

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090223\
 Data File : VN079153.D
 Acq On : 02 Sep 2023 19:11
 Operator : JC\MD
 Sample : 04274-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RT2683

Quant Time: Sep 04 01:09:09 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081523W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 16 02:42:02 2023
 Response via : Initial Calibration

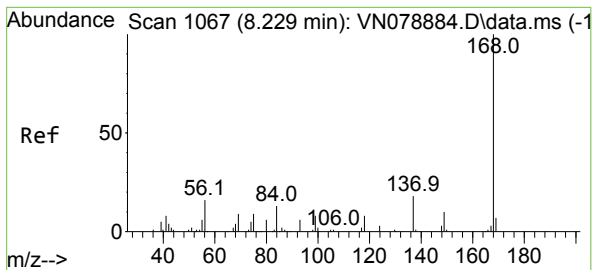
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.230	168	257082	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	495705	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	477028	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	151265	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	194731	48.678	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.360%		
35) Dibromofluoromethane	8.171	113	173467	51.986	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	103.980%		
50) Toluene-d8	10.571	98	610948	49.310	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.620%		
62) 4-Bromofluorobenzene	12.853	95	196100	48.423	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	96.840%		
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.977	74	1431	0.710	ug/l #	56
11) Tert butyl alcohol	5.530	59	1429	2.129	ug/l #	72
13) Acrolein	4.271	56	61	6.990	ug/l #	16
16) Acetone	4.442	43	30024	18.189	ug/l	90
18) Methyl Acetate	5.048	43	7315	1.049	ug/l #	85
20) Methylene Chloride	5.289	84	18681	5.311	ug/l #	88
25) 2-Butanone	7.494	43	7954	3.006	ug/l #	87
31) Cyclohexane	8.236	56	6008	Below Cal	#	25
36) 1,1-Dichloropropene	8.230	75	21323	4.248	ug/l #	49
37) Ethyl Acetate	7.571	43	4601	0.819	ug/l #	73
38) Carbon Tetrachloride	8.224	117	26239	5.217	ug/l #	16
40) Benzene	8.606	78	200666	13.525	ug/l	98
42) 1,2-Dichloroethane	8.612	62	1708	0.308	ug/l	93
43) Isopropyl Acetate	8.694	43	194679	19.612	ug/l #	76
45) 1,2-Dichloropropane	9.747	63	1617	0.409	ug/l #	45
48) Methyl methacrylate	9.671	41	3479	0.773	ug/l #	34
49) 1,4-Dioxane	9.677	88	66	0.861	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	28244	4.797	ug/l #	82
52) Toluene	10.635	92	32124	3.527	ug/l	94
54) cis-1,3-Dichloropropene	10.365	75	55991	8.961	ug/l #	66
56) Ethyl methacrylate	10.988	69	2297	0.406	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	5079	0.777	ug/l #	42
59) 2-Hexanone	11.177	43	194254	45.555	ug/l #	19
67) Ethyl Benzene	11.971	91	16100	0.872	ug/l	97
68) m/p-Xylenes	12.076	106	3535	0.512	ug/l #	72
69) o-Xylene	12.412	106	1555	0.232	ug/l	91
76) 1,2,3-Trichloropropane	12.853	75	100036	27.447	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	100036	70.114	ug/l #	15
95) Naphthalene	15.635	128	1068	2.720	ug/l #	70

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN079153.D

Acq: 02 Sep 2023 19:11

Instrument :

MSVOA_N

ClientSampleId :

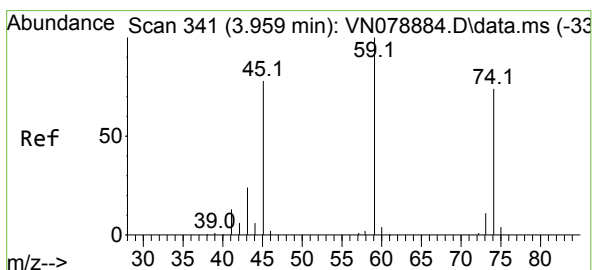
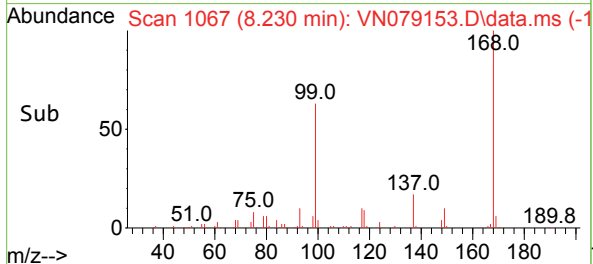
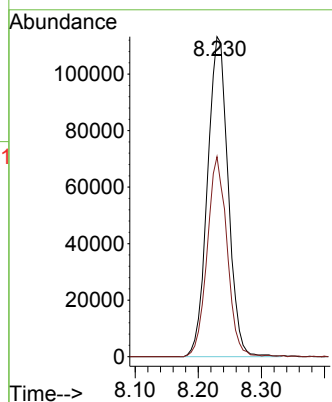
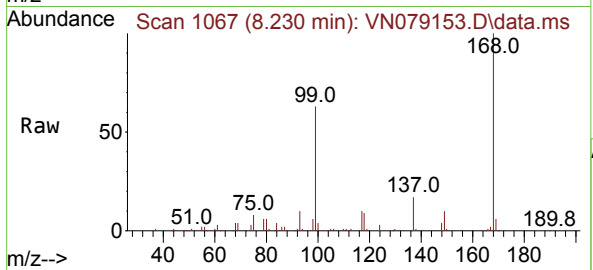
RT2683

Tgt Ion:168 Resp: 257082

Ion Ratio Lower Upper

168 100

99 62.5 53.0 79.6



#8

Diethyl Ether

Concen: 0.710 ug/l

RT: 3.977 min Scan# 344

Delta R.T. 0.006 min

Lab File: VN079153.D

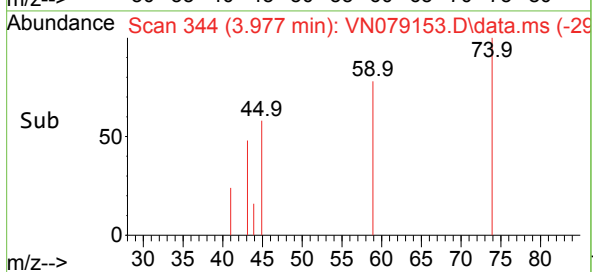
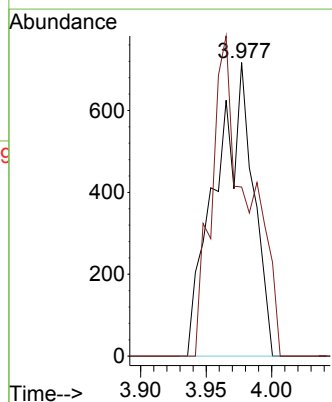
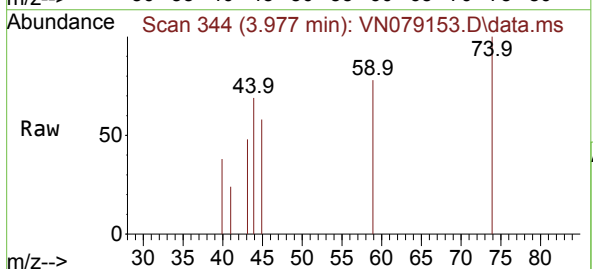
Acq: 02 Sep 2023 19:11

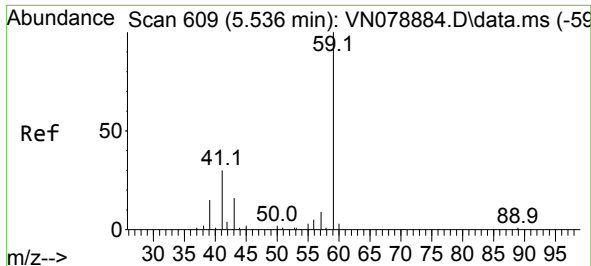
Tgt Ion: 74 Resp: 1431

Ion Ratio Lower Upper

74 100

45 104.3 34.4 103.3#

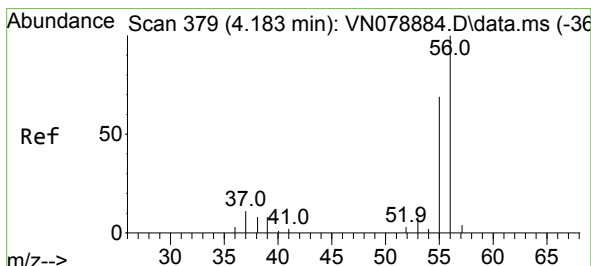
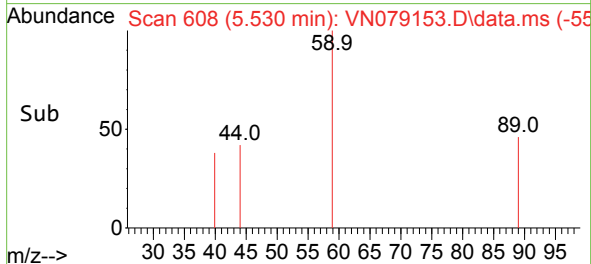
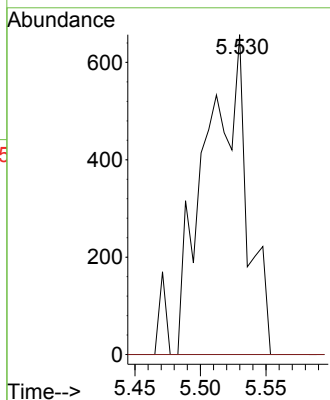
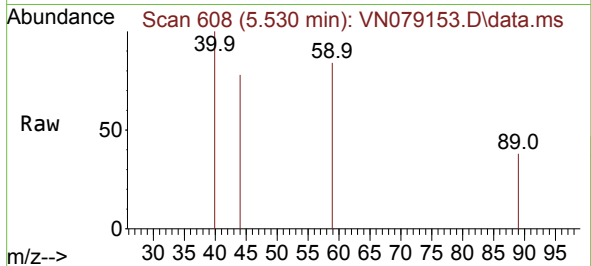




#11
Tert butyl alcohol
Concen: 2.129 ug/l
RT: 5.530 min Scan# 609
Delta R.T. -0.012 min
Lab File: VN079153.D
Acq: 02 Sep 2023 19:11

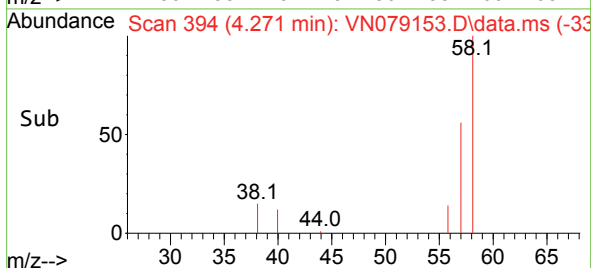
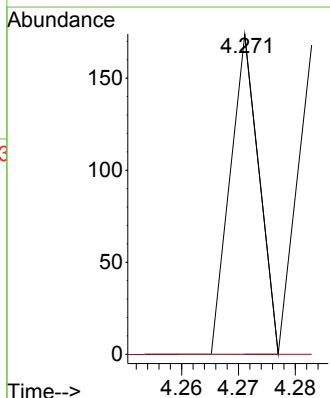
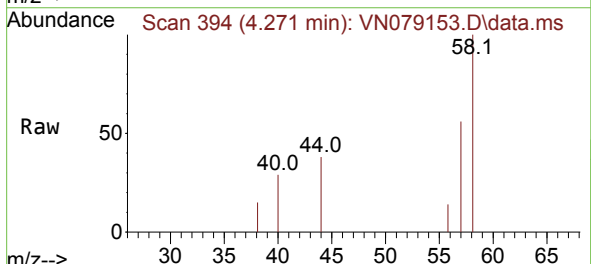
Instrument :
MSVOA_N
ClientSampleId :
RT2683

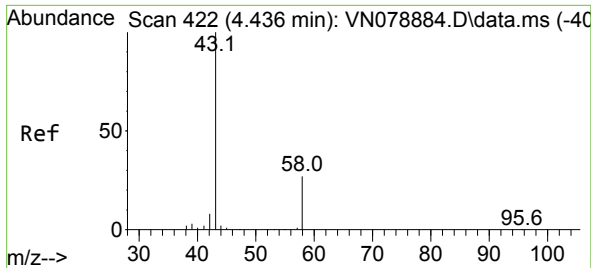
Tgt Ion: 59 Resp: 1429
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 6.990 ug/l
RT: 4.271 min Scan# 394
Delta R.T. 0.076 min
Lab File: VN079153.D
Acq: 02 Sep 2023 19:11

Tgt Ion: 56 Resp: 61
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#





#16

Acetone

Concen: 18.189 ug/l

RT: 4.442 min Scan# 43

Delta R.T. -0.000 min

Lab File: VN079153.D

Acq: 02 Sep 2023 19:11

Instrument :

MSVOA_N

ClientSampleId :

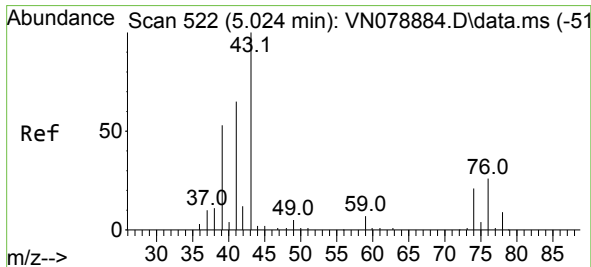
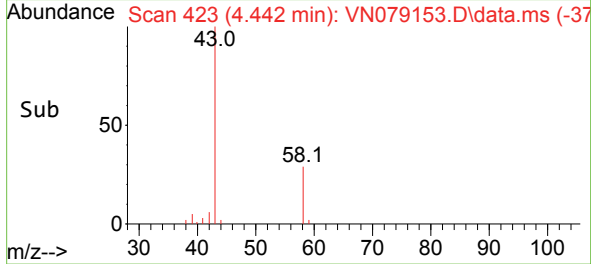
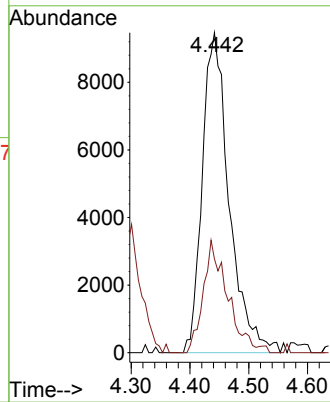
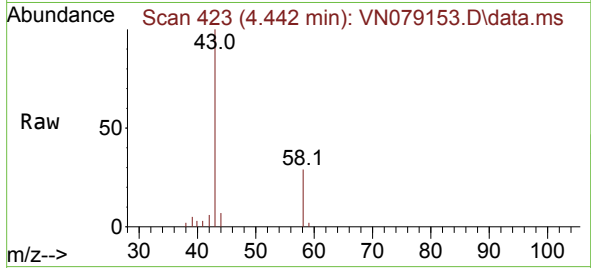
RT2683

Tgt Ion: 43 Resp: 30024

Ion Ratio Lower Upper

43 100

58 29.3 28.0 42.0



#18

Methyl Acetate

Concen: 1.049 ug/l

RT: 5.048 min Scan# 526

Delta R.T. 0.006 min

Lab File: VN079153.D

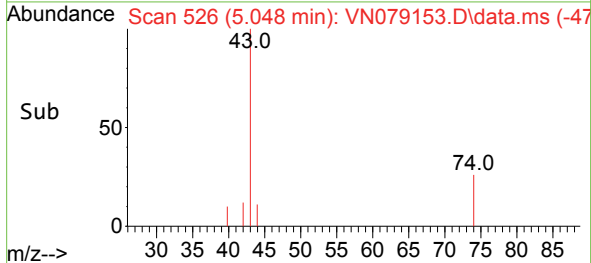
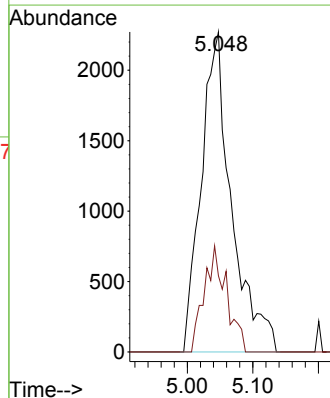
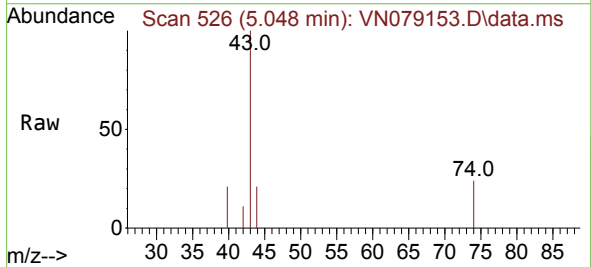
Acq: 02 Sep 2023 19:11

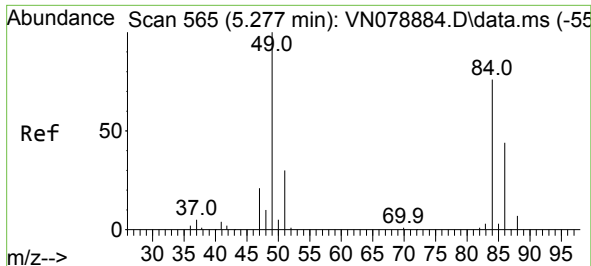
Tgt Ion: 43 Resp: 7315

Ion Ratio Lower Upper

43 100

74 24.4 26.2 39.4#

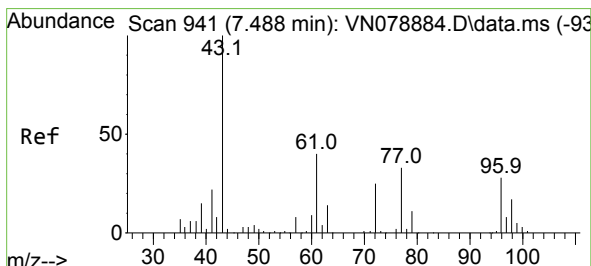
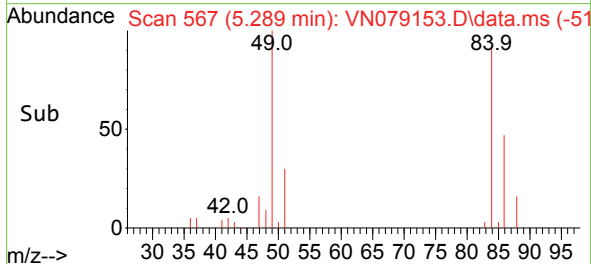
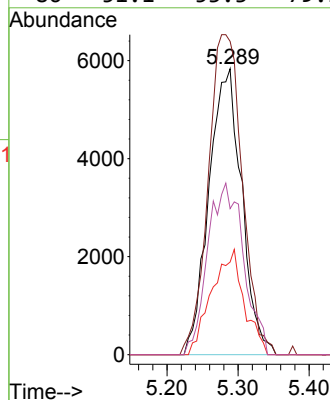
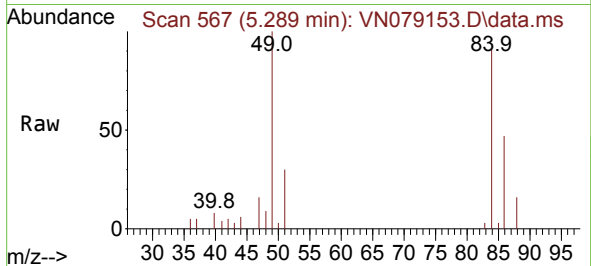




#20
Methylene Chloride
Concen: 5.311 ug/l
RT: 5.289 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN079153.D
Acq: 02 Sep 2023 19:11

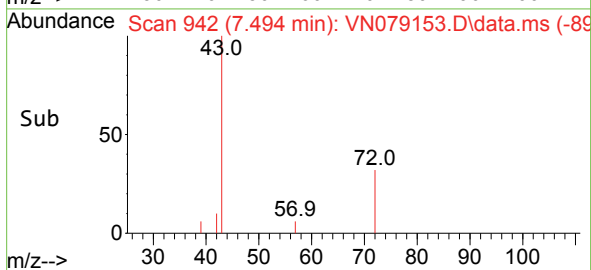
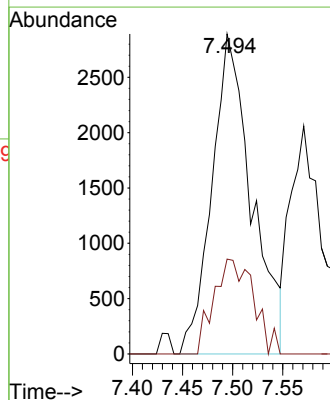
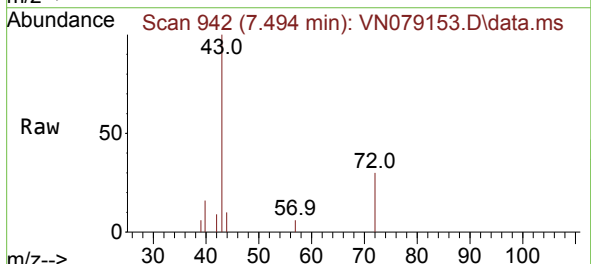
Instrument :
MSVOA_N
ClientSampleId :
RT2683

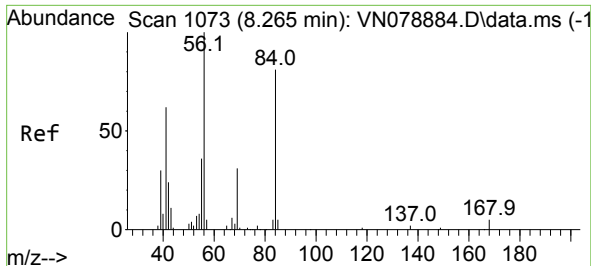
Tgt Ion:	84	Resp:	18681
Ion	Ratio	Lower	Upper
84	100		
49	109.6	79.7	119.5
51	32.4	25.2	37.8
86	51.1	53.3	79.9#



#25
2-Butanone
Concen: 3.006 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.000 min
Lab File: VN079153.D
Acq: 02 Sep 2023 19:11

Tgt Ion:	43	Resp:	7954
Ion	Ratio	Lower	Upper
43	100		
72	29.7	30.2	45.2#

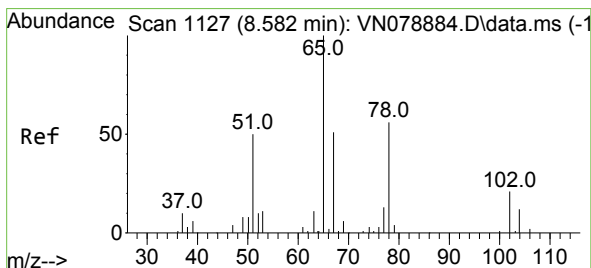
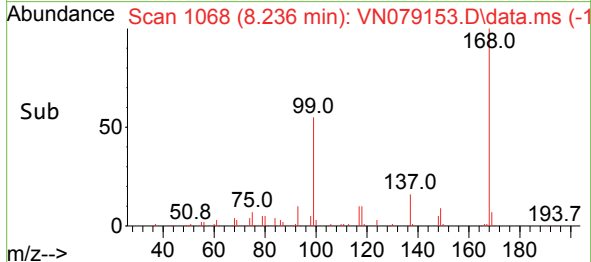
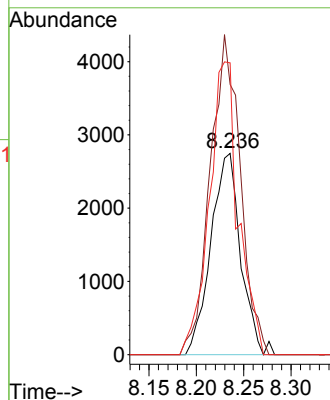
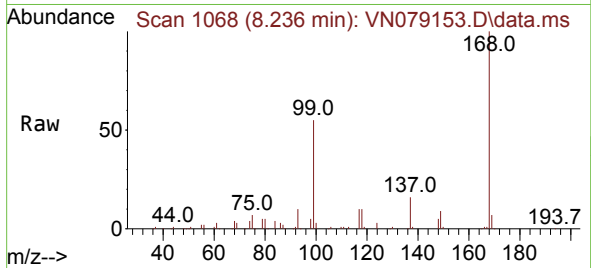




#31
Cyclohexane
Concen: Below Cal
RT: 8.236 min Scan# 1068
Delta R.T. -0.029 min
Lab File: VN079153.D
Acq: 02 Sep 2023 19:11

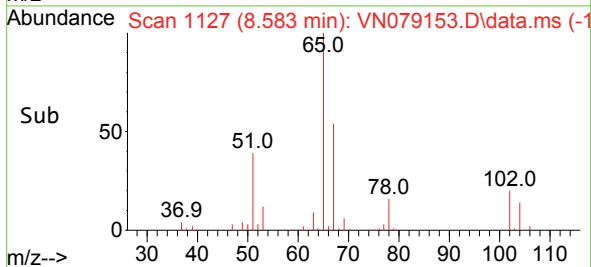
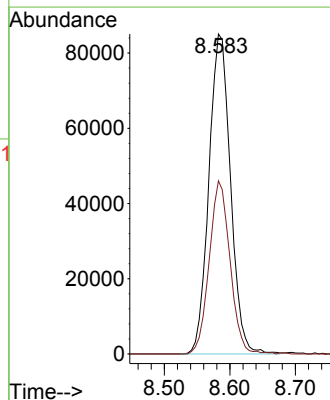
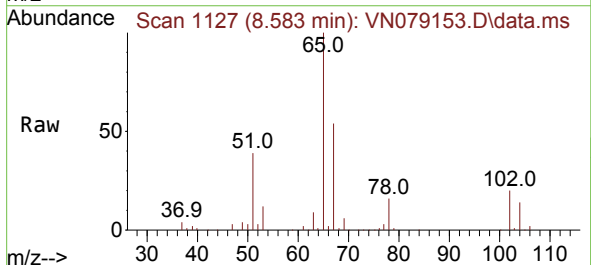
Instrument :
MSVOA_N
ClientSampleId :
RT2683

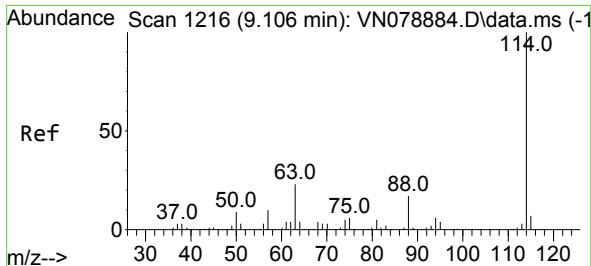
Tgt Ion: 56 Resp: 6008
Ion Ratio Lower Upper
56 100
69 134.2 26.8 40.2#
84 144.9 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 48.678 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN079153.D
Acq: 02 Sep 2023 19:11

Tgt Ion: 65 Resp: 194731
Ion Ratio Lower Upper
65 100
67 52.1 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN079153.D

Acq: 02 Sep 2023 19:11

Instrument :

MSVOA_N

ClientSampleId :

RT2683

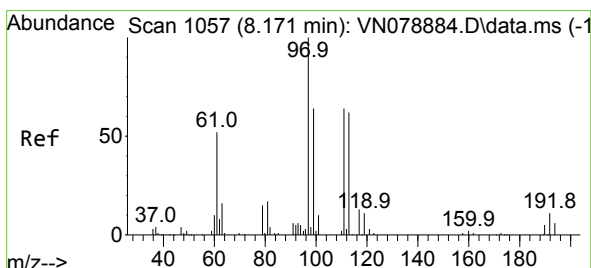
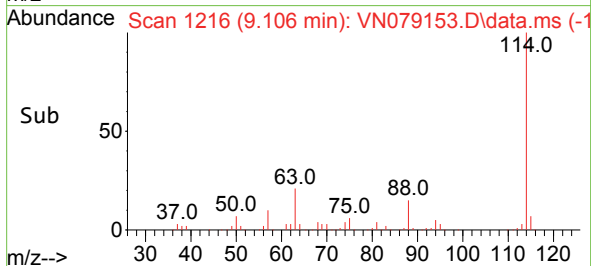
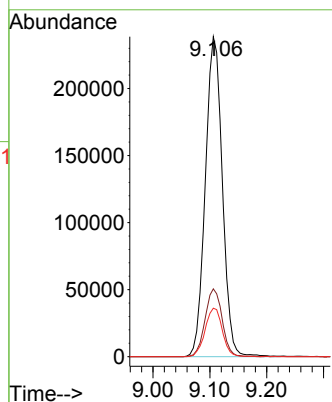
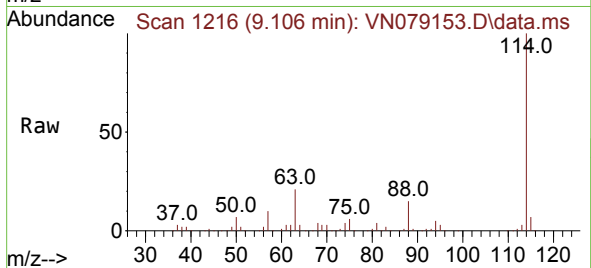
Tgt Ion:114 Resp: 495705

Ion Ratio Lower Upper

114 100

63 21.2 0.0 36.4

88 15.1 0.0 30.6



#35

Dibromofluoromethane

Concen: 51.986 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN079153.D

Acq: 02 Sep 2023 19:11

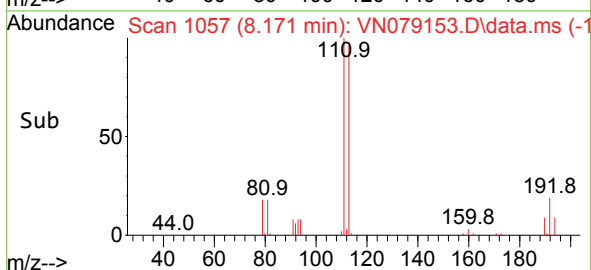
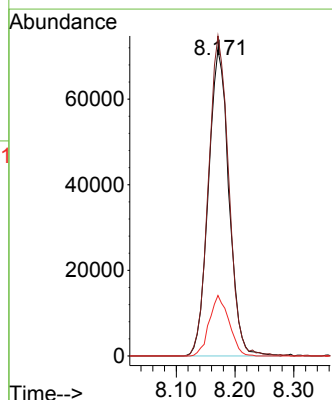
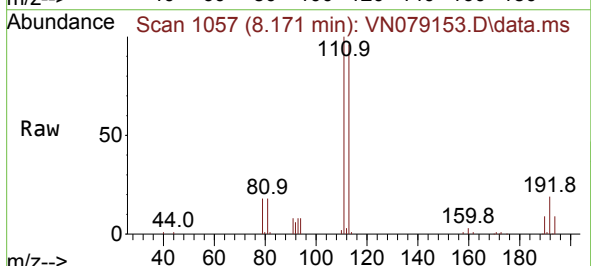
Tgt Ion:113 Resp: 173467

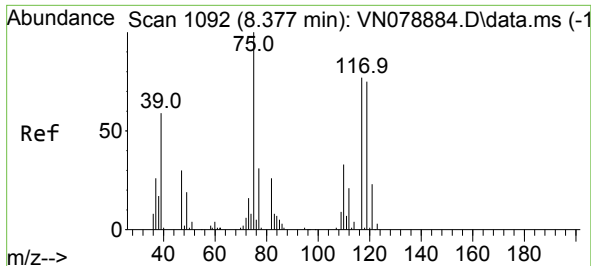
Ion Ratio Lower Upper

113 100

111 103.6 82.6 123.8

192 19.0 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.248 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN079153.D

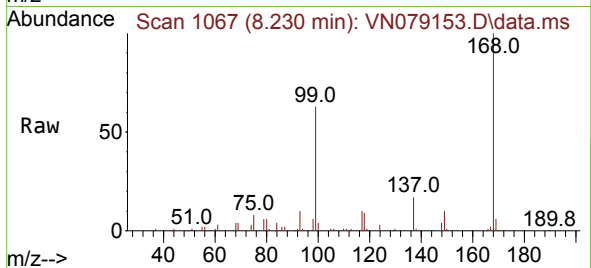
Acq: 02 Sep 2023 19:11

Instrument :

MSVOA_N

ClientSampleId :

RT2683



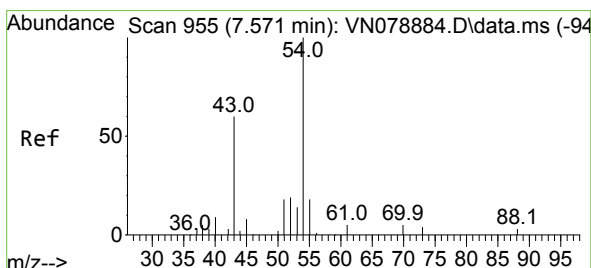
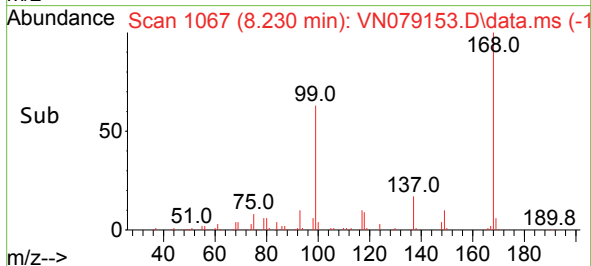
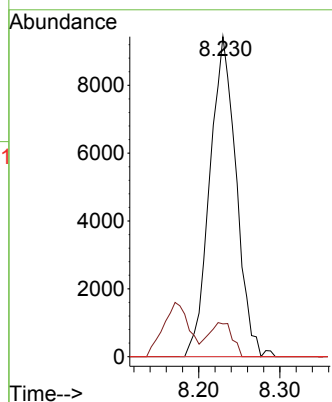
Tgt Ion: 75 Resp: 21323

Ion Ratio Lower Upper

75 100

110 9.7 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 0.819 ug/l

RT: 7.571 min Scan# 955

Delta R.T. -0.000 min

Lab File: VN079153.D

Acq: 02 Sep 2023 19:11

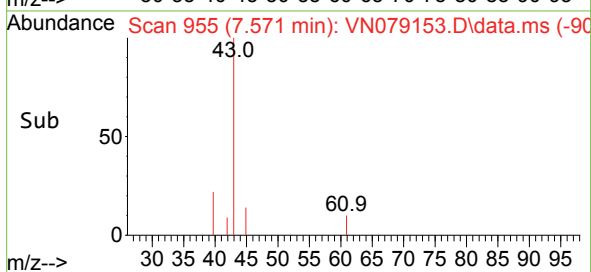
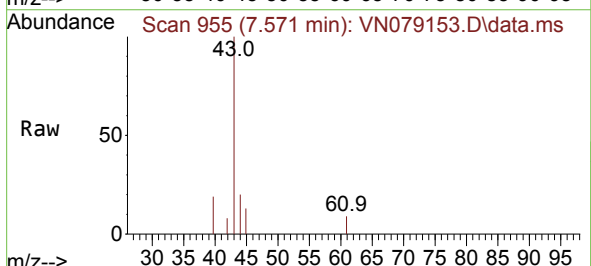
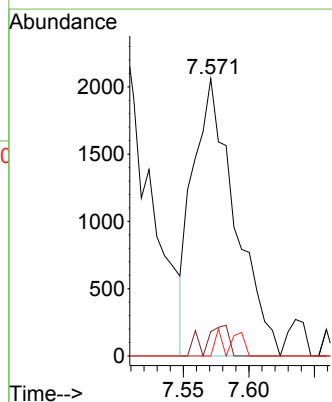
Tgt Ion: 43 Resp: 4601

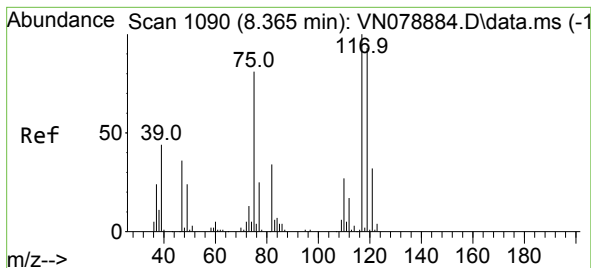
Ion Ratio Lower Upper

43 100

61 6.2 13.2 19.8#

70 1.5 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 5.217 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN079153.D

Acq: 02 Sep 2023 19:11

Instrument :

MSVOA_N

ClientSampleId :

RT2683

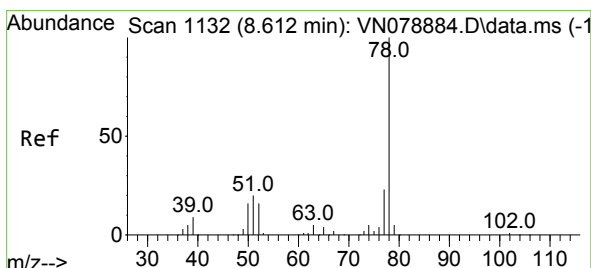
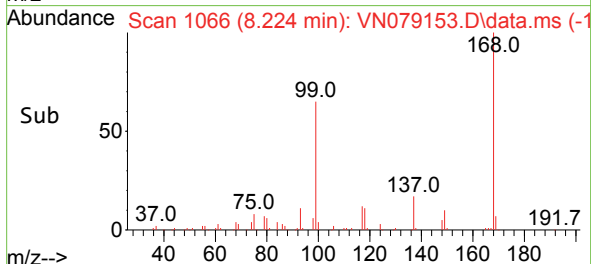
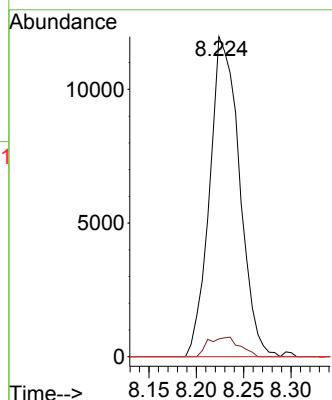
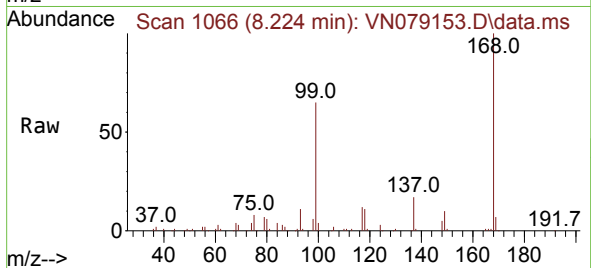
Tgt Ion:117 Resp: 26239

Ion Ratio Lower Upper

117 100

119 5.6 77.3 115.9#

121 0.0 23.3 34.9#



#40

Benzene

Concen: 13.525 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VN079153.D

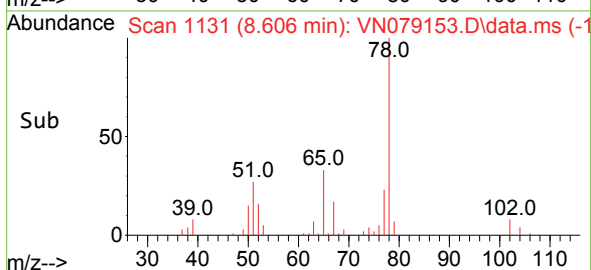
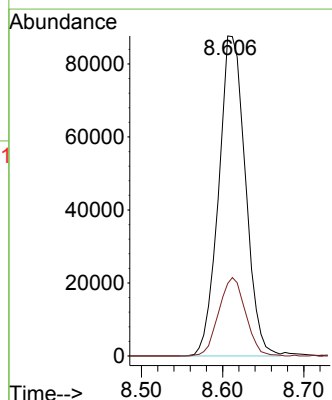
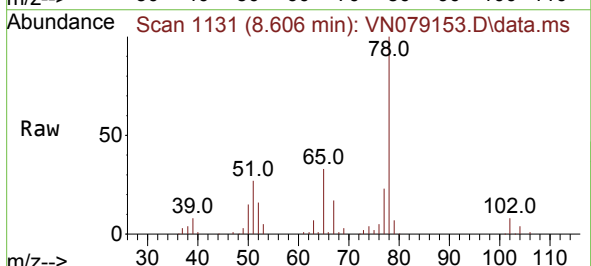
Acq: 02 Sep 2023 19:11

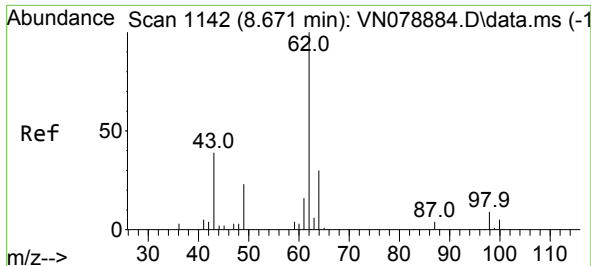
Tgt Ion: 78 Resp: 200666

Ion Ratio Lower Upper

78 100

77 22.7 19.0 28.6





#42

1,2-Dichloroethane

Concen: 0.308 ug/l

RT: 8.612 min Scan# 1142

Delta R.T. -0.065 min

Lab File: VN079153.D

Acq: 02 Sep 2023 19:11

Instrument :

MSVOA_N

ClientSampleId :

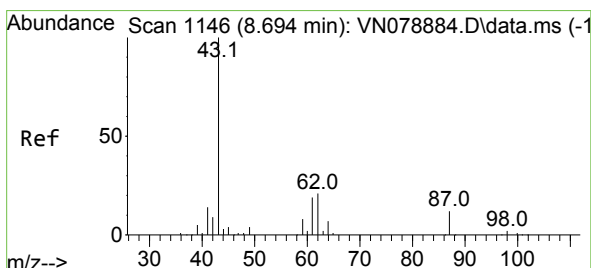
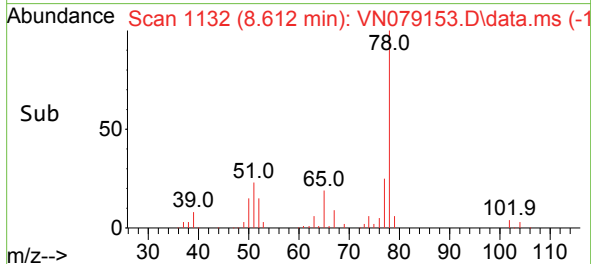
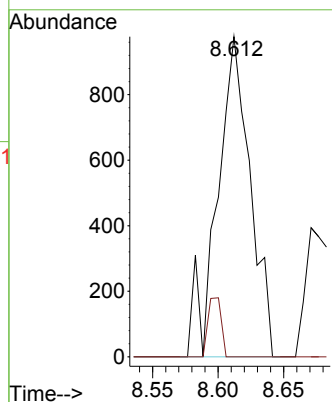
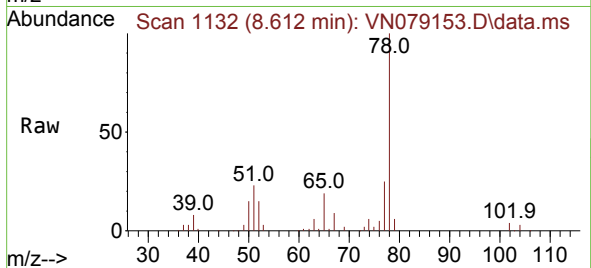
RT2683

Tgt Ion: 62 Resp: 1708

Ion Ratio Lower Upper

62 100

98 7.4 0.0 19.8



#43

Isopropyl Acetate

Concen: 19.612 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN079153.D

Acq: 02 Sep 2023 19:11

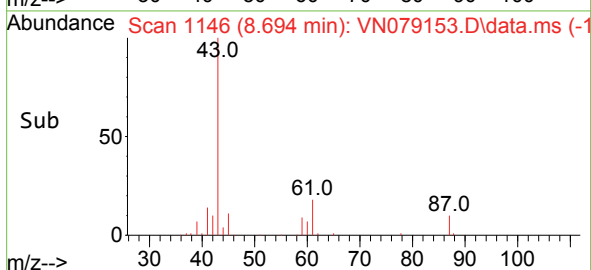
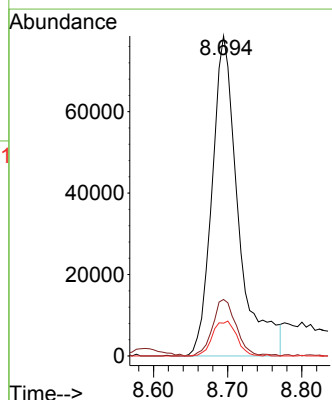
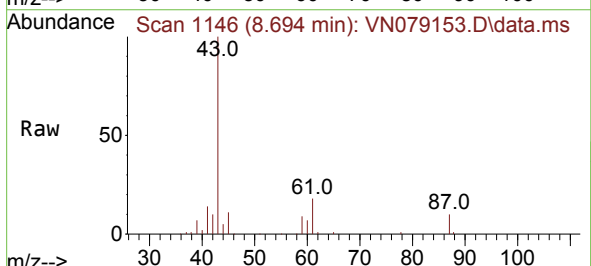
Tgt Ion: 43 Resp: 194679

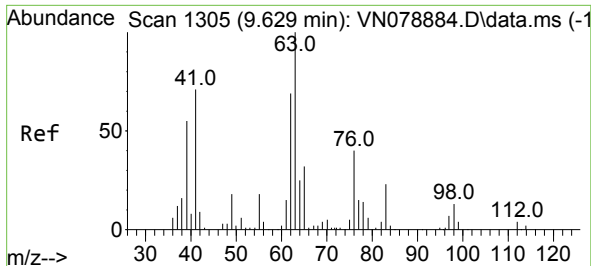
Ion Ratio Lower Upper

43 100

61 15.8 24.7 37.1#

87 9.9 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.409 ug/l

RT: 9.747 min Scan# 1

Delta R.T. 0.123 min

Lab File: VN079153.D

Acq: 02 Sep 2023 19:11

Instrument :

MSVOA_N

ClientSampleId :

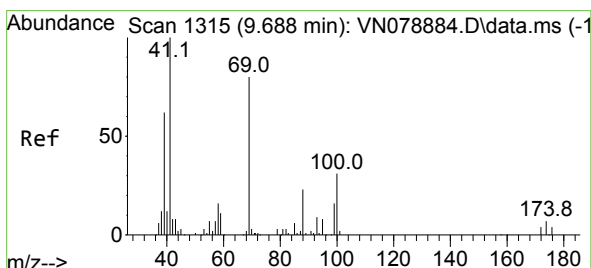
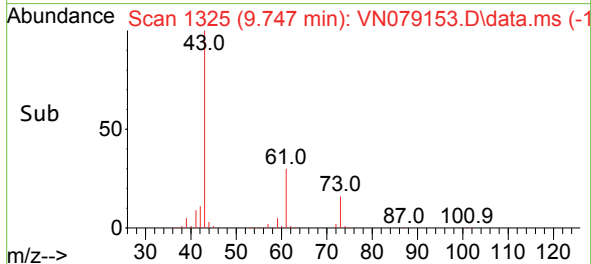
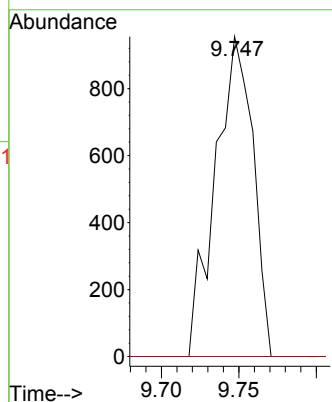
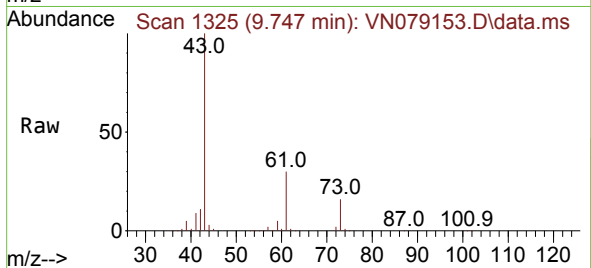
RT2683

Tgt Ion: 63 Resp: 1617

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 0.773 ug/l

RT: 9.671 min Scan# 1312

Delta R.T. -0.017 min

Lab File: VN079153.D

Acq: 02 Sep 2023 19:11

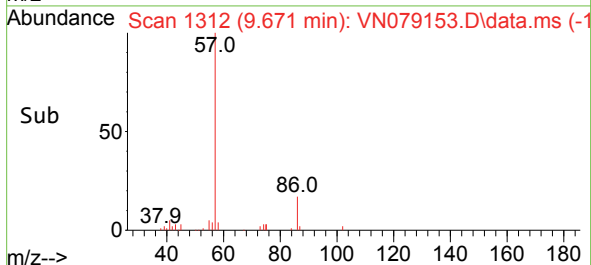
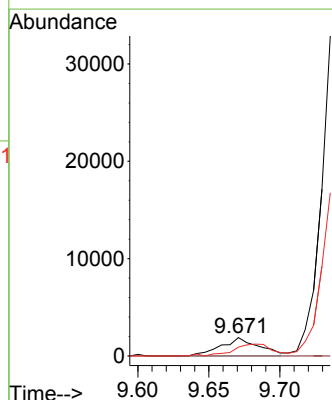
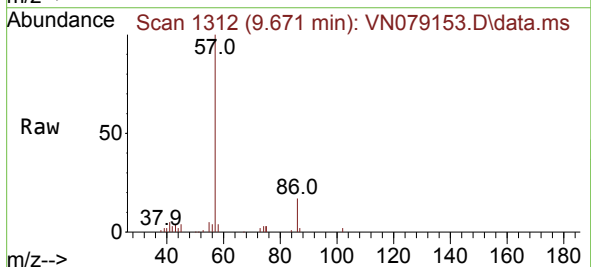
Tgt Ion: 41 Resp: 3479

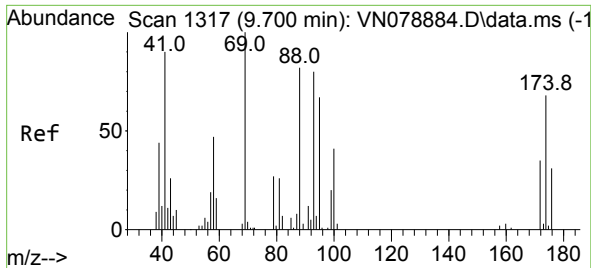
Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 68.1 54.6 81.8

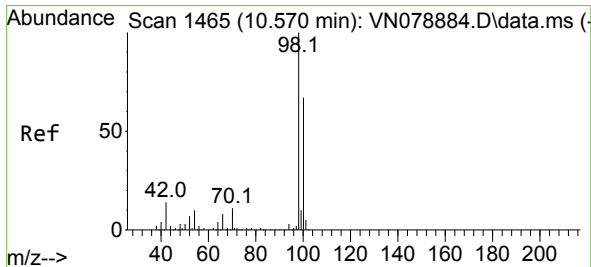
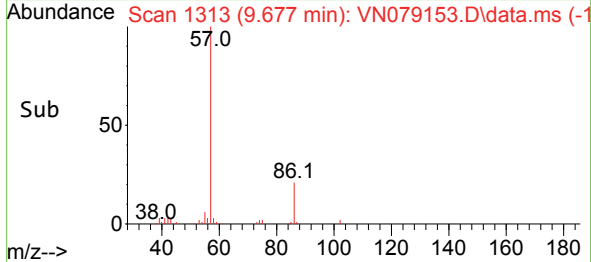
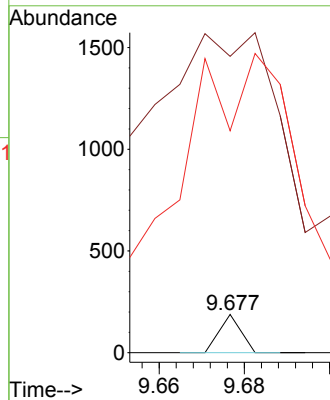
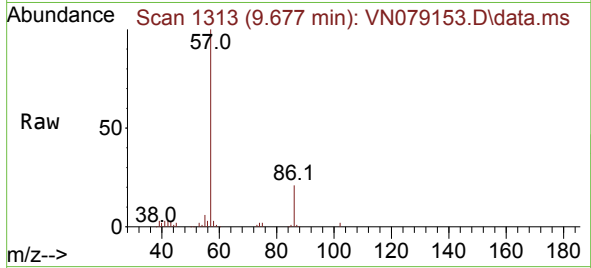




#49
1,4-Dioxane
Concen: 0.861 ug/l
RT: 9.677 min Scan# 11
Delta R.T. -0.023 min
Lab File: VN079153.D
Acq: 02 Sep 2023 19:11

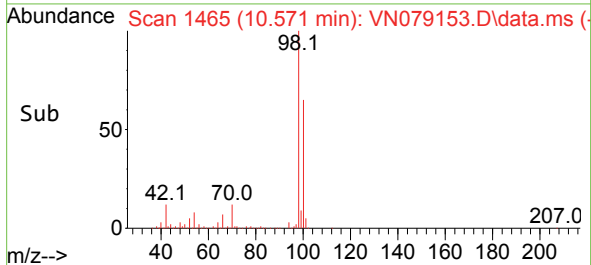
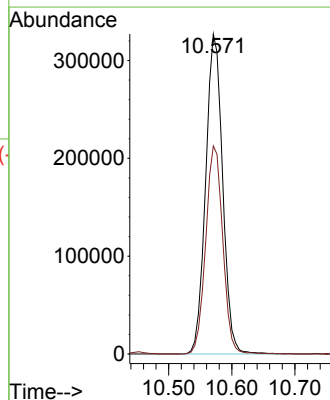
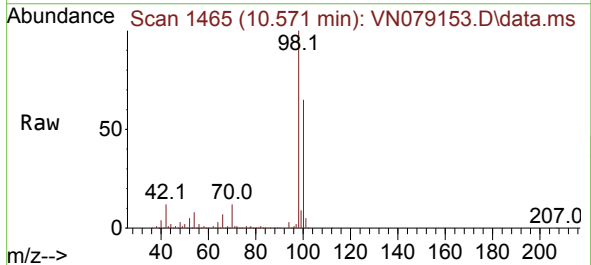
Instrument :
MSVOA_N
ClientSampleId :
RT2683

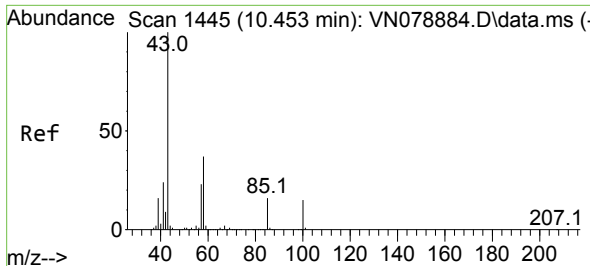
Tgt Ion: 88 Resp: 66
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 4901.5 47.0 70.4#



#50
Toluene-d8
Concen: 49.310 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN079153.D
Acq: 02 Sep 2023 19:11

Tgt Ion: 98 Resp: 610948
Ion Ratio Lower Upper
98 100
100 65.4 52.0 78.0

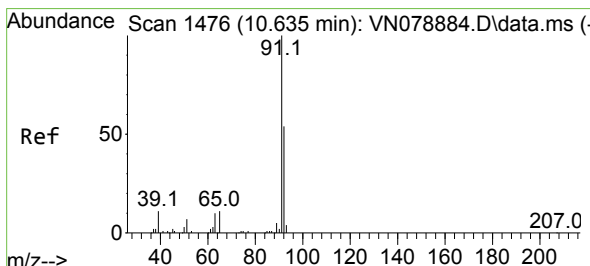
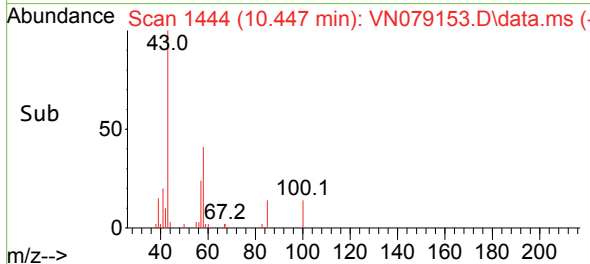
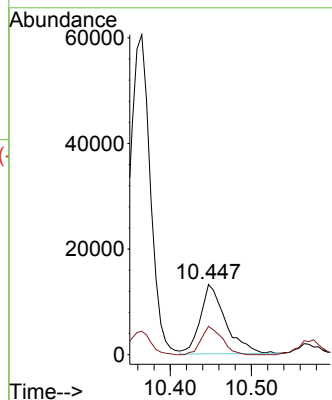
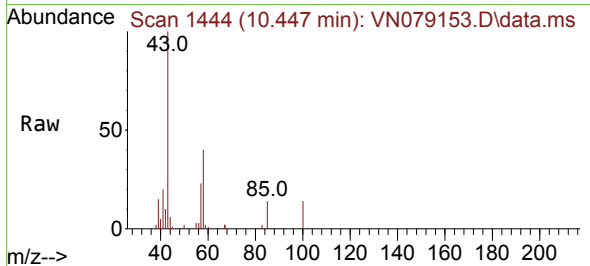




#51
4-Methyl-2-Pentanone
Concen: 4.797 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN079153.D
Acq: 02 Sep 2023 19:11

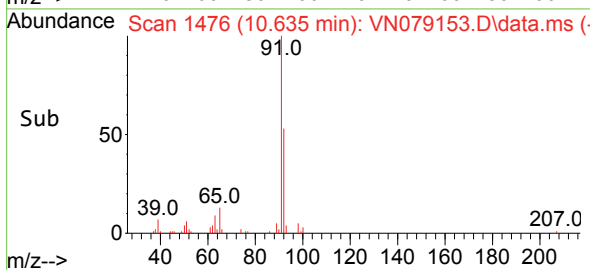
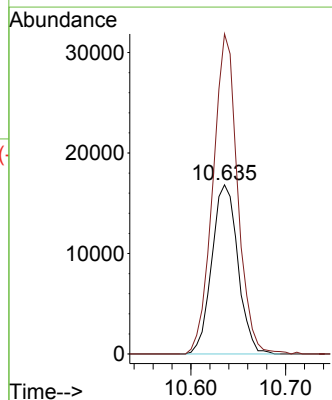
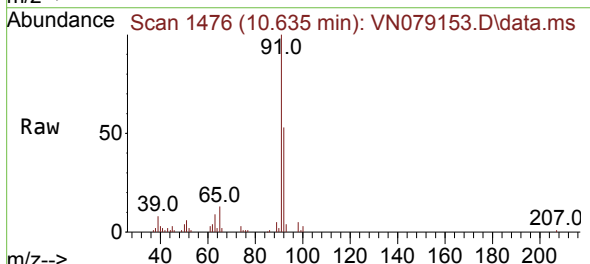
Instrument :
MSVOA_N
ClientSampleId :
RT2683

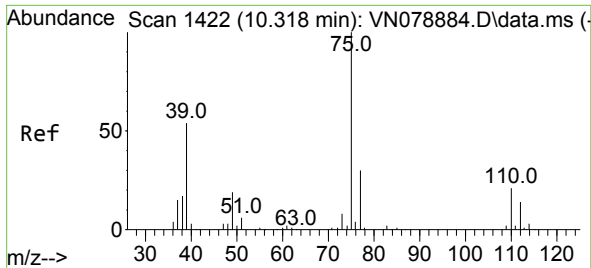
Tgt Ion: 43 Resp: 28244
Ion Ratio Lower Upper
43 100
58 33.8 36.6 54.8#



#52
Toluene
Concen: 3.527 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN079153.D
Acq: 02 Sep 2023 19:11

Tgt Ion: 92 Resp: 32124
Ion Ratio Lower Upper
92 100
91 179.9 137.4 206.0

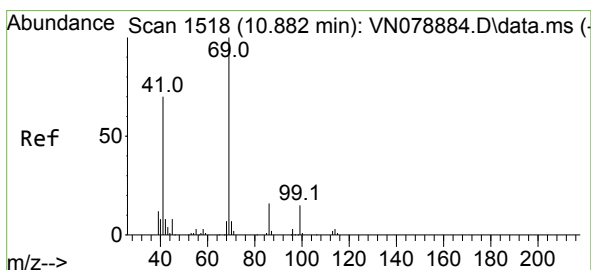
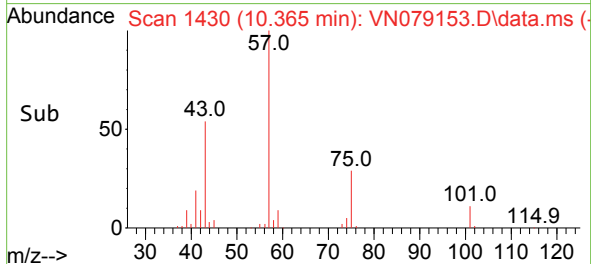
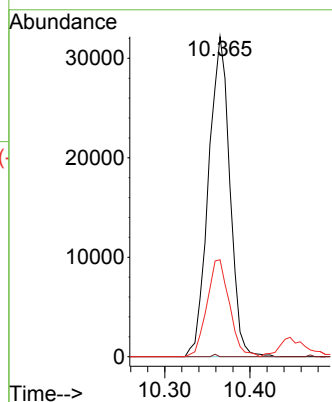
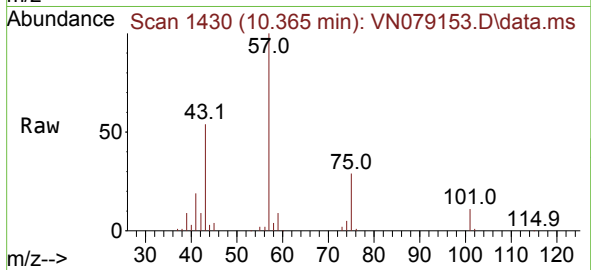




#54
 cis-1,3-Dichloropropene
 Concen: 8.961 ug/l
 RT: 10.365 min Scan# 1422
 Delta R.T. 0.047 min
 Lab File: VN079153.D
 Acq: 02 Sep 2023 19:11

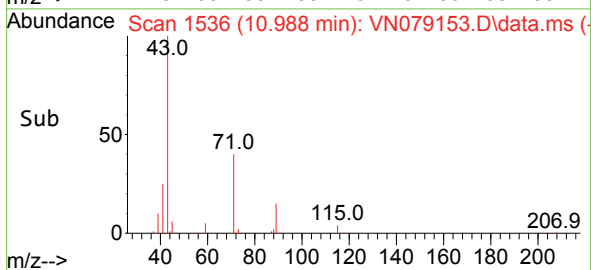
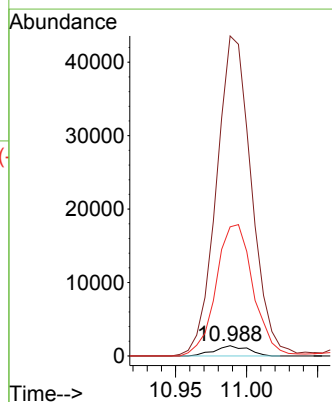
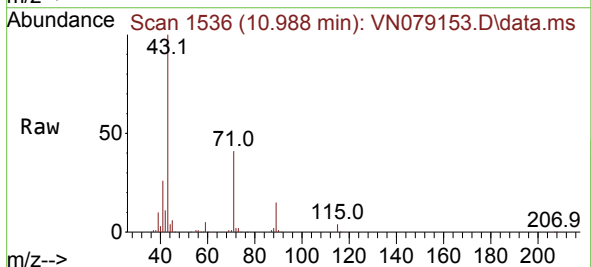
Instrument :
 MSVOA_N
 ClientSampleId :
 RT2683

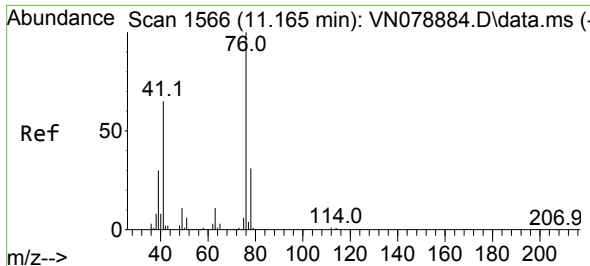
Tgt Ion: 75 Resp: 55991
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.1 39.1#
 39 30.3 31.6 47.4#



#56
 Ethyl methacrylate
 Concen: 0.406 ug/l
 RT: 10.988 min Scan# 1536
 Delta R.T. 0.111 min
 Lab File: VN079153.D
 Acq: 02 Sep 2023 19:11

Tgt Ion: 69 Resp: 2297
 Ion Ratio Lower Upper
 69 100
 41 3263.1 39.6 59.4#
 39 1418.5 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 0.777 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN079153.D

Acq: 02 Sep 2023 19:11

Instrument :

MSVOA_N

ClientSampleId :

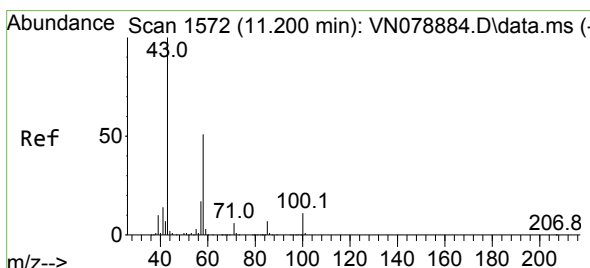
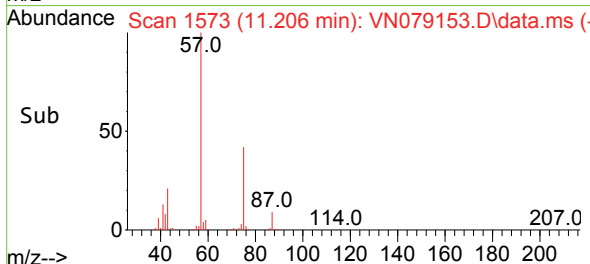
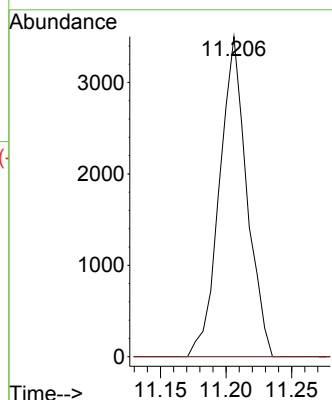
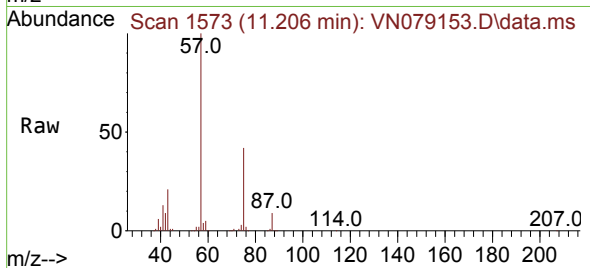
RT2683

Tgt Ion: 76 Resp: 5079

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 45.555 ug/l

RT: 11.177 min Scan# 1568

Delta R.T. -0.023 min

Lab File: VN079153.D

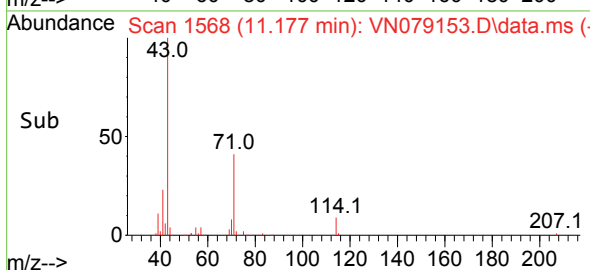
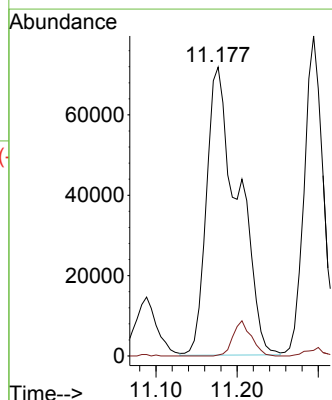
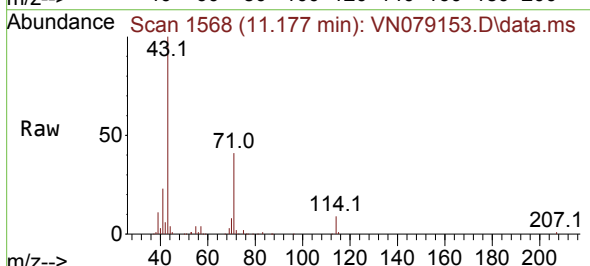
Acq: 02 Sep 2023 19:11

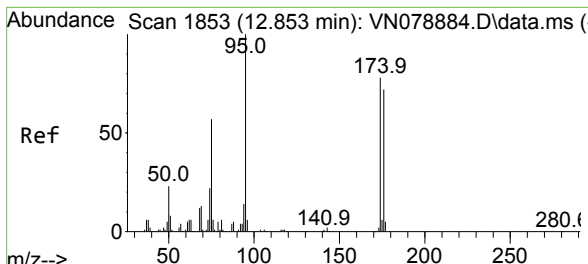
Tgt Ion: 43 Resp: 194254

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

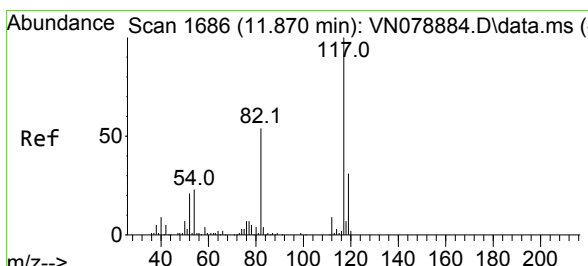
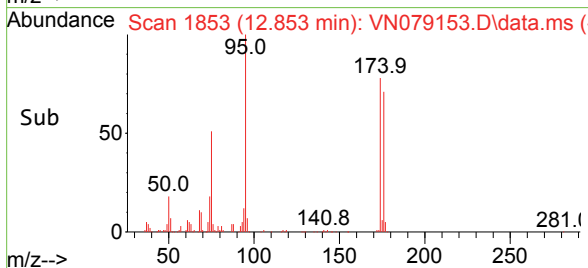
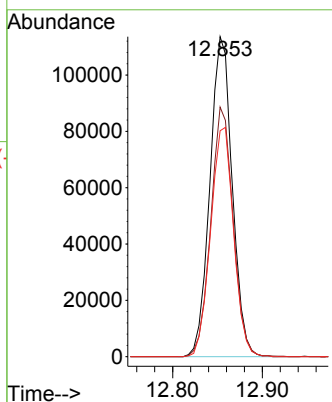
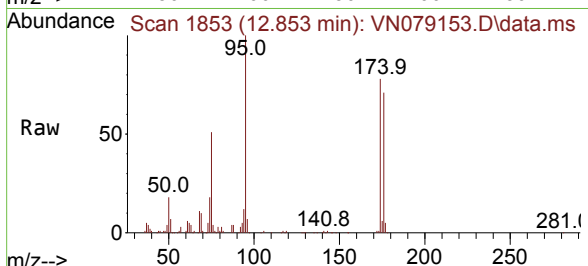




#62
 4-Bromofluorobenzene
 Concen: 48.423 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.000 min
 Lab File: VN079153.D
 Acq: 02 Sep 2023 19:11

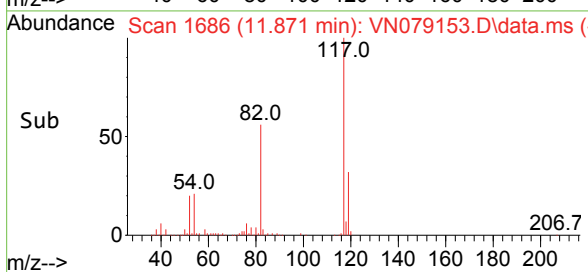
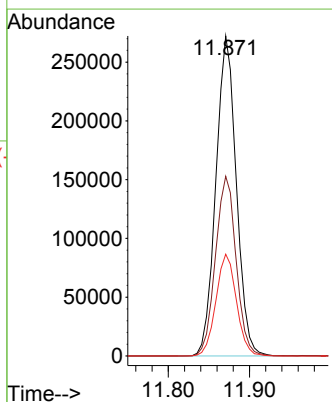
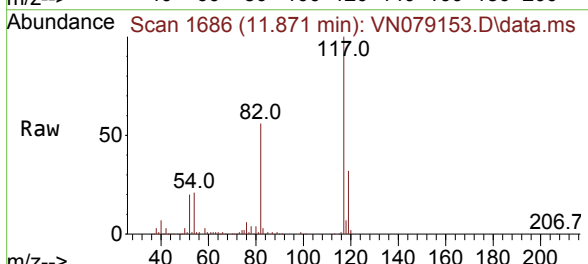
Instrument :
 MSVOA_N
 ClientSampleId :
 RT2683

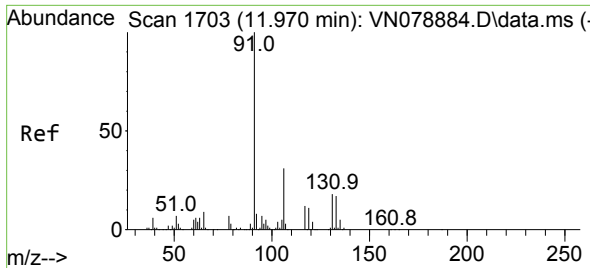
Tgt Ion:	95	Resp:	196100
Ion	Ratio	Lower	Upper
95	100		
174	78.2	0.0	143.8
176	73.8	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.871 min Scan# 1686
 Delta R.T. -0.000 min
 Lab File: VN079153.D
 Acq: 02 Sep 2023 19:11

Tgt Ion:	117	Resp:	477028
Ion	Ratio	Lower	Upper
117	100		
82	56.2	44.0	66.0
119	31.8	25.6	38.4

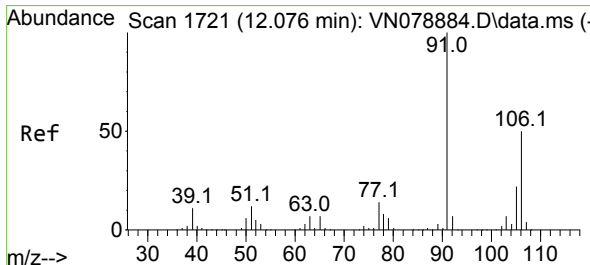
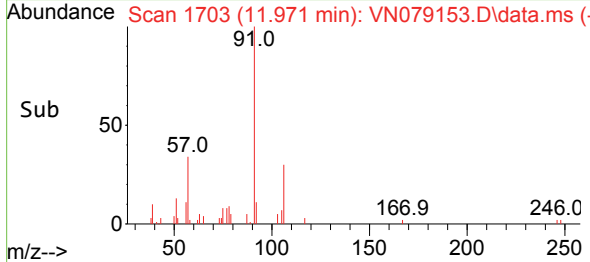
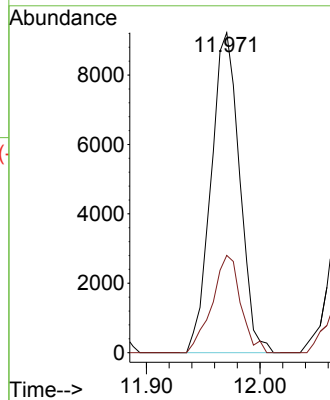
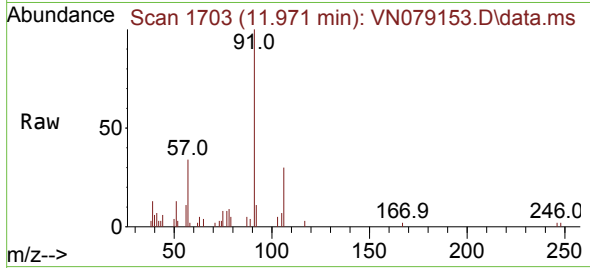




#67
Ethyl Benzene
Concen: 0.872 ug/l
RT: 11.971 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VN079153.D
Acq: 02 Sep 2023 19:11

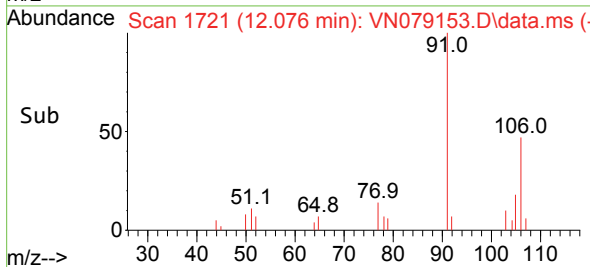
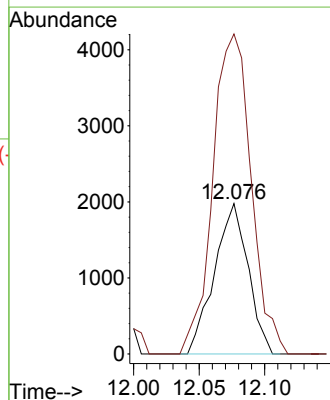
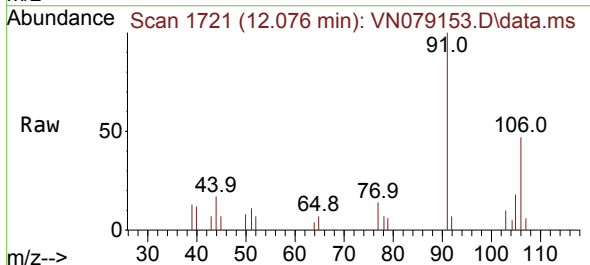
Instrument :
MSVOA_N
ClientSampleId :
RT2683

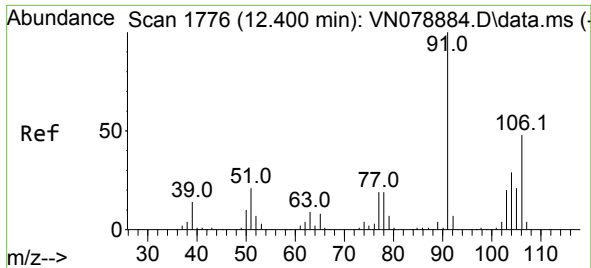
Tgt Ion: 91 Resp: 16100
Ion Ratio Lower Upper
91 100
106 30.4 25.6 38.4



#68
m/p-Xylenes
Concen: 0.512 ug/l
RT: 12.076 min Scan# 1721
Delta R.T. 0.000 min
Lab File: VN079153.D
Acq: 02 Sep 2023 19:11

Tgt Ion: 106 Resp: 3535
Ion Ratio Lower Upper
106 100
91 242.0 159.6 239.4#

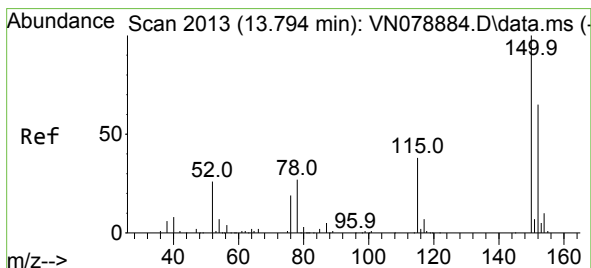
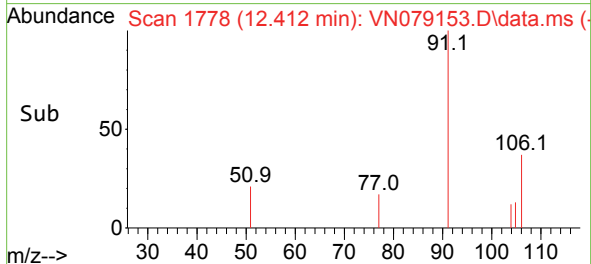
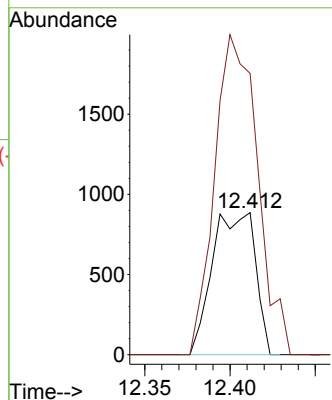
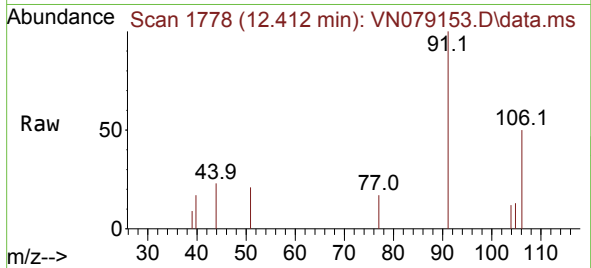




#69
o-Xylene
Concen: 0.232 ug/l
RT: 12.412 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN079153.D
Acq: 02 Sep 2023 19:11

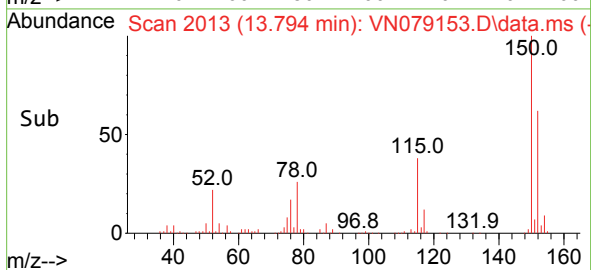
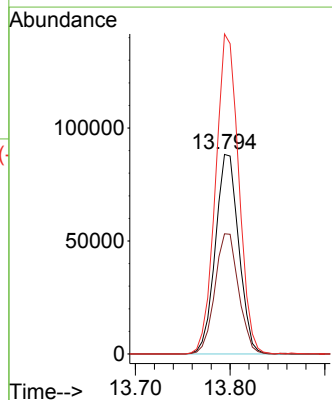
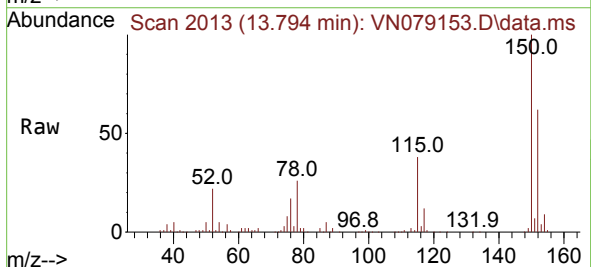
Instrument :
MSVOA_N
ClientSampleId :
RT2683

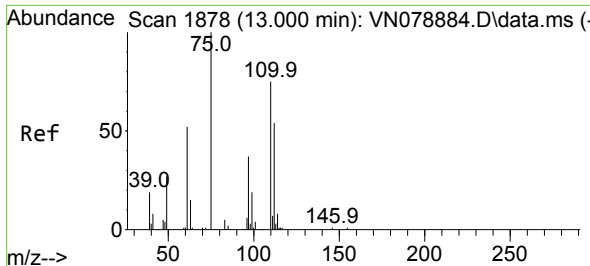
Tgt Ion:106 Resp: 1555
Ion Ratio Lower Upper
106 100
91 224.6 105.2 315.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN079153.D
Acq: 02 Sep 2023 19:11

Tgt Ion:152 Resp: 151265
Ion Ratio Lower Upper
152 100
115 61.1 32.3 96.8
150 158.9 0.0 355.8

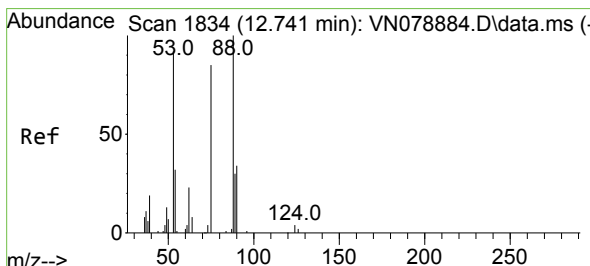
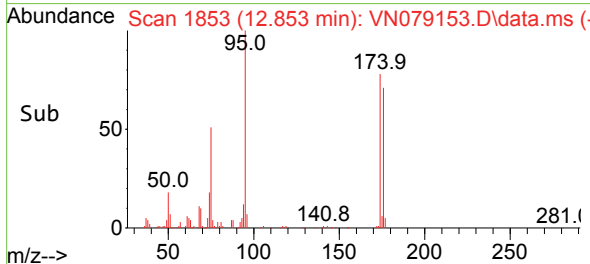
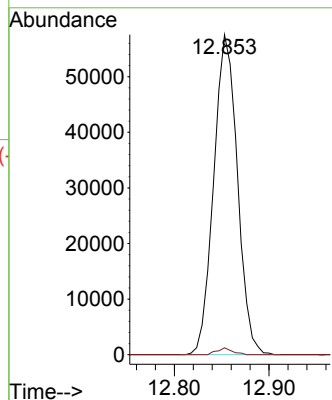
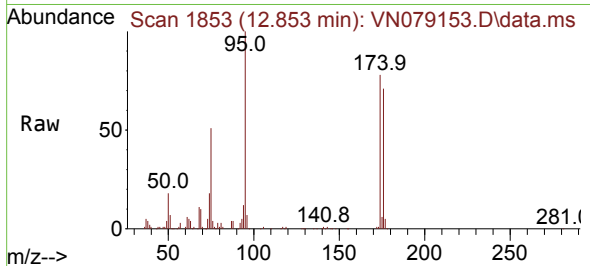




#76
1,2,3-Trichloropropane
Concen: 27.447 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN079153.D
Acq: 02 Sep 2023 19:11

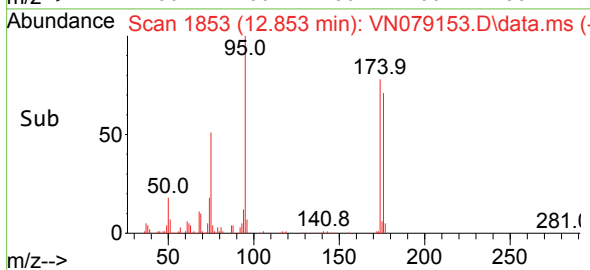
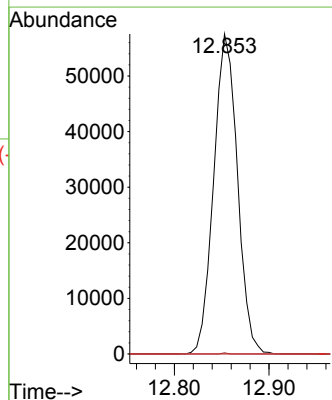
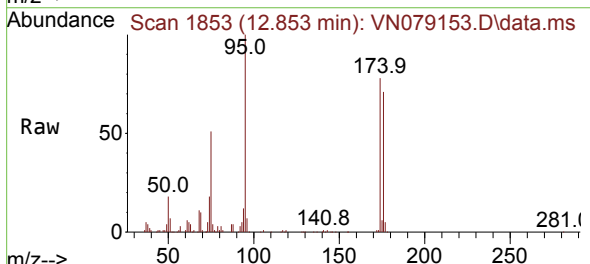
Instrument :
MSVOA_N
ClientSampleId :
RT2683

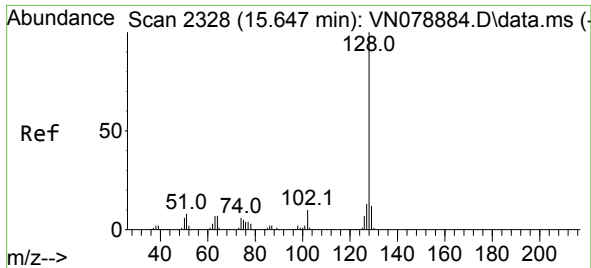
Tgt Ion: 75 Resp: 100036
Ion Ratio Lower Upper
75 100
77 1.4 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 70.114 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN079153.D
Acq: 02 Sep 2023 19:11

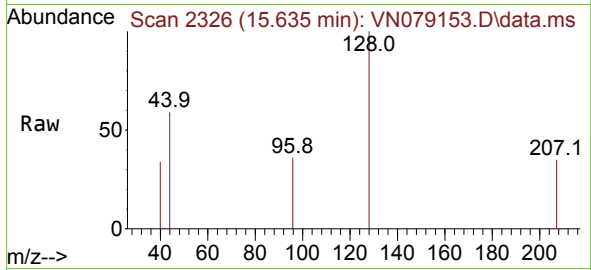
Tgt Ion: 75 Resp: 100036
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#





#95
Naphthalene
Concen: 2.720 ug/l
RT: 15.635 min Scan# 21
Delta R.T. -0.012 min
Lab File: VN079153.D
Acq: 02 Sep 2023 19:11

Instrument :
MSVOA_N
ClientSampleId :
RT2683



Tgt Ion:	128	Resp:	1068
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.0	15.0#
129	0.0	8.7	13.1#

