

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011124\
 Data File : VN080676.D
 Acq On : 11 Jan 2024 15:16
 Operator : JC\MD
 Sample : P1102-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 12 05:24:10 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N011124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jan 12 05:20:11 2024
 Response via : Initial Calibration

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

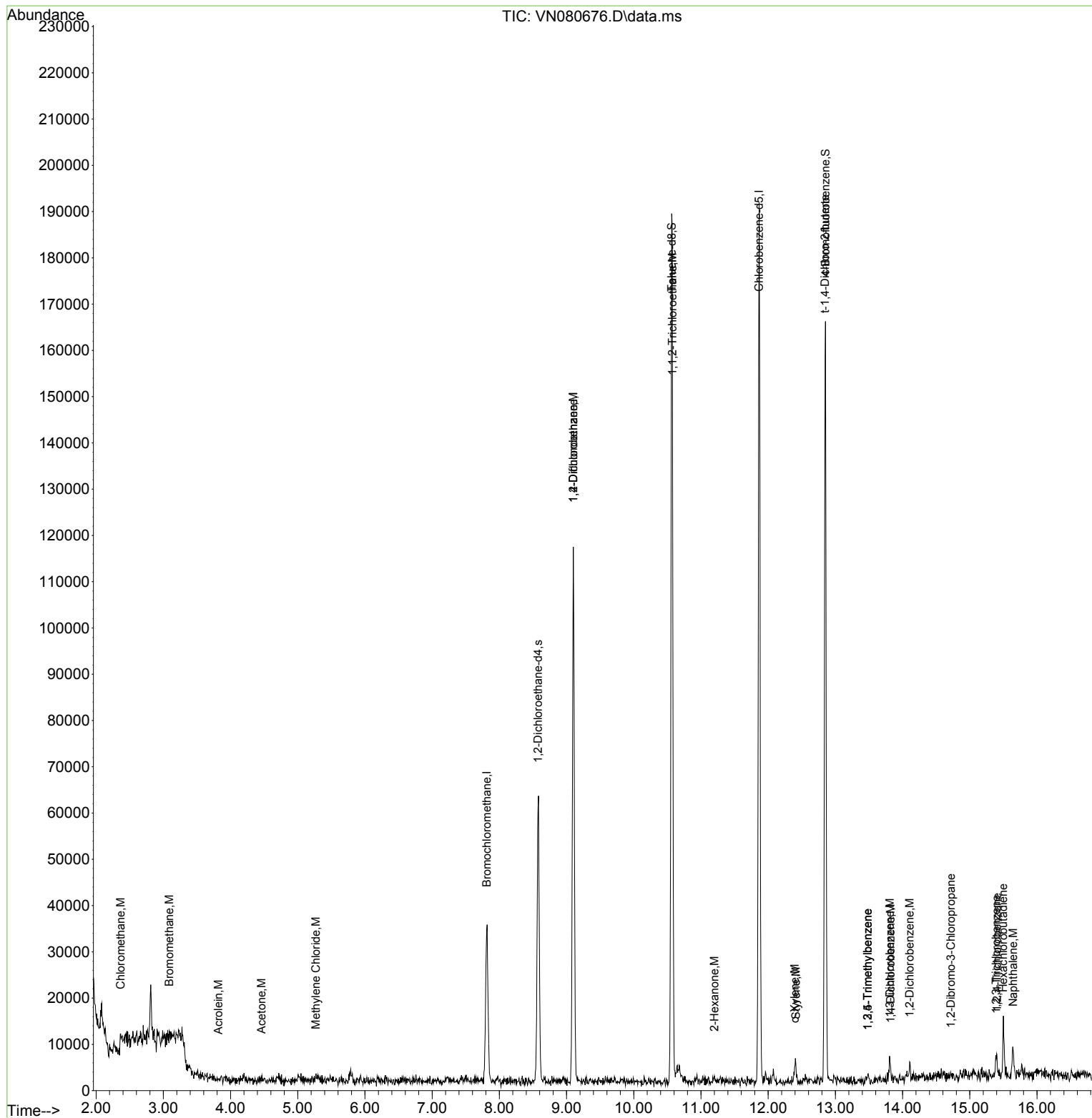
Internal Standards						
1) Bromochloromethane	7.812	128	10051	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	89557	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.865	117	95920	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	47717	29.399	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.000%
60) 4-Bromofluorobenzene	12.853	95	58803	27.713	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	92.367%
63) Toluene-d8	10.565	98	126020	29.936	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.800%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1301	0.559	ug/l	89
5) Bromomethane	3.089	94	160	0.246	ug/l	99
13) Acrolein	3.818	56	225	0.874	ug/l	90
15) Acetone	4.459	58	117	0.591	ug/l	# 1
18) Methylene Chloride	5.271	84	392	0.206	ug/l	# 36
36) 1,2-Dichloroethane	9.100	62	3328	1.121	ug/l	# 72
50) 1,1,2-Trichloroethane	10.576	97	4061	2.283	ug/l	# 1
59) 2-Hexanone	11.200	43	680	0.361	ug/l	# 60
68) o-Xylene	12.394	106	778	0.267	ug/l	46
69) Styrene	12.412	104	1150	0.235	ug/l	# 82
76) 1,3,5-Trimethylbenzene	13.482	105	1312	0.222	ug/l	62
77) t-1,4-Dichloro-2-butene	12.847	75	33418	37.068	ug/l	# 12
80) 1,2,4-Trimethylbenzene	13.482	105	1312	0.227	ug/l	67
83) 1,3-Dichlorobenzene	13.812	146	1142	0.434	ug/l	# 45
84) 1,4-Dichlorobenzene	13.823	146	624	0.236	ug/l	# 19
87) 1,2-Dichlorobenzene	14.106	146	994	0.385	ug/l	# 67
88) 1,2-Dibromo-3-Chloropr...	14.717	75	222	0.460	ug/l	# 4
89) 1,2,4-Trichlorobenzene	15.406	180	355	0.274	ug/l	# 3
90) Hexachlorobutadiene	15.494	225	1038	1.752	ug/l	# 27
91) Naphthalene	15.647	128	6117	1.213	ug/l	# 92
92) 1,2,3-Trichlorobenzene	15.394	180	1136	0.878	ug/l	79

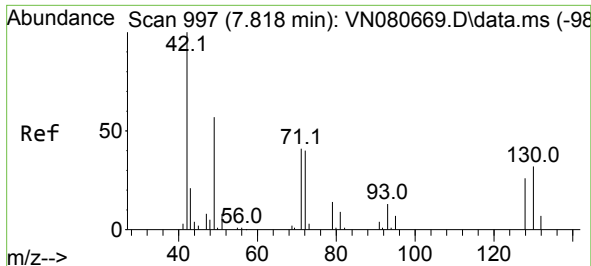
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 13 Sample Multiplier: 1

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MSVOA_N
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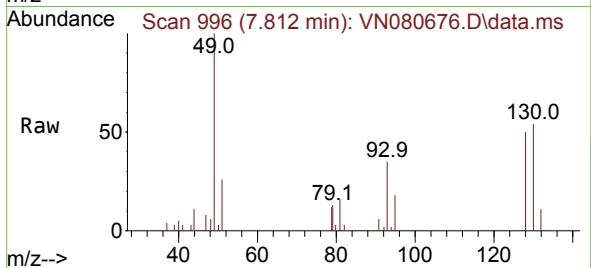
Quant Time: Jan 12 05:24:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N011124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jan 12 05:20:11 2024
Response via : Initial Calibration



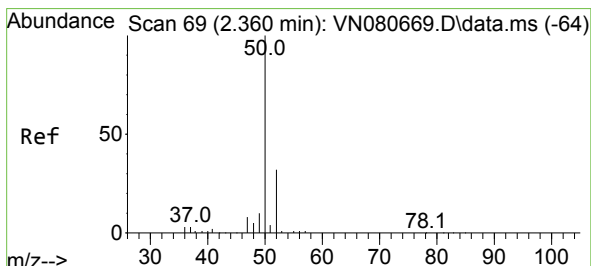
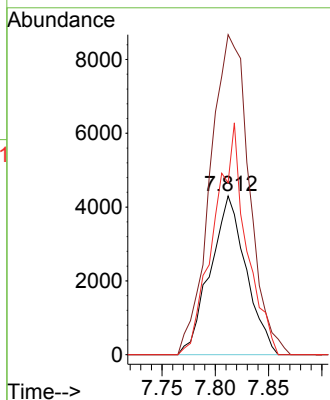
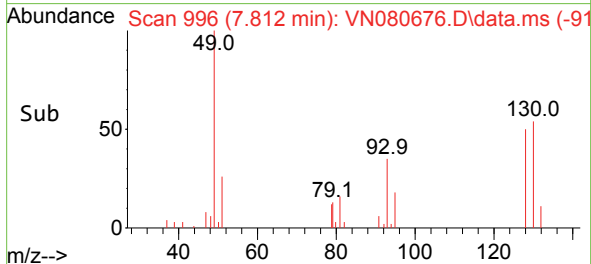


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN080676.D
Acq: 11 Jan 2024 15:16

Instrument :
MSVOA_N
ClientSampleId :

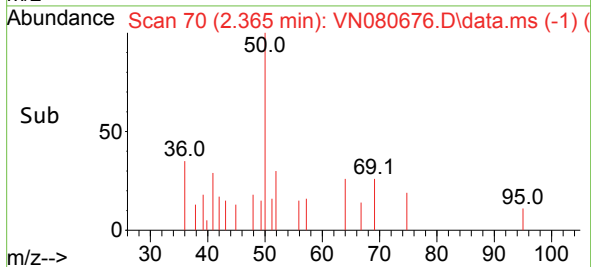
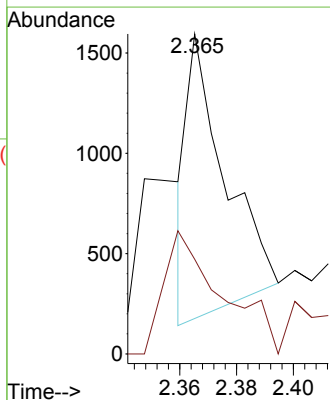
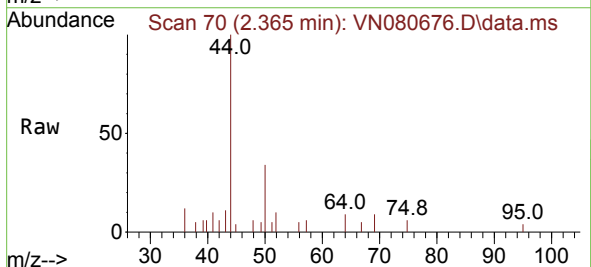


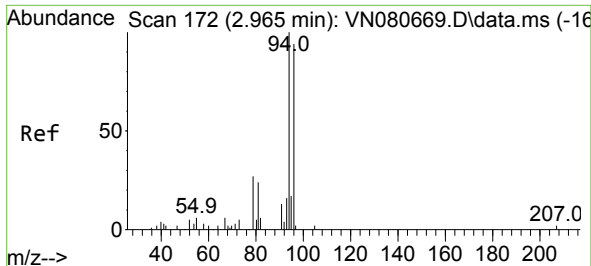
Tgt Ion:128 Resp: 10051
Ion Ratio Lower Upper
128 100
49 219.9 0.0 403.7
130 131.7 0.0 323.3



#3
Chloromethane
Concen: 0.559 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.005 min
Lab File: VN080676.D
Acq: 11 Jan 2024 15:16

Tgt Ion: 50 Resp: 1301
Ion Ratio Lower Upper
50 100
52 38.0 25.4 38.0

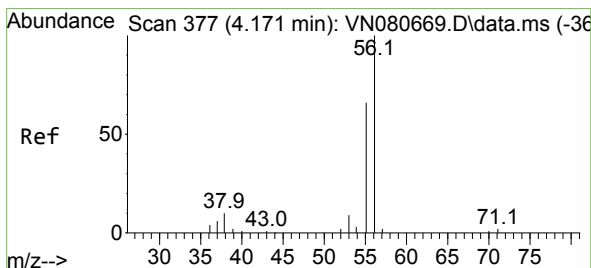
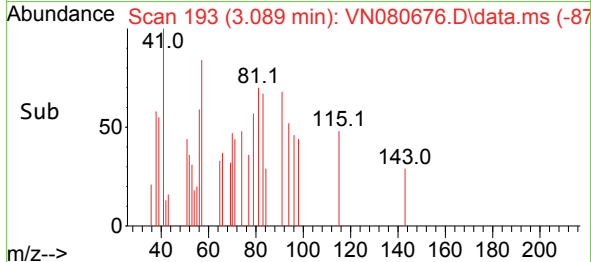
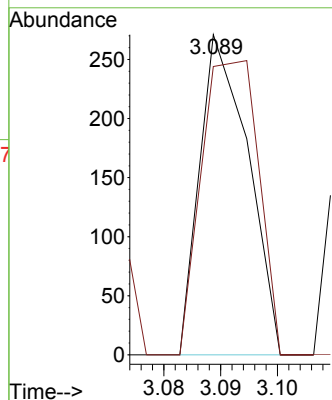
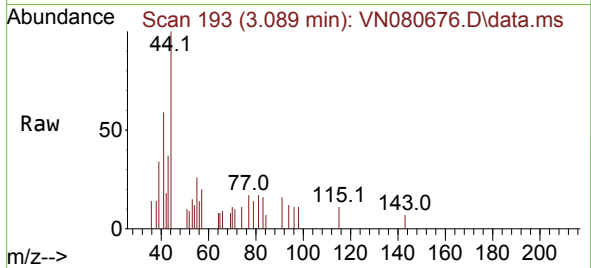




#5
Bromomethane
Concen: 0.246 ug/l
RT: 3.089 min Scan# 11
Delta R.T. 0.124 min
Lab File: VN080676.D
Acq: 11 Jan 2024 15:16

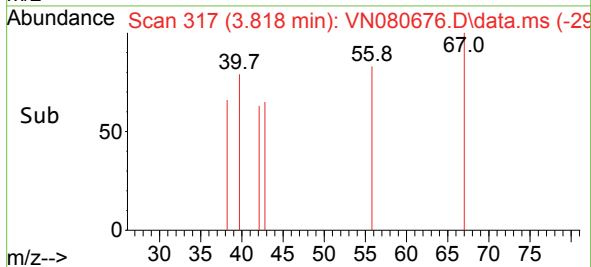
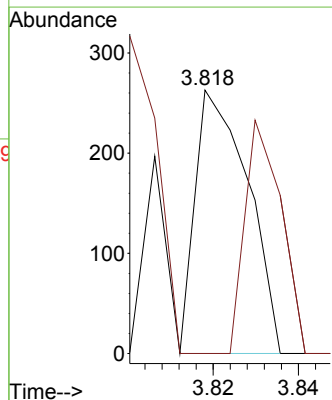
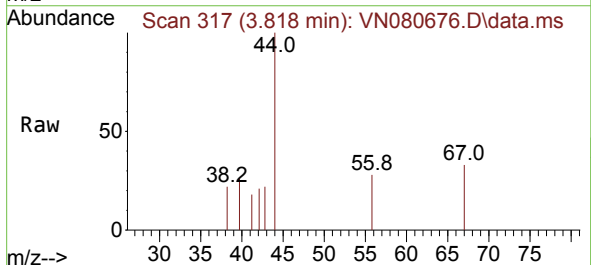
Instrument :
MSVOA_N
ClientSampleId :

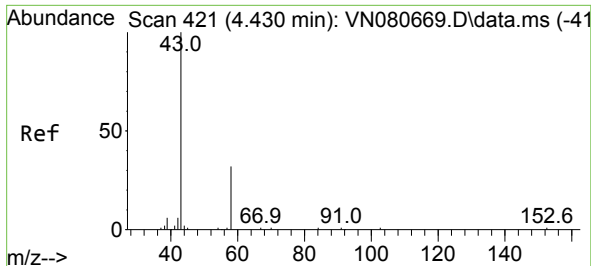
Tgt Ion: 94 Resp: 160
Ion Ratio Lower Upper
94 100
96 90.0 72.8 109.2



#13
Acrolein
Concen: 0.874 ug/l
RT: 3.818 min Scan# 317
Delta R.T. -0.353 min
Lab File: VN080676.D
Acq: 11 Jan 2024 15:16

Tgt Ion: 56 Resp: 225
Ion Ratio Lower Upper
56 100
55 61.3 55.5 83.3

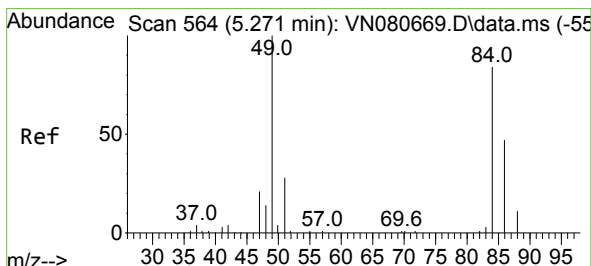
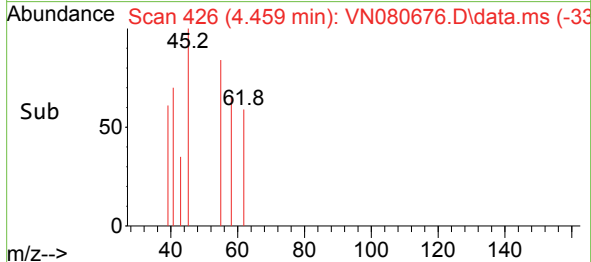
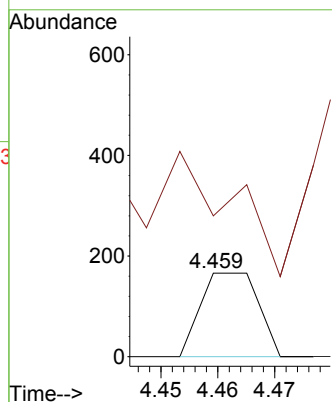
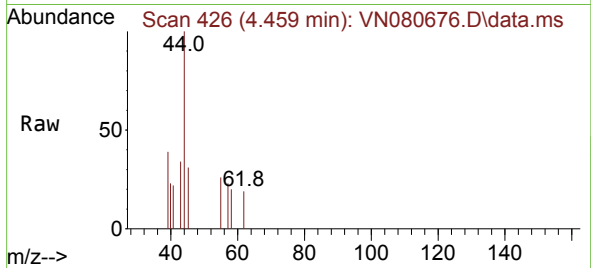




#15
Acetone
Concen: 0.591 ug/l
RT: 4.459 min Scan# 41
Delta R.T. 0.029 min
Lab File: VN080676.D
Acq: 11 Jan 2024 15:16

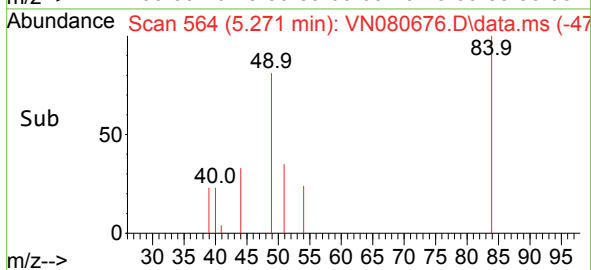
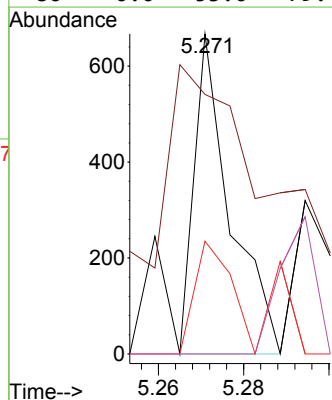
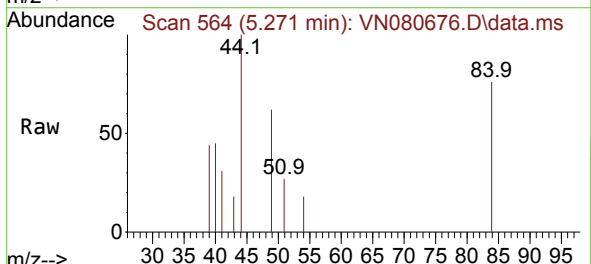
Instrument :
MSVOA_N
ClientSampleId :

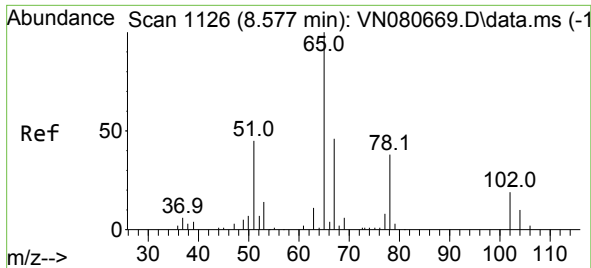
Tgt Ion: 58 Resp: 117
Ion Ratio Lower Upper
58 100
43 72.9 223.1 334.7#



#18
Methylene Chloride
Concen: 0.206 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN080676.D
Acq: 11 Jan 2024 15:16

Tgt Ion: 84 Resp: 392
Ion Ratio Lower Upper
84 100
49 30.7 86.0 129.0#
51 35.2 30.0 45.0
86 0.0 53.0 79.4#

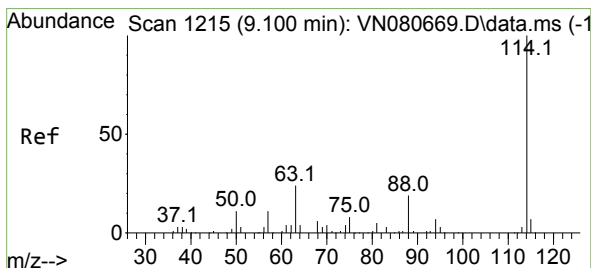
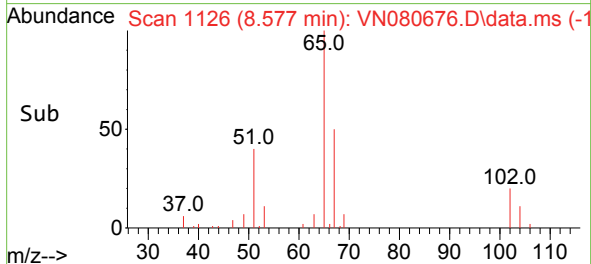
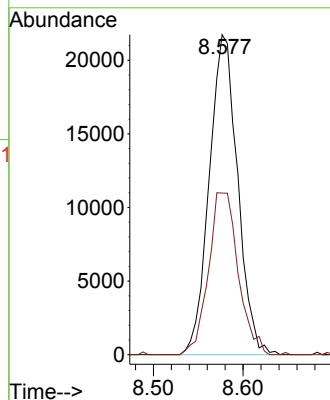
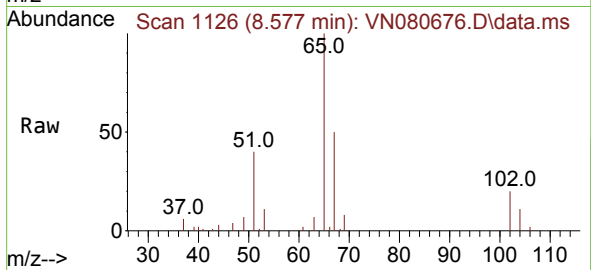




#27
1,2-Dichloroethane-d4
Concen: 29.399 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN080676.D
Acq: 11 Jan 2024 15:16

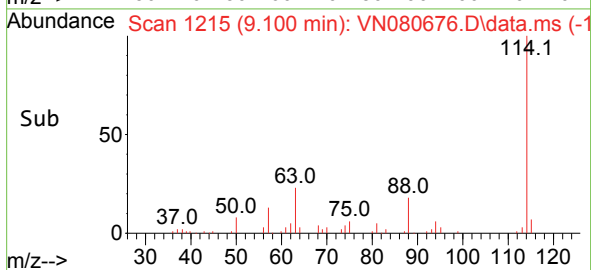
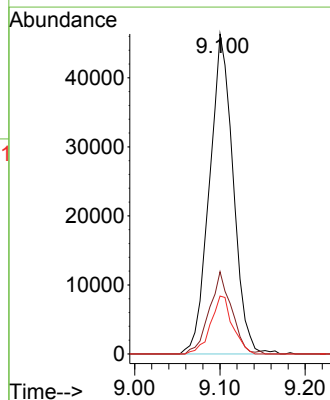
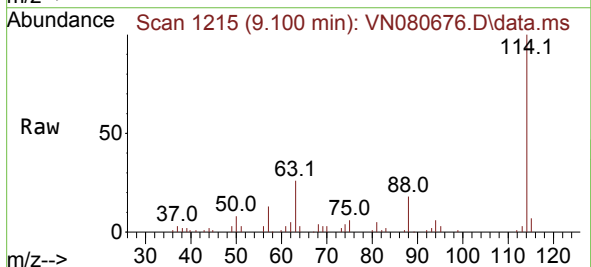
Instrument :
MSVOA_N
ClientSampleId :

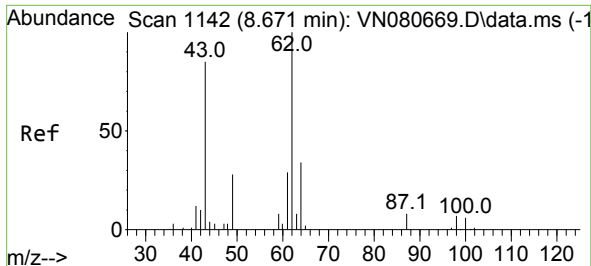
Tgt Ion: 65 Resp: 47717
Ion Ratio Lower Upper
65 100
67 53.3 43.2 64.8



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN080676.D
Acq: 11 Jan 2024 15:16

Tgt Ion: 114 Resp: 89557
Ion Ratio Lower Upper
114 100
63 24.0 15.9 23.9#
88 16.8 12.7 19.1

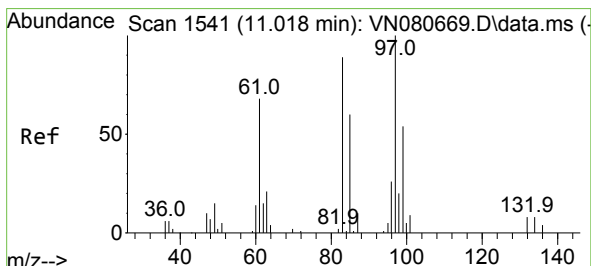
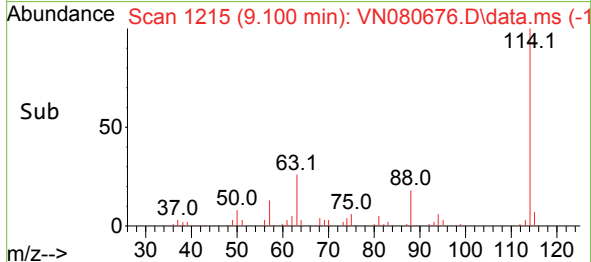
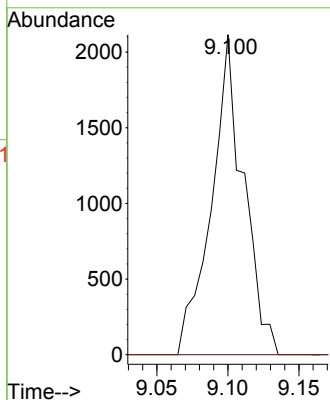
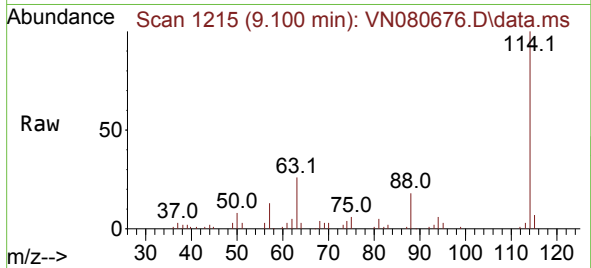




#36
1,2-Dichloroethane
Concen: 1.121 ug/l
RT: 9.100 min Scan# 1142
Delta R.T. 0.429 min
Lab File: VN080676.D
Acq: 11 Jan 2024 15:16

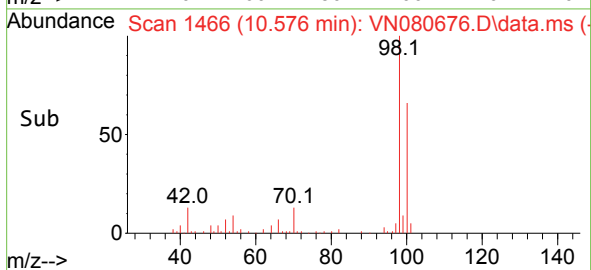
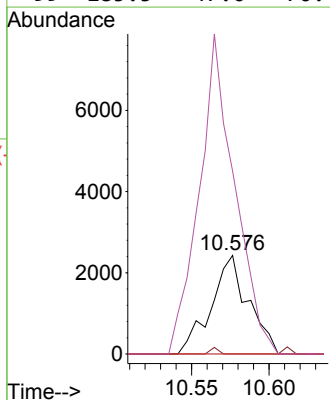
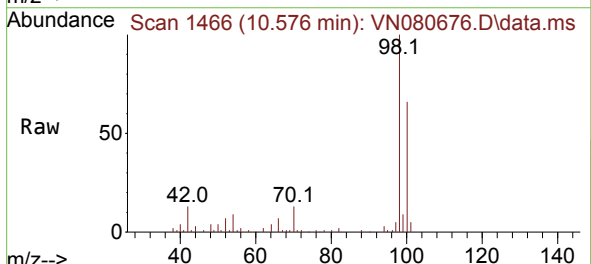
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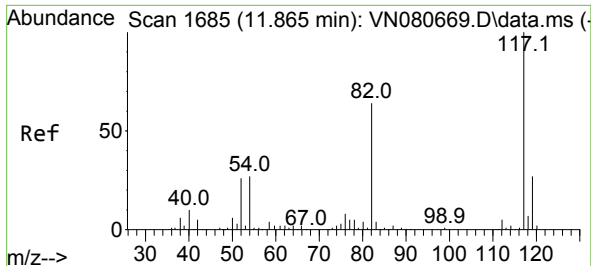
Tgt Ion: 62 Resp: 3328
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.4#



#50
1,1,2-Trichloroethane
Concen: 2.283 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. -0.442 min
Lab File: VN080676.D
Acq: 11 Jan 2024 15:16

Tgt Ion: 97 Resp: 4061
Ion Ratio Lower Upper
97 100
83 0.0 68.1 102.1#
85 0.0 41.8 62.6#
99 185.5 47.0 70.4#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN080676.D

Acq: 11 Jan 2024 15:16

Instrument :

MSVOA_N

ClientSampleId :

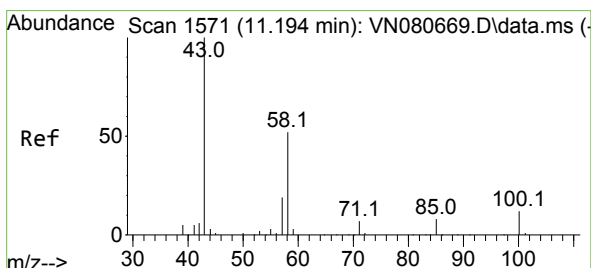
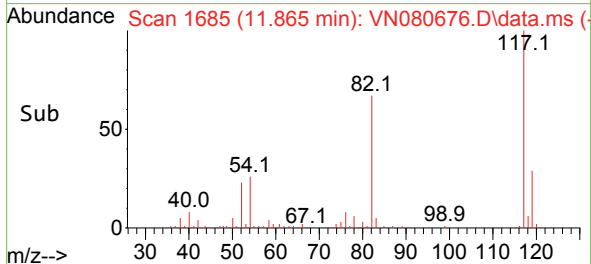
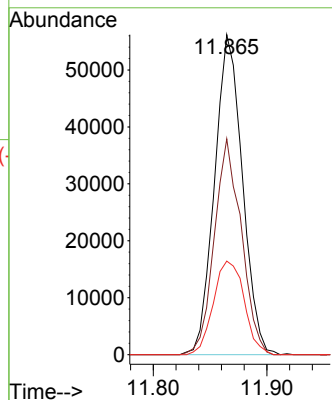
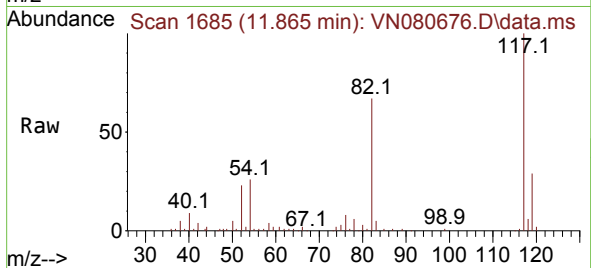
Tgt Ion:117 Resp: 95920

Ion Ratio Lower Upper

117 100

82 65.2 46.6 69.8

119 32.3 25.4 38.2



#59

2-Hexanone

Concen: 0.361 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN080676.D

Acq: 11 Jan 2024 15:16

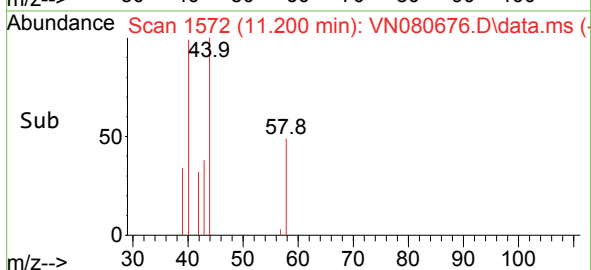
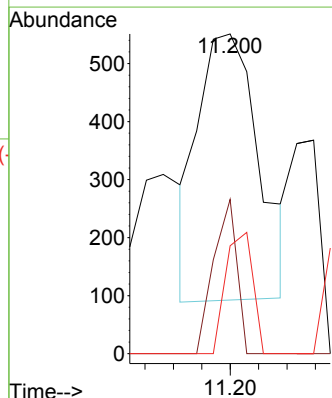
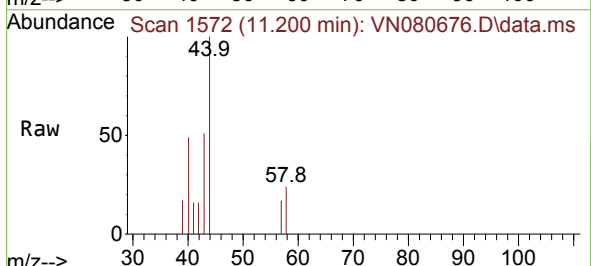
Tgt Ion: 43 Resp: 680

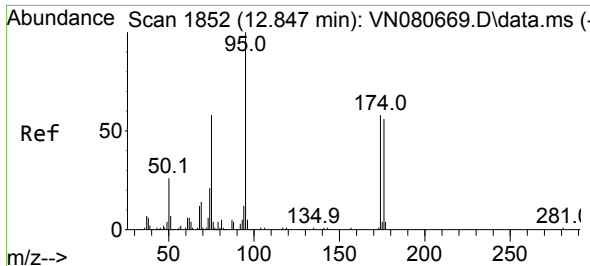
Ion Ratio Lower Upper

43 100

58 22.2 50.4 75.6#

57 20.4 18.6 27.8

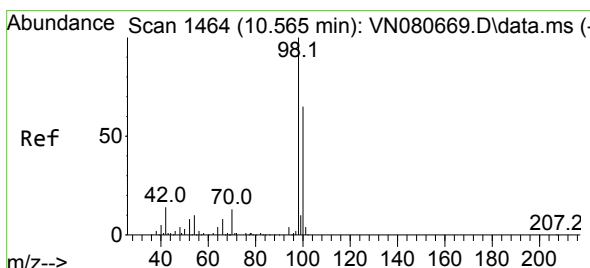
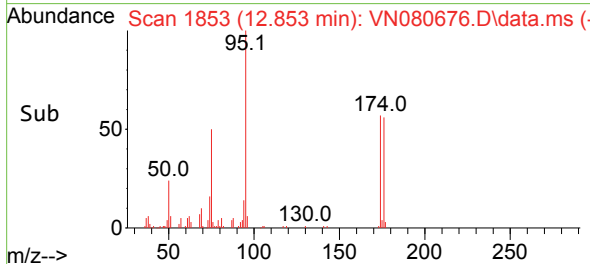
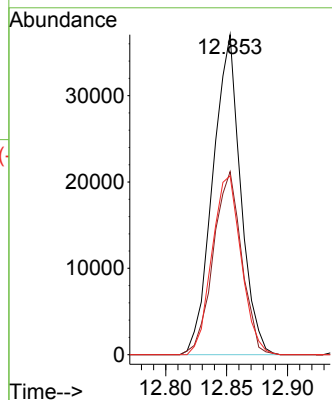
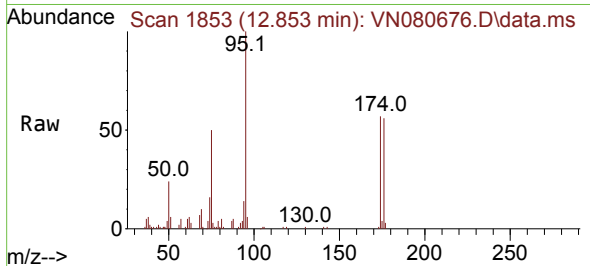




#60
4-Bromofluorobenzene
Concen: 27.713 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN080676.D
Acq: 11 Jan 2024 15:16

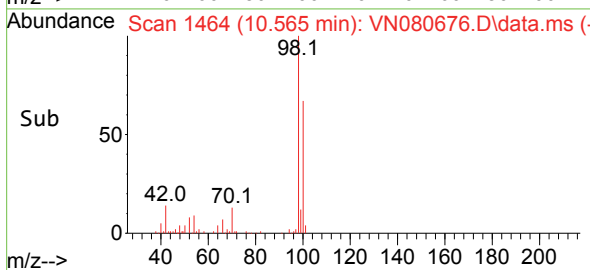
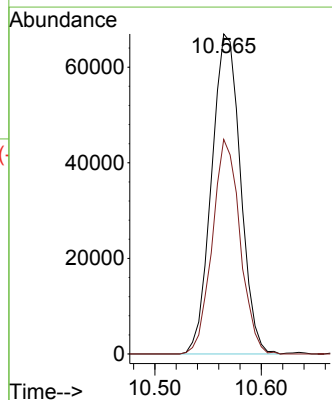
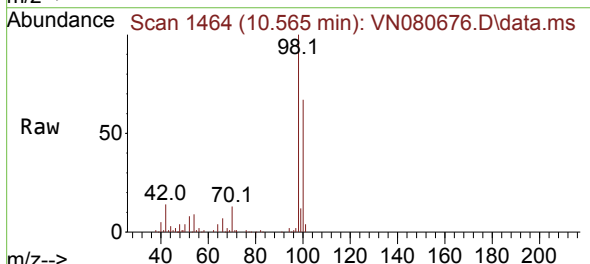
Instrument :
MSVOA_N
ClientSampleId :

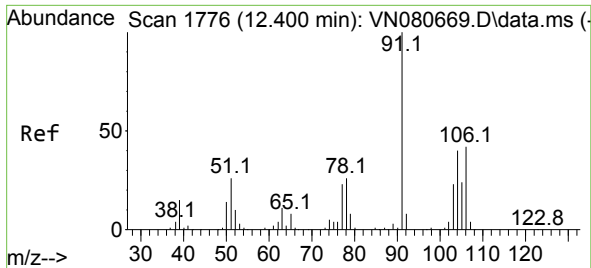
Tgt Ion: 95 Resp: 58803
Ion Ratio Lower Upper
95 100
174 58.4 60.5 90.7#
176 58.8 57.8 86.6



#63
Toluene-d8
Concen: 29.936 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN080676.D
Acq: 11 Jan 2024 15:16

Tgt Ion: 98 Resp: 126020
Ion Ratio Lower Upper
98 100
100 64.3 52.7 79.1

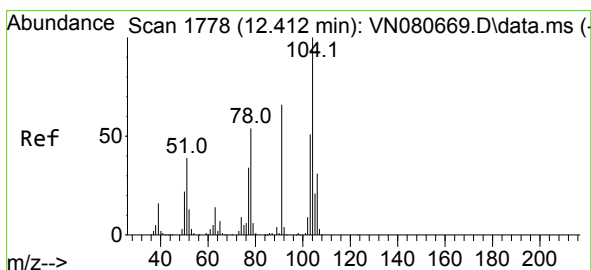
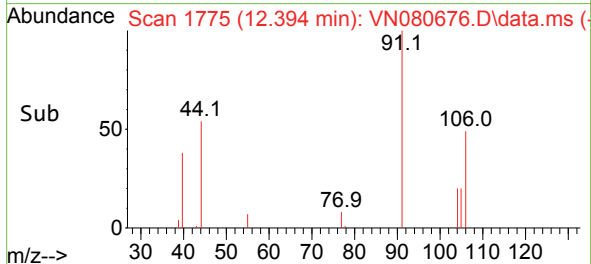
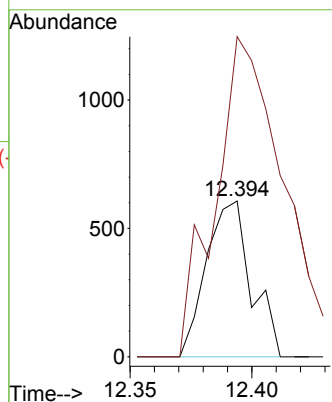
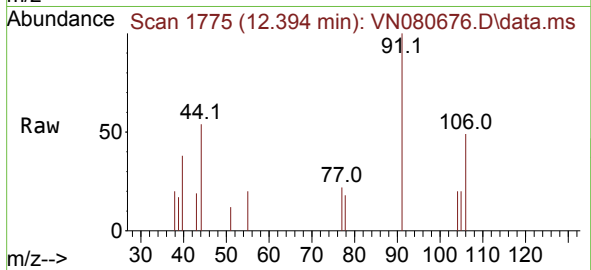




#68
o-Xylene
Concen: 0.267 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.006 min
Lab File: VN080676.D
Acq: 11 Jan 2024 15:16

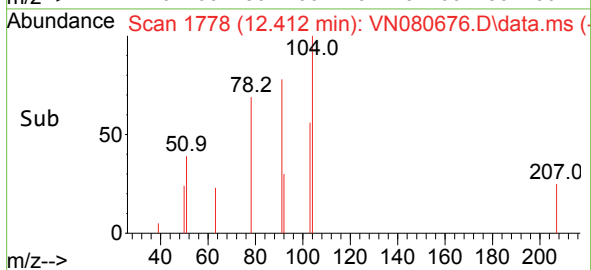
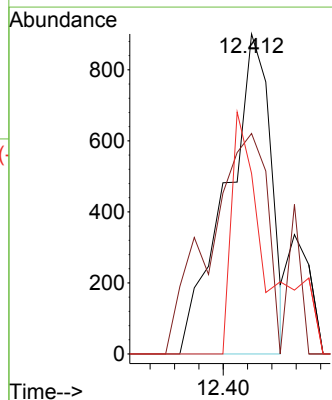
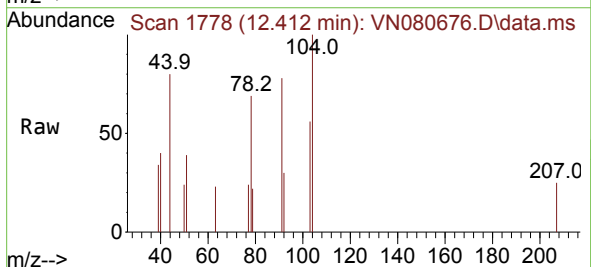
Instrument :
MSVOA_N
ClientSampleId :

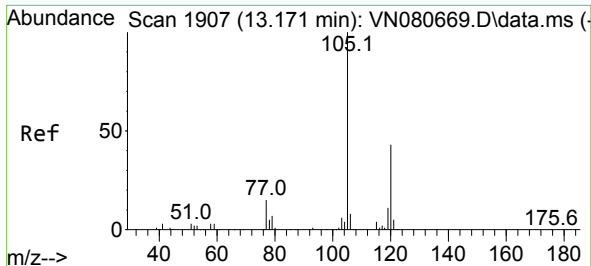
Tgt Ion:106 Resp: 778
Ion Ratio Lower Upper
106 100
91 307.3 110.0 330.0



#69
Styrene
Concen: 0.235 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN080676.D
Acq: 11 Jan 2024 15:16

Tgt Ion:104 Resp: 1150
Ion Ratio Lower Upper
104 100
78 66.2 42.6 64.0#
103 41.8 43.7 65.5#

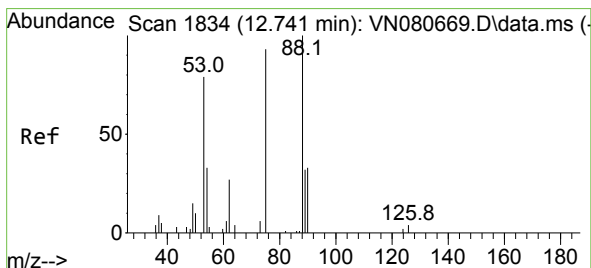
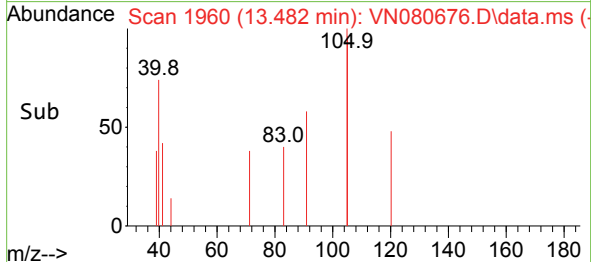
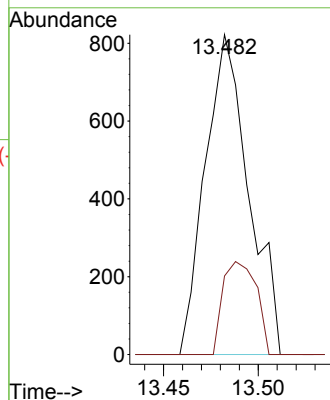
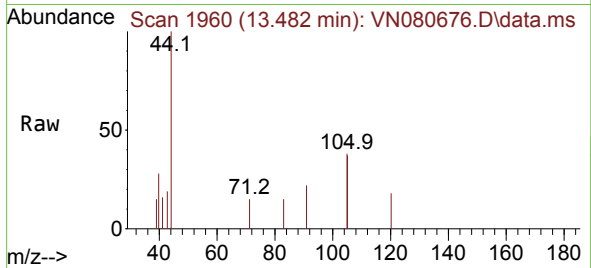




#76
1,3,5-Trimethylbenzene
Concen: 0.222 ug/l
RT: 13.482 min Scan# 1907
Delta R.T. 0.311 min
Lab File: VN080676.D
Acq: 11 Jan 2024 15:16

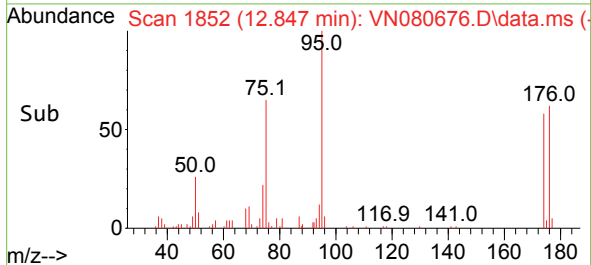
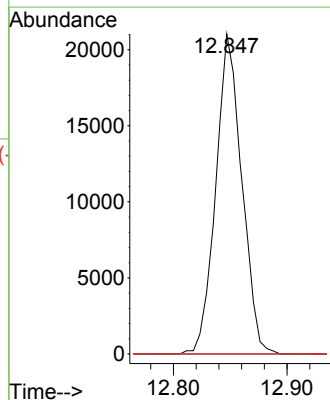
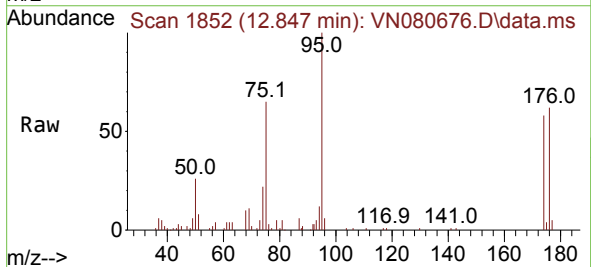
Instrument :
MSVOA_N
ClientSampleId :

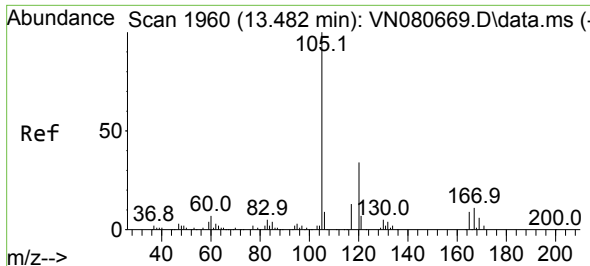
Tgt Ion:105 Resp: 1312
Ion Ratio Lower Upper
105 100
120 22.4 0.0 95.8



#77
t-1,4-Dichloro-2-butene
Concen: 37.068 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.106 min
Lab File: VN080676.D
Acq: 11 Jan 2024 15:16

Tgt Ion: 75 Resp: 33418
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.7#
89 0.0 25.9 77.7#

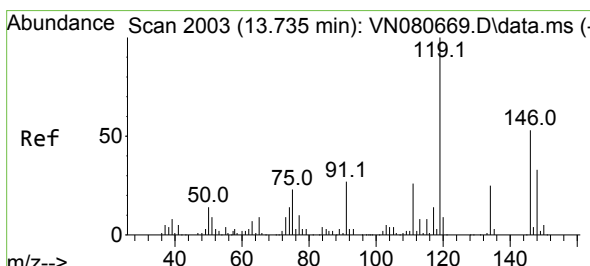
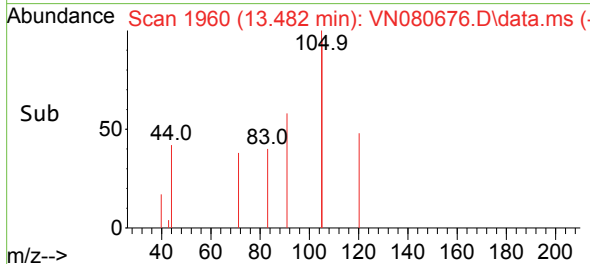
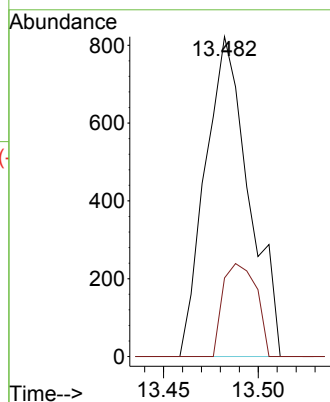
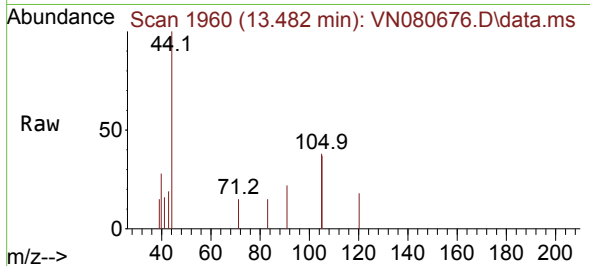




#80
1,2,4-Trimethylbenzene
Concen: 0.227 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN080676.D
Acq: 11 Jan 2024 15:16

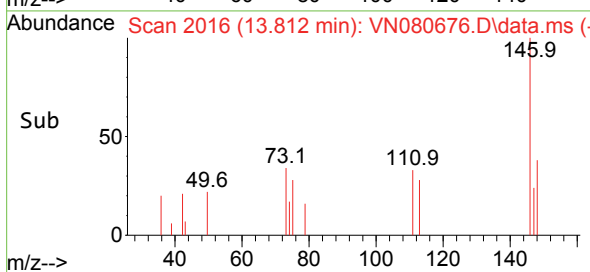
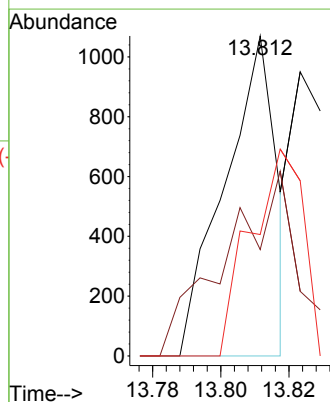
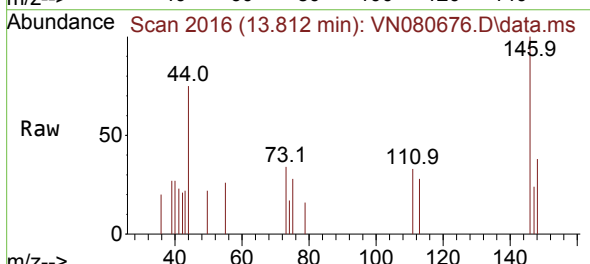
Instrument :
MSVOA_N
ClientSampleId :

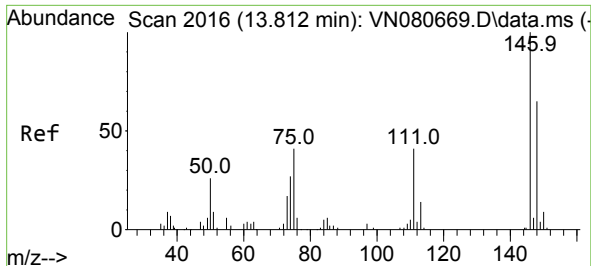
Tgt Ion:105 Resp: 1312
Ion Ratio Lower Upper
105 100
120 22.4 0.0 86.8



#83
1,3-Dichlorobenzene
Concen: 0.434 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.077 min
Lab File: VN080676.D
Acq: 11 Jan 2024 15:16

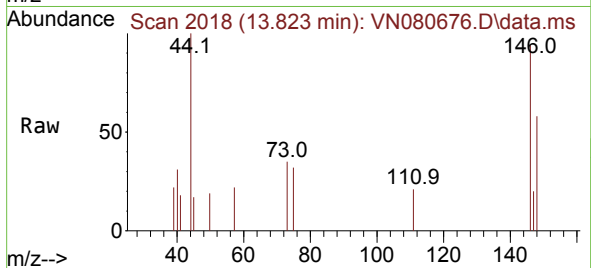
Tgt Ion:146 Resp: 1142
Ion Ratio Lower Upper
146 100
111 21.5 22.4 67.0#
148 10.3 32.1 96.5#



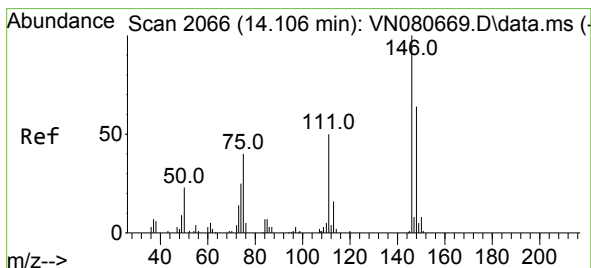
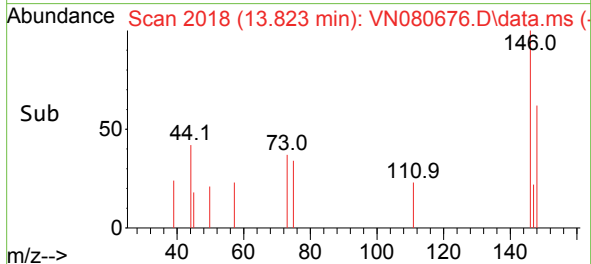
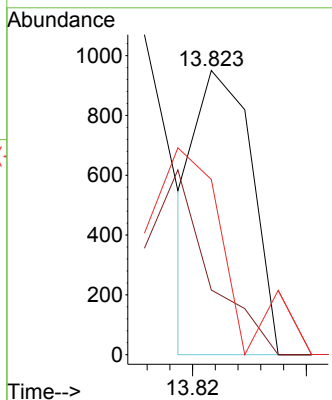


#84
1,4-Dichlorobenzene
Concen: 0.236 ug/l
RT: 13.823 min Scan# 2016
Delta R.T. 0.011 min
Lab File: VN080676.D
Acq: 11 Jan 2024 15:16

Instrument :
MSVOA_N
ClientSampleId :

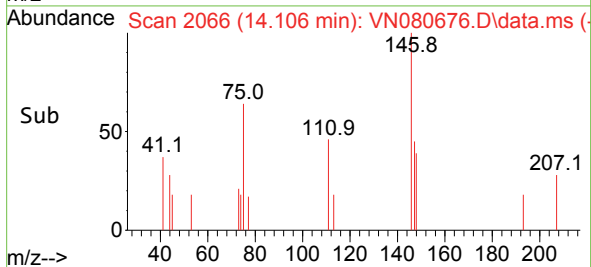
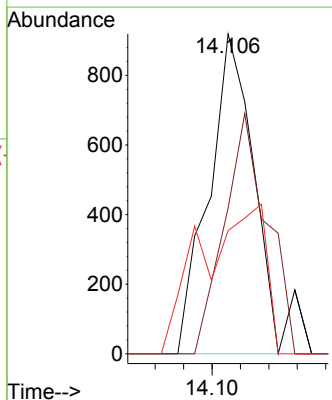
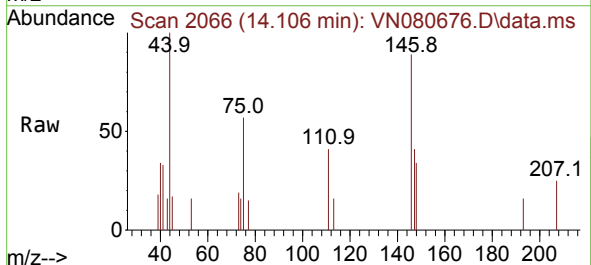


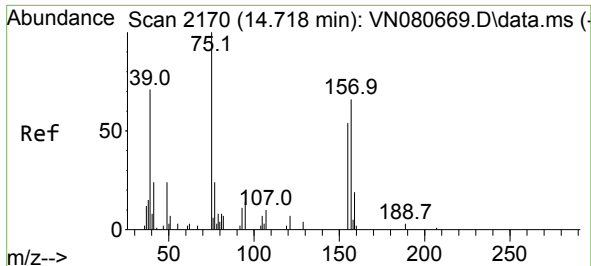
Tgt Ion:146 Resp: 624
Ion Ratio Lower Upper
146 100
111 104.0 21.3 63.9#
148 118.9 31.9 95.5#



#87
1,2-Dichlorobenzene
Concen: 0.385 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN080676.D
Acq: 11 Jan 2024 15:16

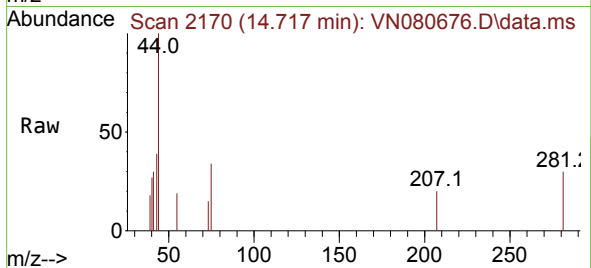
Tgt Ion:146 Resp: 994
Ion Ratio Lower Upper
146 100
111 72.6 22.6 67.8#
148 41.6 31.3 93.8



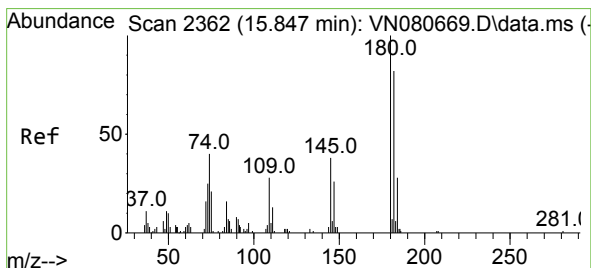
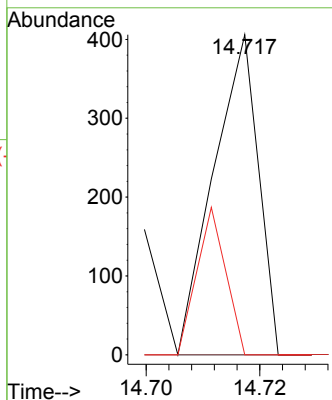
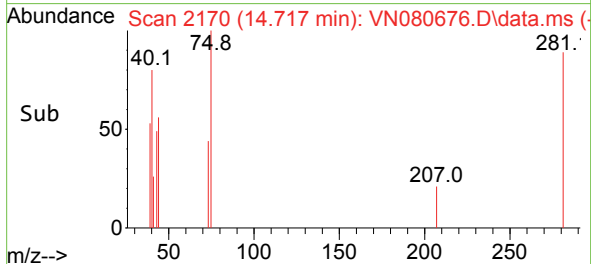


#88
1,2-Dibromo-3-Chloropropane
Concen: 0.460 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.001 min
Lab File: VN080676.D
Acq: 11 Jan 2024 15:16

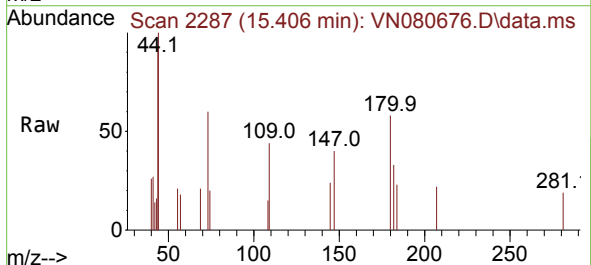
Instrument :
MSVOA_N
ClientSampleId :



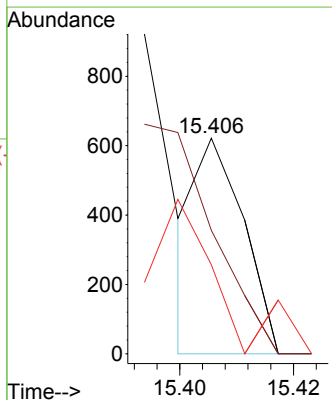
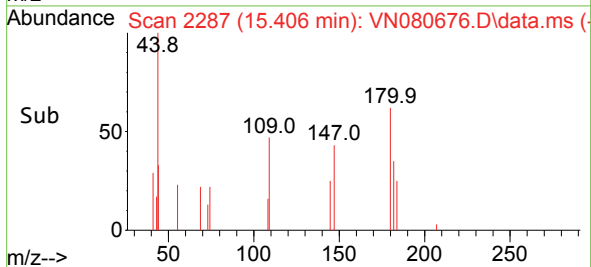
Tgt Ion: 75 Resp: 222
Ion Ratio Lower Upper
75 100
155 0.0 61.7 92.5#
157 0.0 83.6 125.4#

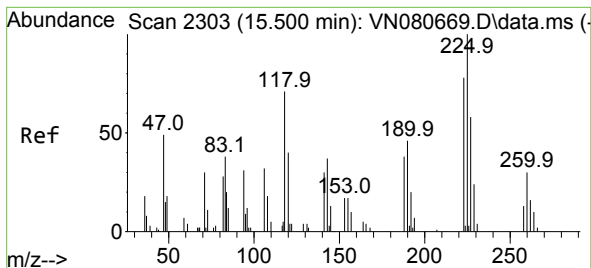


#89
1,2,4-Trichlorobenzene
Concen: 0.274 ug/l
RT: 15.406 min Scan# 2287
Delta R.T. -0.441 min
Lab File: VN080676.D
Acq: 11 Jan 2024 15:16



Tgt Ion: 180 Resp: 355
Ion Ratio Lower Upper
180 100
182 0.0 76.4 114.6#
145 90.4 28.4 42.6#





#90

Hexachlorobutadiene

Concen: 1.752 ug/l

RT: 15.494 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN080676.D

Acq: 11 Jan 2024 15:16

Instrument :

MSVOA_N

ClientSampleId :

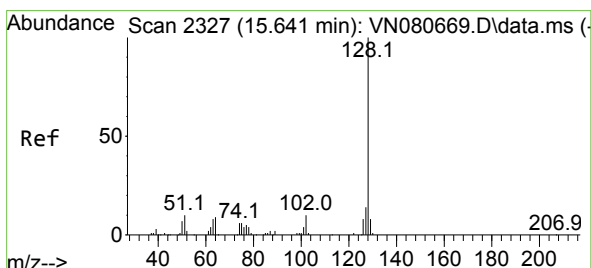
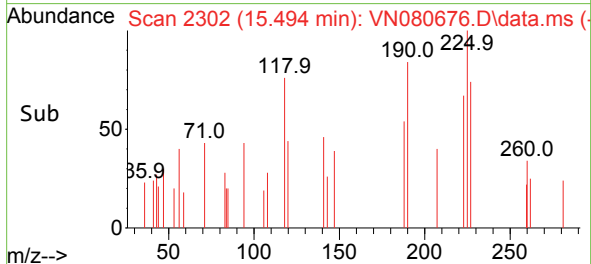
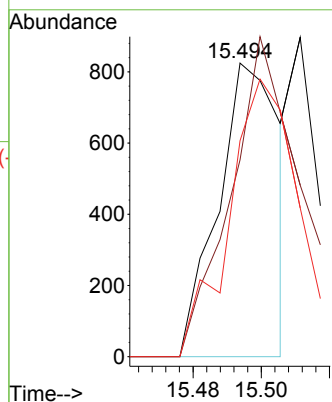
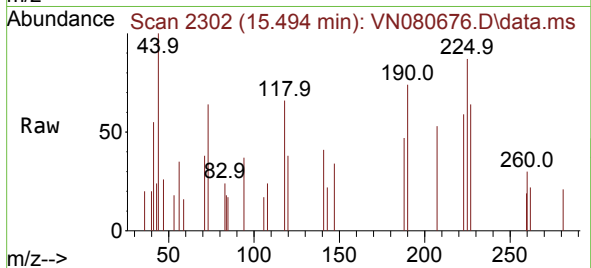
Tgt Ion:225 Resp: 1038

Ion Ratio Lower Upper

225 100

223 130.4 0.0 126.6#

227 109.4 0.0 126.6



#91

Naphthalene

Concen: 1.213 ug/l

RT: 15.647 min Scan# 2328

Delta R.T. 0.006 min

Lab File: VN080676.D

Acq: 11 Jan 2024 15:16

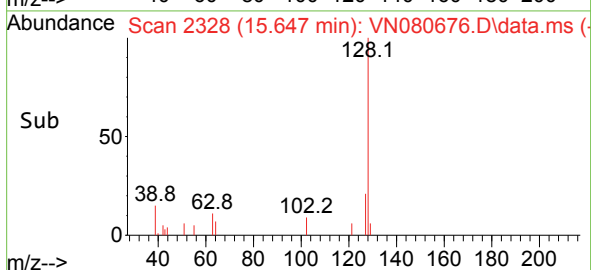
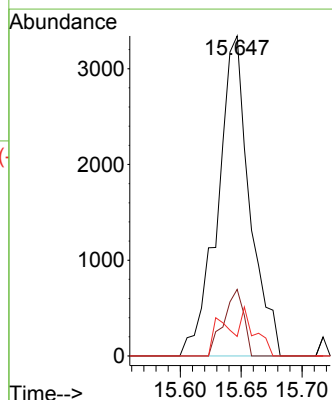
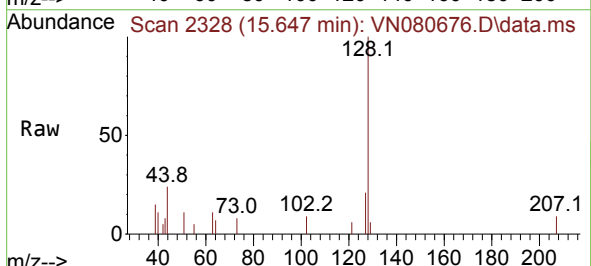
Tgt Ion:128 Resp: 6117

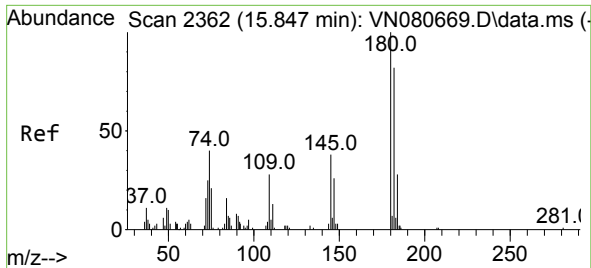
Ion Ratio Lower Upper

128 100

127 12.9 10.6 16.0

129 4.2 8.6 13.0#





#92

1,2,3-Trichlorobenzene

Concen: 0.878 ug/l

RT: 15.394 min Scan# 21

Delta R.T. -0.453 min

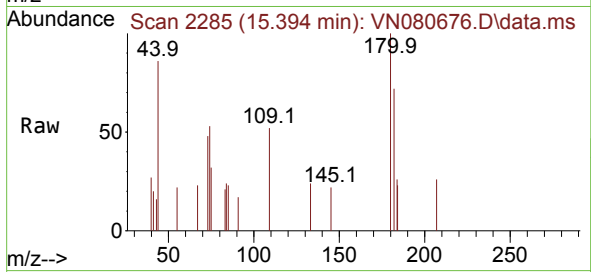
Lab File: VN080676.D

Acq: 11 Jan 2024 15:16

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:180 Resp: 1136

Ion Ratio Lower Upper

180 100

182 105.0 0.0 191.0

145 6.1 0.0 71.0

