

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072723\
 Data File : VN078671.D
 Acq On : 27 Jul 2023 19:47
 Operator : JC\MD
 Sample : 03770-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 28 01:12:05 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)

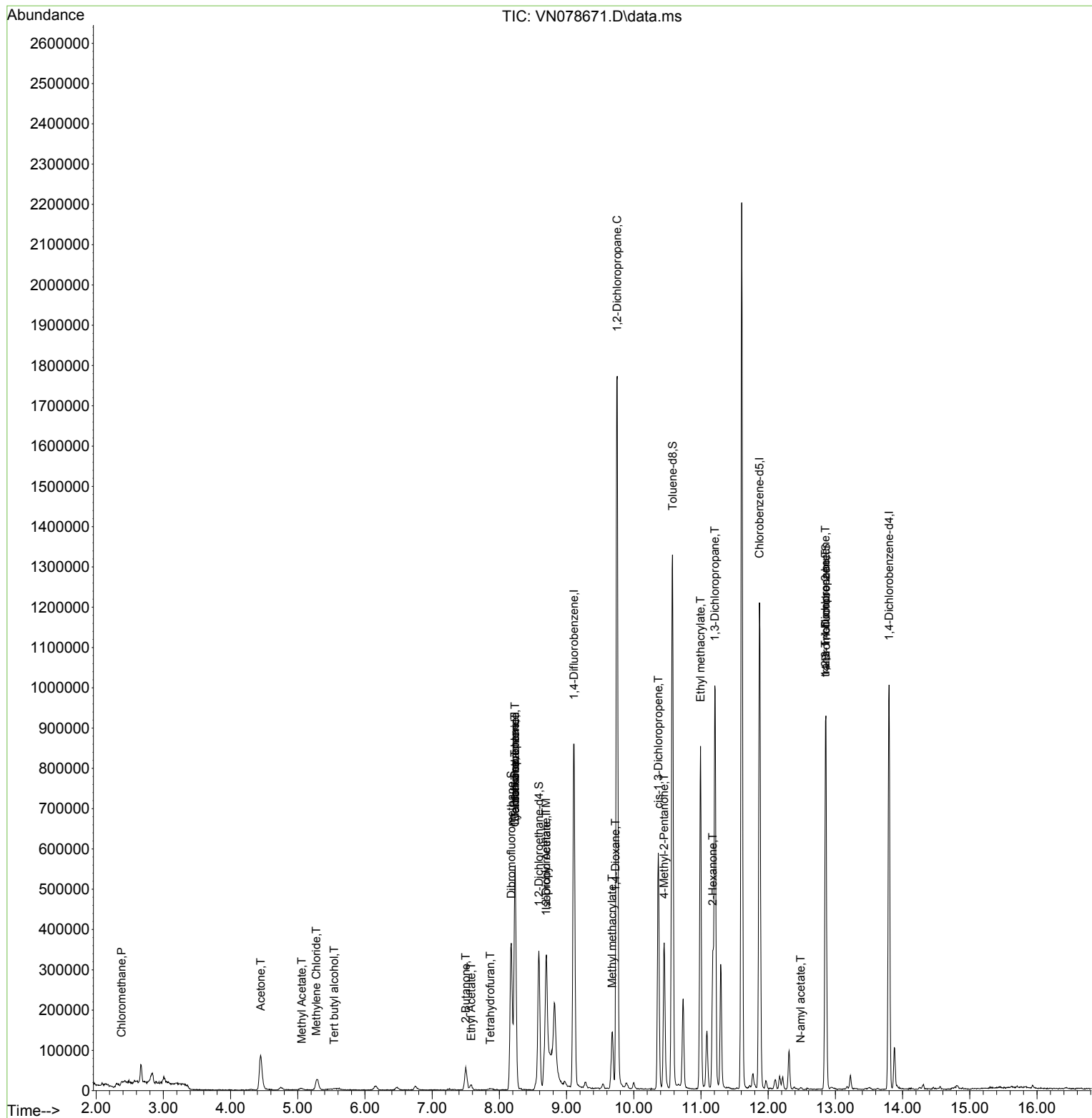
Internal Standards						
1) Pentafluorobenzene	8.235	168	418386	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	781075	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	745611	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	279696	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	273772	48.810	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	97.620%
35) Dibromofluoromethane	8.177	113	269569	50.841	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.680%
50) Toluene-d8	10.576	98	957441	47.800	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	95.600%
62) 4-Bromofluorobenzene	12.859	95	320451	51.940	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	103.880%
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	2719	0.488	ug/l #	74
5) Bromomethane	2.959	94	1344	Below Cal		81
6) Chloroethane	3.153	64	1545	Below Cal		95
11) Tert butyl alcohol	5.541	59	1277	1.476	ug/l #	89
16) Acetone	4.447	43	160739	91.999	ug/l	92
18) Methyl Acetate	5.059	43	9927	1.342	ug/l #	72
20) Methylene Chloride	5.277	84	22496	3.348	ug/l	97
25) 2-Butanone	7.500	43	81941	29.794	ug/l #	84
29) Tetrahydrofuran	7.865	42	2202	1.220	ug/l #	33
31) Cyclohexane	8.229	56	9509	1.254	ug/l #	6
36) 1,1-Dichloropropene	8.229	75	31748	4.147	ug/l #	49
37) Ethyl Acetate	7.582	43	17197	2.695	ug/l #	96
38) Carbon Tetrachloride	8.235	117	43574	5.237	ug/l #	19
42) 1,2-Dichloroethane	8.694	62	2802	0.363	ug/l #	73
43) Isopropyl Acetate	8.700	43	441597	42.028	ug/l #	72
45) 1,2-Dichloropropane	9.753	63	2352	0.409	ug/l #	45
48) Methyl methacrylate	9.676	41	9907	2.035	ug/l #	28
49) 1,4-Dioxane	9.729	88	94	0.885	ug/l #	30
51) 4-Methyl-2-Pentanone	10.453	43	249171	39.868	ug/l	92
54) cis-1,3-Dichloropropene	10.365	75	111820	12.634	ug/l #	72
56) Ethyl methacrylate	10.994	69	5139	0.664	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	11704	1.243	ug/l #	44
59) 2-Hexanone	11.176	43	272770	61.409	ug/l #	19
74) N-amyl acetate	12.482	43	1906	0.210	ug/l #	42
75) 1,1,2,2-Tetrachloroethane	12.947	83	155	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.853	75	167763	24.815	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	167763	65.209	ug/l #	15
90) Hexachloroethane	14.558	117	53	Below Cal	#	21
92) 1,2-Dibromo-3-Chloropr...	14.717	75	74	Below Cal	#	43

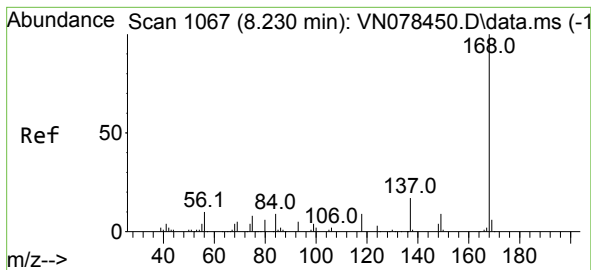
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.235 min Scan# 10

Delta R.T. 0.005 min

Lab File: VN078671.D

Acq: 27 Jul 2023 19:47

Instrument :

MSVOA_N

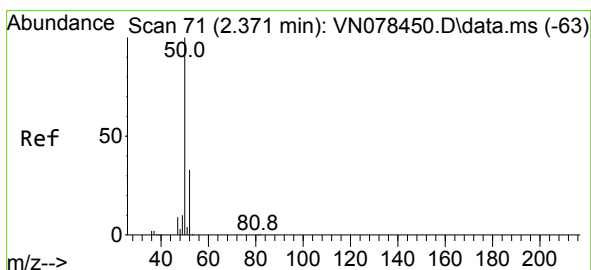
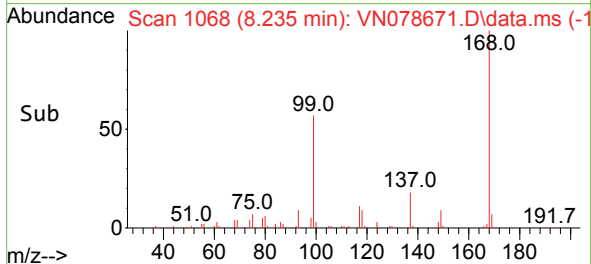
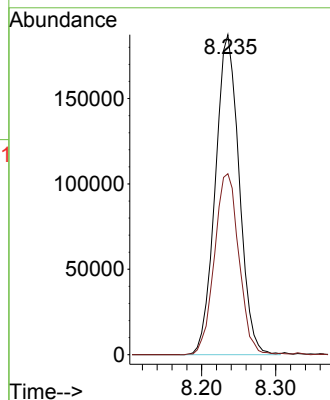
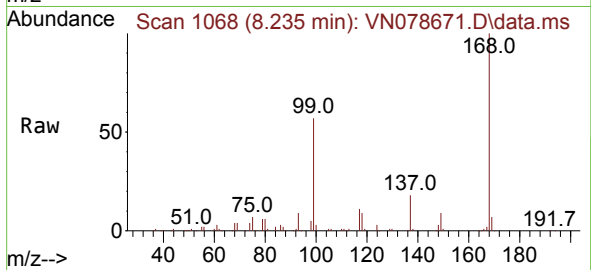
ClientSampleId :

Tgt Ion:168 Resp: 418386

Ion Ratio Lower Upper

168 100

99 56.6 53.0 79.6



#3

Chloromethane

Concen: 0.488 ug/l

RT: 2.377 min Scan# 72

Delta R.T. 0.006 min

Lab File: VN078671.D

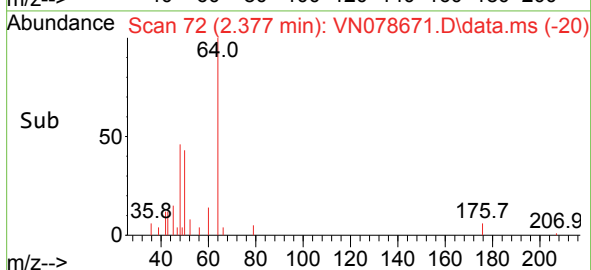
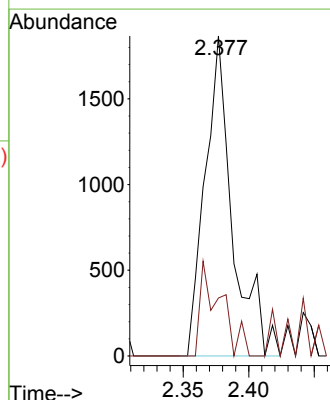
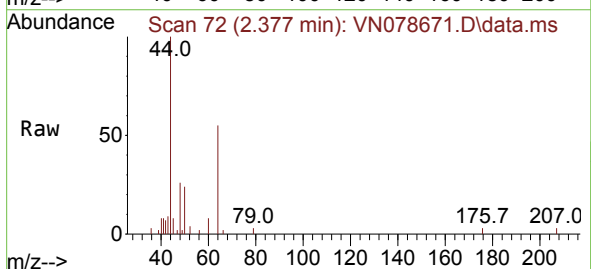
Acq: 27 Jul 2023 19:47

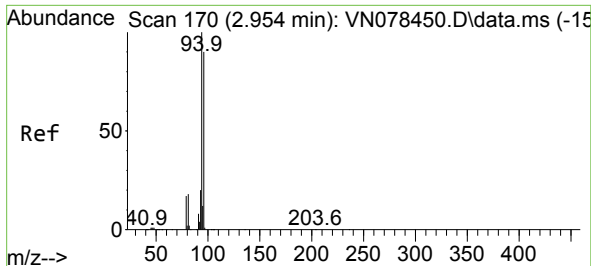
Tgt Ion: 50 Resp: 2719

Ion Ratio Lower Upper

50 100

52 18.1 26.5 39.7#

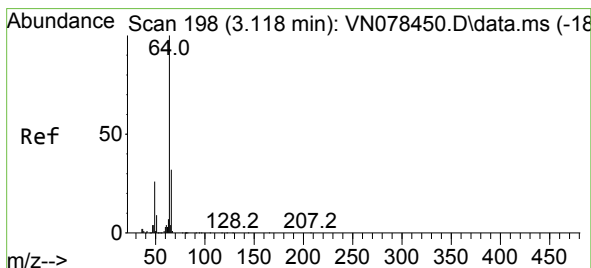
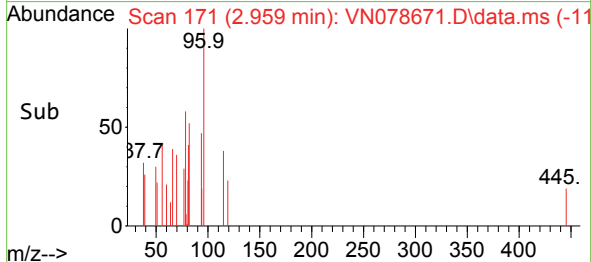
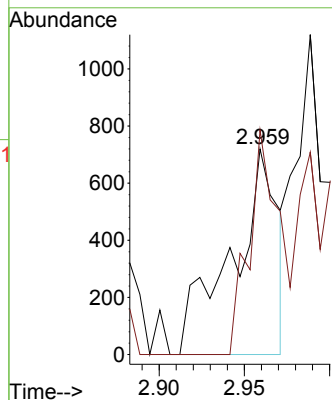
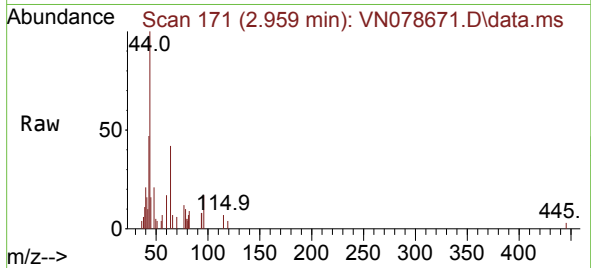




#5
Bromomethane
Concen: Below Cal
RT: 2.959 min Scan# 11
Delta R.T. 0.005 min
Lab File: VN078671.D
Acq: 27 Jul 2023 19:47

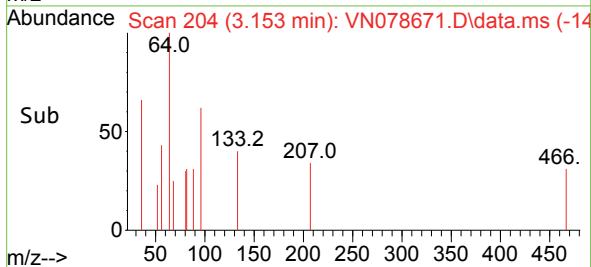
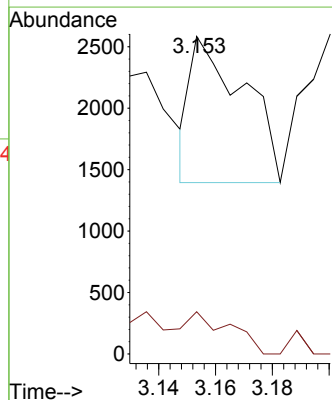
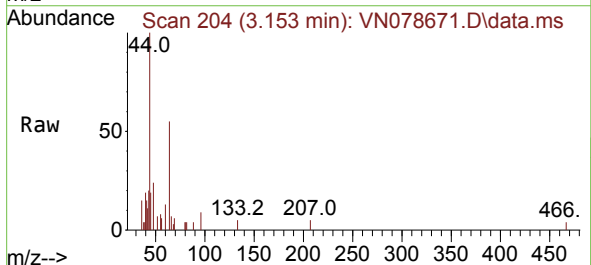
Instrument :
MSVOA_N
ClientSampleId :

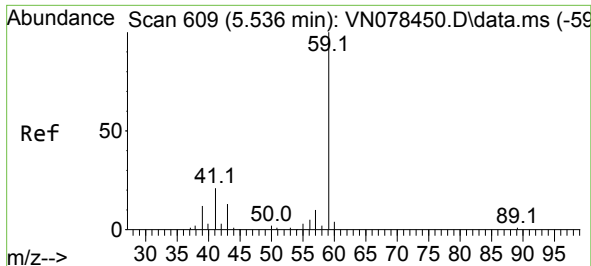
Tgt Ion: 94 Resp: 1344
Ion Ratio Lower Upper
94 100
96 109.2 73.1 109.7



#6
Chloroethane
Concen: Below Cal
RT: 3.153 min Scan# 204
Delta R.T. 0.035 min
Lab File: VN078671.D
Acq: 27 Jul 2023 19:47

Tgt Ion: 64 Resp: 1545
Ion Ratio Lower Upper
64 100
66 28.9 25.4 38.2

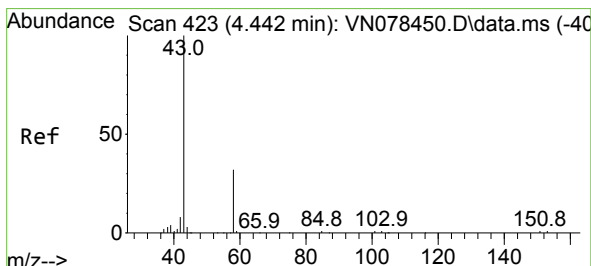
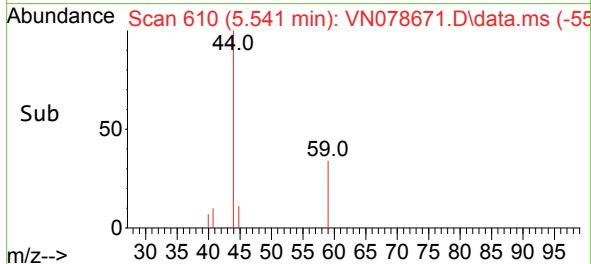
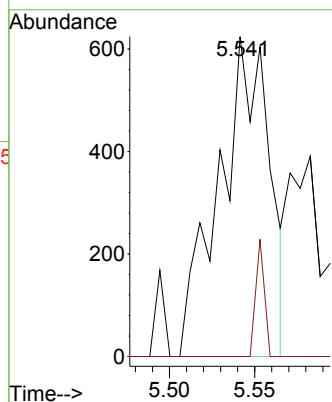
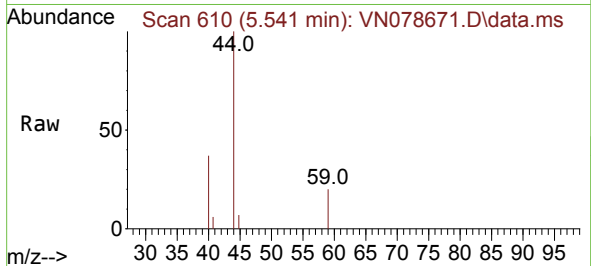




#11
Tert butyl alcohol
Concen: 1.476 ug/l
RT: 5.541 min Scan# 61
Delta R.T. 0.005 min
Lab File: VN078671.D
Acq: 27 Jul 2023 19:47

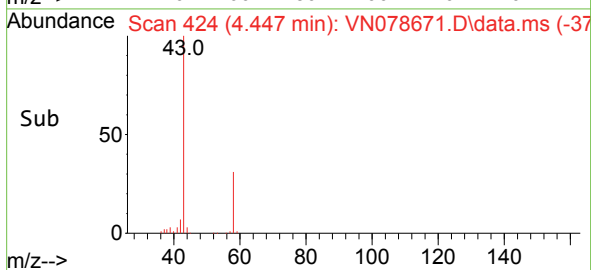
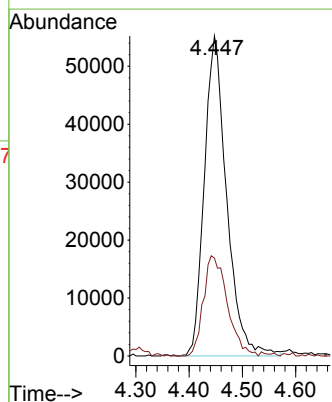
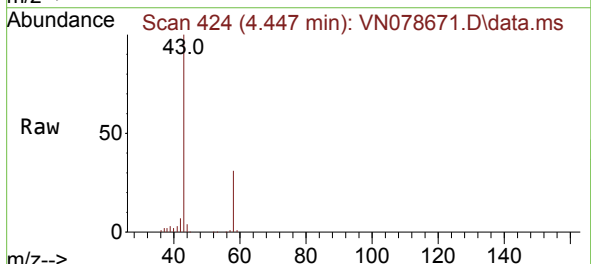
Instrument :
MSVOA_N
ClientSampleId :

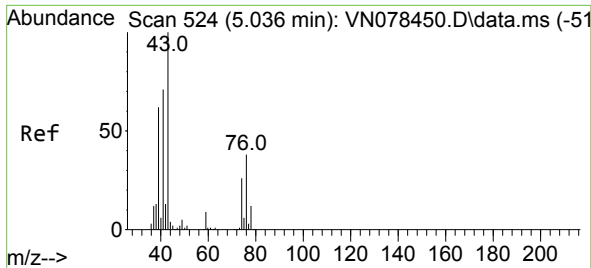
Tgt Ion: 59 Resp: 1277
Ion Ratio Lower Upper
59 100
57 6.3 8.2 12.4#



#16
Acetone
Concen: 91.999 ug/l
RT: 4.447 min Scan# 424
Delta R.T. 0.005 min
Lab File: VN078671.D
Acq: 27 Jul 2023 19:47

Tgt Ion: 43 Resp: 160739
Ion Ratio Lower Upper
43 100
58 30.6 28.0 42.0

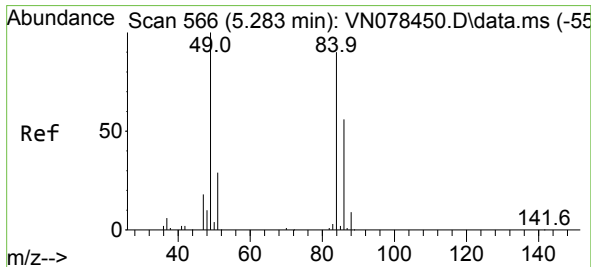
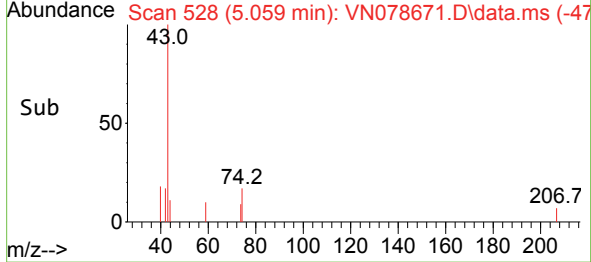
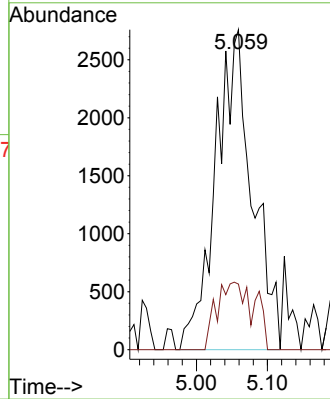
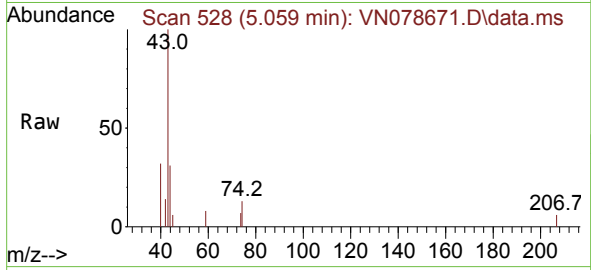




#18
Methyl Acetate
Concen: 1.342 ug/l
RT: 5.059 min Scan# 51
Delta R.T. 0.023 min
Lab File: VN078671.D
Acq: 27 Jul 2023 19:47

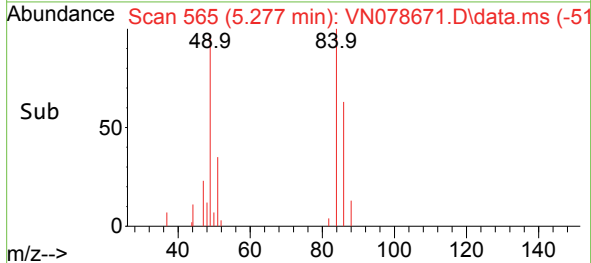
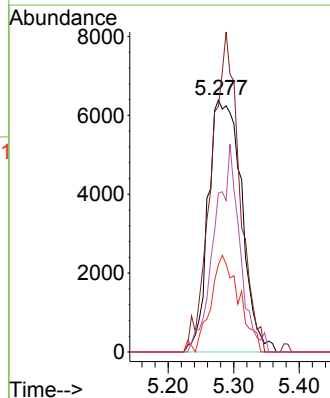
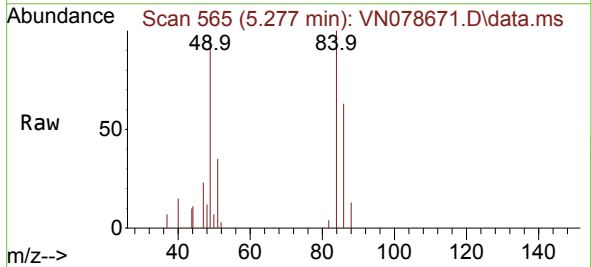
Instrument :
MSVOA_N
ClientSampleId :

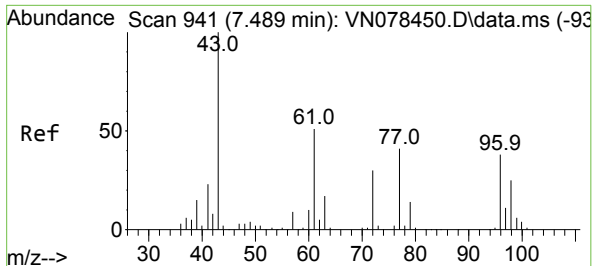
Tgt Ion: 43 Resp: 9927
Ion Ratio Lower Upper
43 100
74 17.0 26.2 39.4#



#20
Methylene Chloride
Concen: 3.348 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.006 min
Lab File: VN078671.D
Acq: 27 Jul 2023 19:47

Tgt Ion: 84 Resp: 22496
Ion Ratio Lower Upper
84 100
49 97.5 79.7 119.5
51 34.7 25.2 37.8
86 63.1 53.3 79.9

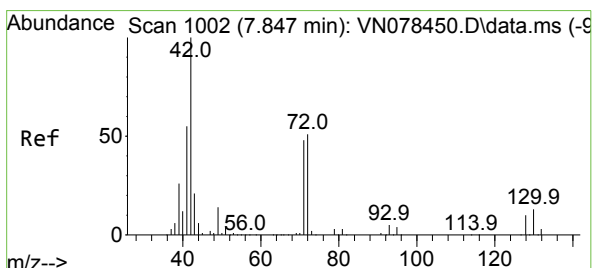
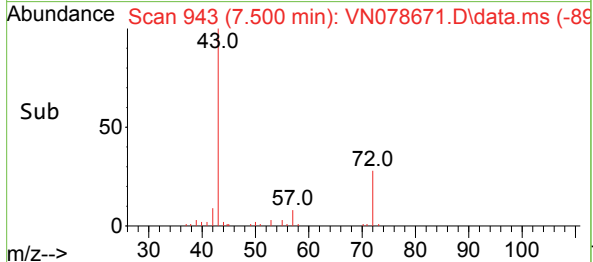
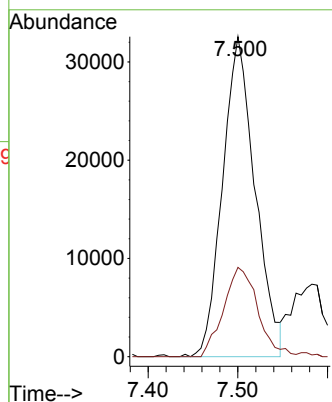
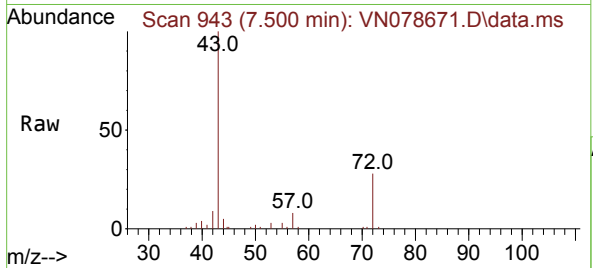




#25
2-Butanone
Concen: 29.794 ug/l
RT: 7.500 min Scan# 941
Delta R.T. 0.011 min
Lab File: VN078671.D
Acq: 27 Jul 2023 19:47

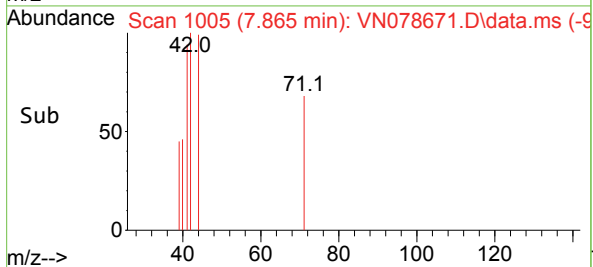
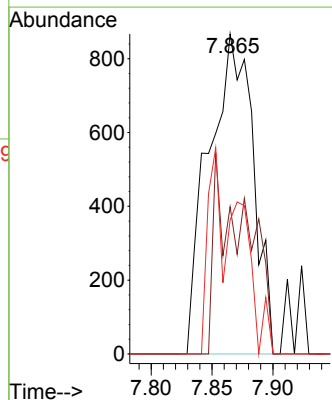
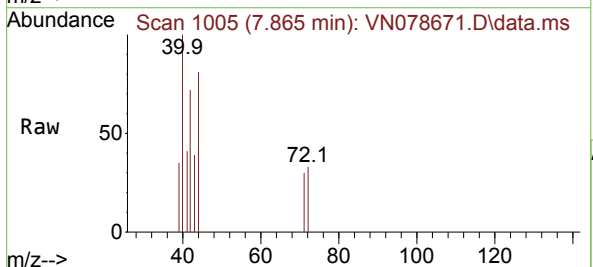
Instrument :
MSVOA_N
ClientSampleId :

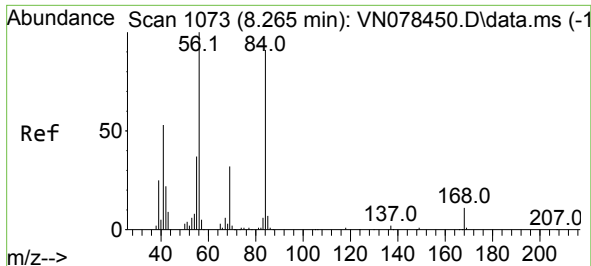
Tgt Ion: 43 Resp: 81941
Ion Ratio Lower Upper
43 100
72 27.9 30.2 45.2#



#29
Tetrahydrofuran
Concen: 1.220 ug/l
RT: 7.865 min Scan# 1005
Delta R.T. 0.018 min
Lab File: VN078671.D
Acq: 27 Jul 2023 19:47

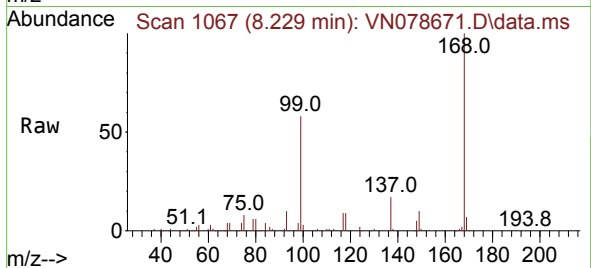
Tgt Ion: 42 Resp: 2202
Ion Ratio Lower Upper
42 100
72 0.0 49.8 74.6#
71 19.6 47.4 71.2#



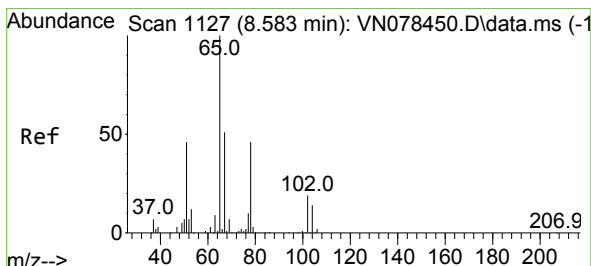
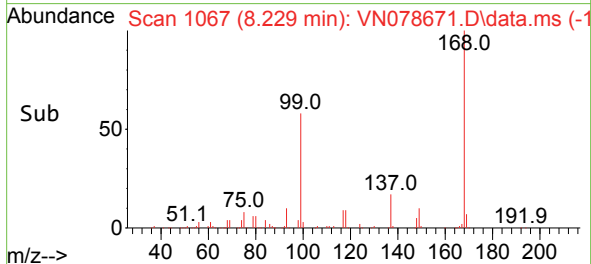
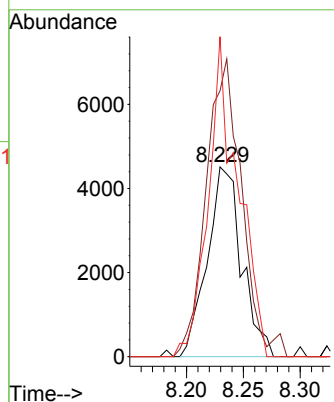


#31
Cyclohexane
Concen: 1.254 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.036 min
Lab File: VN078671.D
Acq: 27 Jul 2023 19:47

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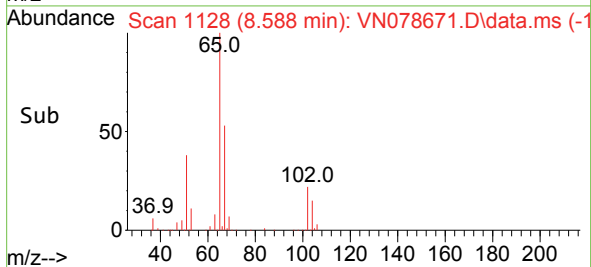
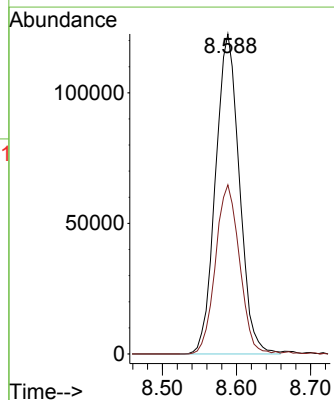
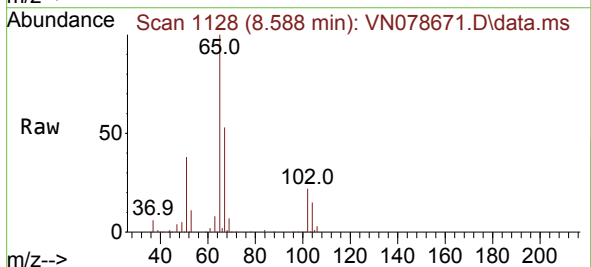


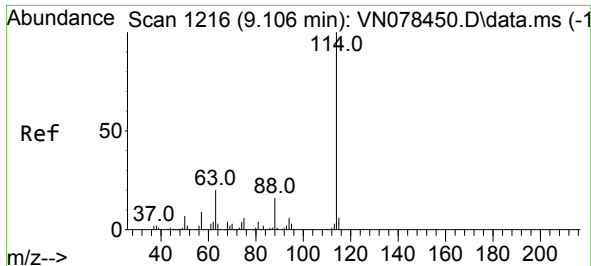
Tgt Ion: 56 Resp: 9509
Ion Ratio Lower Upper
56 100
69 136.1 26.8 40.2#
84 168.6 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 48.810 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.005 min
Lab File: VN078671.D
Acq: 27 Jul 2023 19:47

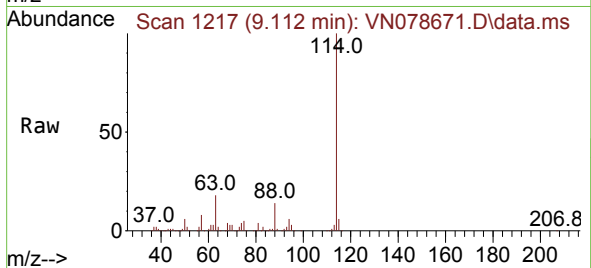
Tgt Ion: 65 Resp: 273772
Ion Ratio Lower Upper
65 100
67 53.4 0.0 106.6



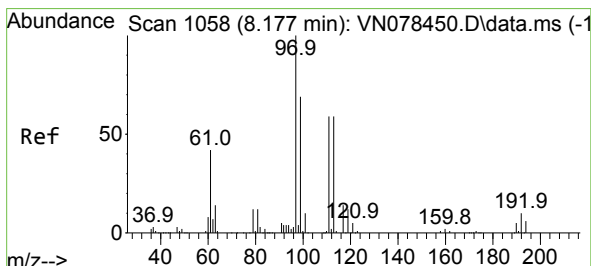
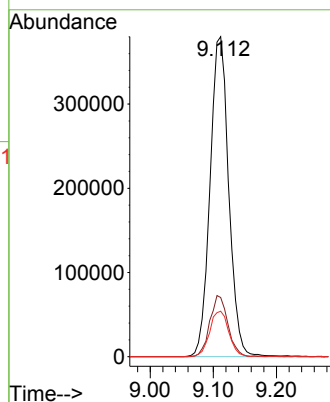
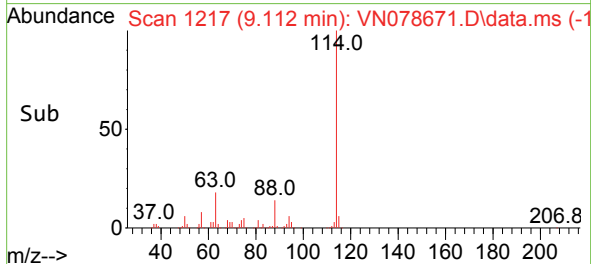


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.112 min Scan# 114
Delta R.T. 0.006 min
Lab File: VN078671.D
Acq: 27 Jul 2023 19:47

Instrument :
MSVOA_N
ClientSampleId :

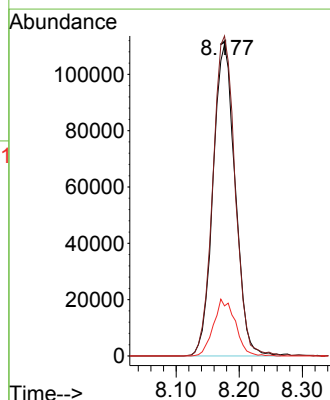
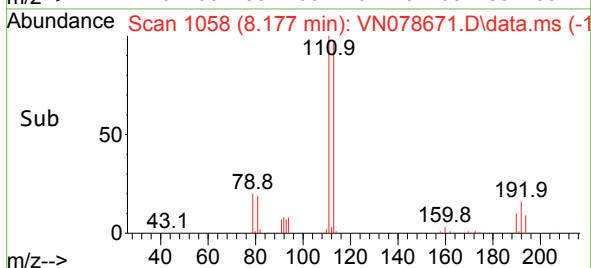
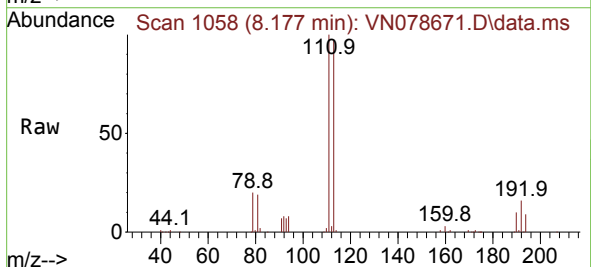


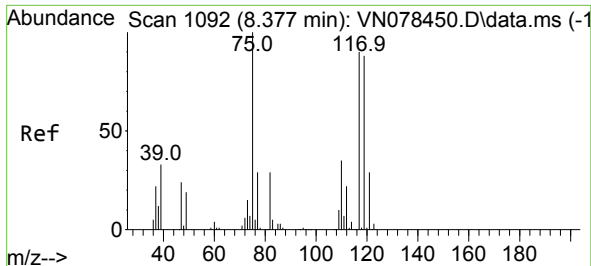
Tgt Ion:114 Resp: 781075
Ion Ratio Lower Upper
114 100
63 18.5 0.0 36.4
88 14.2 0.0 30.6



#35
Dibromofluoromethane
Concen: 50.841 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078671.D
Acq: 27 Jul 2023 19:47

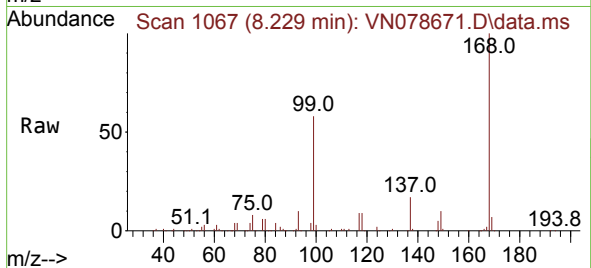
Tgt Ion:113 Resp: 269569
Ion Ratio Lower Upper
113 100
111 103.4 82.6 123.8
192 18.0 12.7 19.1



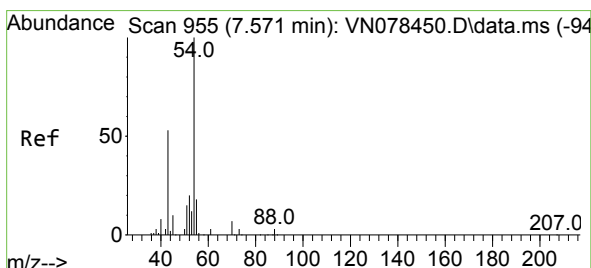
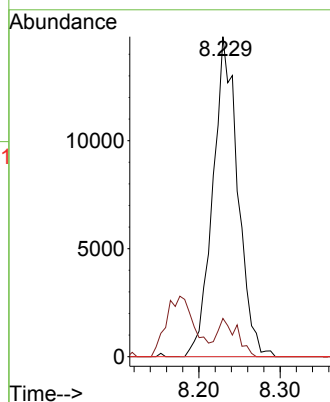
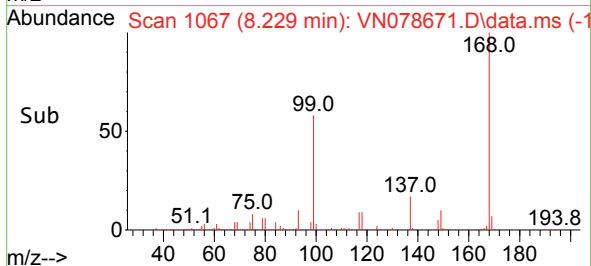


#36
1,1-Dichloropropene
Concen: 4.147 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.148 min
Lab File: VN078671.D
Acq: 27 Jul 2023 19:47

Instrument :
MSVOA_N
ClientSampleId :

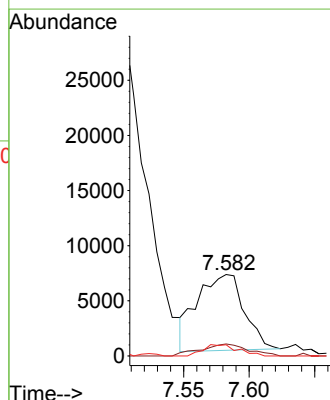
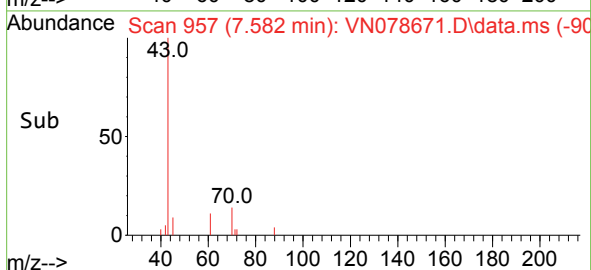
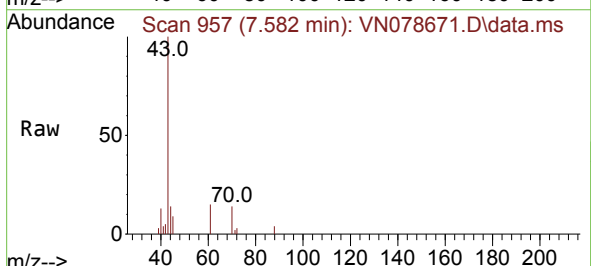


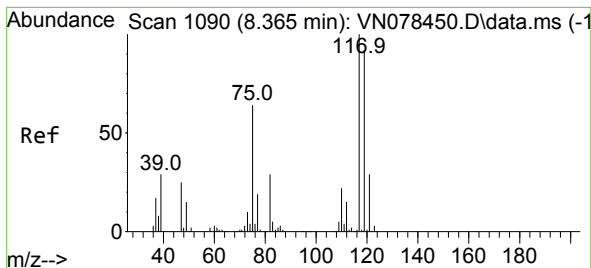
Tgt Ion: 75 Resp: 31748
Ion Ratio Lower Upper
75 100
110 9.7 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 2.695 ug/l
RT: 7.582 min Scan# 957
Delta R.T. 0.011 min
Lab File: VN078671.D
Acq: 27 Jul 2023 19:47

Tgt Ion: 43 Resp: 17197
Ion Ratio Lower Upper
43 100
61 15.8 13.2 19.8
70 11.1 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 5.237 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.130 min

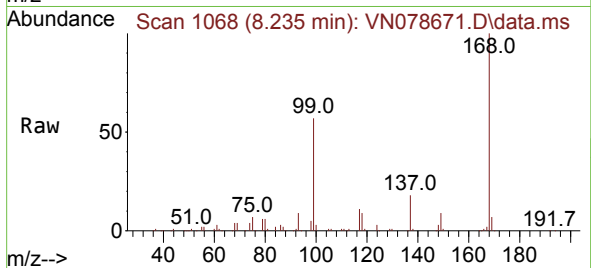
Lab File: VN078671.D

Acq: 27 Jul 2023 19:47

Instrument :

MSVOA_N

ClientSampleId :



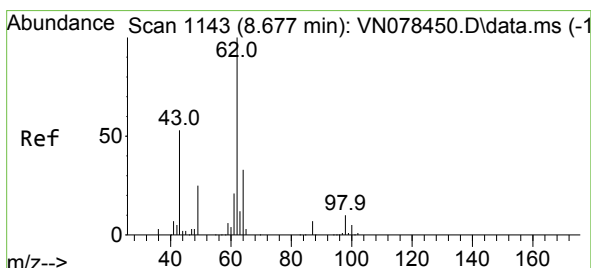
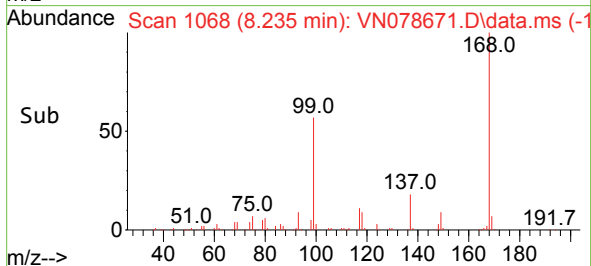
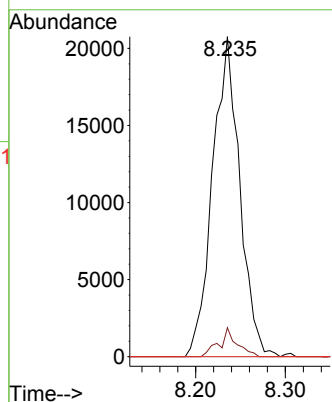
Tgt Ion:117 Resp: 43574

Ion Ratio Lower Upper

117 100

119 9.0 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.363 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.017 min

Lab File: VN078671.D

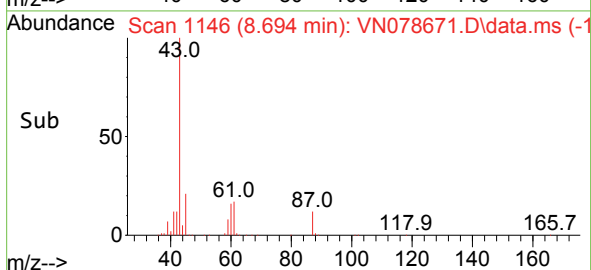
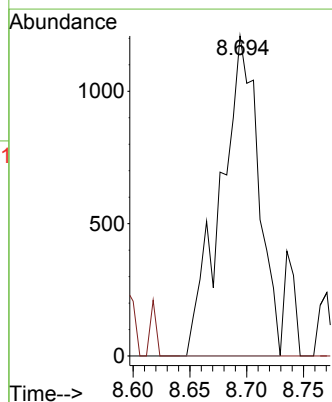
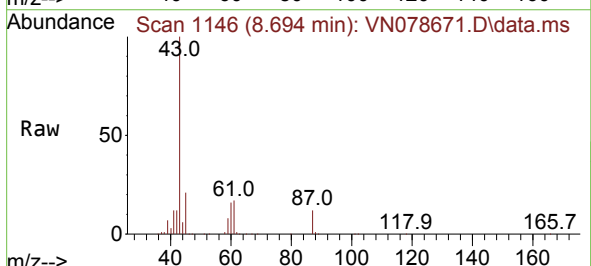
Acq: 27 Jul 2023 19:47

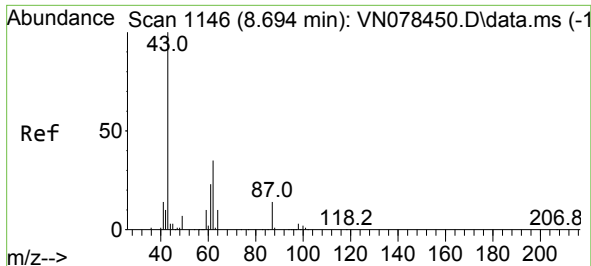
Tgt Ion: 62 Resp: 2802

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

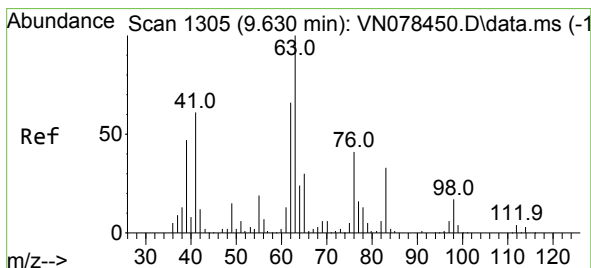
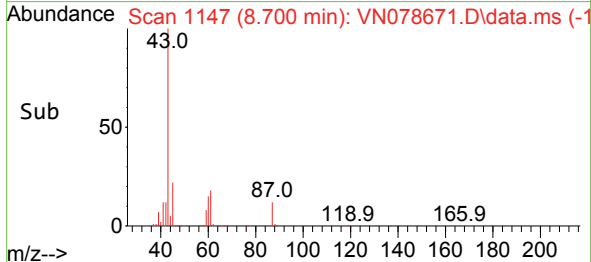
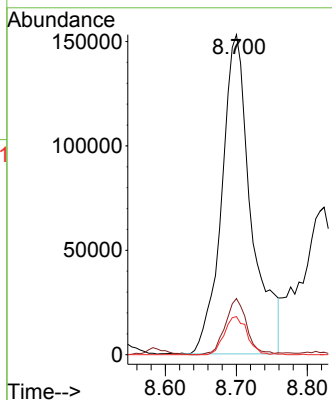
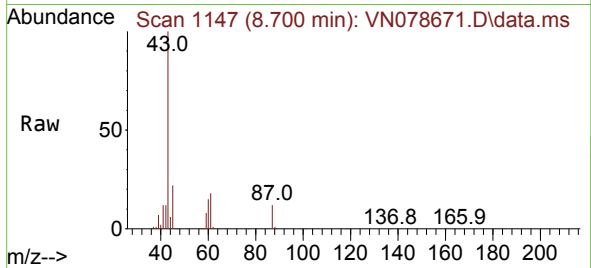




#43
Isopropyl Acetate
Concen: 42.028 ug/l
RT: 8.700 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VN078671.D
Acq: 27 Jul 2023 19:47

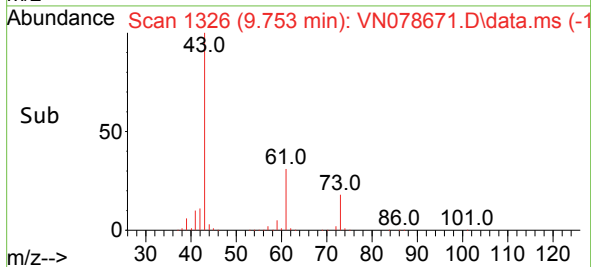
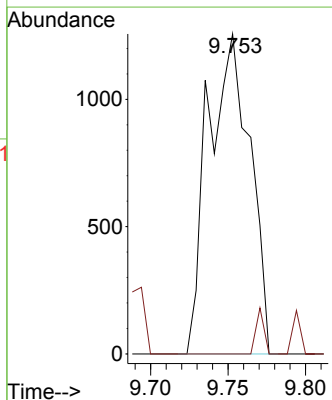
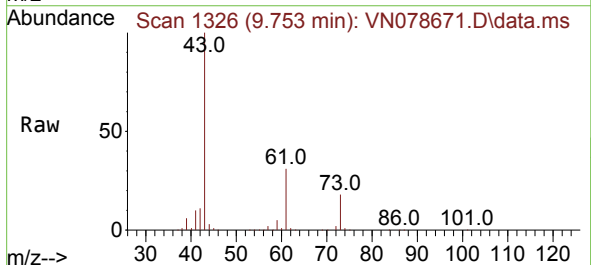
Instrument :
MSVOA_N
ClientSampleId :

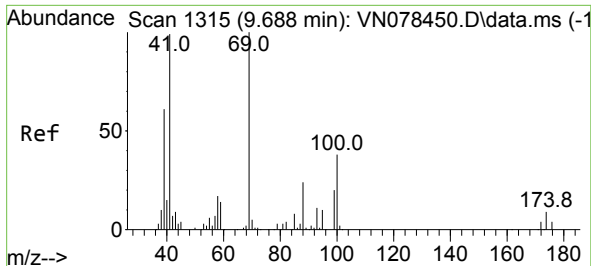
Tgt Ion: 43 Resp: 441597
Ion Ratio Lower Upper
43 100
61 12.9 24.7 37.1#
87 9.2 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 0.409 ug/l
RT: 9.753 min Scan# 1326
Delta R.T. 0.123 min
Lab File: VN078671.D
Acq: 27 Jul 2023 19:47

Tgt Ion: 63 Resp: 2352
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#

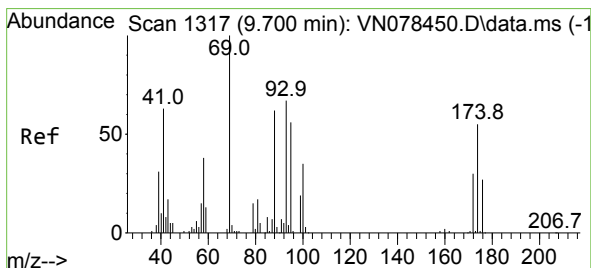
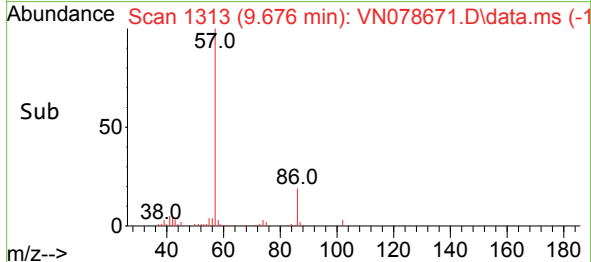
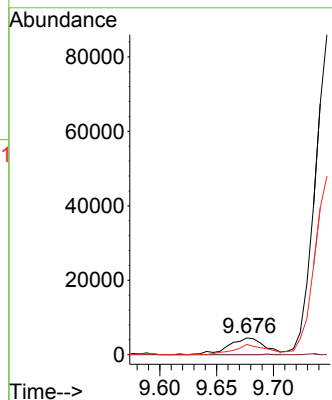
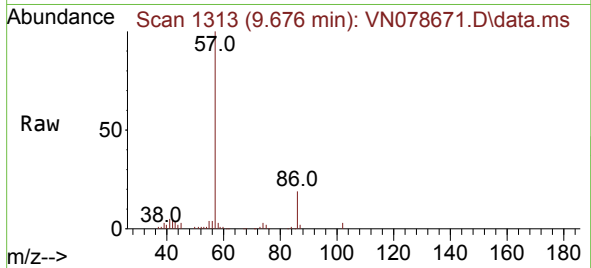




#48
Methyl methacrylate
Concen: 2.035 ug/l
RT: 9.676 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN078671.D
Acq: 27 Jul 2023 19:47

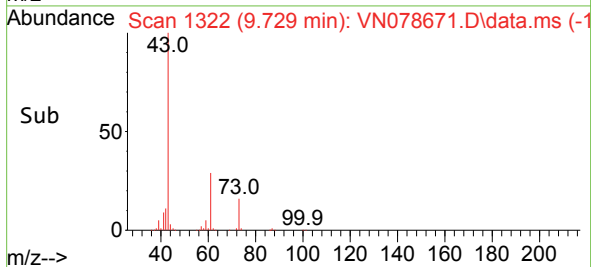
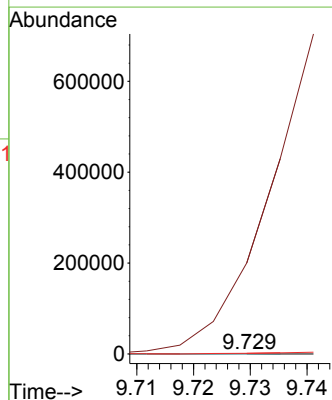
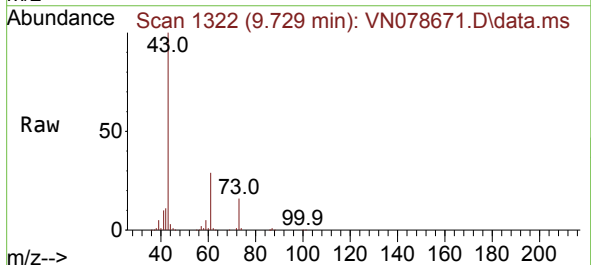
Instrument :
MSVOA_N
ClientSampleId :

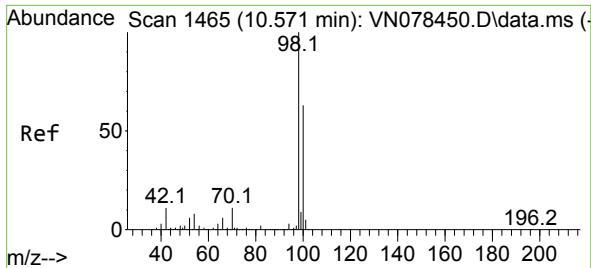
Tgt Ion: 41 Resp: 9907
Ion Ratio Lower Upper
41 100
69 0.6 90.4 135.6#
39 54.4 54.6 81.8#



#49
1,4-Dioxane
Concen: 0.885 ug/l
RT: 9.729 min Scan# 1322
Delta R.T. 0.029 min
Lab File: VN078671.D
Acq: 27 Jul 2023 19:47

Tgt Ion: 88 Resp: 94
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 0.0 47.0 70.4#

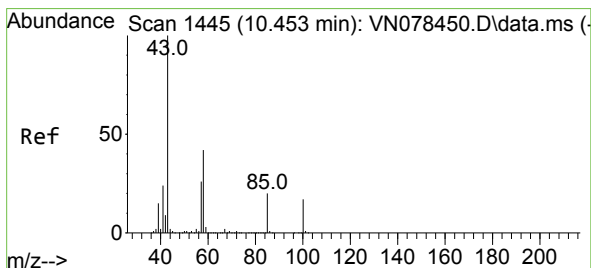
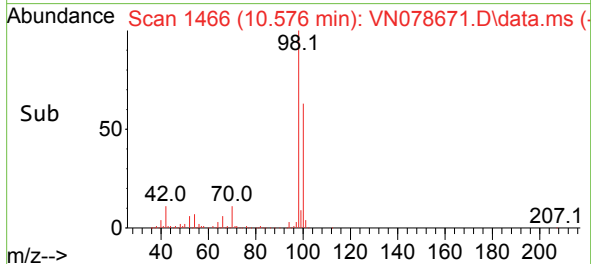
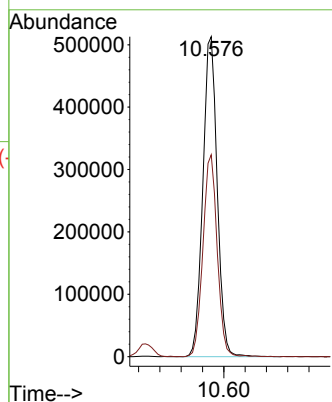
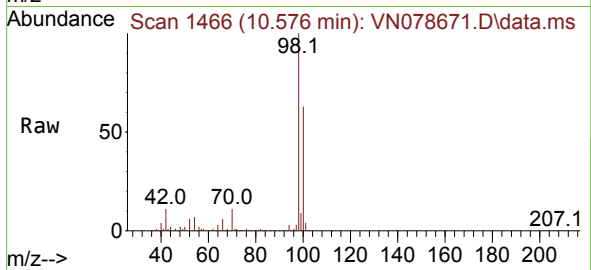




#50
Toluene-d8
Concen: 47.800 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. 0.005 min
Lab File: VN078671.D
Acq: 27 Jul 2023 19:47

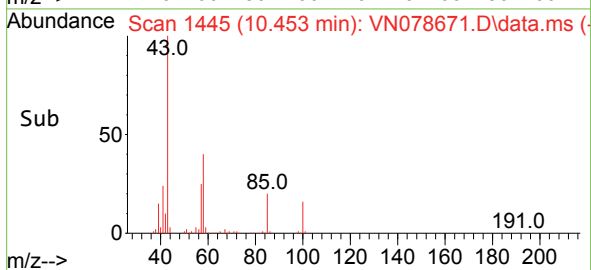
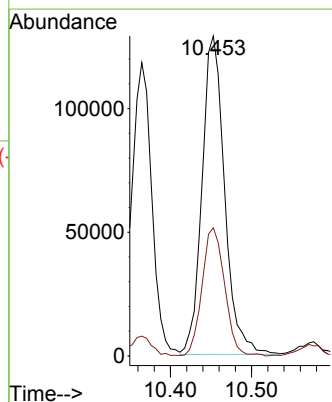
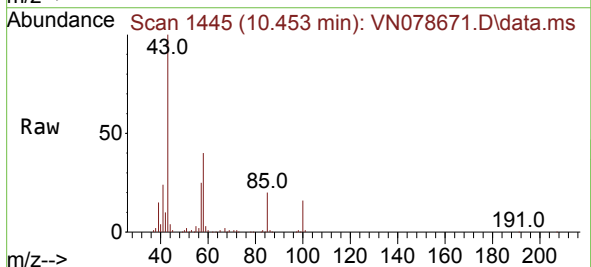
Instrument :
MSVOA_N
ClientSampleId :

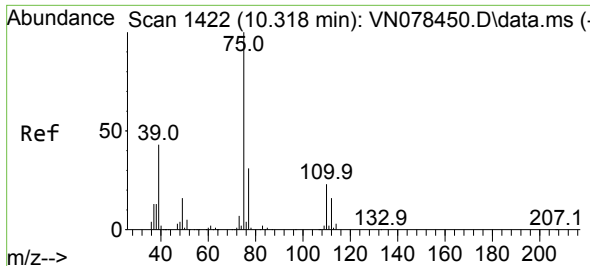
Tgt Ion: 98 Resp: 957441
Ion Ratio Lower Upper
98 100
100 62.7 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 39.868 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN078671.D
Acq: 27 Jul 2023 19:47

Tgt Ion: 43 Resp: 249171
Ion Ratio Lower Upper
43 100
58 40.1 36.6 54.8

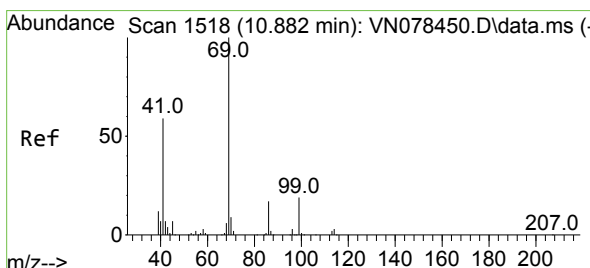
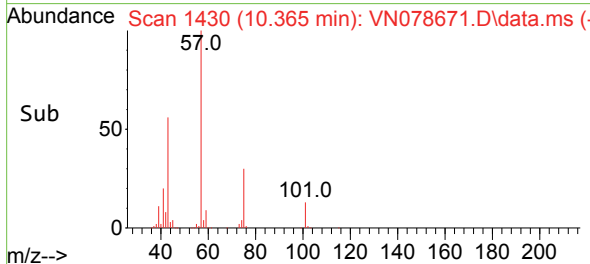
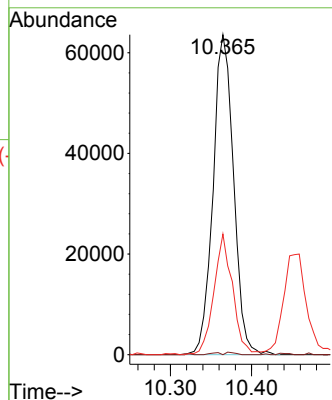
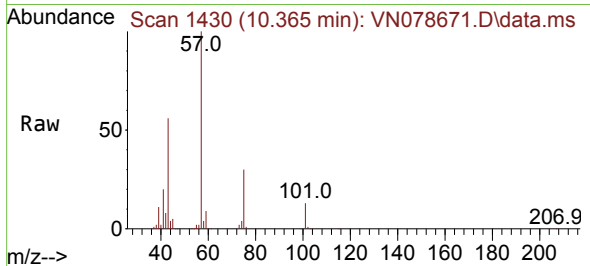




#54
 cis-1,3-Dichloropropene
 Concen: 12.634 ug/l
 RT: 10.365 min Scan# 14
 Delta R.T. 0.047 min
 Lab File: VN078671.D
 Acq: 27 Jul 2023 19:47

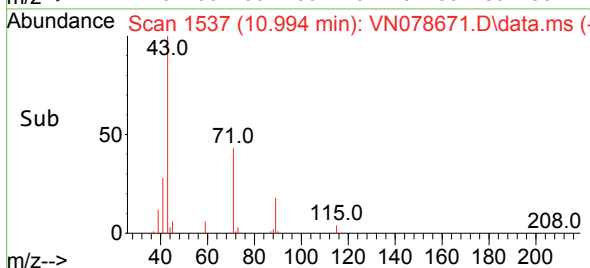
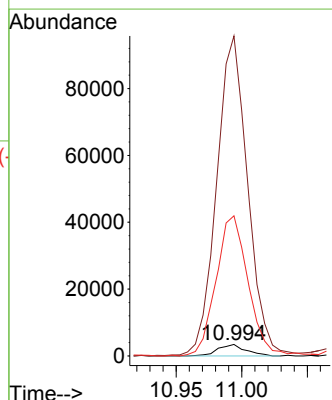
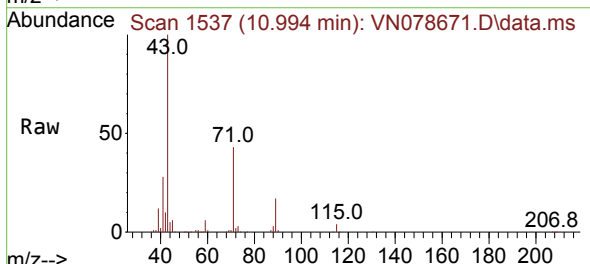
Instrument :
 MSVOA_N
 ClientSampleId :

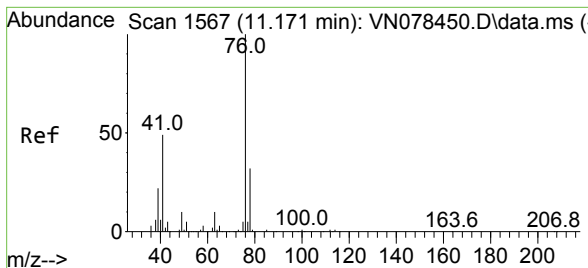
Tgt Ion: 75 Resp: 111820
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.1 39.1#
 39 37.7 31.6 47.4



#56
 Ethyl methacrylate
 Concen: 0.664 ug/l
 RT: 10.994 min Scan# 1537
 Delta R.T. 0.112 min
 Lab File: VN078671.D
 Acq: 27 Jul 2023 19:47

Tgt Ion: 69 Resp: 5139
 Ion Ratio Lower Upper
 69 100
 41 3074.7 39.6 59.4#
 39 1393.4 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.243 ug/l

RT: 11.206 min Scan# 1

Delta R.T. 0.035 min

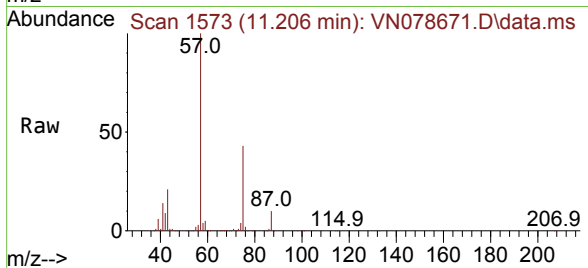
Lab File: VN078671.D

Acq: 27 Jul 2023 19:47

Instrument :

MSVOA_N

ClientSampleId :

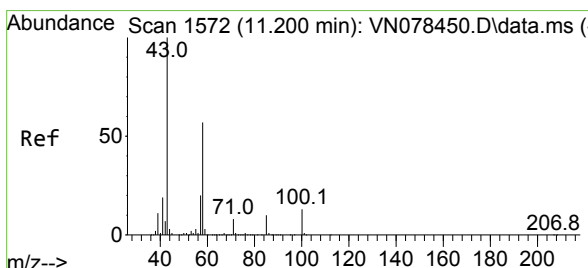
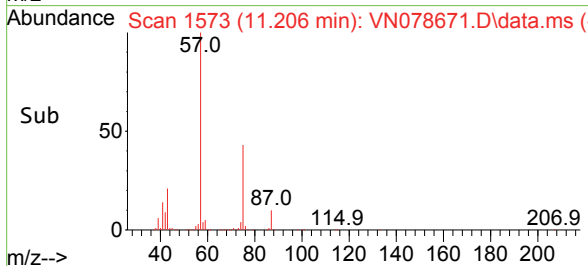
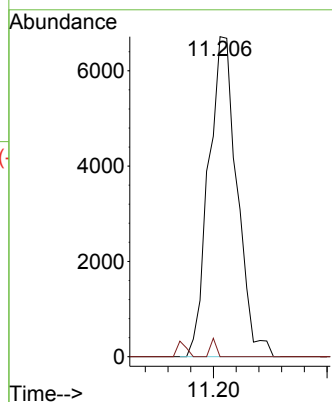


Tgt Ion: 76 Resp: 11704

Ion Ratio Lower Upper

76 100

78 1.2 26.1 39.1#



#59

2-Hexanone

Concen: 61.409 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.024 min

Lab File: VN078671.D

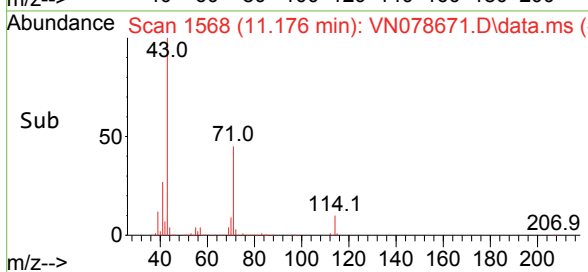
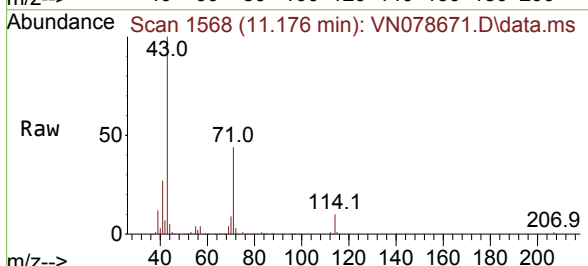
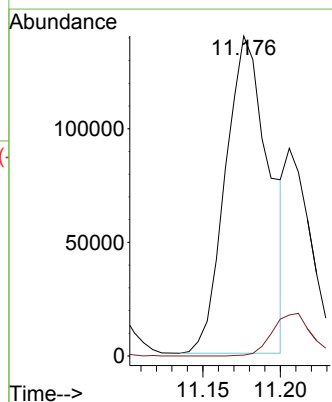
Acq: 27 Jul 2023 19:47

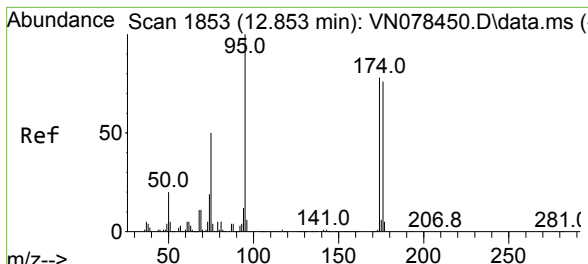
Tgt Ion: 43 Resp: 272770

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

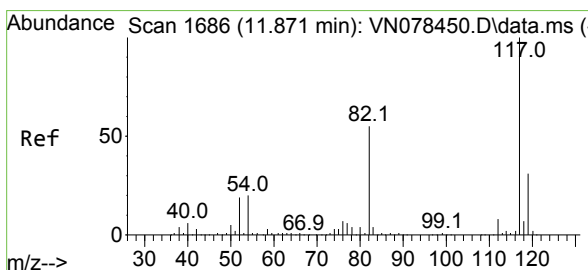
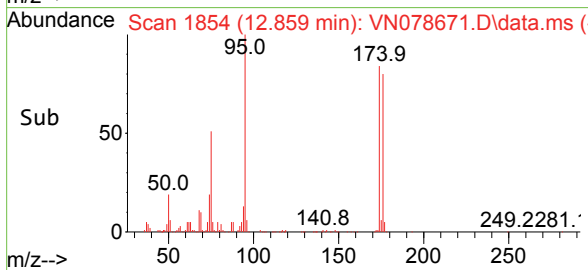
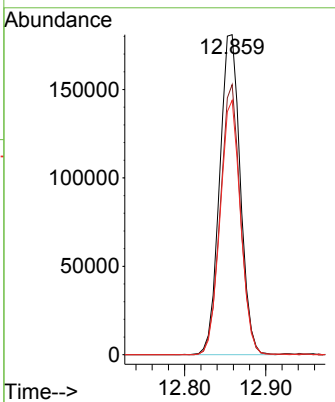
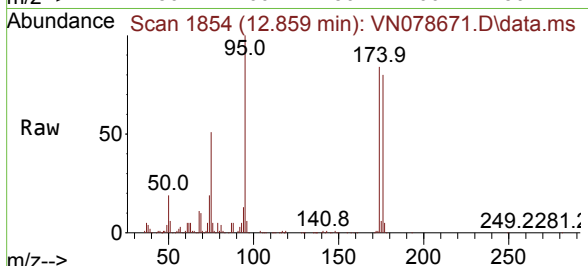




#62
4-Bromofluorobenzene
Concen: 51.940 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN078671.D
Acq: 27 Jul 2023 19:47

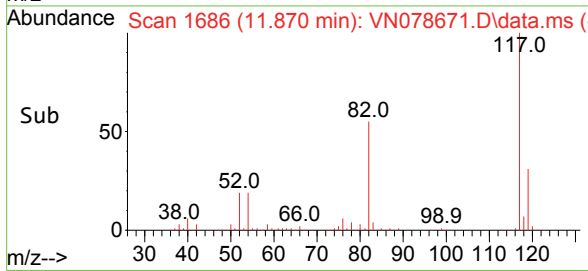
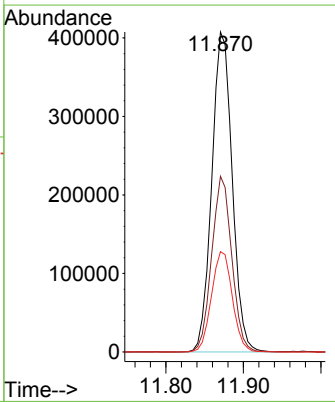
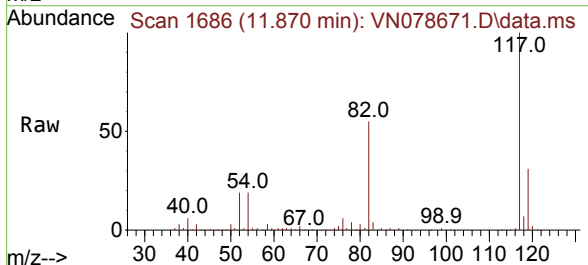
Instrument :
MSVOA_N
ClientSampleId :

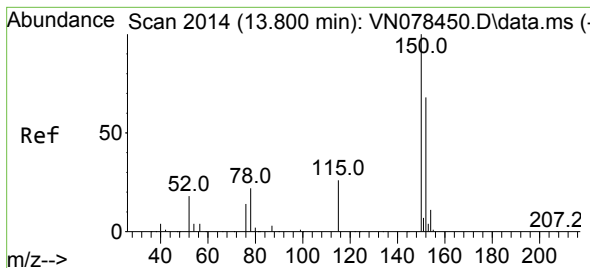
Tgt Ion:	95	Resp:	320451
Ion Ratio	Lower	Upper	
95	100		
174	82.1	0.0	143.8
176	78.4	0.0	135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.001 min
Lab File: VN078671.D
Acq: 27 Jul 2023 19:47

Tgt Ion:	117	Resp:	745611
Ion Ratio	Lower	Upper	
117	100		
82	54.9	44.0	66.0
119	31.3	25.6	38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 20

Delta R.T. -0.000 min

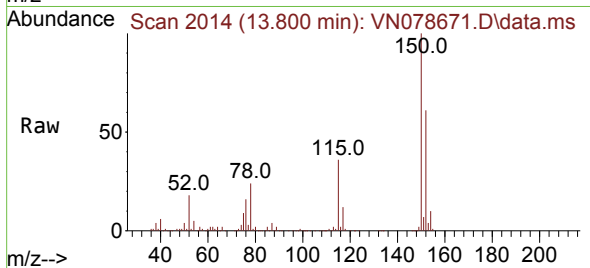
Lab File: VN078671.D

Acq: 27 Jul 2023 19:47

Instrument :

MSVOA_N

ClientSampleId :



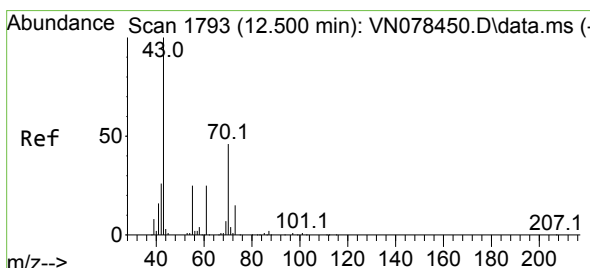
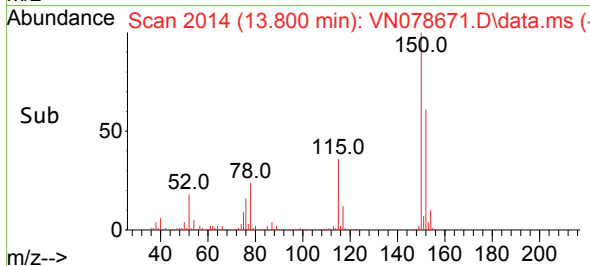
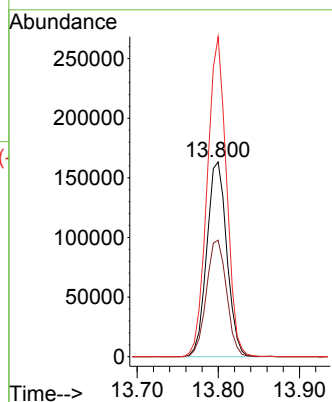
Tgt Ion:152 Resp: 279696

Ion Ratio Lower Upper

152 100

115 60.3 32.3 96.8

150 157.9 0.0 355.8



#74

N-ethyl acetate

Concen: 0.210 ug/l

RT: 12.482 min Scan# 1790

Delta R.T. -0.018 min

Lab File: VN078671.D

Acq: 27 Jul 2023 19:47

Tgt Ion: 43 Resp: 1906

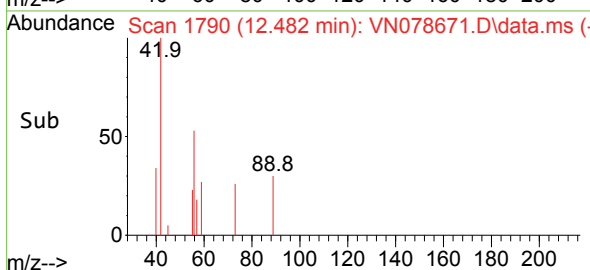
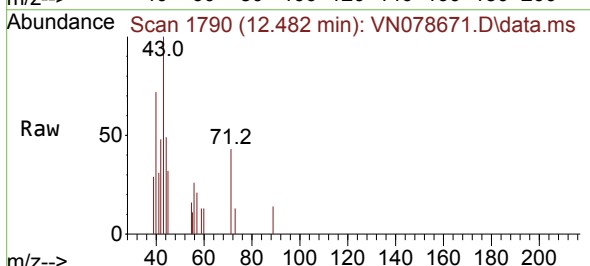
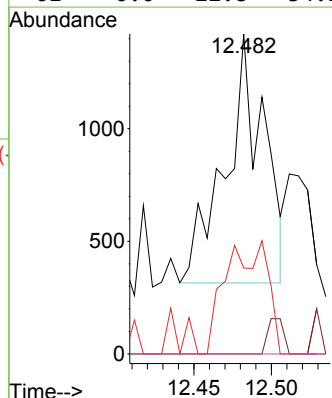
Ion Ratio Lower Upper

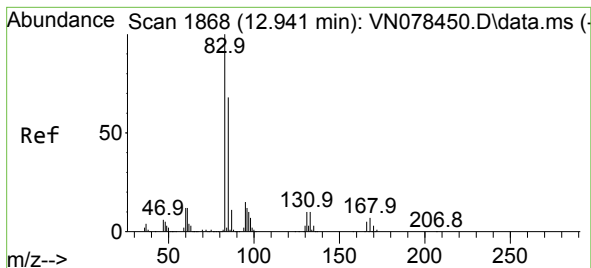
43 100

70 5.8 43.4 65.2#

55 49.2 21.4 32.0#

61 0.0 22.8 34.2#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.947 min Scan# 1869

Delta R.T. 0.006 min

Lab File: VN078671.D

Acq: 27 Jul 2023 19:47

Instrument :

MSVOA_N

ClientSampleId :

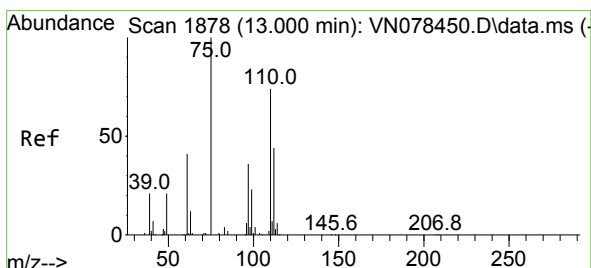
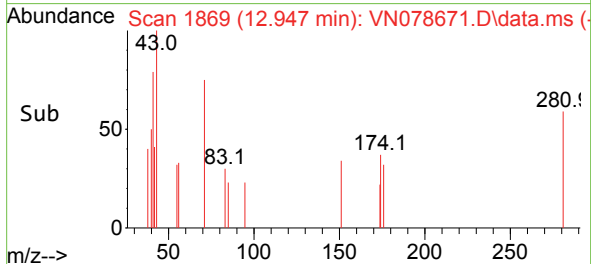
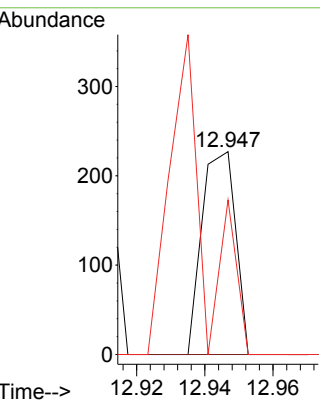
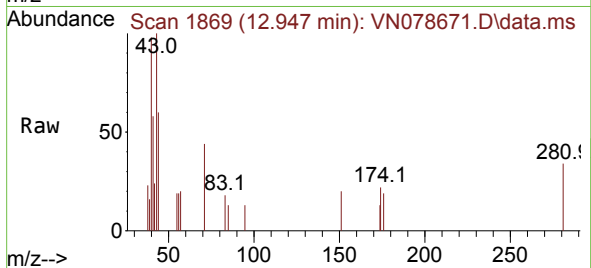
Tgt Ion: 83 Resp: 155

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 165.2 31.9 95.7#



#76

1,2,3-Trichloropropane

Concen: 24.815 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078671.D

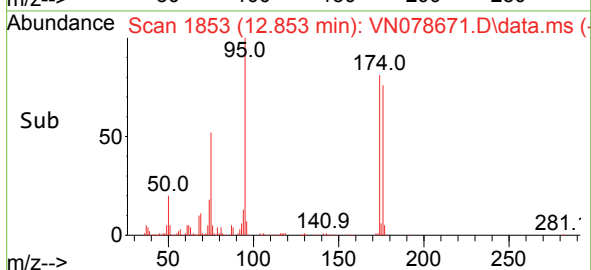
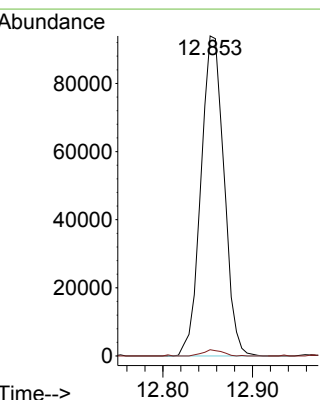
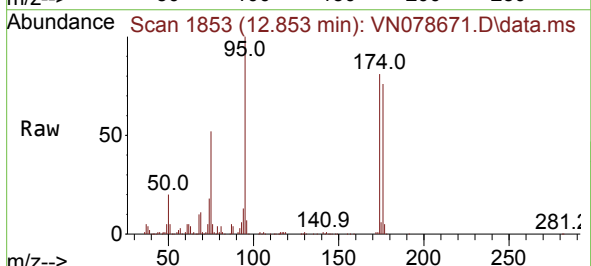
Acq: 27 Jul 2023 19:47

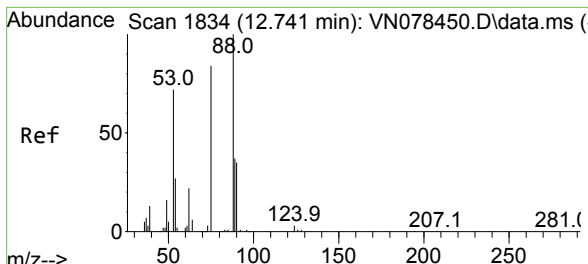
Tgt Ion: 75 Resp: 167763

Ion Ratio Lower Upper

75 100

77 1.7 84.5 253.5#

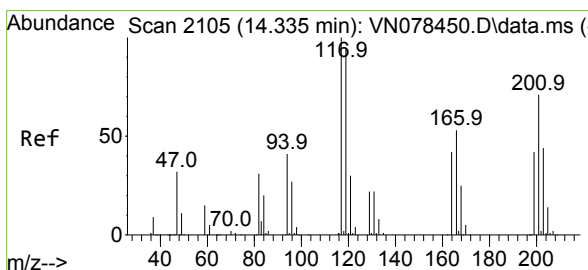
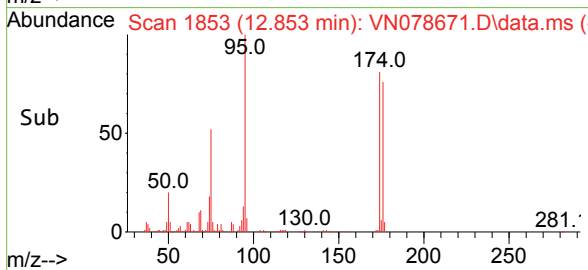
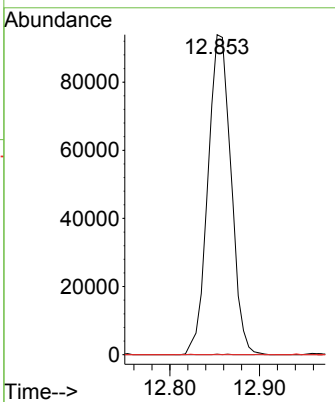
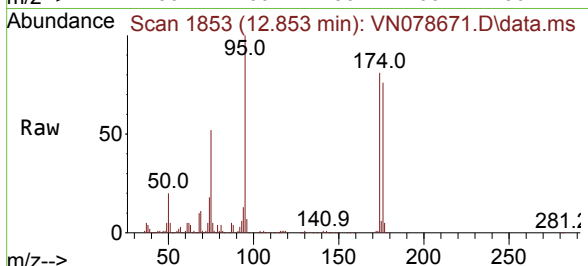




#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.209 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078671.D
 Acq: 27 Jul 2023 19:47

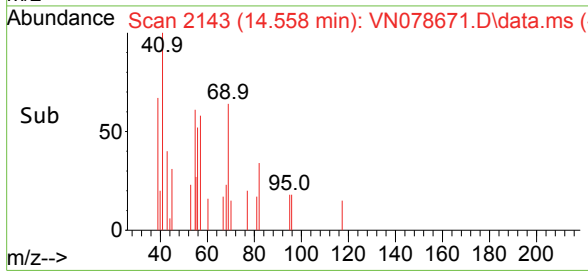
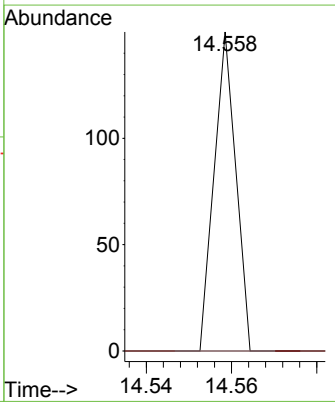
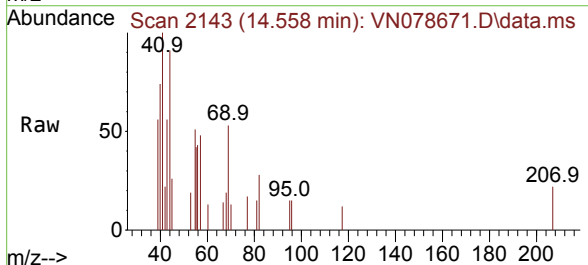
Instrument :
 MSVOA_N
 ClientSampleId :

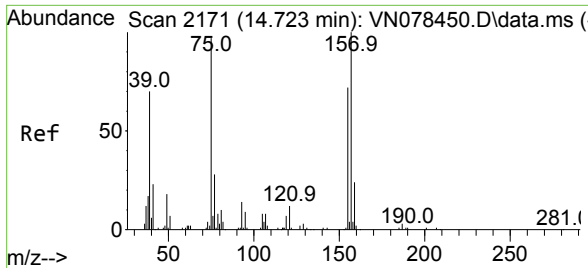
Tgt Ion:	75	Resp:	167763
Ion Ratio	Lower	Upper	
75	100		
53	0.1	67.4	101.2#
89	0.0	38.8	58.2#



#90
 Hexachloroethane
 Concen: Below Cal
 RT: 14.558 min Scan# 2143
 Delta R.T. 0.223 min
 Lab File: VN078671.D
 Acq: 27 Jul 2023 19:47

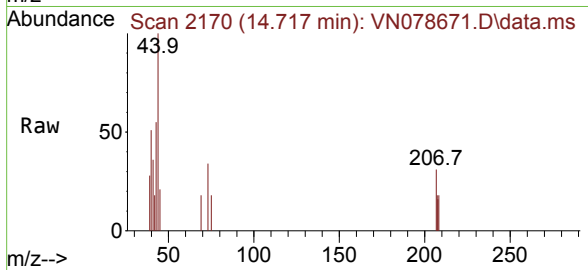
Tgt Ion:	117	Resp:	53
Ion Ratio	Lower	Upper	
117	100		
201	0.0	29.3	88.0#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.717 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN078671.D
 Acq: 27 Jul 2023 19:47

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
75	100		
155	78.4	39.1	117.2
157	0.0	50.3	150.9#

