.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:17 AM	MMDadoda	11/4/2024 1:18:04 AM	Peak Integrated by Software
VSTDICC005	VN084574.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:20 AM	MMDadoda	11/4/2024 1:18:05 AM	Peak Integrated by Software
VSTDICC001	VN084575.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:21 AM	MMDadoda	11/4/2024 1:18:07 AM	Peak Integrated by Software
VSTDICC001	VN084575.D	1,4-Dichlorobenzene	SAM	11/4/2024 1:12:21 AM	MMDadoda	11/4/2024 1:18:07 AM	Peak Integrated by Software
VSTDICC001	VN084575.D	Acetone	SAM	11/4/2024 1:12:21 AM	MMDadoda	11/4/2024 1:18:07 AM	Peak Integrated by Software
VSTDICC001	VN084575.D	Diethyl Ether	SAM	11/4/2024 1:12:21 AM	MMDadoda	11/4/2024 1:18:07 AM	Peak Integrated by Software
VSTDICV050	VN084577.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:23 AM	MMDadoda	11/4/2024 1:18:09 AM	Peak Integrated by Software
VSTDCCC050	VN084579.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:34 AM	MMDadoda	11/4/2024 1:18:38 AM	Peak Integrated by Software
VSTDCCC050	VN084579.D	trans-1,4-Dichloro-2-but ene	SAM	11/4/2024 1:12:34 AM	MMDadoda	11/4/2024 1:18:38 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vn103024	Instrument	MSVOA_n

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

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

Manual Integration Report

Sequence:	VN111824	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN084911.D	1,2,3-Trichloropropane	JOHN	11/19/2024 9:52:43 AM	MMDadoda	11/19/2024 1:21:09 PM	Peak Integrated by Software
VSTDCCC050	VN084911.D	trans-1,4-Dichloro-2-but ene	JOHN	11/19/2024 9:52:43 AM	MMDadoda	11/19/2024 1:21:09 PM	Peak Integrated by Software
VN1118WBS01	VN084919.D	1,2,3-Trichloropropane	JOHN	11/19/2024 9:52:52 AM	MMDadoda	11/19/2024 1:21:09 PM	Peak Integrated by Software
VN1118WBSD0 1	VN084923.D	1,2,3-Trichloropropane	JOHN	11/19/2024 9:52:56 AM	MMDadoda	11/19/2024 1:21:11 PM	Peak Integrated by Software
VSTDCCC050	VN084933.D	1,2,3-Trichloropropane	JOHN	11/19/2024 9:53:02 AM	MMDadoda	11/19/2024 1:21:12 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 # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM				
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:18:30 AM				
SubDirectory	VN103024	HP Acquire Method	MSVOA_N		HP Processing Method	82n103024w.m	

STD. NAME	STD REF.#
Tune/Reschk	VP131194.VP131195
Initial Calibration Stds	VP131185,VP131186,VP131187,VP131188,VP131189,VP131190
CCC	VP131191,VP131192
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131193
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084569.D	30 Oct 2024 10:42	JC\MD	Ok
2	VSTDICC100	VN084570.D	30 Oct 2024 11:46	JC\MD	Ok,M
3	VSTDICCC050	VN084571.D	30 Oct 2024 12:09	JC\MD	Ok,M
4	VSTDICC020	VN084572.D	30 Oct 2024 12:33	JC\MD	Ok,M
5	VSTDICC010	VN084573.D	30 Oct 2024 12:57	JC\MD	Ok,M
6	VSTDICC005	VN084574.D	30 Oct 2024 13:21	JC\MD	Ok,M
7	VSTDICC001	VN084575.D	30 Oct 2024 13:45	JC\MD	Ok,M
8	VIBLK	VN084576.D	30 Oct 2024 14:42	JC\MD	Ok
9	VSTDICV050	VN084577.D	30 Oct 2024 15:06	JC\MD	Ok,M
10	BFB	VN084578.D	30 Oct 2024 19:24	JC\MD	Ok
11	VSTDCCC050	VN084579.D	30 Oct 2024 20:12	JC\MD	Ok,M
12	VN1030MBL01	VN084580.D	30 Oct 2024 20:48	JC\MD	Ok
13	VN1030WBL01	VN084581.D	30 Oct 2024 21:12	JC\MD	Ok
14	VN1030WBS01	VN084582.D	30 Oct 2024 21:46	JC\MD	Ok,M
15	VN1030WBSD01	VN084583.D	30 Oct 2024 22:10	JC\MD	Ok,M
16	P4594-04	VN084584.D	30 Oct 2024 22:34	JC\MD	Ok,M
17	P4594-08	VN084585.D	30 Oct 2024 22:58	JC\MD	Ok
18	P4594-12	VN084586.D	30 Oct 2024 23:22	JC\MD	Ok
19	P4594-16	VN084587.D	30 Oct 2024 23:46	JC\MD	Ok
20	P4594-20	VN084588.D	31 Oct 2024 00:09	JC\MD	Ok
21	P4597-03	VN084589.D	31 Oct 2024 00:34	JC\MD	Ok

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 # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM				
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:18:30 AM				
SubDirectory	VN103024	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m		

STD. NAME	STD REF.#
Tune/Reschk	VP131194.VP131195
Initial Calibration Stds	VP131185,VP131186,VP131187,VP131188,VP131189,VP131190
CCC	VP131191,VP131192
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131193
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4597-06	VN084590.D	31 Oct 2024 00:57	JC\MD	Ok,M
23	P4597-09	VN084591.D	31 Oct 2024 01:21	JC\MD	Ok
24	P4597-12	VN084592.D	31 Oct 2024 01:45	JC\MD	Ok,M
25	P4598-04	VN084593.D	31 Oct 2024 02:09	JC\MD	Ok
26	P4598-08	VN084594.D	31 Oct 2024 02:33	JC\MD	Ok
27	P4598-12	VN084595.D	31 Oct 2024 02:57	JC\MD	Ok
28	P4611-03	VN084596.D	31 Oct 2024 03:21	JC\MD	Ok
29	P4611-06	VN084597.D	31 Oct 2024 03:45	JC\MD	Ok
30	P4611-09	VN084598.D	31 Oct 2024 04:09	JC\MD	Ok
31	P4611-12	VN084599.D	31 Oct 2024 04:33	JC\MD	Ok
32	P4611-15	VN084600.D	31 Oct 2024 04:57	JC\MD	Ok
33	P4611-18	VN084601.D	31 Oct 2024 05:21	JC\MD	Ok
34	P4612-04	VN084602.D	31 Oct 2024 05:45	JC\MD	Ok
35	P4613-02	VN084603.D	31 Oct 2024 06:09	JC\MD	Ok
36	PB164501ZHE#13	VN084604.D	31 Oct 2024 06:33	JC\MD	Ok,M
37	PB164501ZHE#14	VN084605.D	31 Oct 2024 06:57	JC\MD	Ok,M
38	PB164501ZHE#15	VN084606.D	31 Oct 2024 07:22	JC\MD	Ok,M
39	PB164501ZHE#16	VN084607.D	31 Oct 2024 07:46	JC\MD	Ok
40	PB164501ZHE#17	VN084608.D	31 Oct 2024 08:10	JC\MD	Ok,M
41	PB164501ZHE#18	VN084609.D	31 Oct 2024 08:34	JC\MD	Ok,M
42	PB164501ZHE#19	VN084610.D	31 Oct 2024 08:58	JC\MD	Ok,M
43	PB164501ZHE#20	VN084611.D	31 Oct 2024 09:22	JC\MD	Ok

M : Manual Integration

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 # VN111824

Review By	Semsettin Yesilyurt	Review On	11/18/2024 3:18:35 PM		
Supervise By	John Carlone	Supervise On	11/19/2024 10:00:54 AM		
SubDirectory	VN111824	HP Acquire Method		HP Processing Method	82N103024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131587
Initial Calibration Stds	
CCC	VP131588,VP131589
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084910.D	18 Nov 2024 08:47	JC\MD	Ok
2	VSTDCCC050	VN084911.D	18 Nov 2024 09:51	JC\MD	Ok,M
3	VN1118MBL01	VN084912.D	18 Nov 2024 12:03	JC\MD	Not Ok
4	VN1118WBL01	VN084913.D	18 Nov 2024 12:27	JC\MD	Ok
5	VN1118MBL02	VN084914.D	18 Nov 2024 12:51	JC\MD	Ok
6	P4857-01	VN084915.D	18 Nov 2024 13:15	JC\MD	Not Ok
7	VN1118MBS01	VN084916.D	18 Nov 2024 13:39	JC\MD	Ok,M
8	P4857-01	VN084917.D	18 Nov 2024 14:04	JC\MD	Ok
9	IBLK	VN084918.D	18 Nov 2024 14:28	JC\MD	Ok
10	VN1118WBS01	VN084919.D	18 Nov 2024 14:52	JC\MD	Ok,M
11	P4843-01	VN084920.D	18 Nov 2024 15:16	JC\MD	ReRun
12	PB165013TB	VN084921.D	18 Nov 2024 15:40	JC\MD	Ok
13	PB164987TB	VN084922.D	18 Nov 2024 16:04	JC\MD	Ok
14	VN1118WBSD01	VN084923.D	18 Nov 2024 16:28	JC\MD	Ok,M
15	P4861-01	VN084924.D	18 Nov 2024 16:52	JC\MD	Ok
16	P4871-01	VN084925.D	18 Nov 2024 17:16	JC\MD	Dilution
17	P4848-02	VN084926.D	18 Nov 2024 17:40	JC\MD	ReRun
18	P4849-02	VN084927.D	18 Nov 2024 18:04	JC\MD	Not Ok
19	P4870-13	VN084928.D	18 Nov 2024 18:28	JC\MD	Ok
20	P4870-14	VN084929.D	18 Nov 2024 18:52	JC\MD	Ok
21	P4870-15	VN084930.D	18 Nov 2024 19:16	JC\MD	Ok

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 # VN111824

Review By	Semsettin Yesilyurt	Review On	11/18/2024 3:18:35 PM		
Supervise By	John Carlone	Supervise On	11/19/2024 10:00:54 AM		
SubDirectory	VN111824	HP Acquire Method		HP Processing Method	82N103024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131587
Initial Calibration Stds	
CCC	VP131588,VP131589
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4870-16	VN084931.D	18 Nov 2024 19:40	JC\MD	Ok
23	P4887-02	VN084932.D	18 Nov 2024 20:04	JC\MD	Ok
24	VSTDCCC050	VN084933.D	18 Nov 2024 20:28	JC\MD	Ok,M

M : Manual Integration

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 # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM		
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:18:30 AM		
SubDirectory	VN103024	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131194.VP131195
Initial Calibration Stds	VP131185,VP131186,VP131187,VP131188,VP131189,VP131190
CCC	VP131191,VP131192
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131193
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084569.D	30 Oct 2024 10:42		JC\MD	Ok
2	VSTDICC100	VSTDICC100	VN084570.D	30 Oct 2024 11:46	Comp #03 fail for %D	JC\MD	Ok,M
3	VSTDICCC050	VSTDICCC050	VN084571.D	30 Oct 2024 12:09	LR-03,06,16,18,43	JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN084572.D	30 Oct 2024 12:33	QR-88	JC\MD	Ok,M
5	VSTDICC010	VSTDICC010	VN084573.D	30 Oct 2024 12:57		JC\MD	Ok,M
6	VSTDICC005	VSTDICC005	VN084574.D	30 Oct 2024 13:21		JC\MD	Ok,M
7	VSTDICC001	VSTDICC001	VN084575.D	30 Oct 2024 13:45		JC\MD	Ok,M
8	VIBLK	VIBLK	VN084576.D	30 Oct 2024 14:42		JC\MD	Ok
9	VSTDICV050	ICVVN103024	VN084577.D	30 Oct 2024 15:06		JC\MD	Ok,M
10	BFB	BFB	VN084578.D	30 Oct 2024 19:24		JC\MD	Ok
11	VSTDCCC050	VSTDCCC050	VN084579.D	30 Oct 2024 20:12		JC\MD	Ok,M
12	VN1030MBL01	VN1030MBL01	VN084580.D	30 Oct 2024 20:48		JC\MD	Ok
13	VN1030WBL01	VN1030WBL01	VN084581.D	30 Oct 2024 21:12		JC\MD	Ok
14	VN1030WBS01	VN1030WBS01	VN084582.D	30 Oct 2024 21:46		JC\MD	Ok,M
15	VN1030WBSD01	VN1030WBSD01	VN084583.D	30 Oct 2024 22:10		JC\MD	Ok,M
16	P4594-04	TP-4	VN084584.D	30 Oct 2024 22:34	pH#5.0 A	JC\MD	Ok,M
17	P4594-08	BP-F17	VN084585.D	30 Oct 2024 22:58	pH#5.0 A	JC\MD	Ok
18	P4594-12	BP-F16	VN084586.D	30 Oct 2024 23:22	pH#5.0 A	JC\MD	Ok

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 # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM		
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:18:30 AM		
SubDirectory	VN103024	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131194.VP131195
Initial Calibration Stds	VP131185,VP131186,VP131187,VP131188,VP131189,VP131190
CCC	VP131191,VP131192
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131193
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4594-16	TP-5	VN084587.D	30 Oct 2024 23:46	pH#7.0 A	JC\MD	Ok
20	P4594-20	BP-F15	VN084588.D	31 Oct 2024 00:09	pH#6.0 A	JC\MD	Ok
21	P4597-03	RED-1-1	VN084589.D	31 Oct 2024 00:34	pH#6.0 A	JC\MD	Ok
22	P4597-06	RED-1-2	VN084590.D	31 Oct 2024 00:57	pH#5.0 A	JC\MD	Ok,M
23	P4597-09	BLUE-2-1	VN084591.D	31 Oct 2024 01:21	pH#5.0 A	JC\MD	Ok
24	P4597-12	BLUE-2-2	VN084592.D	31 Oct 2024 01:45	pH#5.0 A	JC\MD	Ok,M
25	P4598-04	BP-F12	VN084593.D	31 Oct 2024 02:09	pH#7.0 A	JC\MD	Ok
26	P4598-08	BP-F11	VN084594.D	31 Oct 2024 02:33	pH#7.0 A	JC\MD	Ok
27	P4598-12	TP-8	VN084595.D	31 Oct 2024 02:57	pH#6.0 A	JC\MD	Ok
28	P4611-03	TP-1	VN084596.D	31 Oct 2024 03:21	pH#5.0 A	JC\MD	Ok
29	P4611-06	TP-2	VN084597.D	31 Oct 2024 03:45	pH#5.0 A	JC\MD	Ok
30	P4611-09	TP-3	VN084598.D	31 Oct 2024 04:09	pH#5.0 A	JC\MD	Ok
31	P4611-12	TP-4	VN084599.D	31 Oct 2024 04:33	pH#5.0 A	JC\MD	Ok
32	P4611-15	TP-5	VN084600.D	31 Oct 2024 04:57	pH#5.0 A	JC\MD	Ok
33	P4611-18	TP-6	VN084601.D	31 Oct 2024 05:21	pH#5.0 A	JC\MD	Ok
34	P4612-04	MOO-24-00335	VN084602.D	31 Oct 2024 05:45	pH#5.0 A	JC\MD	Ok
35	P4613-02	ARS20-0001	VN084603.D	31 Oct 2024 06:09	pH#5.0 A	JC\MD	Ok
36	PB164501ZHE#13	PB164501ZHE#13	VN084604.D	31 Oct 2024 06:33	pH#5.0 A	JC\MD	Ok,M
37	PB164501ZHE#14	PB164501ZHE#14	VN084605.D	31 Oct 2024 06:57	pH#5.0 A	JC\MD	Ok,M

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 # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM		
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:18:30 AM		
SubDirectory	VN103024	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131194.VP131195
Initial Calibration Stds	VP131185,VP131186,VP131187,VP131188,VP131189,VP131190
CCC	VP131191,VP131192
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131193
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	PB164501ZHE#15	PB164501ZHE#15	VN084606.D	31 Oct 2024 07:22	pH#5.0 A	JC\MD	Ok,M
39	PB164501ZHE#16	PB164501ZHE#16	VN084607.D	31 Oct 2024 07:46	pH#5.0 A	JC\MD	Ok
40	PB164501ZHE#17	PB164501ZHE#17	VN084608.D	31 Oct 2024 08:10	pH#5.0 A	JC\MD	Ok,M
41	PB164501ZHE#18	PB164501ZHE#18	VN084609.D	31 Oct 2024 08:34	pH#5.0 A	JC\MD	Ok,M
42	PB164501ZHE#19	PB164501ZHE#19	VN084610.D	31 Oct 2024 08:58	pH#5.0 A	JC\MD	Ok,M
43	PB164501ZHE#20	PB164501ZHE#20	VN084611.D	31 Oct 2024 09:22	pH#5.0 A	JC\MD	Ok

M : Manual Integration

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 # VN111824

Review By	Semsettin Yesilyurt	Review On	11/18/2024 3:18:35 PM		
Supervise By	John Carlone	Supervise On	11/19/2024 10:00:54 AM		
SubDirectory	VN111824	HP Acquire Method		HP Processing Method	82N103024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131587
Initial Calibration Stds	
CCC	VP131588,VP131589
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	VN084910.D	18 Nov 2024 08:47		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN084911.D	18 Nov 2024 09:51	V13516	JC\MD	Ok,M
3	VN1118MBL01	VN1118MBL01	VN084912.D	18 Nov 2024 12:03		JC\MD	Not Ok
4	VN1118WBL01	VN1118WBL01	VN084913.D	18 Nov 2024 12:27		JC\MD	Ok
5	VN1118MBL02	VN1118MBL02	VN084914.D	18 Nov 2024 12:51		JC\MD	Ok
6	P4857-01	ETGI-328	VN084915.D	18 Nov 2024 13:15	run straight MEOH	JC\MD	Not Ok
7	VN1118MBS01	VN1118MBS01	VN084916.D	18 Nov 2024 13:39		JC\MD	Ok,M
8	P4857-01	ETGI-328	VN084917.D	18 Nov 2024 14:04		JC\MD	Ok
9	IBLK	IBLK	VN084918.D	18 Nov 2024 14:28		JC\MD	Ok
10	VN1118WBS01	VN1118WBS01	VN084919.D	18 Nov 2024 14:52	BS high for com #52 and 67	JC\MD	Ok,M
11	P4843-01	SW-WTS-01	VN084920.D	18 Nov 2024 15:16	vial A pH<2 BS high	JC\MD	ReRun
12	PB165013TB	PB165013TB	VN084921.D	18 Nov 2024 15:40		JC\MD	Ok
13	PB164987TB	PB164987TB	VN084922.D	18 Nov 2024 16:04		JC\MD	Ok
14	VN1118WBSD01	VN1118WBSD01	VN084923.D	18 Nov 2024 16:28		JC\MD	Ok,M
15	P4861-01	WC-11-A-202411	VN084924.D	18 Nov 2024 16:52	vial A pH#5.0	JC\MD	Ok
16	P4871-01	WC-10-A-202411	VN084925.D	18 Nov 2024 17:16	vial A pH#5.0 Need 100X	JC\MD	Dilution
17	P4848-02	TP-1	VN084926.D	18 Nov 2024 17:40	vial A pH#5.0 E Flag in Previous Sample	JC\MD	ReRun

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 # VN111824

Review By	Semsettin Yesilyurt	Review On	11/18/2024 3:18:35 PM		
Supervise By	John Carlone	Supervise On	11/19/2024 10:00:54 AM		
SubDirectory	VN111824	HP Acquire Method		HP Processing Method	82N103024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131587
Initial Calibration Stds	
CCC	VP131588,VP131589
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	P4849-02	RR-1	VN084927.D	18 Nov 2024 18:04	vial A pH#5.0 Carryover concentration	JC\MD	Not Ok
19	P4870-13	TP-1	VN084928.D	18 Nov 2024 18:28	vial A pH#5.0	JC\MD	Ok
20	P4870-14	MH-735	VN084929.D	18 Nov 2024 18:52	vial A pH#5.0	JC\MD	Ok
21	P4870-15	MH-736	VN084930.D	18 Nov 2024 19:16	vial A pH#5.0	JC\MD	Ok
22	P4870-16	TP-15	VN084931.D	18 Nov 2024 19:40	vial A pH#5.0	JC\MD	Ok
23	P4887-02	MH-739	VN084932.D	18 Nov 2024 20:04	vial A pH#5.0	JC\MD	Ok
24	VSTDCCC050	VSTDCCC050EC	VN084933.D	18 Nov 2024 20:28		JC\MD	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB165013

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : N/A

Balance ID : N/A

pH Meter ID : WC PH METER-1

Extraction By : N/A

Filter By : N/A

Pippete ID : N/A

Tumbler ID : N/A

TCLP Filter ID : N/A

Start Prep Date : N/A **Time :** N/A

End Prep Date : N/A **Time :** N/A

Combination Ratio : N/A

ZHE Cleaning Batch : N/A

Initial Room Temperature: N/A

Final Room Temperature: N/A

TCLP Technician Signature : SB

Supervisor By : IC

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

We receive water sample in 40 ml vial tr to VOC LAB without fiftration and tumbling.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11-15-24 14:00	SB TCLP Room	JC VOC Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB165013

Sample ID	ClientID	ZHE Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4861-01	WC-11-A-202411	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
P4871-01	WC-10-A-202411	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PB165013TB	LEB013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4861-01	WC-11-A-202411	N/A	N/A	N/A	N/A	<0.5	N/A
P4871-01	WC-10-A-202411	N/A	N/A	N/A	N/A	<0.5	N/A
PB165013TB	LEB013	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp zhe p4861 **WorkList ID :** 185486 **Department :** TCLP Extraction **Date :** 11-15-2024 13:42:21

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4861-01	WC-11-A-202411	Water	TCLP ZHE Extraction	Cool 4 deg C	AECO02	L41	11/13/2024	1311 ZHE
P4871-01	WC-10-A-202411	Water	TCLP ZHE Extraction	Cool 4 deg C	AECO02	M11	11/13/2024	1311 ZHE

Date/Time 11-15-24 13:50

Raw Sample Received by: JB CWE,

Raw Sample Relinquished by: CB SW

Date/Time 11-15-24 15:00

Raw Sample Received by:

Raw Sample Relinquished by: JB CWE

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. P4861
QUOTE NO.
COC Number 2041712

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: AECOM
ADDRESS: 605 3rd Ave
CITY New York STATE: NY ZIP: 10158
ATTENTION: Amit Haryani
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Meeker Ave Superfund
PROJECT NO.: 60705866 LOCATION: Brooklyn
PROJECT MANAGER: Amit Haryani
e-mail: amit.haryani@aecom.com
PHONE: FAX:

CLIENT BILLING INFORMATION

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

DATA TURNAROUND INFORMATION

FAX (RUSH) 3 day 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)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other
- ☐ EDD FORMAT

ANALYSIS

1 TCLP VOA
2 TCLP BNA
3 TCLP ICP Metals TCLP Mercury
4 Paint Filter
5 Reactive Cyanide
6 Reactive Sulfide
7 pH
8 TCLP Pesticide
9 PCB + Flashpoint

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 B2406004	WC-11-A-202411	GW	X		11/13/24	1500	12	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2.																	
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

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

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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Hannah Dwyer	11/14/24 1200	1. 1326 11-14-24
2.		2.
3.	11-14-24 1832	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.3 °C
Comments:

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