

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120423\
 Data File : VN080342.D
 Acq On : 04 Dec 2023 16:45
 Operator : JC\MD
 Sample : 05602-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 05 04:18:29 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N111623W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 17 01:19:32 2023
 Response via : Initial Calibration

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

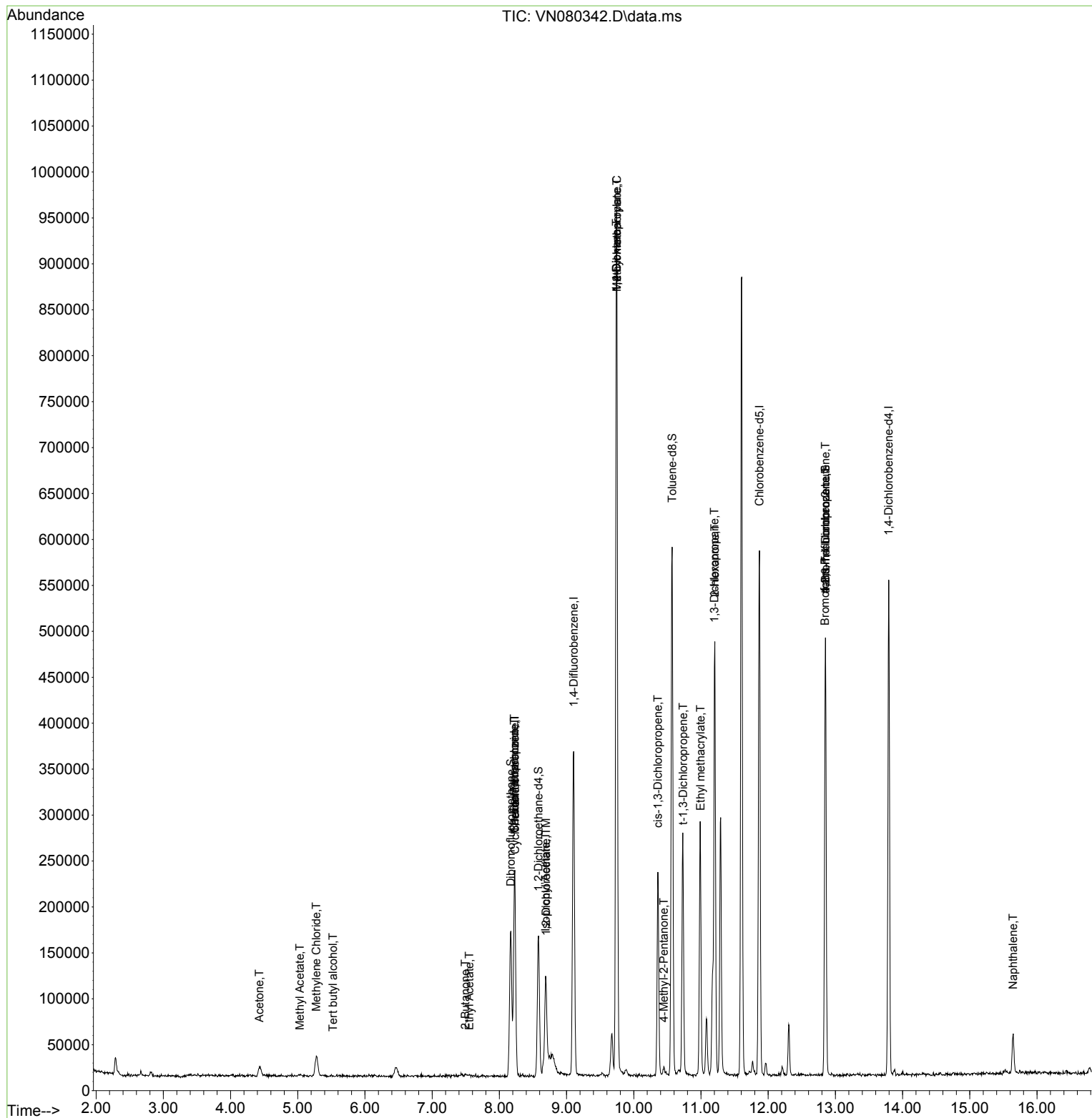
Internal Standards						
1) Pentafluorobenzene	8.230	168	152567	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	295345	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	327288	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	142425	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	141114	56.017	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.040%			
35) Dibromofluoromethane	8.171	113	111468	51.150	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.300%			
50) Toluene-d8	10.571	98	404481	51.488	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.980%			
62) 4-Bromofluorobenzene	12.853	95	163601	55.135	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 110.280%			
Target Compounds					Qvalue	
6) Chloroethane	3.130	64	553	Below Cal	#	43
11) Tert butyl alcohol	5.524	59	316	1.141	ug/l #	72
16) Acetone	4.430	43	20099	23.755	ug/l #	77
18) Methyl Acetate	5.030	43	2787	1.025	ug/l #	80
20) Methylene Chloride	5.277	84	17932	10.120	ug/l #	89
25) 2-Butanone	7.494	43	2542	2.529	ug/l #	37
31) Cyclohexane	8.235	56	3701	1.351	ug/l #	41
36) 1,1-Dichloropropene	8.224	75	13244	4.198	ug/l #	50
37) Ethyl Acetate	7.553	43	2337	1.068	ug/l #	63
38) Carbon Tetrachloride	8.224	117	17760	4.436	ug/l #	17
42) 1,2-Dichloroethane	8.694	62	843	0.230	ug/l #	73
43) Isopropyl Acetate	8.688	43	135143	31.733	ug/l #	78
45) 1,2-Dichloropropane	9.747	63	1123	0.539	ug/l #	45
48) Methyl methacrylate	9.747	41	93369	42.542	ug/l #	29
49) 1,4-Dioxane	9.741	88	226	6.190	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	9081	4.119	ug/l #	69
53) t-1,3-Dichloropropene	10.735	75	1058	0.297	ug/l #	72
54) cis-1,3-Dichloropropene	10.359	75	40934	11.238	ug/l #	71
56) Ethyl methacrylate	10.994	69	1178	0.538	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	5844	1.563	ug/l #	42
59) 2-Hexanone	11.206	43	51393	29.007	ug/l #	51
71) Bromoform	12.847	173	966	0.453	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	92971	26.642	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	92971	90.012	ug/l #	15
95) Naphthalene	15.647	128	41567	5.123	ug/l	98

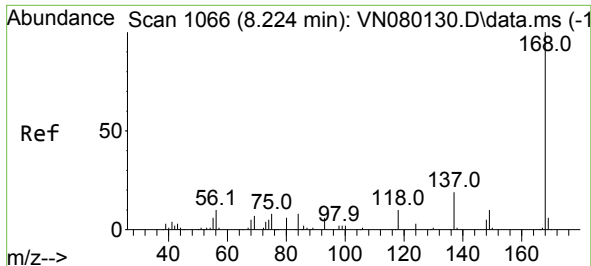
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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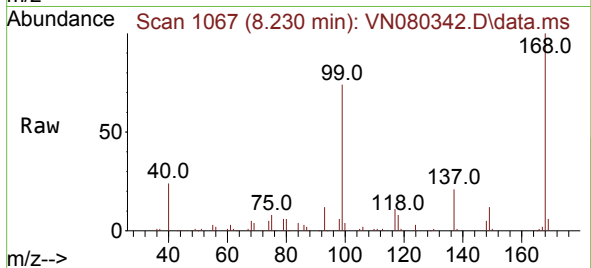
Quant Time: Dec 05 04:18:29 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N111623W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 17 01:19:32 2023
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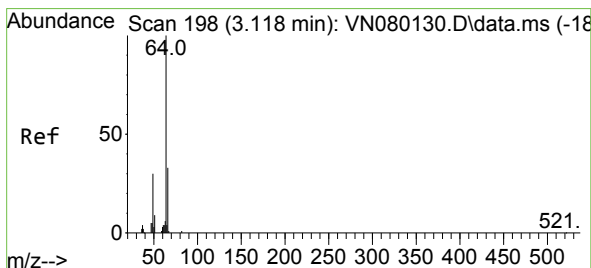
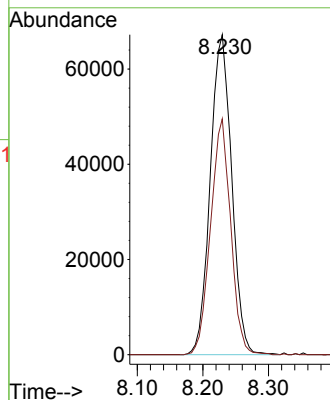
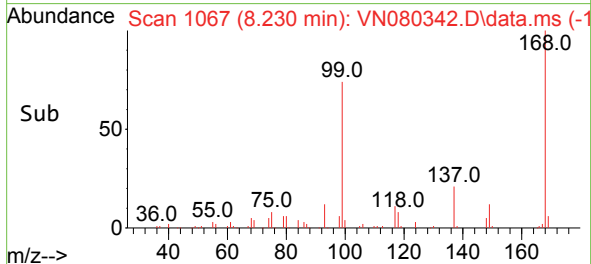


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN080342.D
Acq: 04 Dec 2023 16:45

Instrument :
MSVOA_N
ClientSampleId :

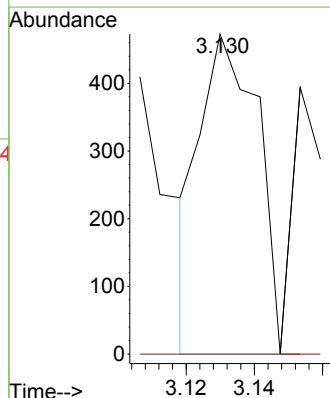
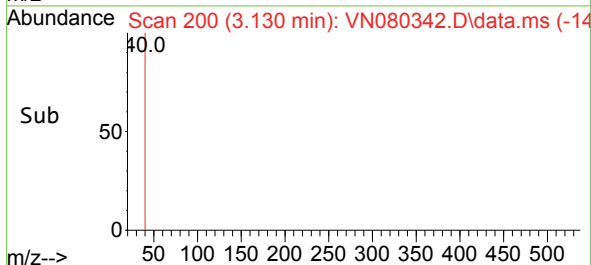
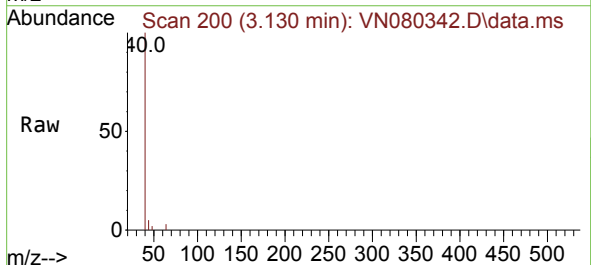


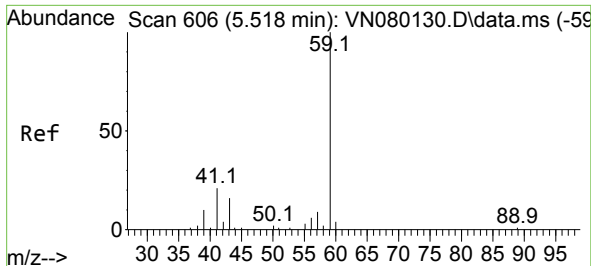
Tgt Ion:168 Resp: 152567
Ion Ratio Lower Upper
168 100
99 73.7 53.0 79.6



#6
Chloroethane
Concen: Below Cal
RT: 3.130 min Scan# 200
Delta R.T. 0.012 min
Lab File: VN080342.D
Acq: 04 Dec 2023 16:45

Tgt Ion: 64 Resp: 553
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

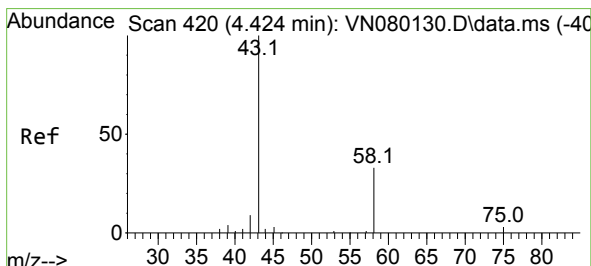
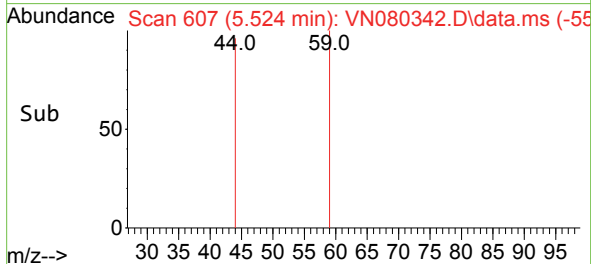
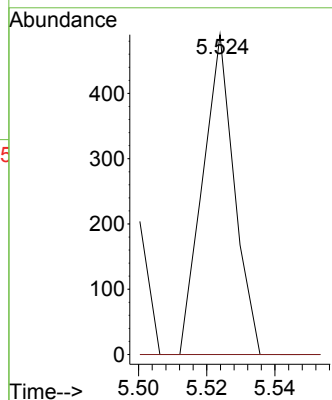
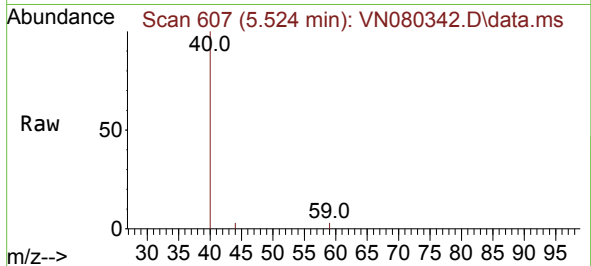




#11
Tert butyl alcohol
Concen: 1.141 ug/l
RT: 5.524 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN080342.D
Acq: 04 Dec 2023 16:45

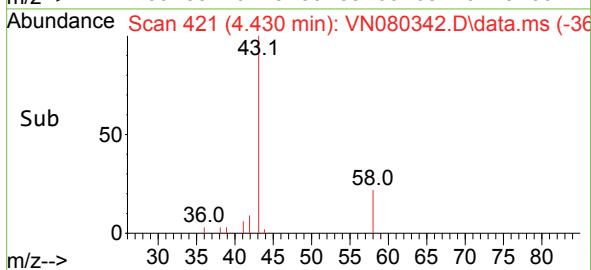
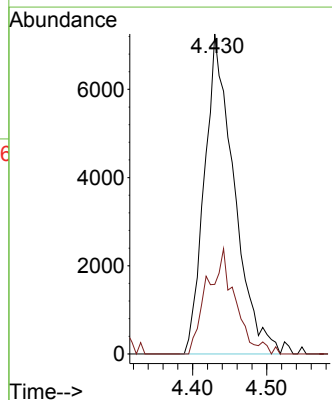
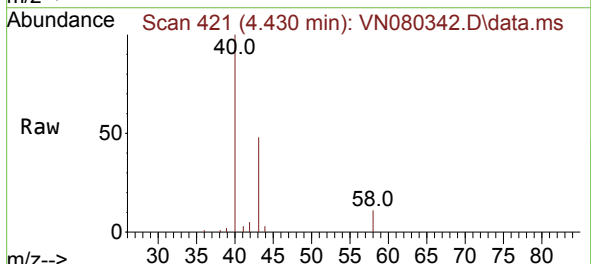
Instrument :
MSVOA_N
ClientSampleId :

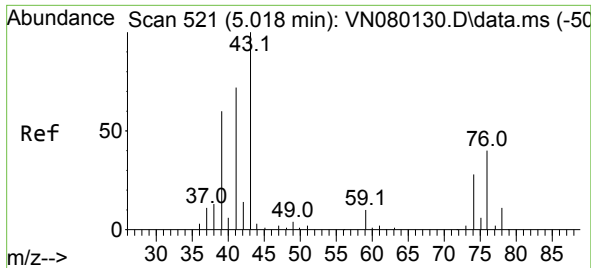
Tgt Ion: 59 Resp: 316
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 23.755 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN080342.D
Acq: 04 Dec 2023 16:45

Tgt Ion: 43 Resp: 20099
Ion Ratio Lower Upper
43 100
58 21.7 28.0 42.0#

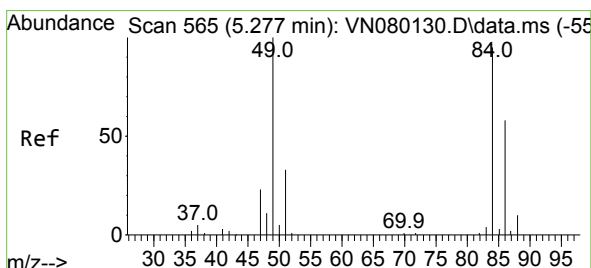
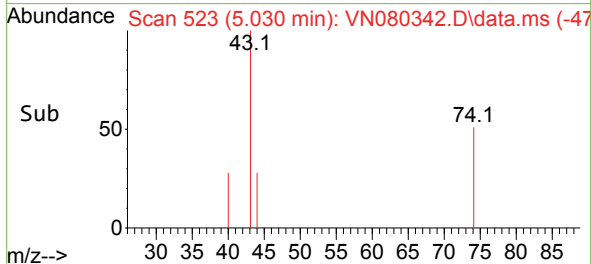
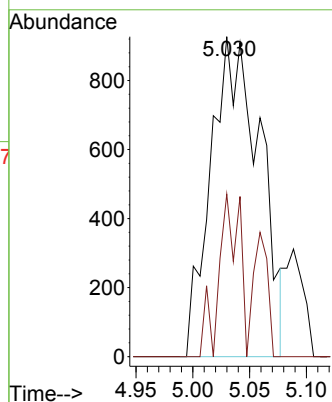
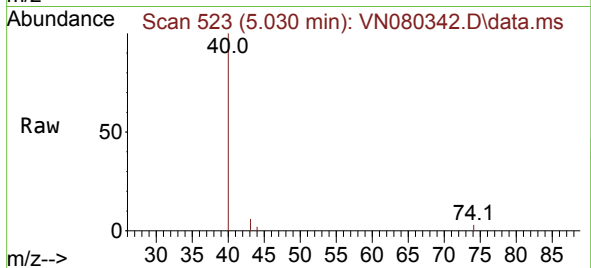




#18
Methyl Acetate
Concen: 1.025 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN080342.D
Acq: 04 Dec 2023 16:45

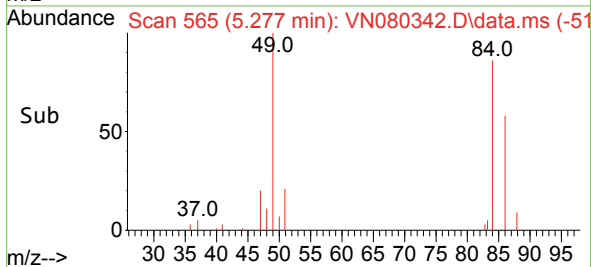
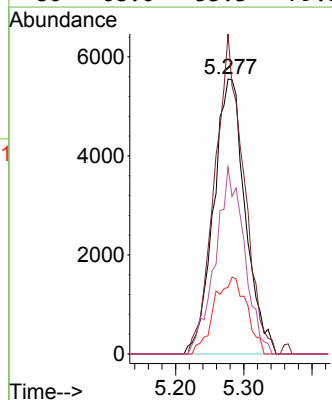
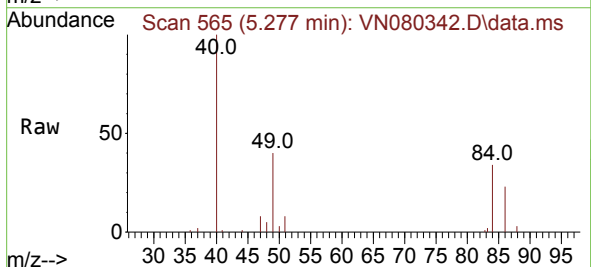
Instrument :
MSVOA_N
ClientSampleId :

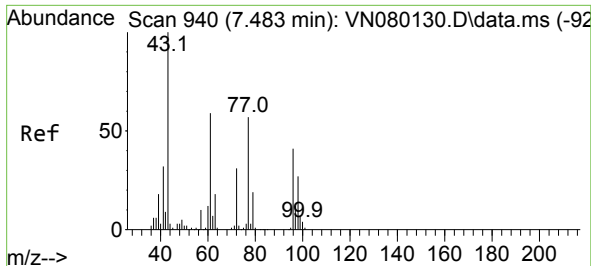
Tgt Ion: 43 Resp: 2787
Ion Ratio Lower Upper
43 100
74 21.5 26.2 39.4#



#20
Methylene Chloride
Concen: 10.120 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN080342.D
Acq: 04 Dec 2023 16:45

Tgt Ion: 84 Resp: 17932
Ion Ratio Lower Upper
84 100
49 116.4 79.7 119.5
51 24.3 25.2 37.8#
86 68.0 53.3 79.9

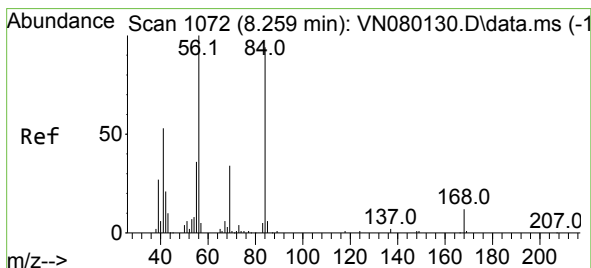
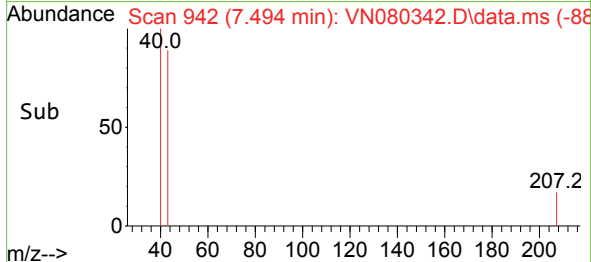
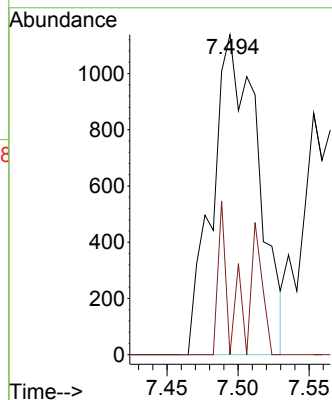
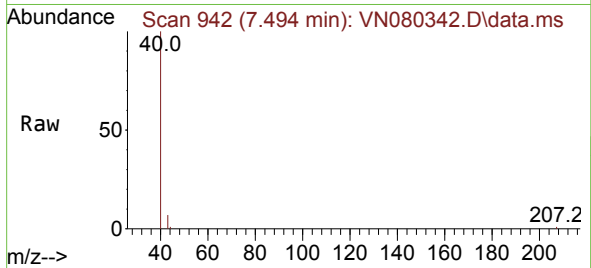




#25
2-Butanone
Concen: 2.529 ug/l
RT: 7.494 min Scan# 940
Delta R.T. 0.012 min
Lab File: VN080342.D
Acq: 04 Dec 2023 16:45

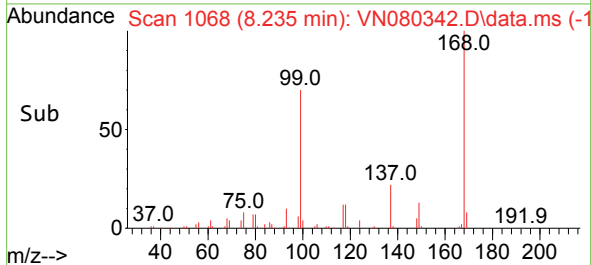
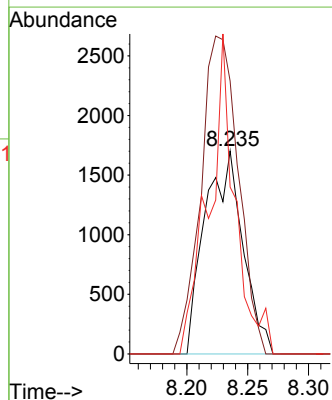
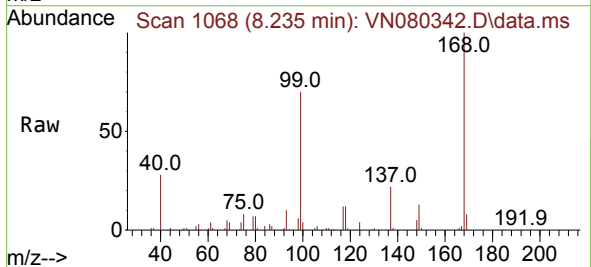
Instrument :
MSVOA_N
ClientSampleId :

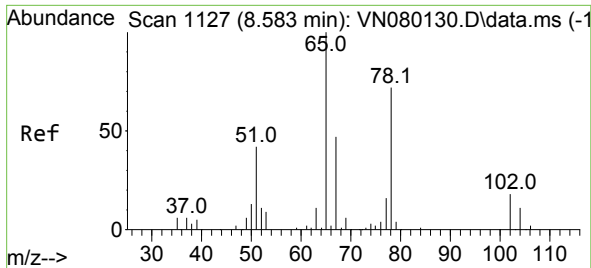
Tgt Ion: 43 Resp: 2542
Ion Ratio Lower Upper
43 100
72 0.0 30.2 45.2#



#31
Cyclohexane
Concen: 1.351 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.024 min
Lab File: VN080342.D
Acq: 04 Dec 2023 16:45

Tgt Ion: 56 Resp: 3701
Ion Ratio Lower Upper
56 100
69 134.4 26.8 40.2#
84 82.2 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 56.017 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN080342.D

Acq: 04 Dec 2023 16:45

Instrument :

MSVOA_N

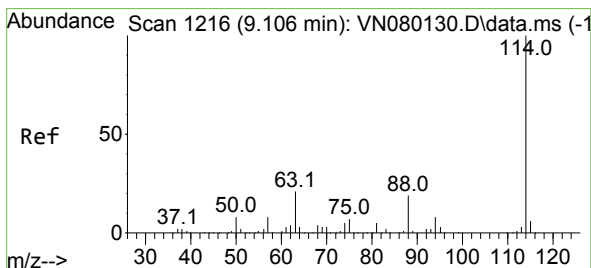
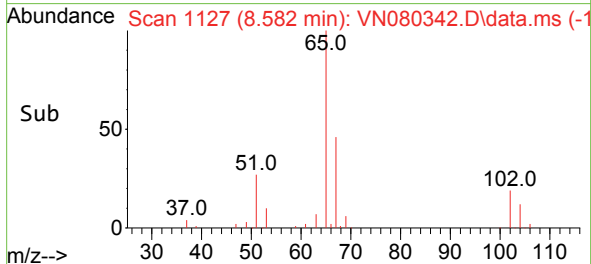
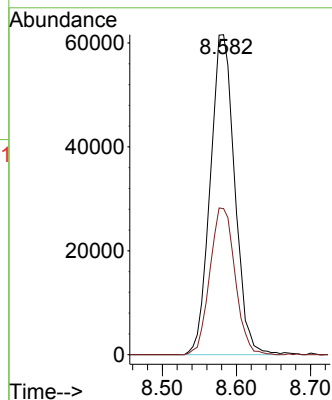
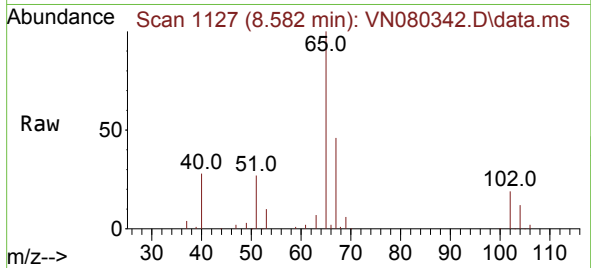
ClientSampleId :

Tgt Ion: 65 Resp: 141114

Ion Ratio Lower Upper

65 100

67 47.3 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN080342.D

Acq: 04 Dec 2023 16:45

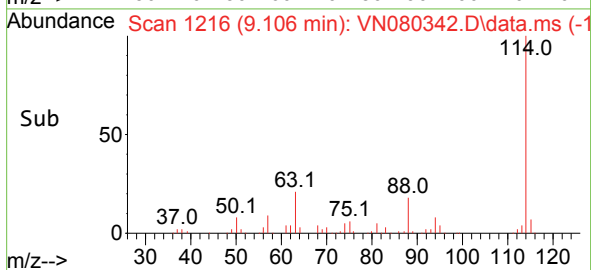
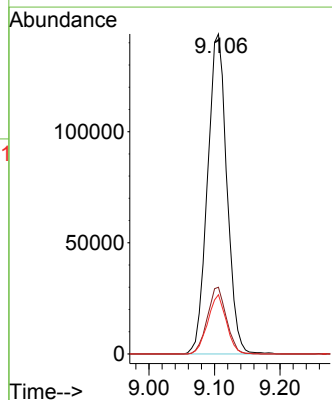
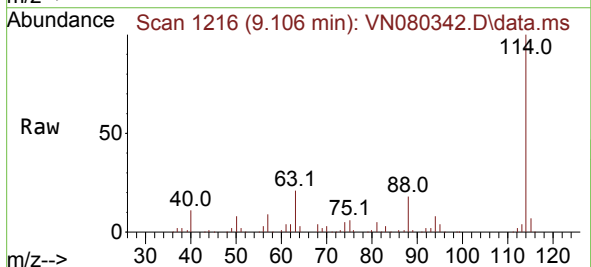
Tgt Ion: 114 Resp: 295345

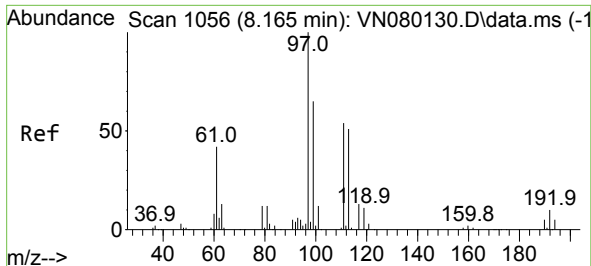
Ion Ratio Lower Upper

114 100

63 20.9 0.0 36.4

88 18.5 0.0 30.6





#35

Dibromofluoromethane

Concen: 51.150 ug/l

RT: 8.171 min Scan# 1056

Delta R.T. 0.006 min

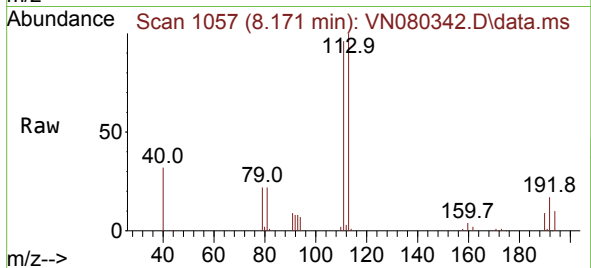
Lab File: VN080342.D

Acq: 04 Dec 2023 16:45

Instrument :

MSVOA_N

ClientSampleId :



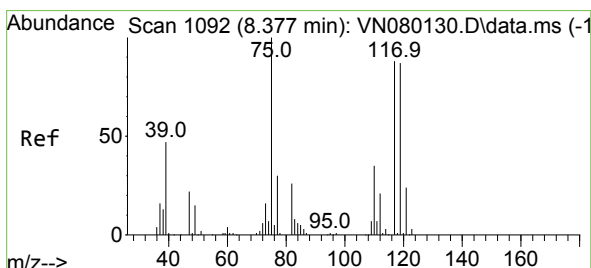
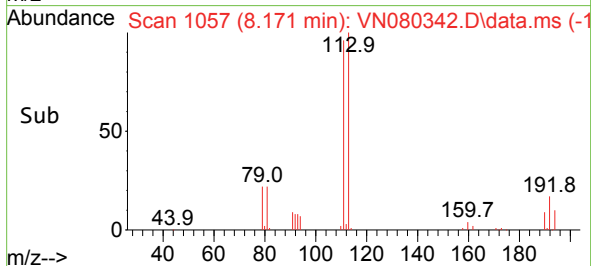
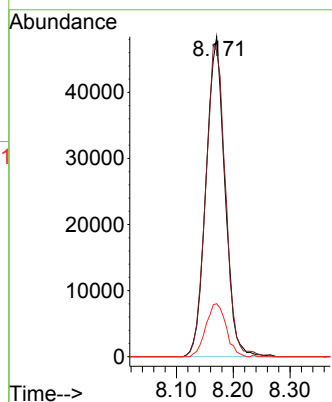
Tgt Ion:113 Resp: 111468

Ion Ratio Lower Upper

113 100

111 101.5 82.6 123.8

192 17.8 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.198 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.153 min

Lab File: VN080342.D

Acq: 04 Dec 2023 16:45

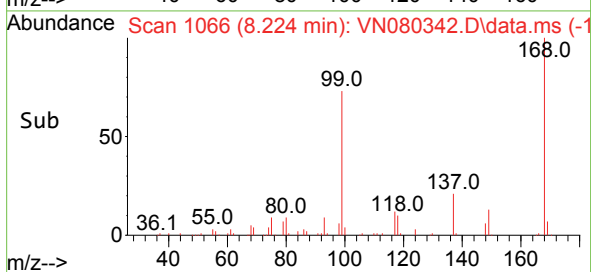
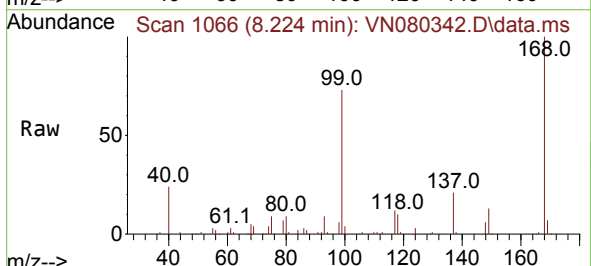
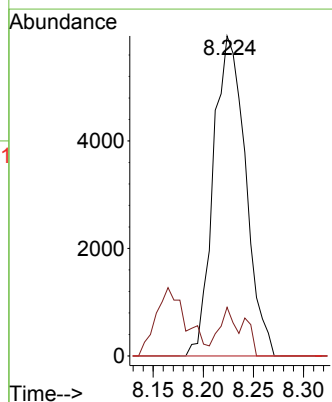
Tgt Ion: 75 Resp: 13244

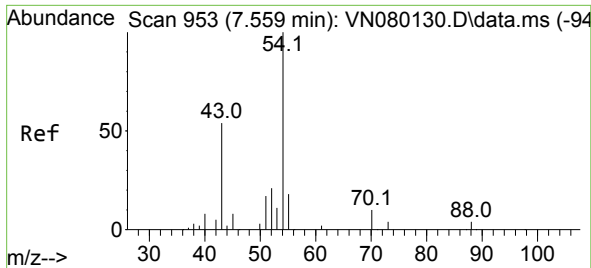
Ion Ratio Lower Upper

75 100

110 11.2 19.1 57.3#

77 0.0 25.0 37.4#

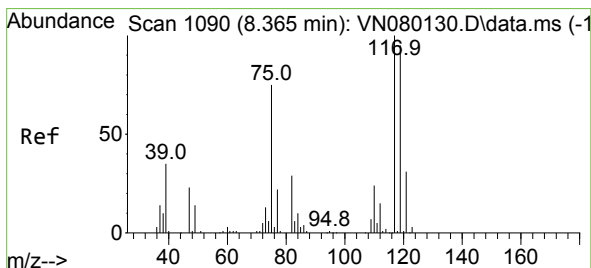
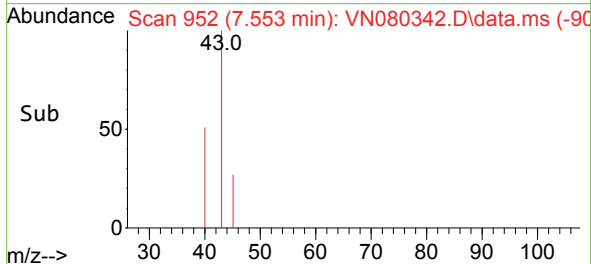
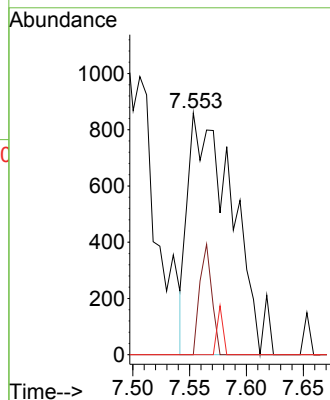
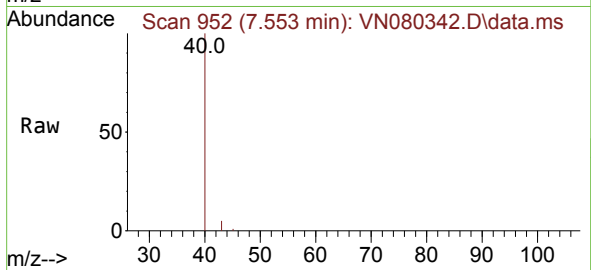




#37
Ethyl Acetate
Concen: 1.068 ug/l
RT: 7.553 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN080342.D
Acq: 04 Dec 2023 16:45

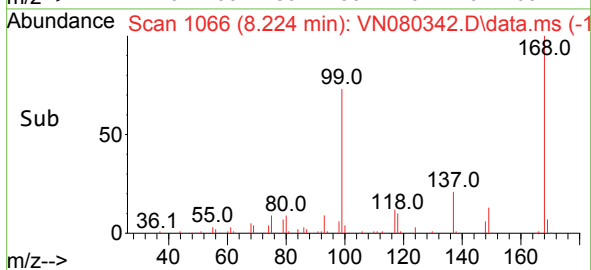
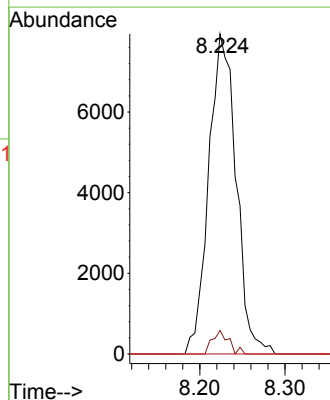
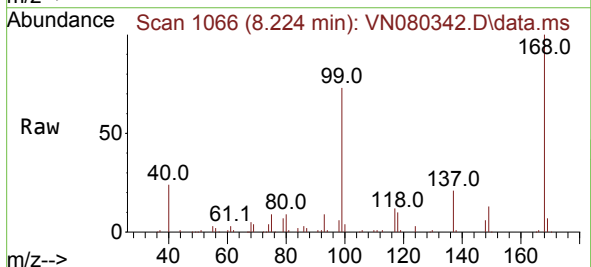
Instrument :
MSVOA_N
ClientSampleId :

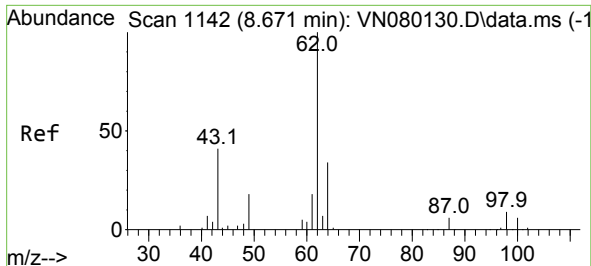
Tgt Ion: 43 Resp: 2337
Ion Ratio Lower Upper
43 100
61 0.0 13.2 19.8#
70 0.0 11.3 16.9#



#38
Carbon Tetrachloride
Concen: 4.436 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN080342.D
Acq: 04 Dec 2023 16:45

Tgt Ion: 117 Resp: 17760
Ion Ratio Lower Upper
117 100
119 7.4 77.3 115.9#
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.230 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.023 min

Lab File: VN080342.D

Acq: 04 Dec 2023 16:45

Instrument :

MSVOA_N

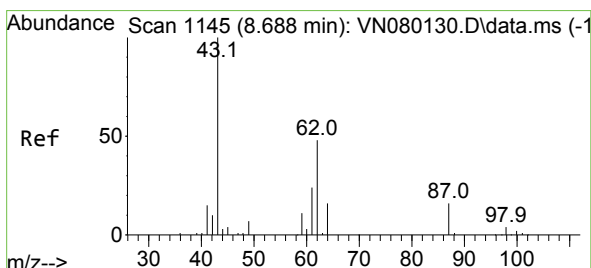
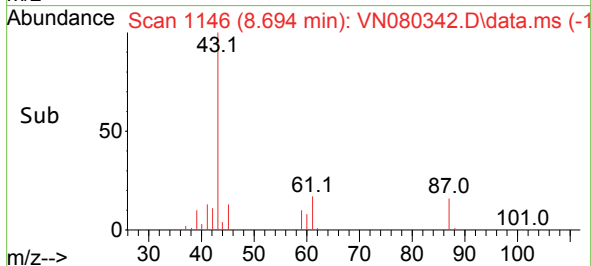
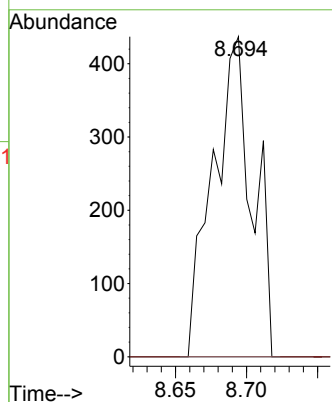
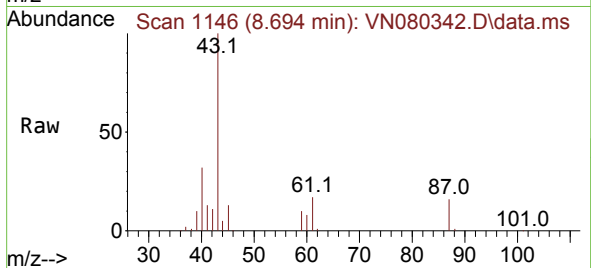
ClientSampleId :

Tgt Ion: 62 Resp: 843

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 31.733 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VN080342.D

Acq: 04 Dec 2023 16:45

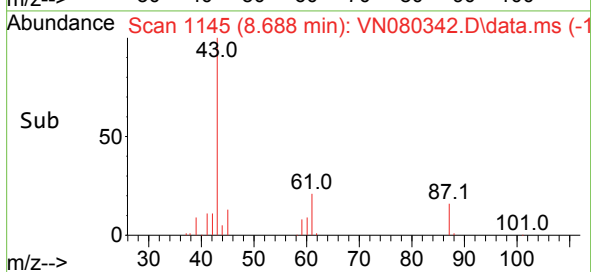
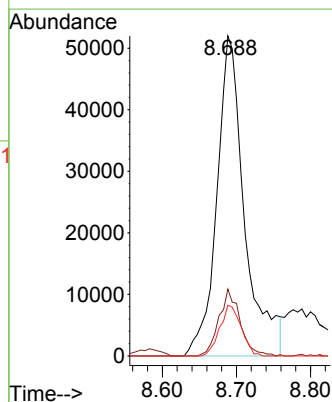
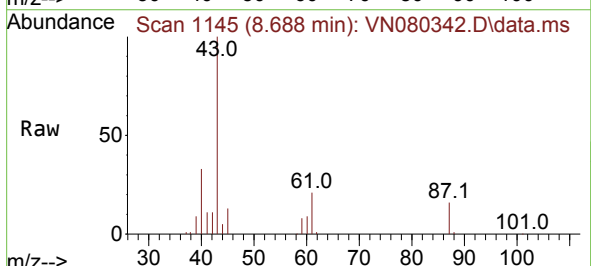
Tgt Ion: 43 Resp: 135143

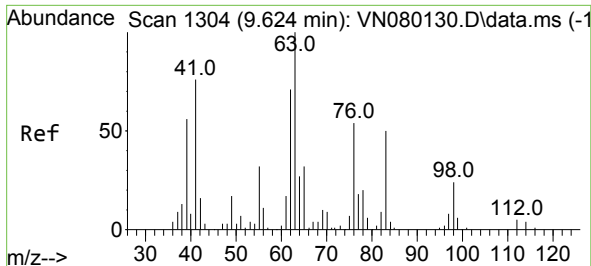
Ion Ratio Lower Upper

43 100

61 16.0 24.7 37.1#

87 12.2 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.539 ug/l

RT: 9.747 min Scan# 1123

Delta R.T. 0.123 min

Lab File: VN080342.D

Acq: 04 Dec 2023 16:45

Instrument :

MSVOA_N

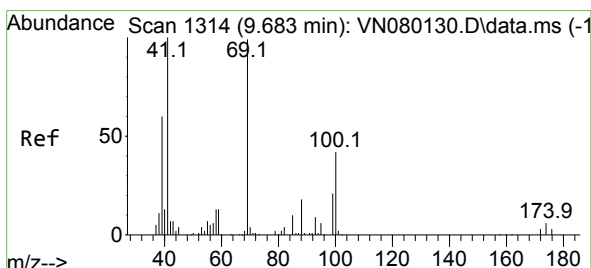
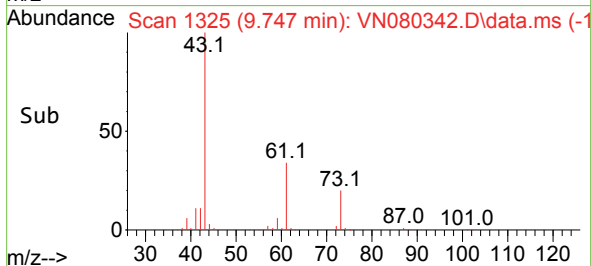
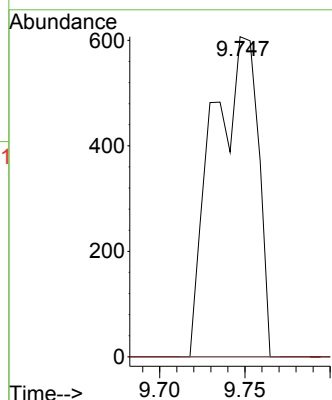
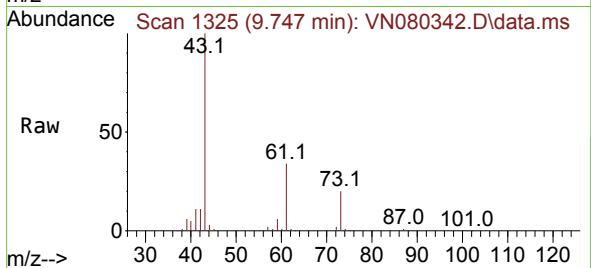
ClientSampleId :

Tgt Ion: 63 Resp: 1123

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 42.542 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.065 min

Lab File: VN080342.D

Acq: 04 Dec 2023 16:45

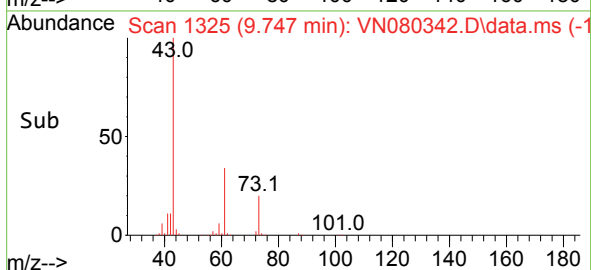
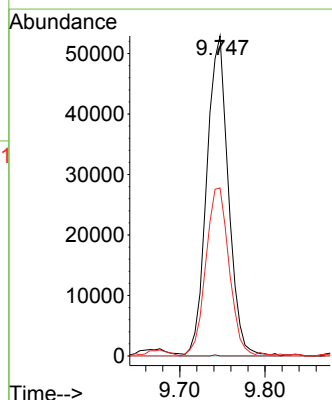
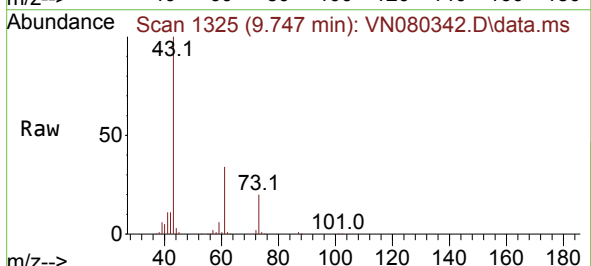
Tgt Ion: 41 Resp: 93369

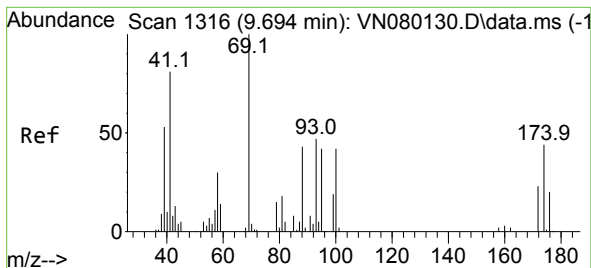
Ion Ratio Lower Upper

41 100

69 0.1 90.4 135.6#

39 56.9 54.6 81.8





#49

1,4-Dioxane

Concen: 6.190 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.047 min

Lab File: VN080342.D

Acq: 04 Dec 2023 16:45

Instrument :

MSVOA_N

ClientSampleId :

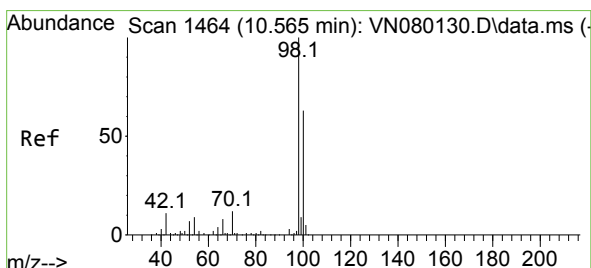
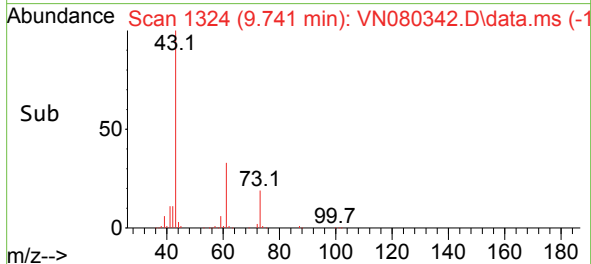
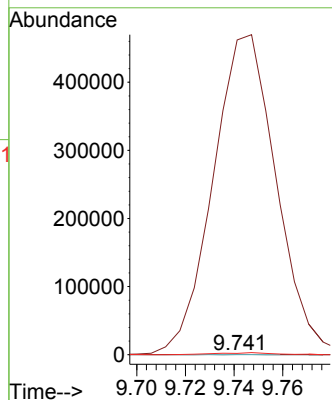
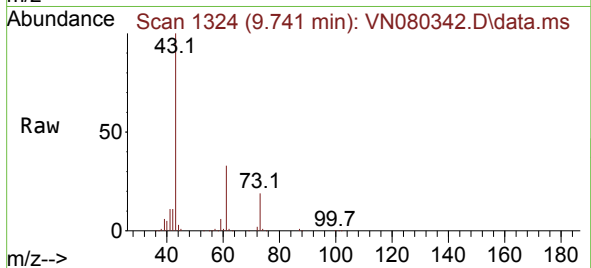
Tgt Ion: 88 Resp: 226

Ion Ratio Lower Upper

88 100

43 378201.3 17.0 25.6#

58 2123.5 47.0 70.4#



#50

Toluene-d8

Concen: 51.488 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN080342.D

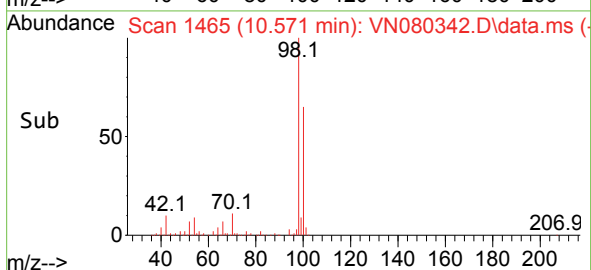
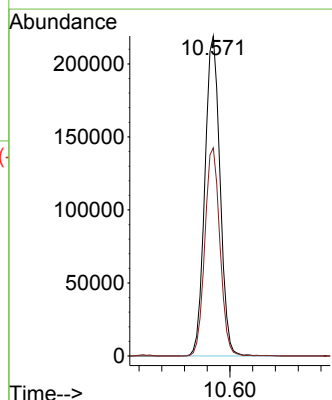
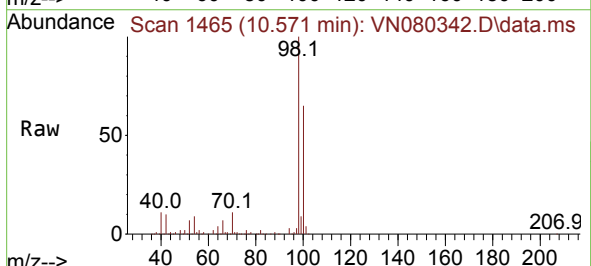
Acq: 04 Dec 2023 16:45

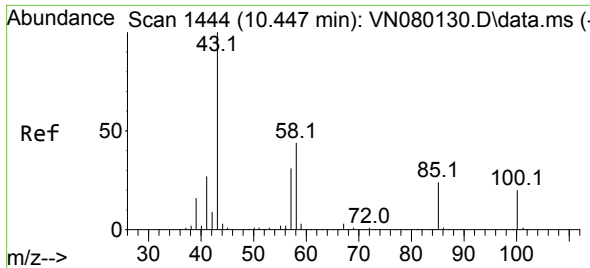
Tgt Ion: 98 Resp: 404481

Ion Ratio Lower Upper

98 100

100 64.8 52.0 78.0

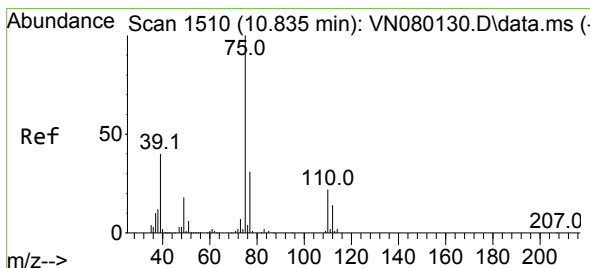
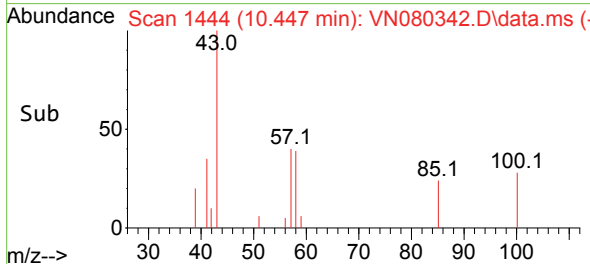
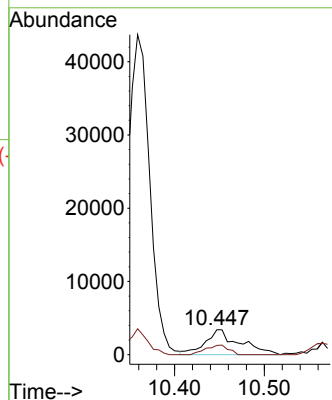
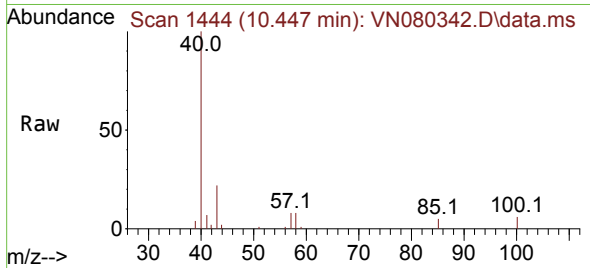




#51
4-Methyl-2-Pentanone
Concen: 4.119 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN080342.D
Acq: 04 Dec 2023 16:45

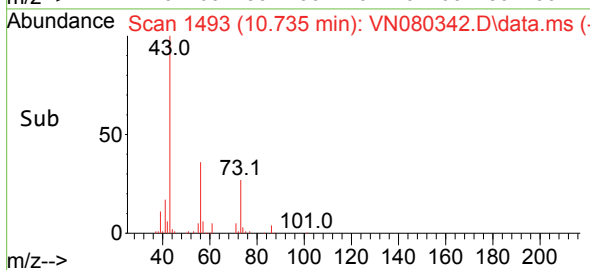
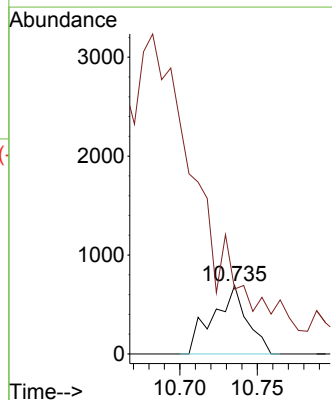
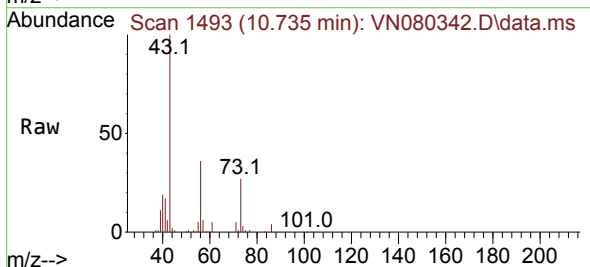
Instrument :
MSVOA_N
ClientSampleId :

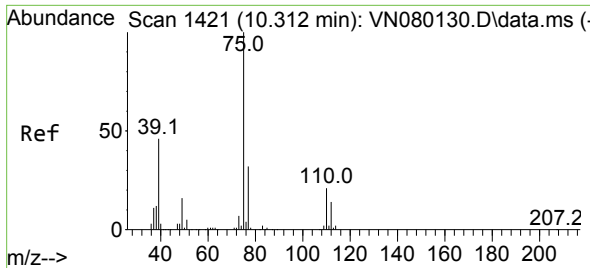
Tgt Ion: 43 Resp: 9081
Ion Ratio Lower Upper
43 100
58 25.4 36.6 54.8#



#53
t-1,3-Dichloropropene
Concen: 0.297 ug/l
RT: 10.735 min Scan# 1493
Delta R.T. -0.100 min
Lab File: VN080342.D
Acq: 04 Dec 2023 16:45

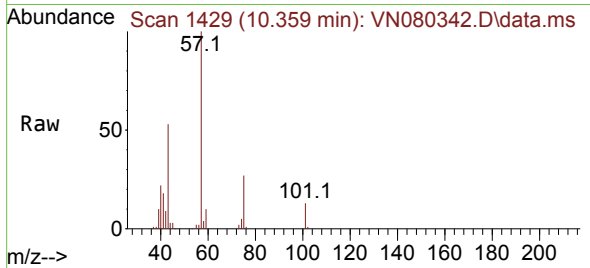
Tgt Ion: 75 Resp: 1058
Ion Ratio Lower Upper
75 100
77 15.9 25.4 38.0#



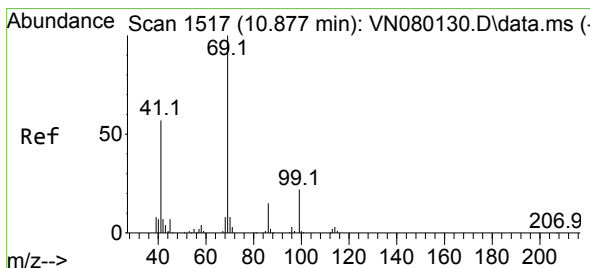
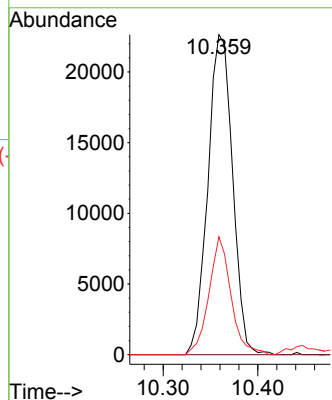
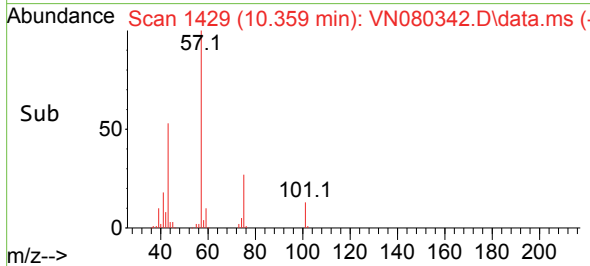


#54
 cis-1,3-Dichloropropene
 Concen: 11.238 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN080342.D
 Acq: 04 Dec 2023 16:45

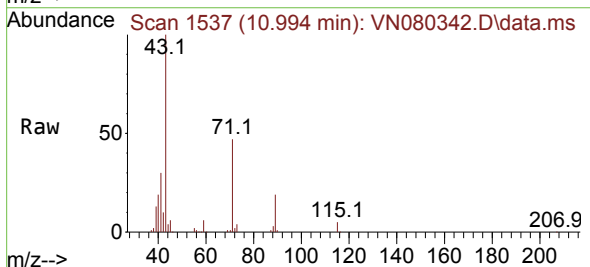
Instrument :
 MSVOA_N
 ClientSampleId :



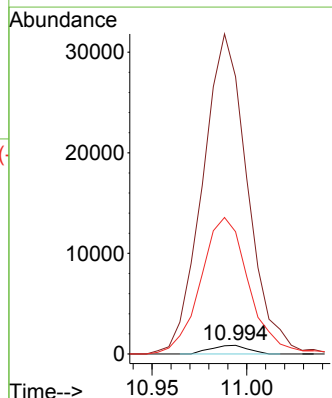
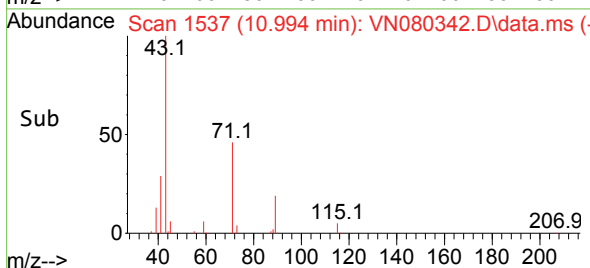
Tgt Ion: 75 Resp: 40934
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.1 39.1#
 39 36.8 31.6 47.4

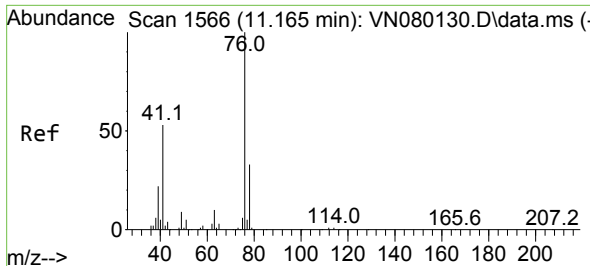


#56
 Ethyl methacrylate
 Concen: 0.538 ug/l
 RT: 10.994 min Scan# 1537
 Delta R.T. 0.118 min
 Lab File: VN080342.D
 Acq: 04 Dec 2023 16:45



Tgt Ion: 69 Resp: 1178
 Ion Ratio Lower Upper
 69 100
 41 4484.6 39.6 59.4#
 39 2049.4 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.563 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.035 min

Lab File: VN080342.D

Acq: 04 Dec 2023 16:45

Instrument :

MSVOA_N

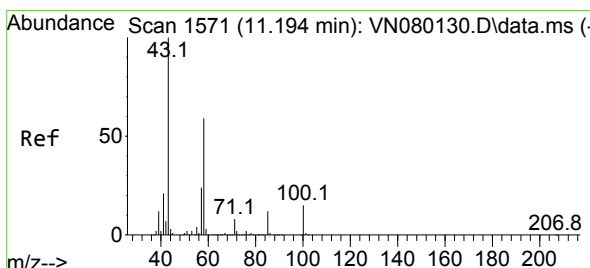
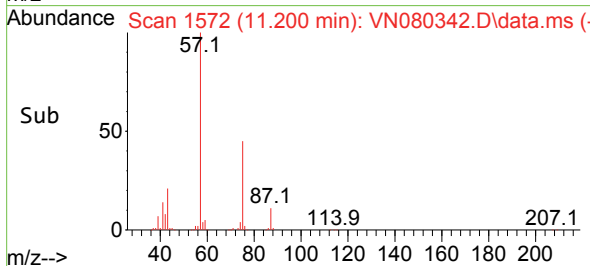
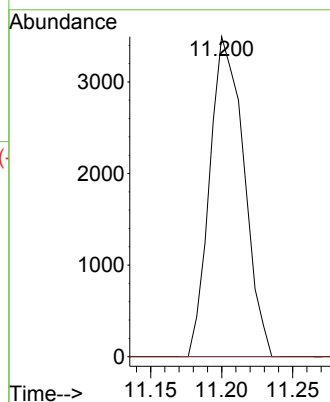
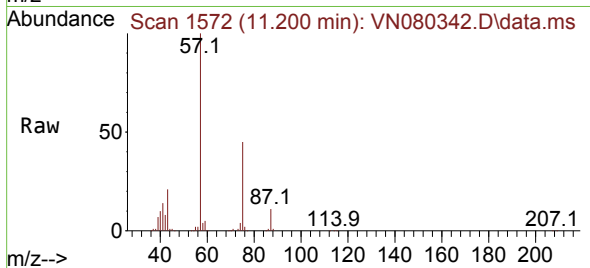
ClientSampleId :

Tgt Ion: 76 Resp: 5844

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 29.007 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.012 min

Lab File: VN080342.D

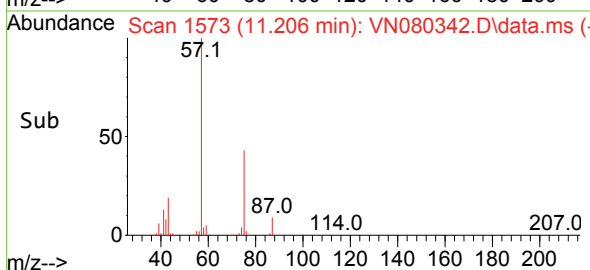
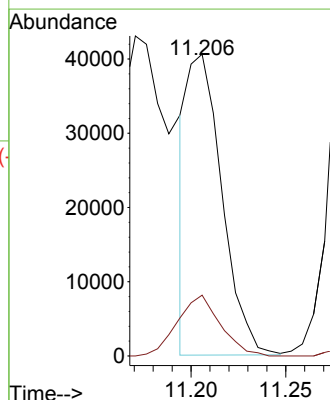
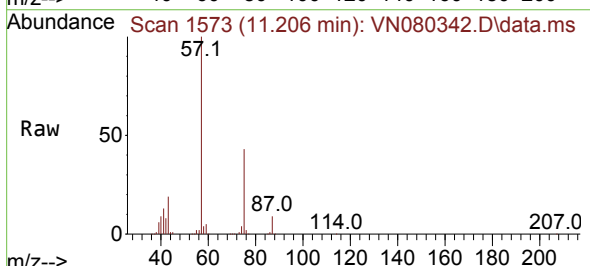
Acq: 04 Dec 2023 16:45

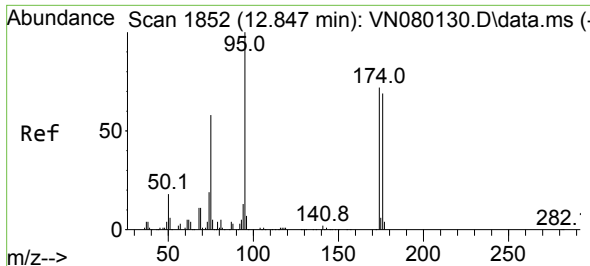
Tgt Ion: 43 Resp: 51393

Ion Ratio Lower Upper

43 100

58 25.2 31.7 95.1#

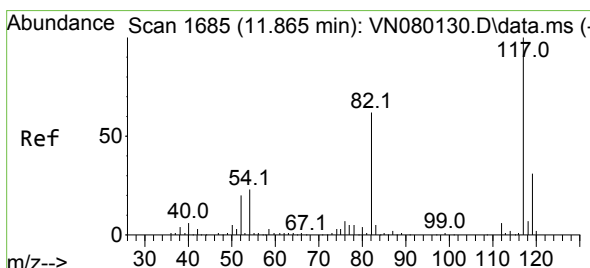
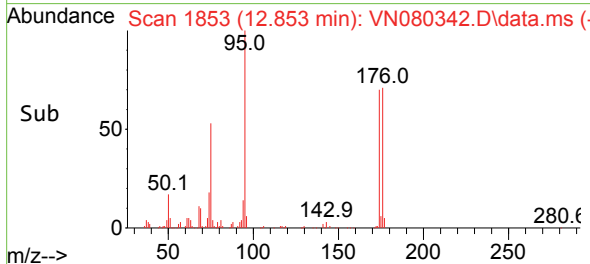
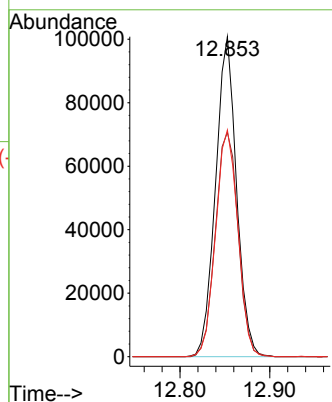
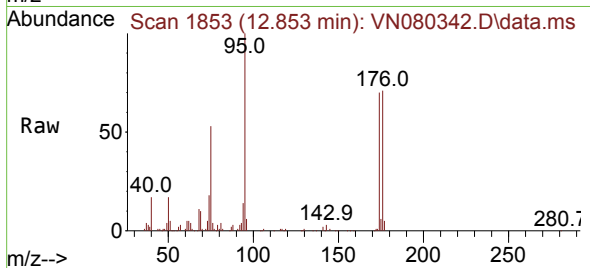




#62
4-Bromofluorobenzene
Concen: 55.135 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN080342.D
Acq: 04 Dec 2023 16:45

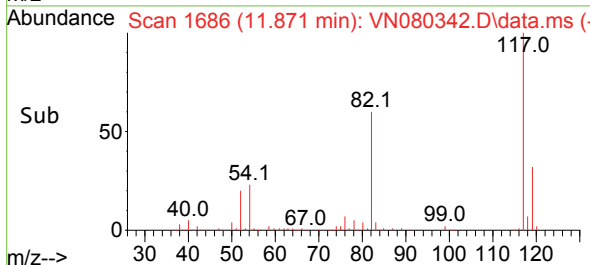
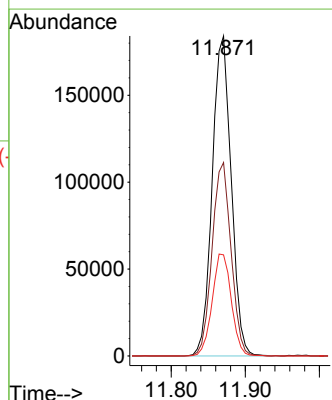
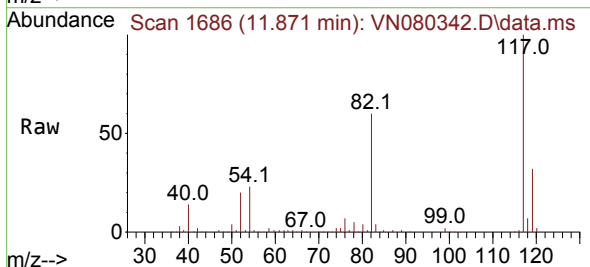
Instrument :
MSVOA_N
ClientSampleId :

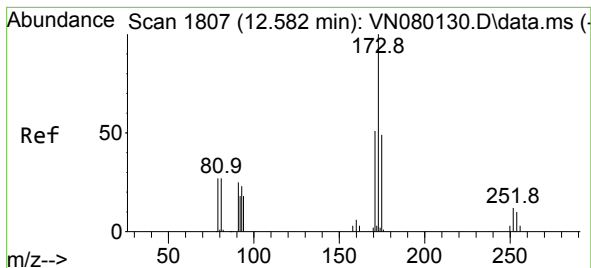
Tgt Ion: 95 Resp: 163601
Ion Ratio Lower Upper
95 100
174 75.9 0.0 143.8
176 75.1 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN080342.D
Acq: 04 Dec 2023 16:45

Tgt Ion: 117 Resp: 327288
Ion Ratio Lower Upper
117 100
82 60.5 44.0 66.0
119 31.6 25.6 38.4





#71

Bromoform

Concen: 0.453 ug/l

RT: 12.847 min Scan# 1807

Delta R.T. 0.265 min

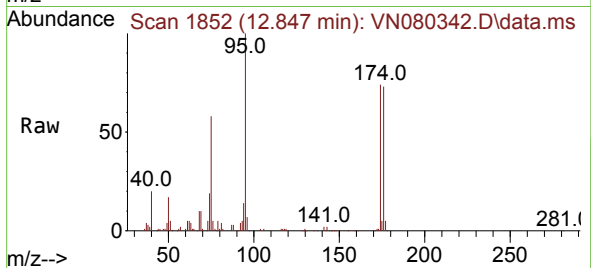
Lab File: VN080342.D

Acq: 04 Dec 2023 16:45

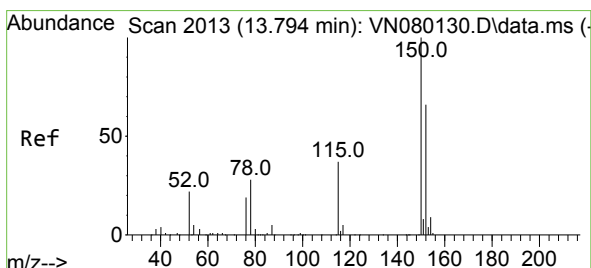
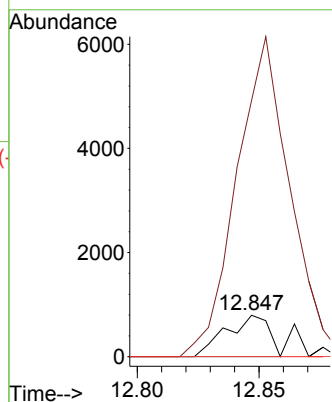
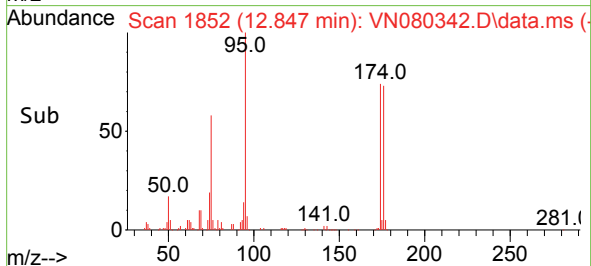
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	173	Resp:	966
Ion Ratio	Lower	Upper	
173	100		
175	787.0	24.3	73.0#
254	0.0	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

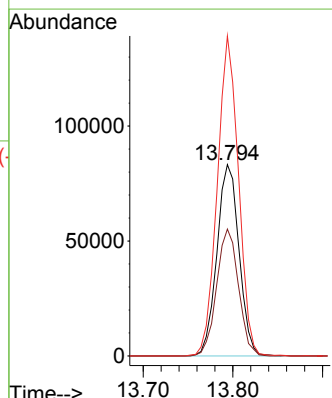
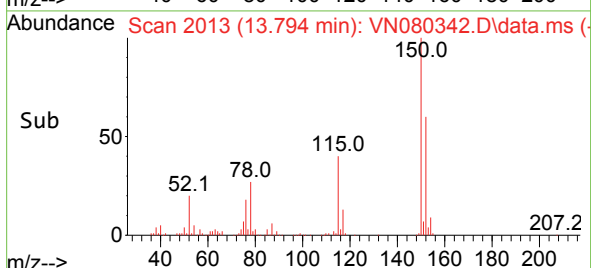
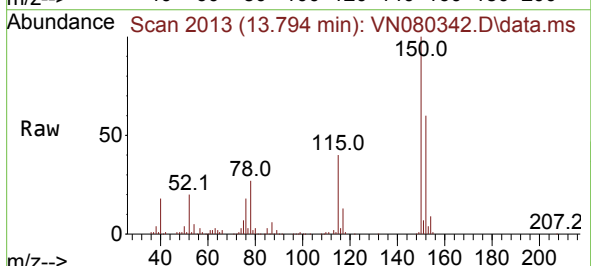
RT: 13.794 min Scan# 2013

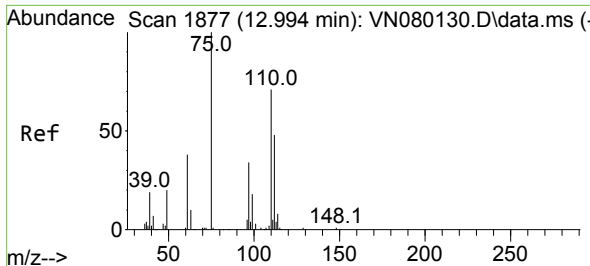
Delta R.T. -0.000 min

Lab File: VN080342.D

Acq: 04 Dec 2023 16:45

Tgt Ion:	152	Resp:	142425
Ion Ratio	Lower	Upper	
152	100		
115	65.5	32.3	96.8
150	160.0	0.0	355.8

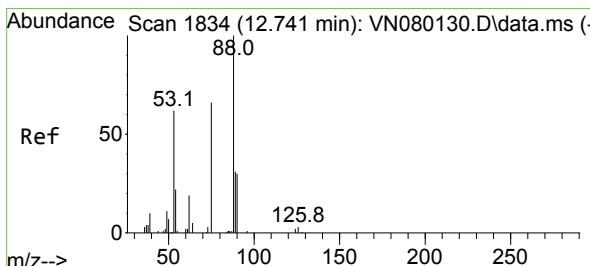
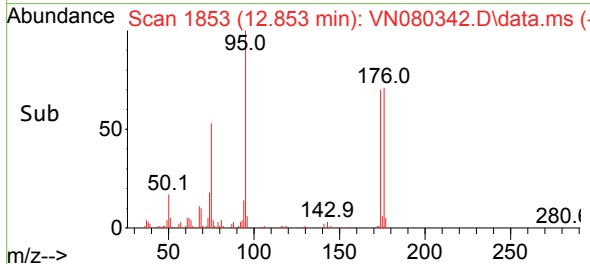
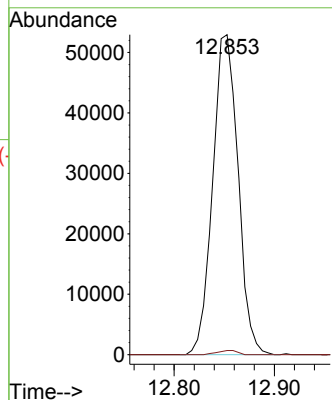
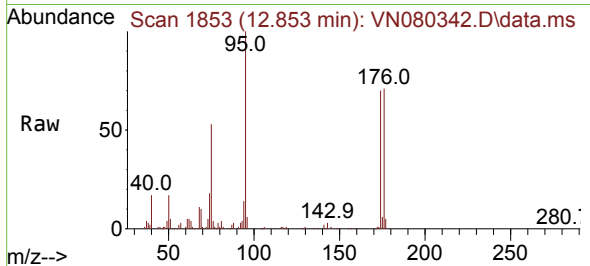




#76
1,2,3-Trichloropropane
Concen: 26.642 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN080342.D
Acq: 04 Dec 2023 16:45

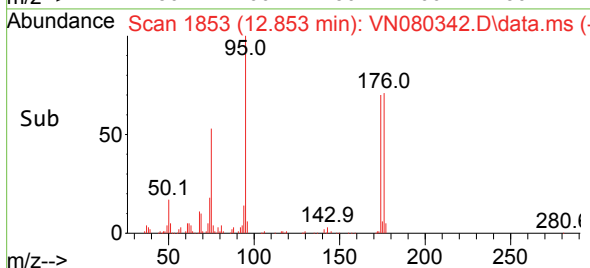
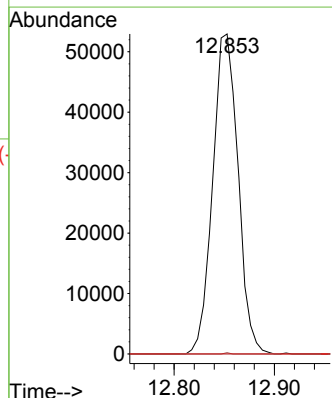
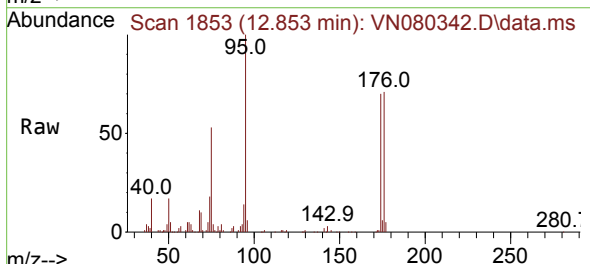
Instrument :
MSVOA_N
ClientSampleId :

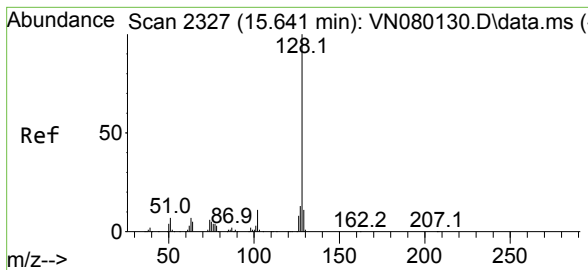
Tgt Ion: 75 Resp: 92971
Ion Ratio Lower Upper
75 100
77 1.0 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 90.012 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN080342.D
Acq: 04 Dec 2023 16:45

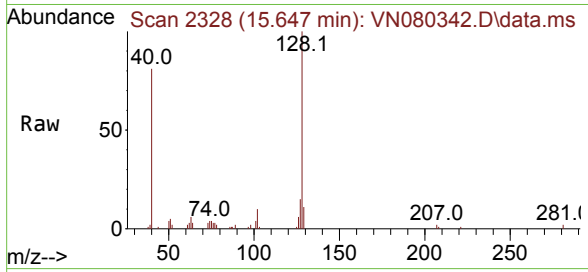
Tgt Ion: 75 Resp: 92971
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#





#95
Naphthalene
Concen: 5.123 ug/l
RT: 15.647 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN080342.D
Acq: 04 Dec 2023 16:45

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:	128	Resp:	41567
Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.0	15.0
129	11.5	8.7	13.1

