

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071723\
 Data File : VN078539.D
 Acq On : 17 Jul 2023 13:35
 Operator : JC\MD
 Sample : 03645-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RINSATE-BLANK

Quant Time: Jul 18 04:22:05 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 10 16:13:53 2023
 Response via : Initial Calibration

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

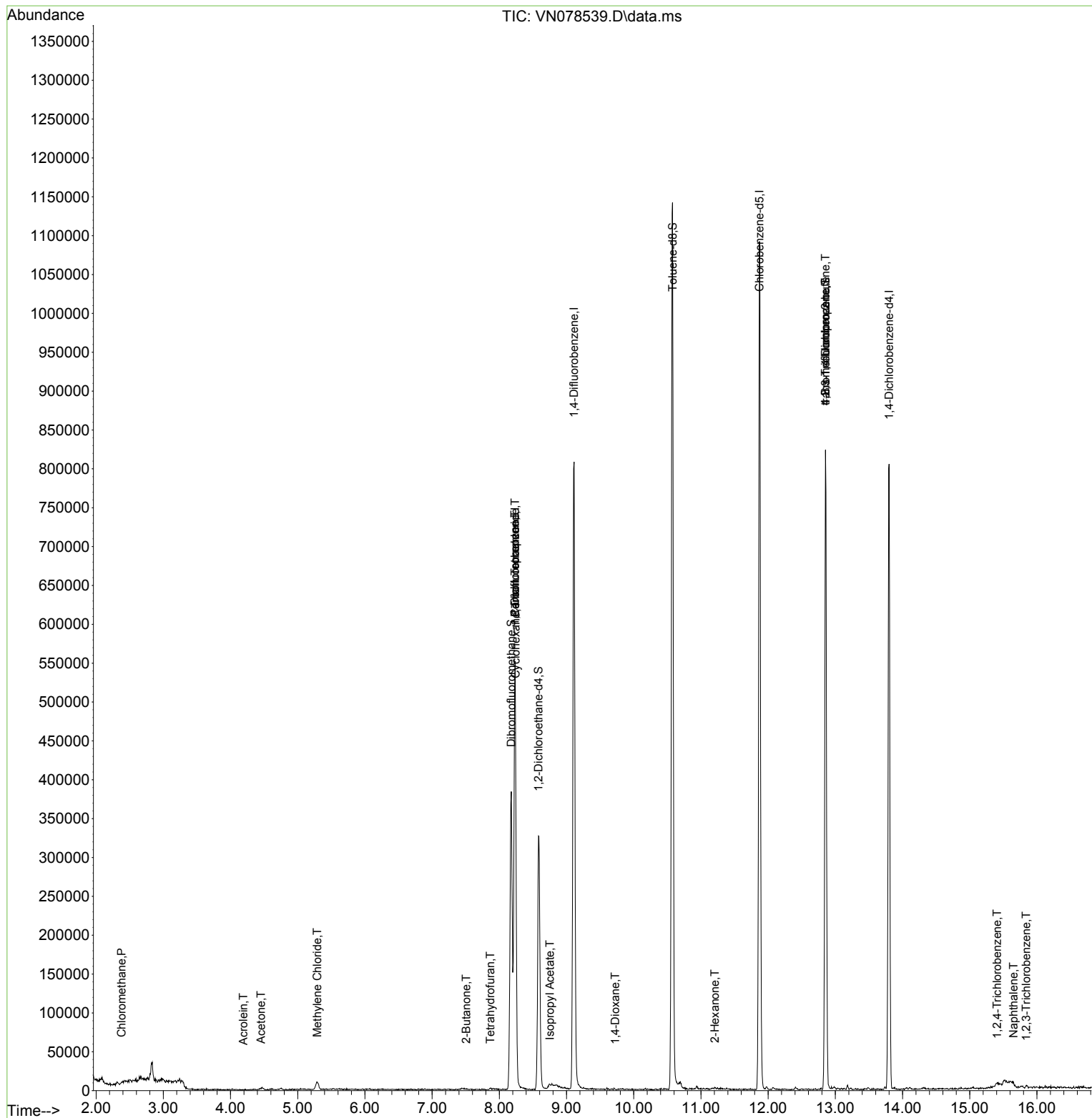
Internal Standards						
1) Pentafluorobenzene	8.236	168	408433	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	725801	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	658560	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	222613	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	271359	49.559	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.120%		
35) Dibromofluoromethane	8.177	113	275032	55.822	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	111.640%		
50) Toluene-d8	10.577	98	845564	45.430	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	90.860%		
62) 4-Bromofluorobenzene	12.853	95	289498	50.496	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	101.000%		
Target Compounds						Qvalue
3) Chloromethane	2.377	50	1937	0.356	ug/l #	86
5) Bromomethane	2.983	94	2303	Below Cal	#	38
6) Chloroethane	3.142	64	788	Below Cal	#	43
13) Acrolein	4.189	56	178	0.214	ug/l #	14
16) Acetone	4.454	43	1901	1.115	ug/l	89
20) Methylene Chloride	5.289	84	7549	0.328	ug/l #	80
25) 2-Butanone	7.506	43	691	0.257	ug/l #	37
29) Tetrahydrofuran	7.865	42	838	0.476	ug/l #	60
31) Cyclohexane	8.242	56	9010	1.218	ug/l #	67
36) 1,1-Dichloropropene	8.230	75	32960	4.633	ug/l #	48
38) Carbon Tetrachloride	8.236	117	42707	5.523	ug/l #	17
43) Isopropyl Acetate	8.753	43	5096	0.522	ug/l #	49
49) 1,4-Dioxane	9.724	88	63	0.639	ug/l #	1
59) 2-Hexanone	11.206	43	1348	0.327	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.953	83	572	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	151835	28.218	ug/l #	1
77) Bromobenzene	12.988	156	440	Below Cal	#	75
81) trans-1,4-Dichloro-2-b...	12.853	75	151835	74.151	ug/l #	15
90) Hexachloroethane	14.335	117	88	Below Cal	#	21
92) 1,2-Dibromo-3-Chloropr...	14.541	75	67	Below Cal	#	4
93) 1,2,4-Trichlorobenzene	15.406	180	1054	0.413	ug/l	58
94) Hexachlorobutadiene	15.506	225	548	Below Cal	#	56
95) Naphthalene	15.653	128	3223	0.370	ug/l #	83
96) 1,2,3-Trichlorobenzene	15.841	180	1006	0.343	ug/l #	83

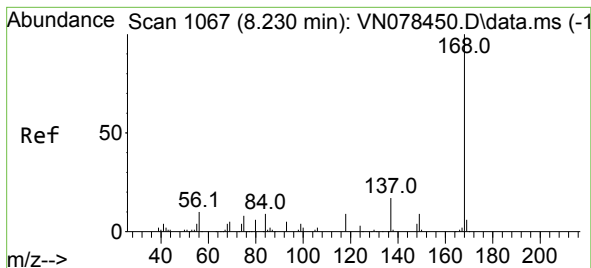
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.236 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN078539.D

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Instrument :

MSVOA_N

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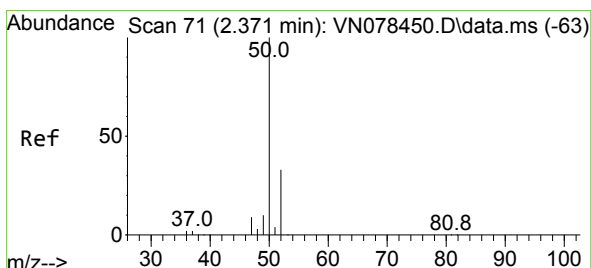
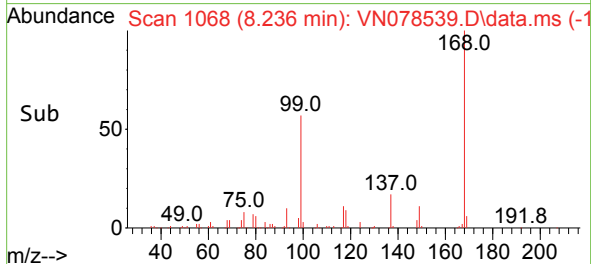
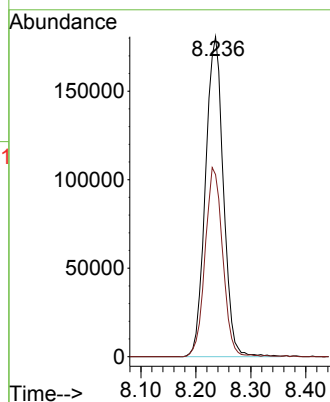
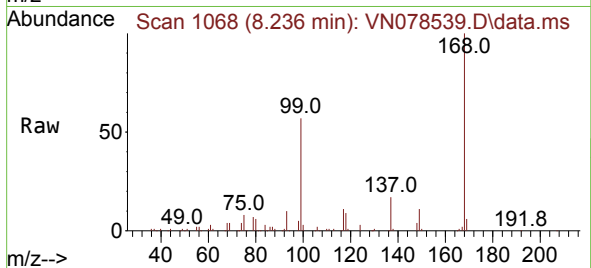
RINSATE-BLANK

Tgt Ion:168 Resp: 408433

Ion Ratio Lower Upper

168 100

99 56.9 53.0 79.6



#3

Chloromethane

Concen: 0.356 ug/l

RT: 2.377 min Scan# 72

Delta R.T. 0.006 min

Lab File: VN078539.D

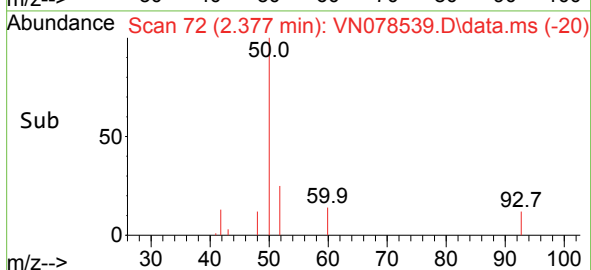
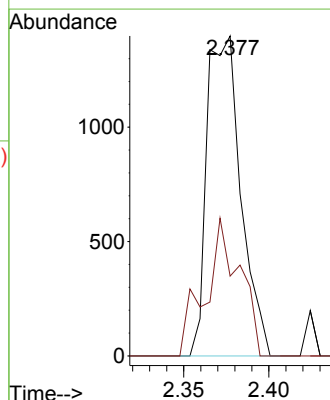
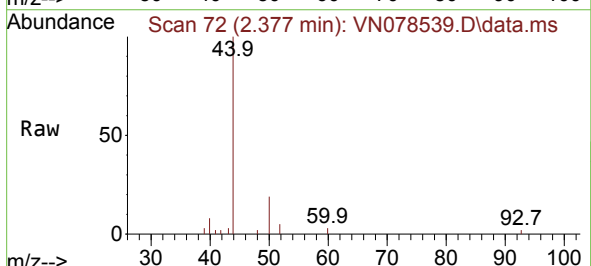
Acq: 17 Jul 2023 13:35

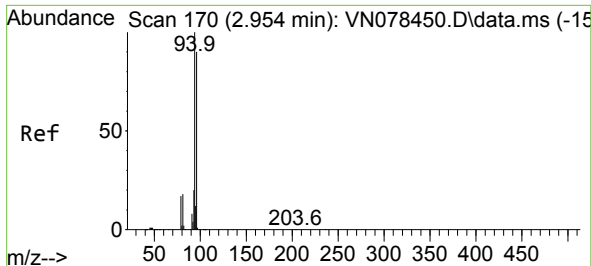
Tgt Ion: 50 Resp: 1937

Ion Ratio Lower Upper

50 100

52 24.9 26.5 39.7#

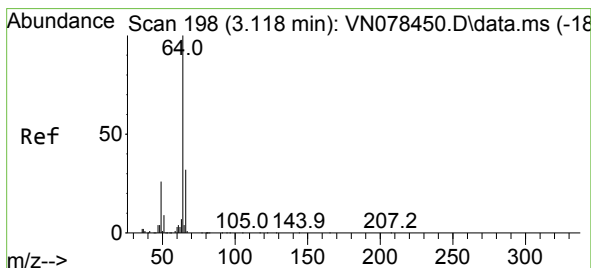
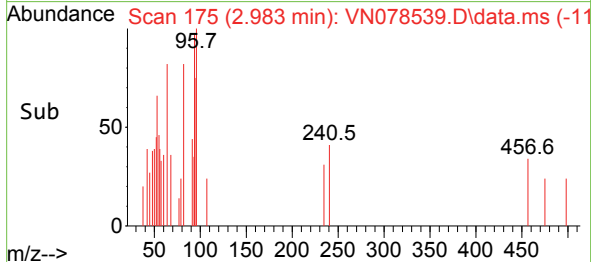
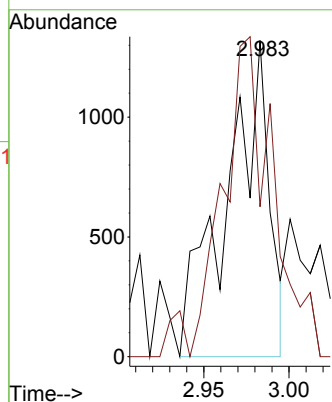
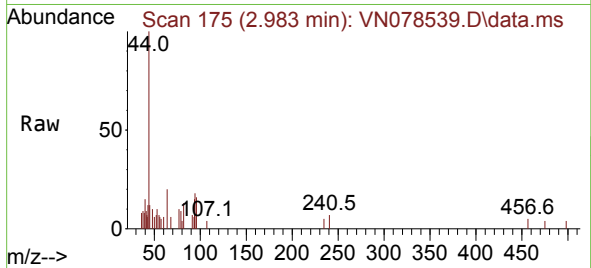




#5
Bromomethane
Concen: Below Cal
RT: 2.983 min Scan# 11
Delta R.T. 0.029 min
Lab File: VN078539.D
Acq: 17 Jul 2023 13:35

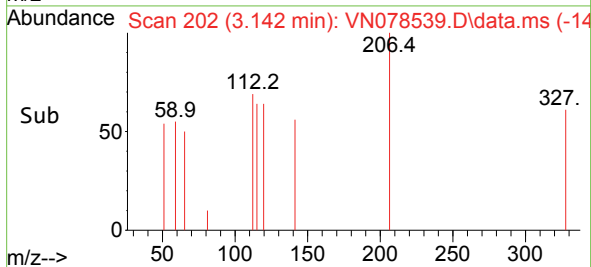
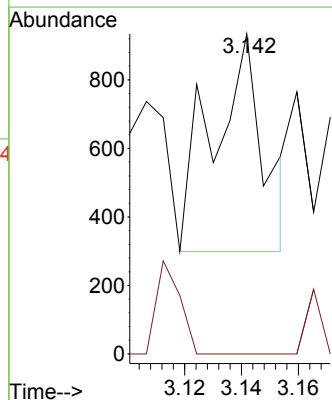
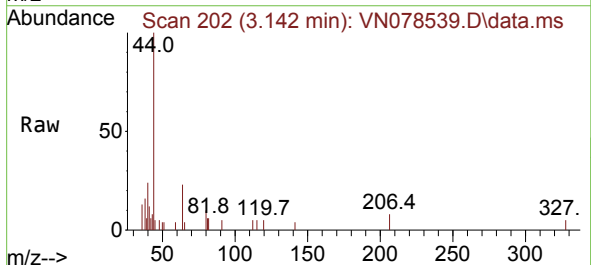
Instrument :
MSVOA_N
ClientSampleId :
RINSATE-BLANK

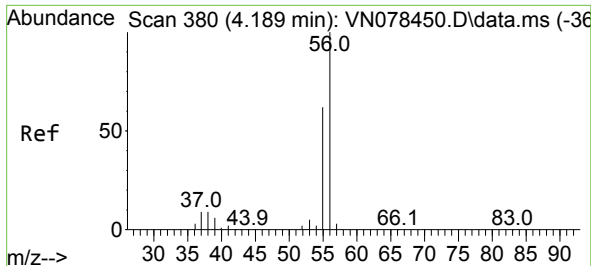
Tgt Ion: 94 Resp: 2303
Ion Ratio Lower Upper
94 100
96 32.9 73.1 109.7#



#6
Chloroethane
Concen: Below Cal
RT: 3.142 min Scan# 202
Delta R.T. 0.024 min
Lab File: VN078539.D
Acq: 17 Jul 2023 13:35

Tgt Ion: 64 Resp: 788
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

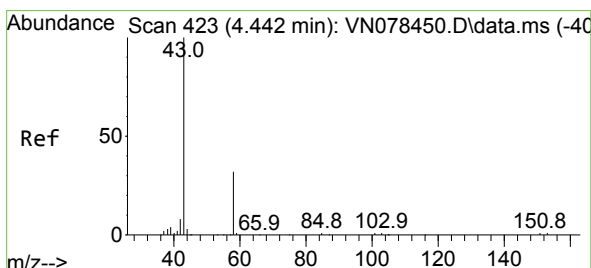
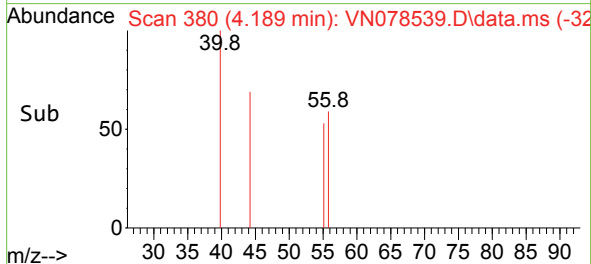
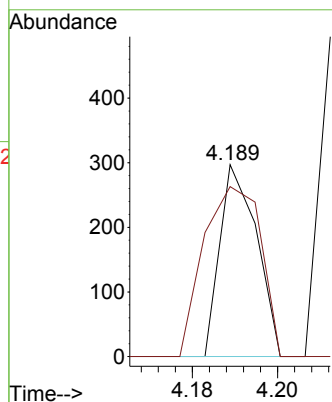
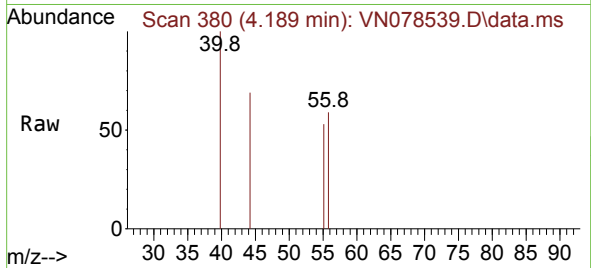




#13
Acrolein
Concen: 0.214 ug/l
RT: 4.189 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN078539.D
Acq: 17 Jul 2023 13:35

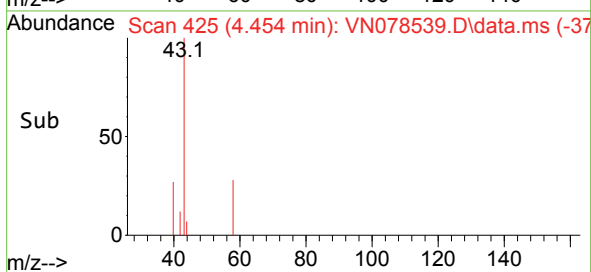
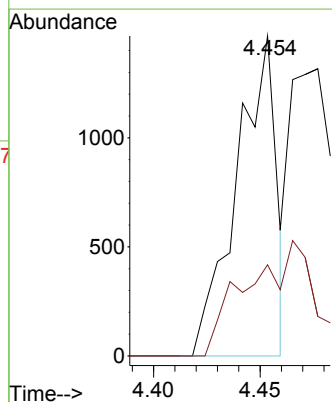
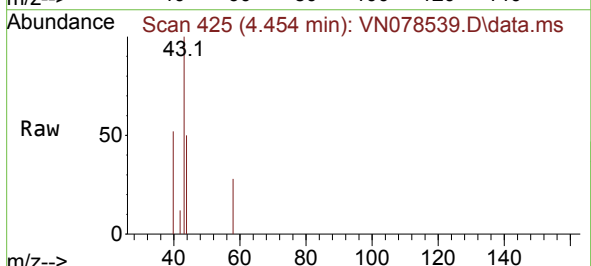
Instrument :
MSVOA_N
ClientSampleId :
RINSATE-BLANK

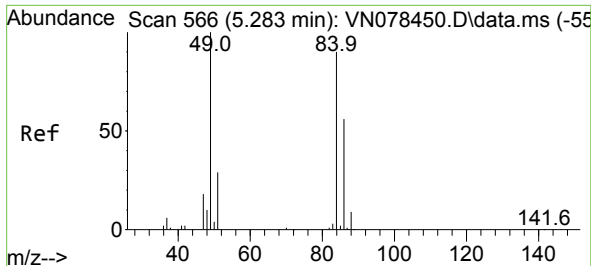
Tgt Ion: 56 Resp: 178
Ion Ratio Lower Upper
56 100
55 137.6 54.5 81.7#



#16
Acetone
Concen: 1.115 ug/l
RT: 4.454 min Scan# 425
Delta R.T. 0.012 min
Lab File: VN078539.D
Acq: 17 Jul 2023 13:35

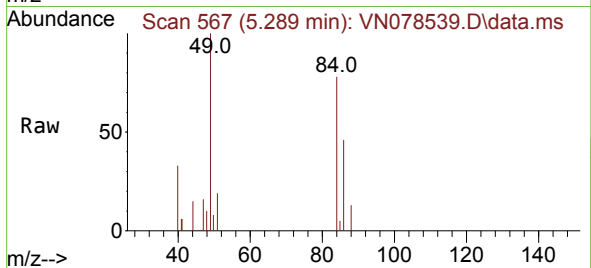
Tgt Ion: 43 Resp: 1901
Ion Ratio Lower Upper
43 100
58 28.5 28.0 42.0



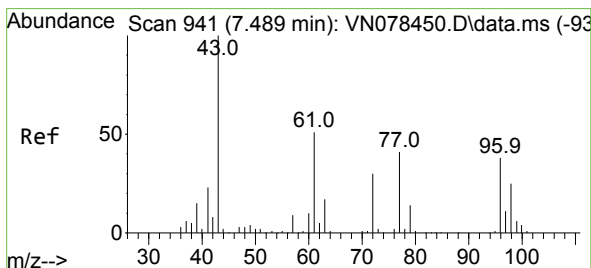
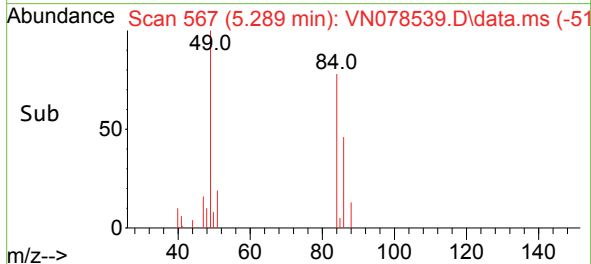
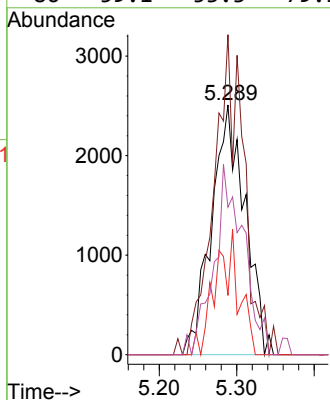


#20
Methylene Chloride
Concen: 0.328 ug/l
RT: 5.289 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN078539.D
Acq: 17 Jul 2023 13:35

Instrument :
MSVOA_N
ClientSampleId :
RINSATE-BLANK

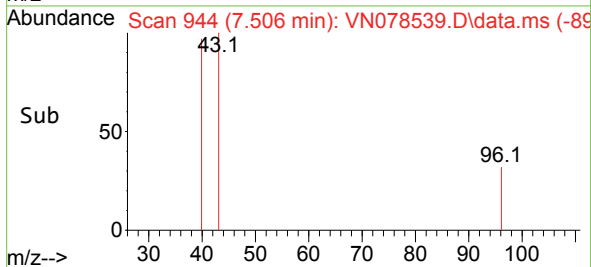
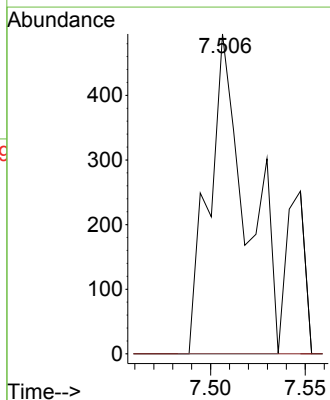
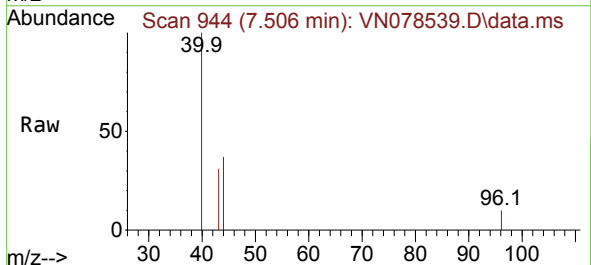


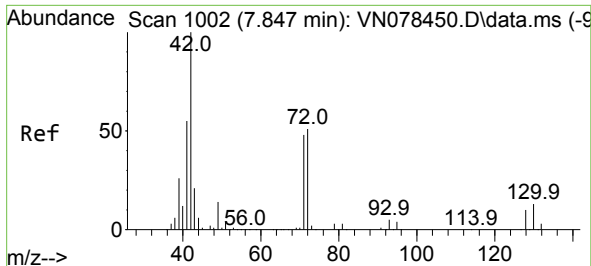
Tgt Ion: 84 Resp: 7549
Ion Ratio Lower Upper
84 100
49 128.1 79.7 119.5#
51 23.7 25.2 37.8#
86 59.1 53.3 79.9



#25
2-Butanone
Concen: 0.257 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.017 min
Lab File: VN078539.D
Acq: 17 Jul 2023 13:35

Tgt Ion: 43 Resp: 691
Ion Ratio Lower Upper
43 100
72 0.0 30.2 45.2#

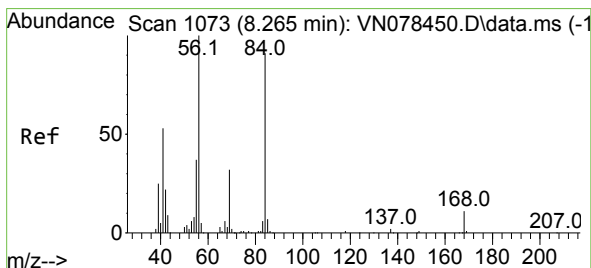
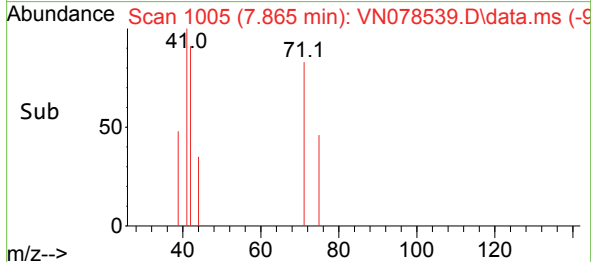
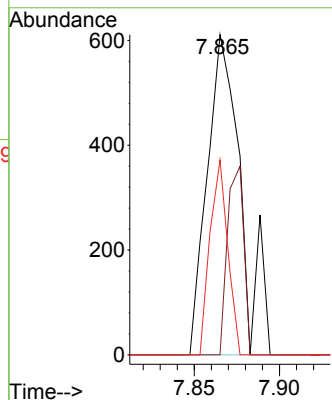
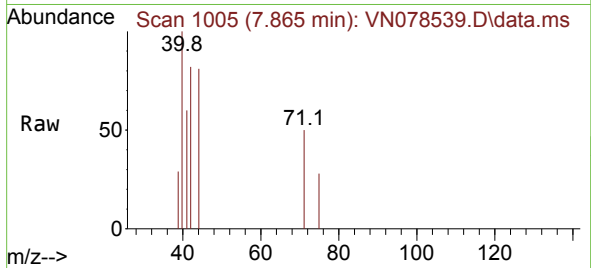




#29
Tetrahydrofuran
Concen: 0.476 ug/l
RT: 7.865 min Scan# 1005
Delta R.T. 0.018 min
Lab File: VN078539.D
Acq: 17 Jul 2023 13:35

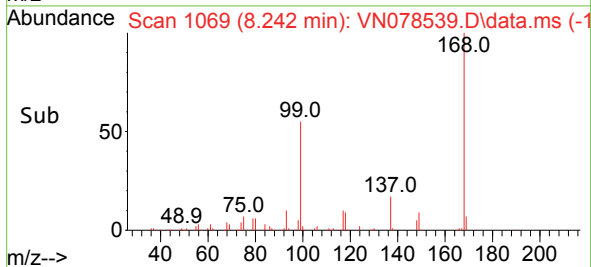
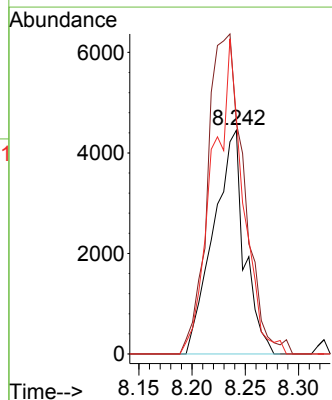
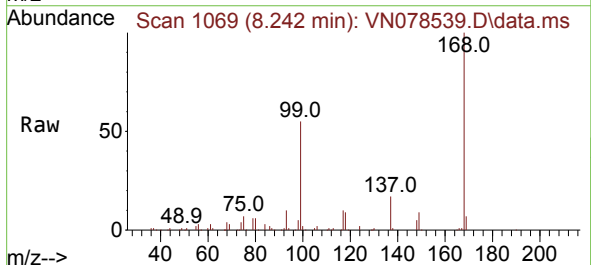
Instrument :
MSVOA_N
ClientSampleId :
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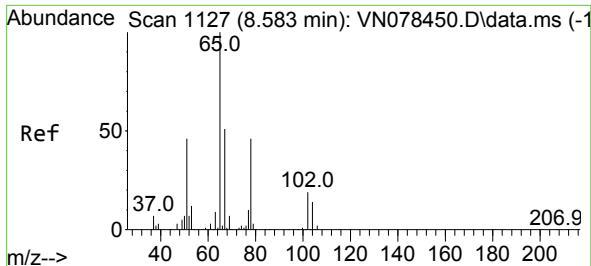
Tgt Ion: 42 Resp: 838
Ion Ratio Lower Upper
42 100
72 28.5 49.8 74.6#
71 32.1 47.4 71.2#



#31
Cyclohexane
Concen: 1.218 ug/l
RT: 8.242 min Scan# 1069
Delta R.T. -0.024 min
Lab File: VN078539.D
Acq: 17 Jul 2023 13:35

Tgt Ion: 56 Resp: 9010
Ion Ratio Lower Upper
56 100
69 103.3 26.8 40.2#
84 105.7 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 49.559 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN078539.D

Acq: 17 Jul 2023 13:35

Instrument :

MSVOA_N

ClientSampleId :

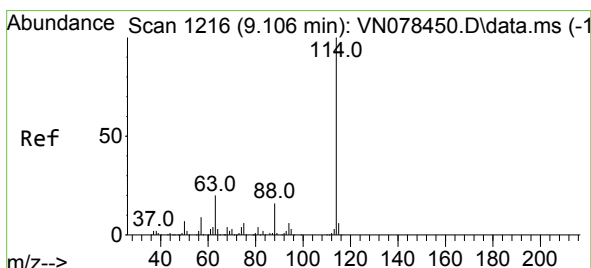
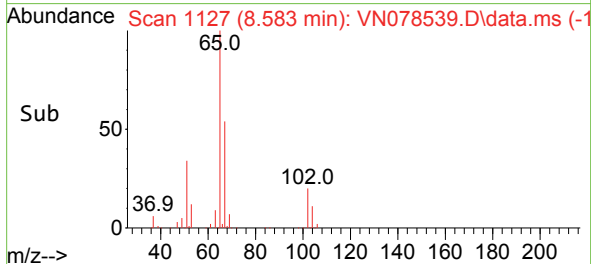
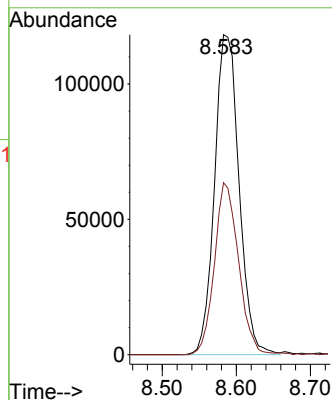
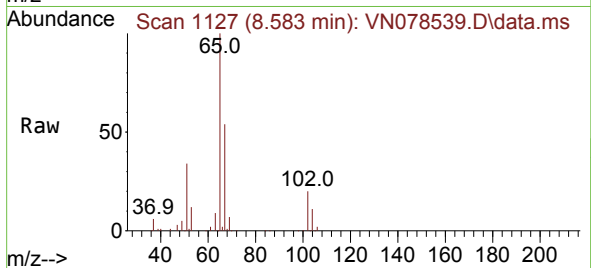
RINSATE-BLANK

Tgt Ion: 65 Resp: 271359

Ion Ratio Lower Upper

65 100

67 53.1 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1217

Delta R.T. 0.006 min

Lab File: VN078539.D

Acq: 17 Jul 2023 13:35

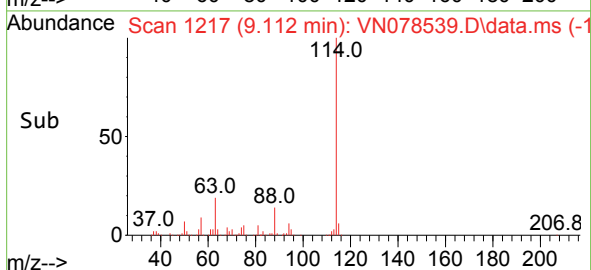
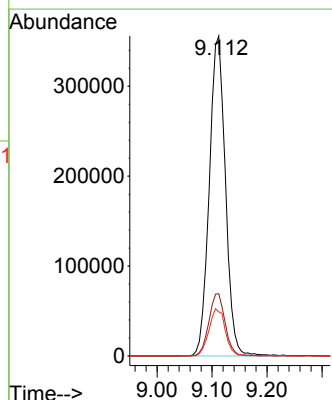
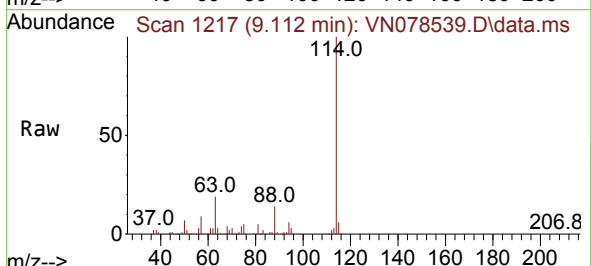
Tgt Ion: 114 Resp: 725801

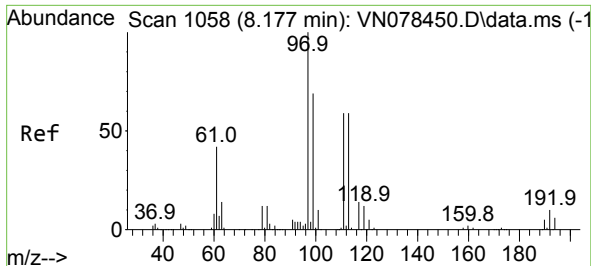
Ion Ratio Lower Upper

114 100

63 19.4 0.0 36.4

88 13.8 0.0 30.6

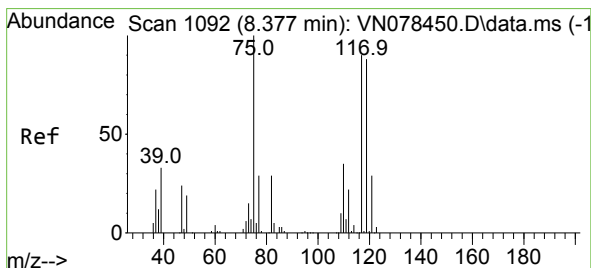
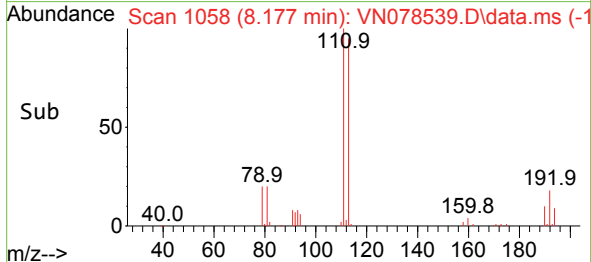
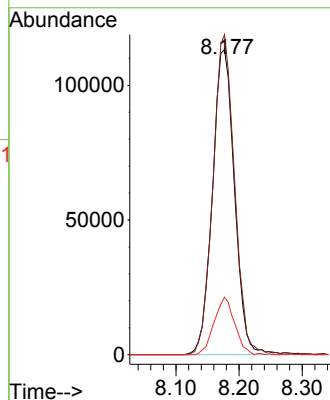
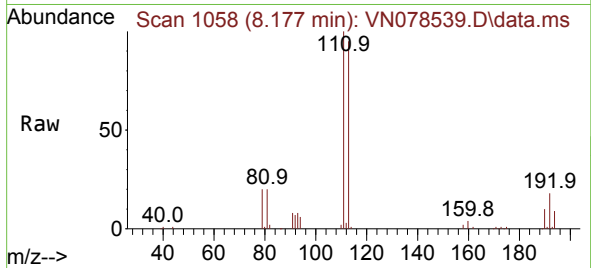




#35
Dibromofluoromethane
Concen: 55.822 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078539.D
Acq: 17 Jul 2023 13:35

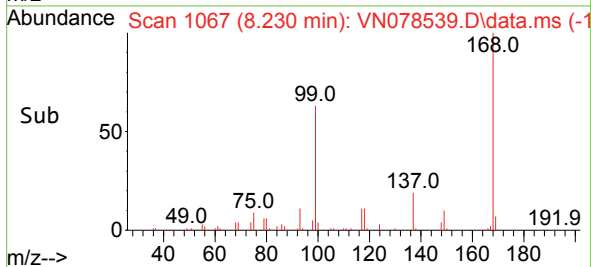
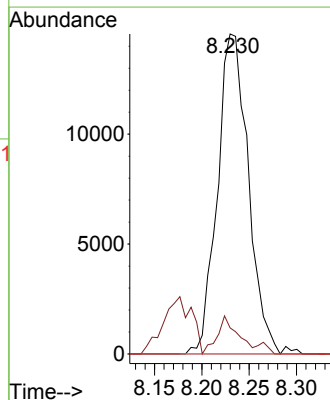
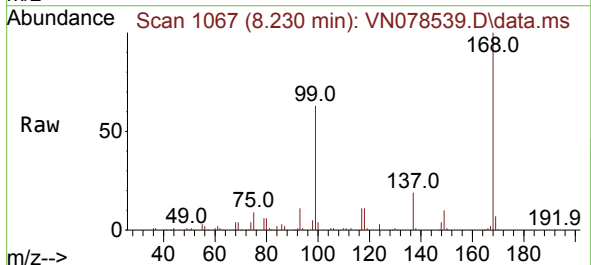
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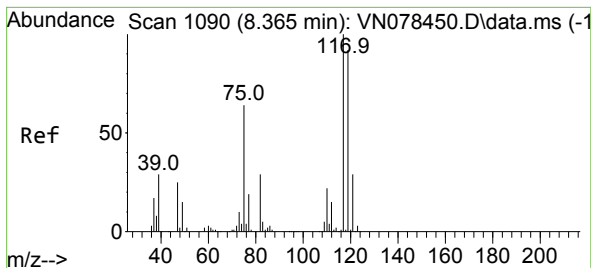
Tgt Ion:113 Resp: 275032
Ion Ratio Lower Upper
113 100
111 103.1 82.6 123.8
192 17.6 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.633 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN078539.D
Acq: 17 Jul 2023 13:35

Tgt Ion: 75 Resp: 32960
Ion Ratio Lower Upper
75 100
110 8.7 19.1 57.3#
77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.523 ug/l

RT: 8.236 min Scan# 1106

Delta R.T. -0.129 min

Lab File: VN078539.D

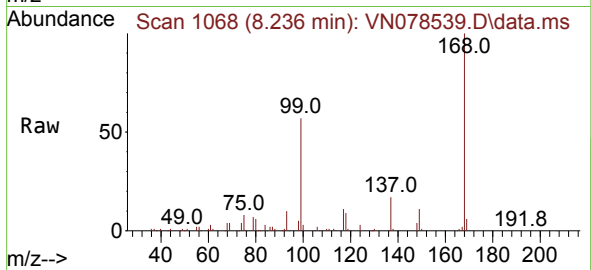
Acq: 17 Jul 2023 13:35

Instrument :

MSVOA_N

ClientSampleId :

RINSATE-BLANK



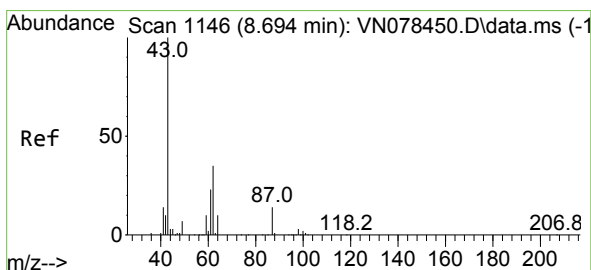
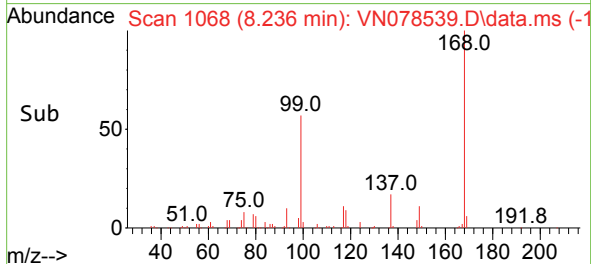
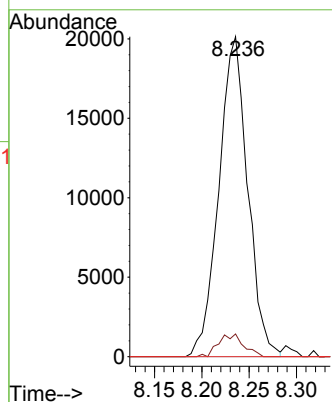
Tgt Ion:117 Resp: 42707

Ion Ratio Lower Upper

117 100

119 7.1 77.3 115.9#

121 0.0 23.3 34.9#



#43

Isopropyl Acetate

Concen: 0.522 ug/l

RT: 8.753 min Scan# 1156

Delta R.T. 0.059 min

Lab File: VN078539.D

Acq: 17 Jul 2023 13:35

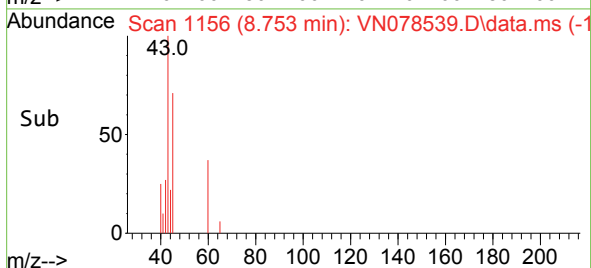
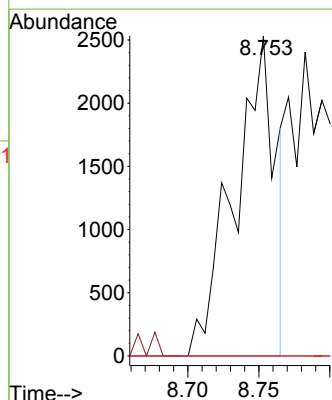
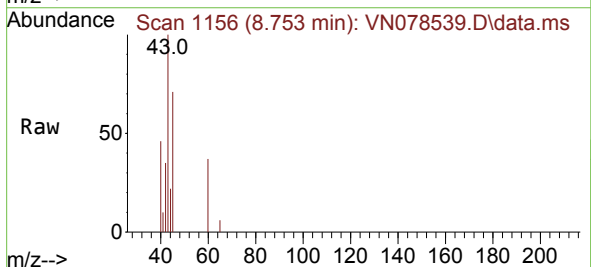
Tgt Ion: 43 Resp: 5096

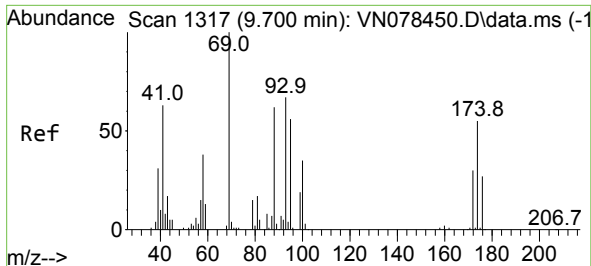
Ion Ratio Lower Upper

43 100

61 0.0 24.7 37.1#

87 0.0 14.6 21.8#





#49

1,4-Dioxane

Concen: 0.639 ug/l

RT: 9.724 min Scan# 1

Delta R.T. 0.024 min

Lab File: VN078539.D

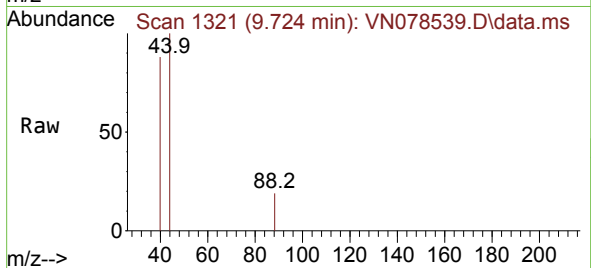
Acq: 17 Jul 2023 13:35

Instrument :

MSVOA_N

ClientSampleId :

RINSATE-BLANK



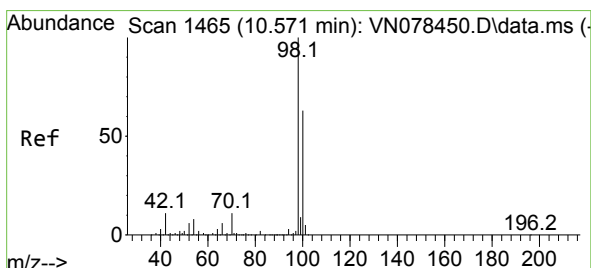
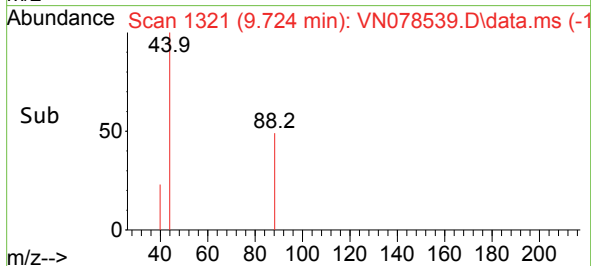
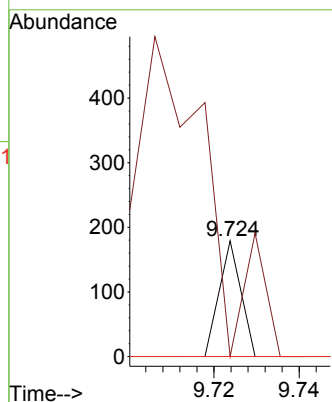
Tgt Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 1027.0 17.0 25.6#

58 0.0 47.0 70.4#



#50

Toluene-d8

Concen: 45.430 ug/l

RT: 10.577 min Scan# 1466

Delta R.T. 0.006 min

Lab File: VN078539.D

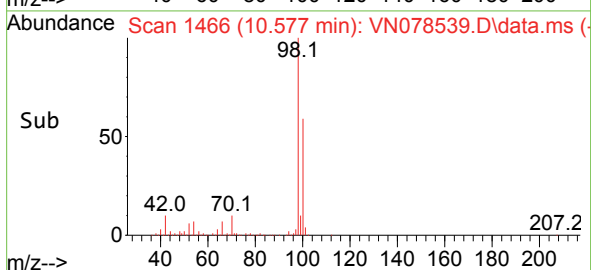
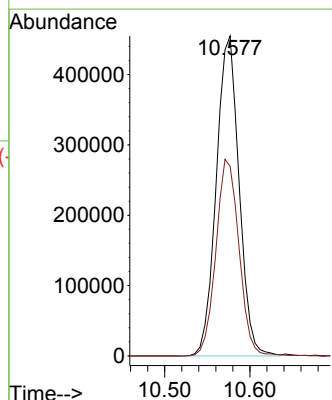
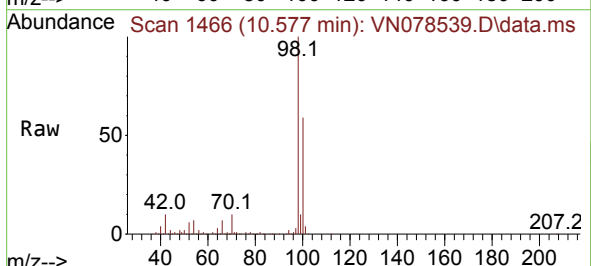
Acq: 17 Jul 2023 13:35

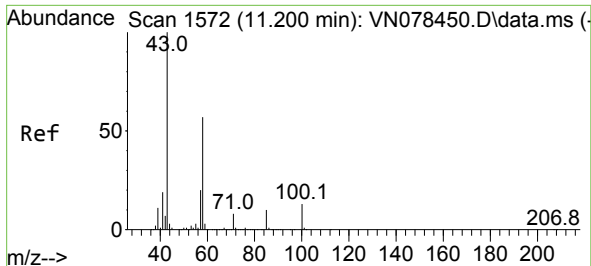
Tgt Ion: 98 Resp: 845564

Ion Ratio Lower Upper

98 100

100 62.3 52.0 78.0

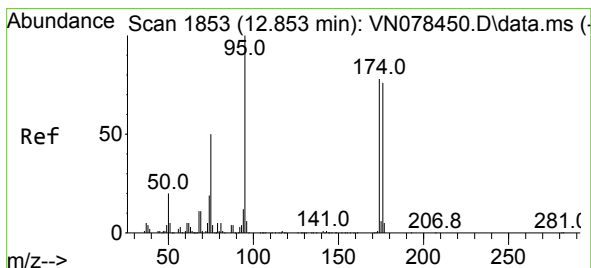
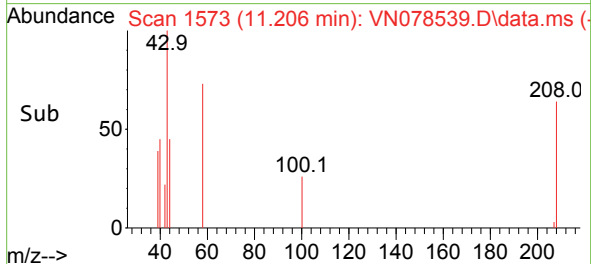
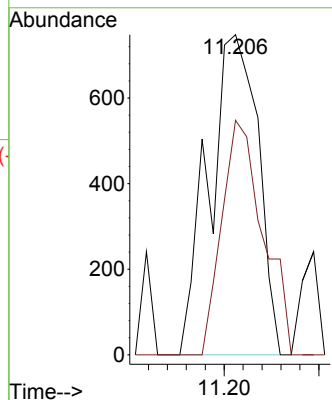
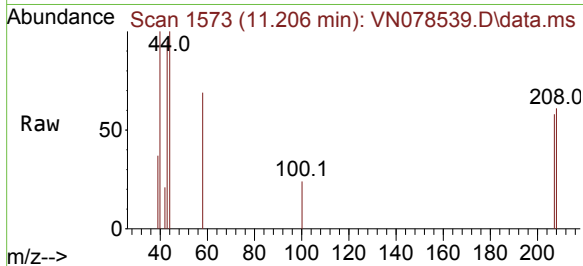




#59
2-Hexanone
Concen: 0.327 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN078539.D
Acq: 17 Jul 2023 13:35

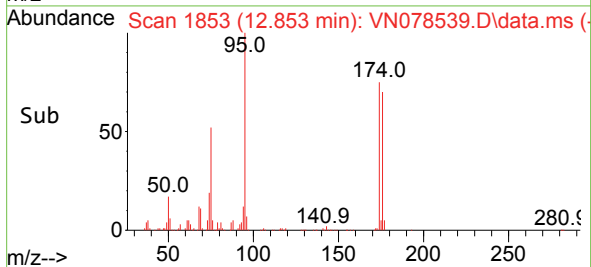
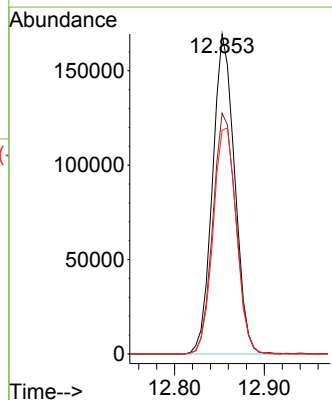
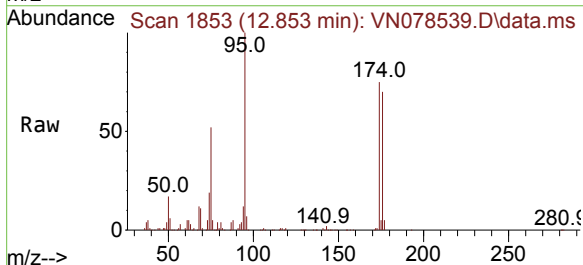
Instrument :
MSVOA_N
ClientSampleId :
RINSATE-BLANK

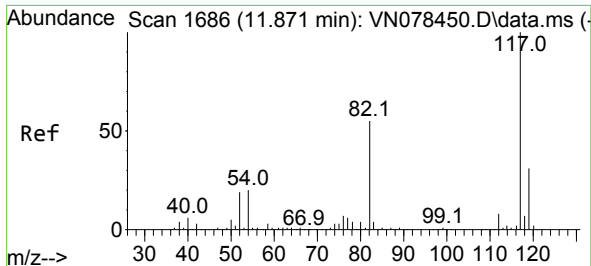
Tgt Ion: 43 Resp: 1348
Ion Ratio Lower Upper
43 100
58 61.6 31.7 95.1



#62
4-Bromofluorobenzene
Concen: 50.496 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078539.D
Acq: 17 Jul 2023 13:35

Tgt Ion: 95 Resp: 289498
Ion Ratio Lower Upper
95 100
174 78.7 0.0 143.8
176 74.6 0.0 135.8

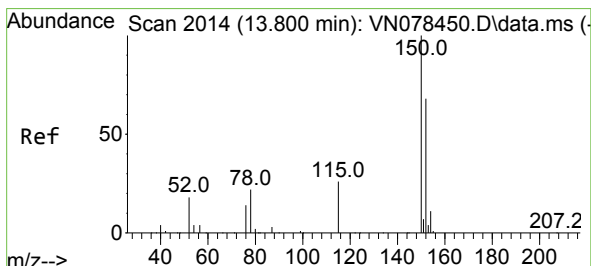
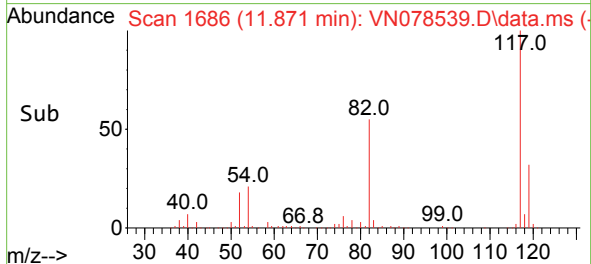
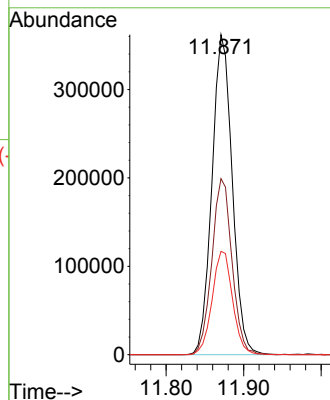
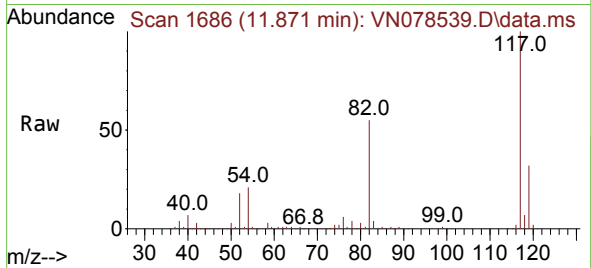




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN078539.D
Acq: 17 Jul 2023 13:35

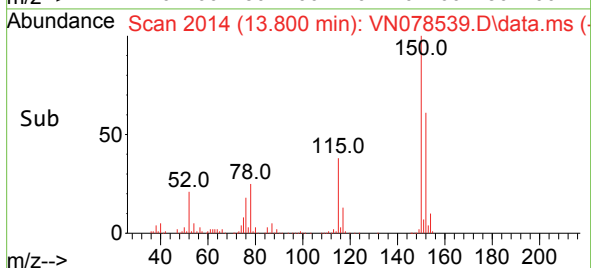
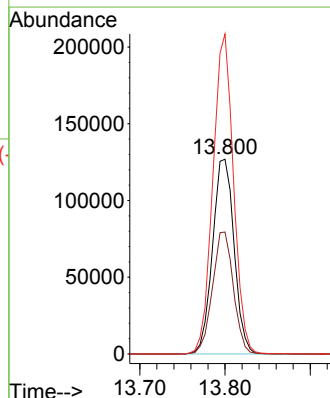
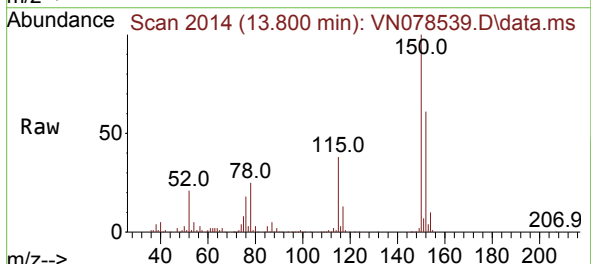
Instrument :
MSVOA_N
ClientSampleId :
RINSATE-BLANK

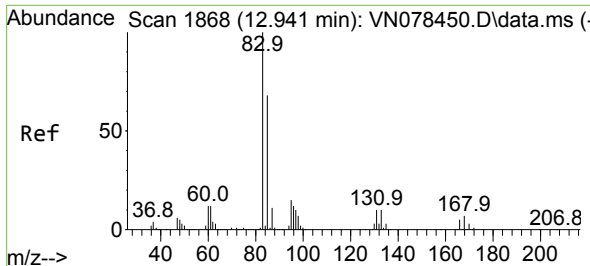
Tgt Ion:117 Resp: 658560
Ion Ratio Lower Upper
117 100
82 55.0 44.0 66.0
119 32.3 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN078539.D
Acq: 17 Jul 2023 13:35

Tgt Ion:152 Resp: 222613
Ion Ratio Lower Upper
152 100
115 60.9 32.3 96.8
150 157.0 0.0 355.8

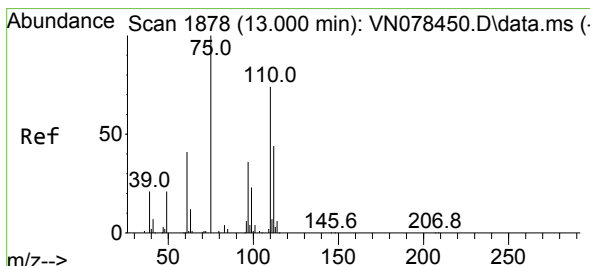
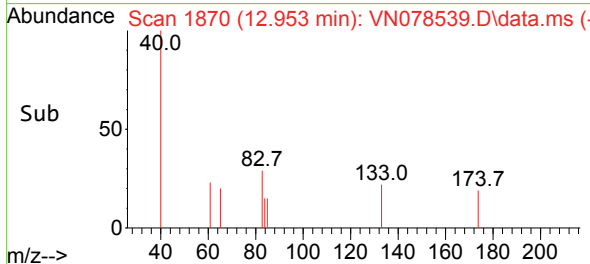
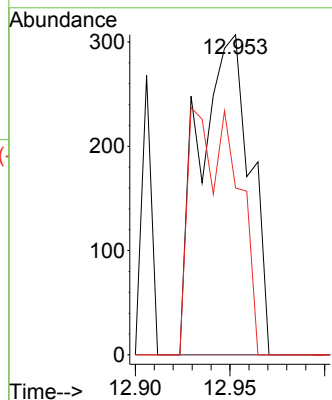
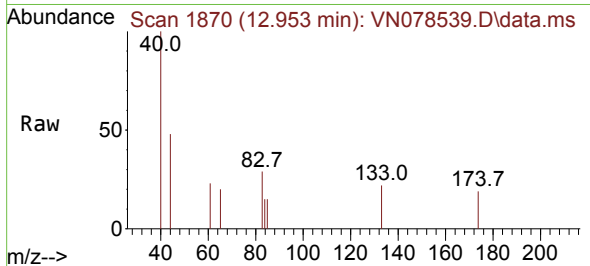




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.953 min Scan# 1853
Delta R.T. 0.012 min
Lab File: VN078539.D
Acq: 17 Jul 2023 13:35

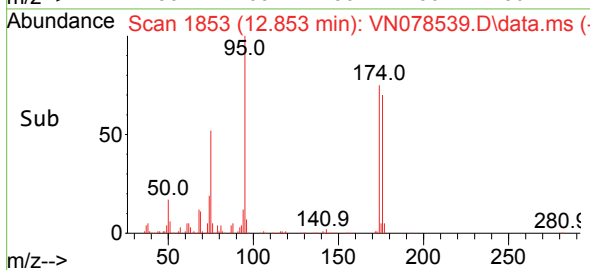
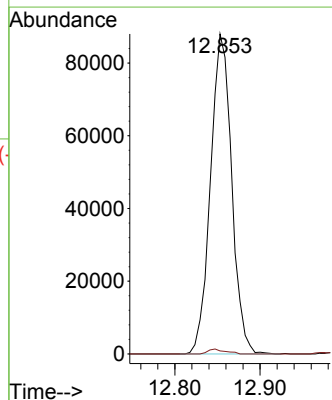
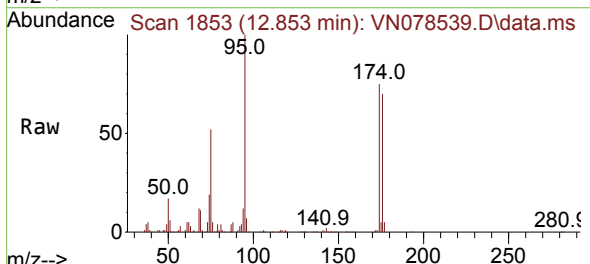
Instrument :
MSVOA_N
ClientSampleId :
RINSATE-BLANK

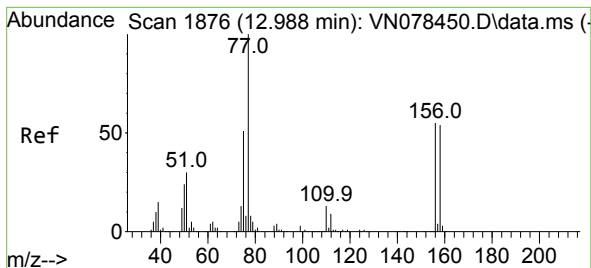
Tgt Ion: 83 Resp: 572
Ion Ratio Lower Upper
83 100
131 0.0 5.0 15.0#
85 0.0 31.9 95.7#



#76
1,2,3-Trichloropropane
Concen: 28.218 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078539.D
Acq: 17 Jul 2023 13:35

Tgt Ion: 75 Resp: 151835
Ion Ratio Lower Upper
75 100
77 1.2 84.5 253.5#





#77

Bromobenzene

Concen: Below Cal

RT: 12.988 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN078539.D

Acq: 17 Jul 2023 13:35

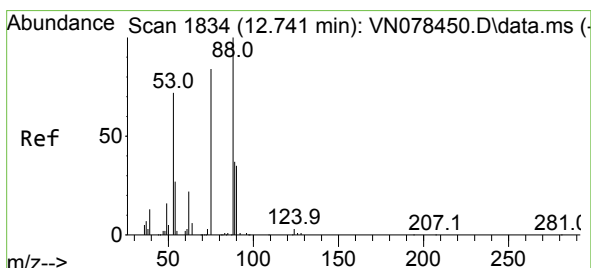
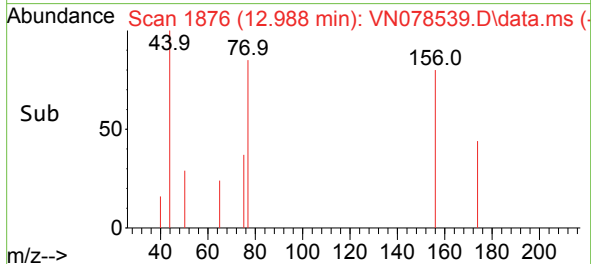
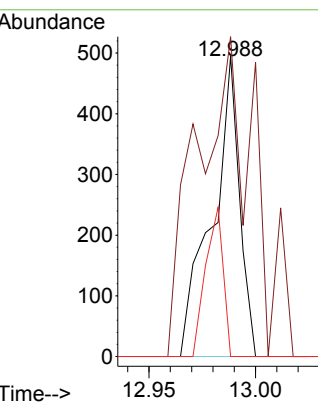
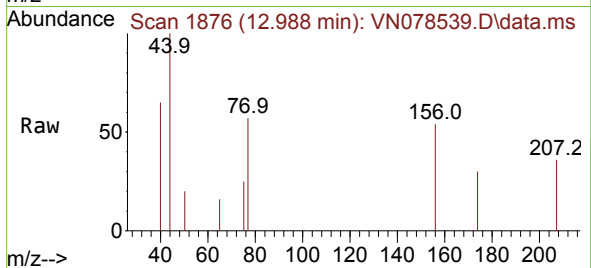
Instrument :

MSVOA_N

ClientSampleId :

RINSATE-BLANK

Tgt Ion:	156	Resp:	440
Ion	Ratio	Lower	Upper
156	100		
77	225.0	107.7	323.3
158	31.8	48.4	145.3



#81

trans-1,4-Dichloro-2-butene

Concen: 74.151 ug/l

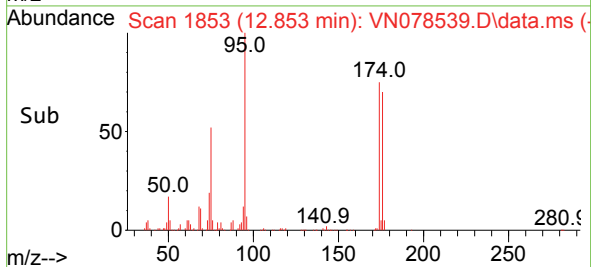
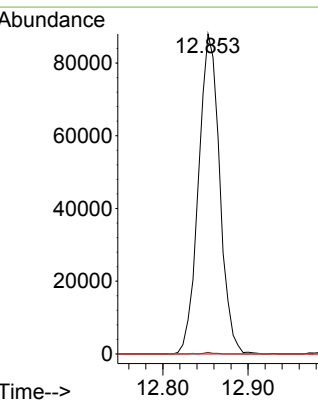
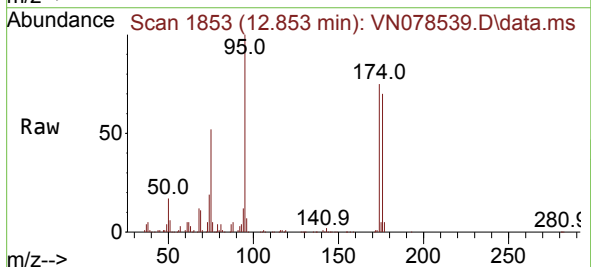
RT: 12.853 min Scan# 1853

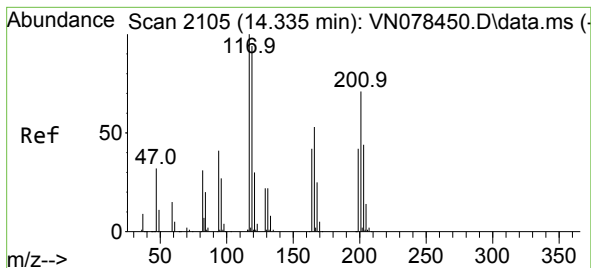
Delta R.T. 0.112 min

Lab File: VN078539.D

Acq: 17 Jul 2023 13:35

Tgt Ion:	75	Resp:	151835
Ion	Ratio	Lower	Upper
75	100		
53	0.2	67.4	101.2
89	0.0	38.8	58.2





#90

Hexachloroethane

Concen: Below Cal

RT: 14.335 min Scan# 2105

Delta R.T. 0.000 min

Lab File: VN078539.D

Acq: 17 Jul 2023 13:35

Instrument :

MSVOA_N

ClientSampleId :

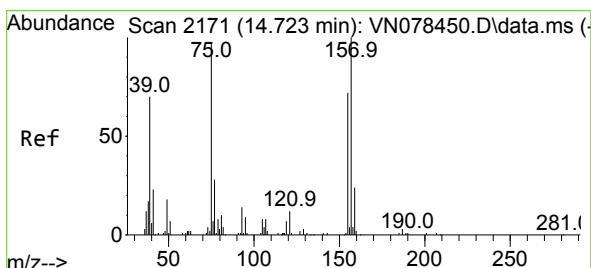
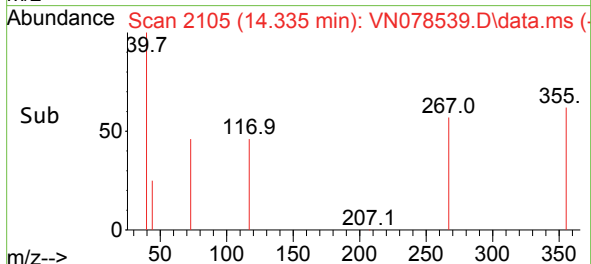
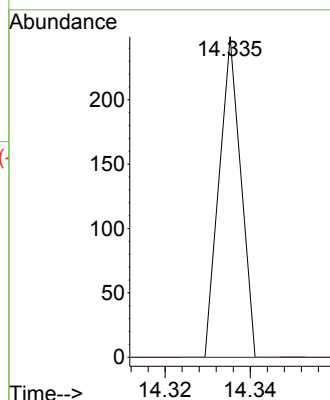
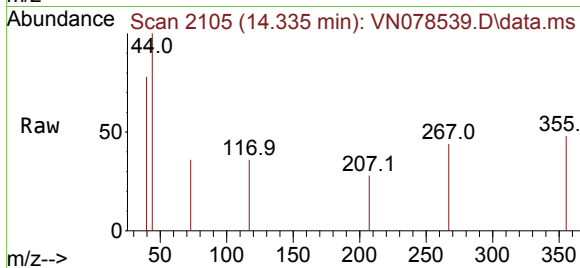
RINSATE-BLANK

Tgt Ion:117 Resp: 88

Ion Ratio Lower Upper

117 100

201 0.0 29.3 88.0#



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.541 min Scan# 2140

Delta R.T. -0.182 min

Lab File: VN078539.D

Acq: 17 Jul 2023 13:35

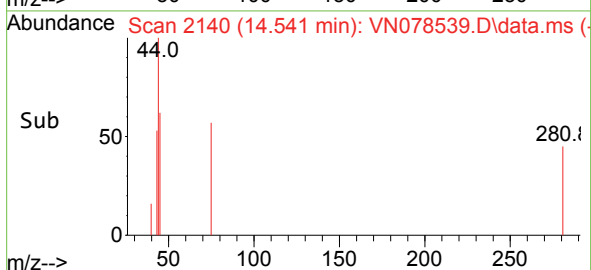
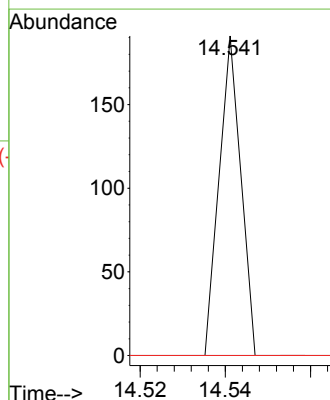
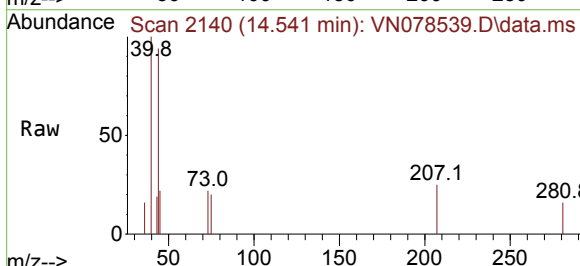
Tgt Ion: 75 Resp: 67

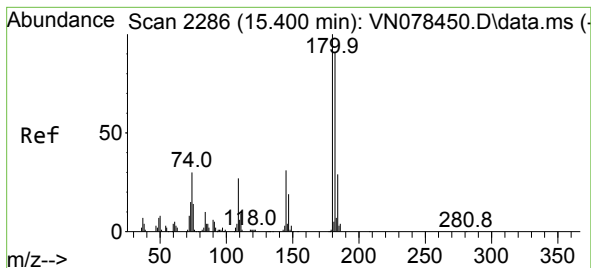
Ion Ratio Lower Upper

75 100

155 0.0 39.1 117.2#

157 0.0 50.3 150.9#





#93

1,2,4-Trichlorobenzene

Concen: 0.413 ug/l

RT: 15.406 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN078539.D

Acq: 17 Jul 2023 13:35

Instrument :

MSVOA_N

ClientSampleId :

RINSATE-BLANK

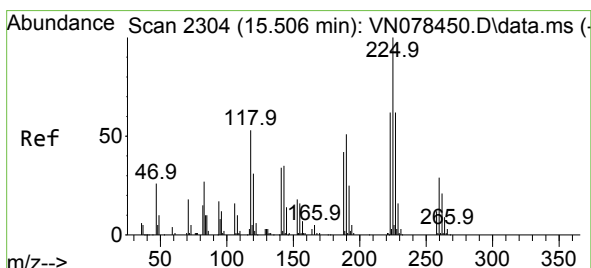
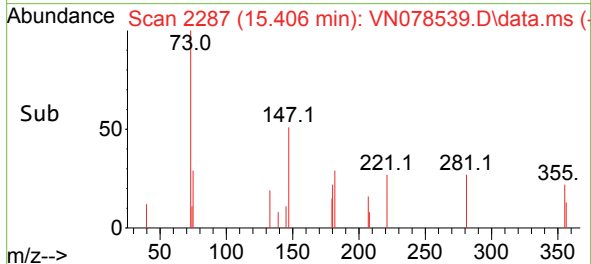
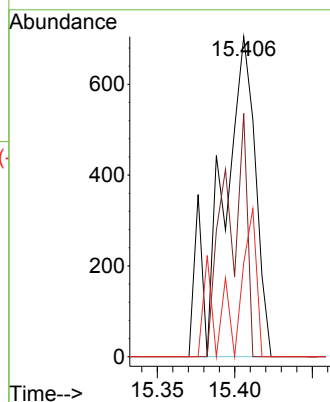
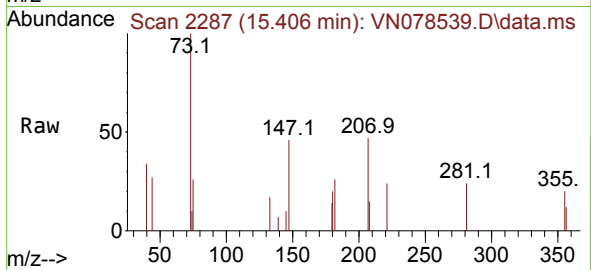
Tgt Ion:180 Resp: 1054

Ion Ratio Lower Upper

180 100

182 47.0 46.1 138.2

145 17.8 16.6 49.8



#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.506 min Scan# 2304

Delta R.T. -0.000 min

Lab File: VN078539.D

Acq: 17 Jul 2023 13:35

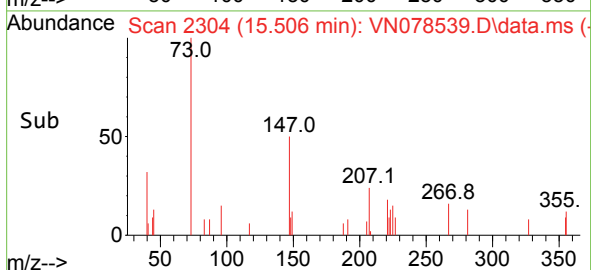
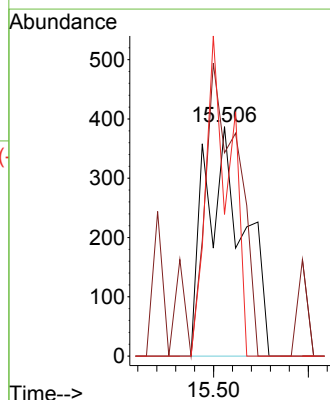
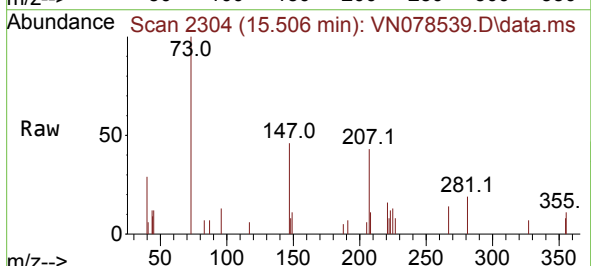
Tgt Ion:225 Resp: 548

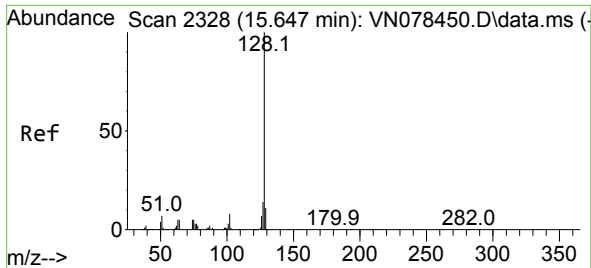
Ion Ratio Lower Upper

225 100

223 106.9 31.3 93.8#

227 88.5 31.9 95.9

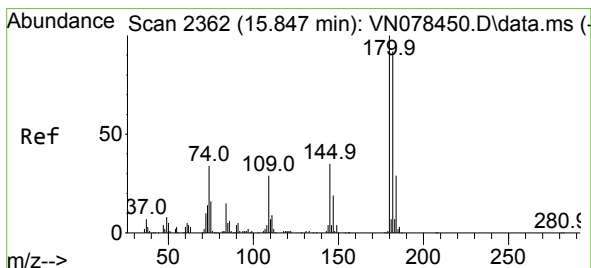
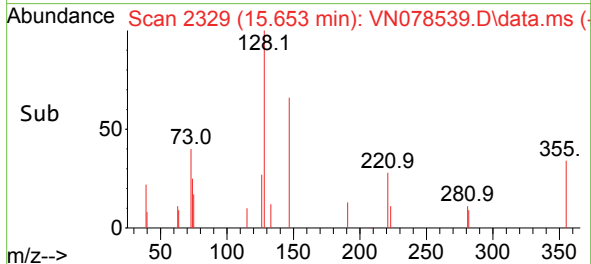
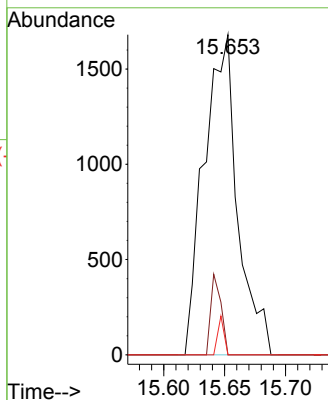
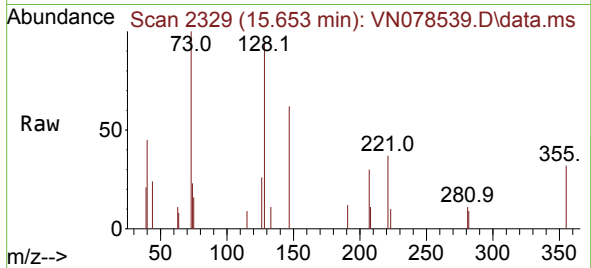




#95
Naphthalene
Concen: 0.370 ug/l
RT: 15.653 min Scan# 2328
Delta R.T. 0.006 min
Lab File: VN078539.D
Acq: 17 Jul 2023 13:35

Instrument :
MSVOA_N
ClientSampleId :
RINSATE-BLANK

Tgt Ion:128 Resp: 3223
Ion Ratio Lower Upper
128 100
127 7.7 10.0 15.0#
129 2.2 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 0.343 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. -0.006 min
Lab File: VN078539.D
Acq: 17 Jul 2023 13:35

Tgt Ion:180 Resp: 1006
Ion Ratio Lower Upper
180 100
182 97.8 46.2 138.6
145 7.9 17.5 52.6#

