

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120823\
 Data File : VN080422.D
 Acq On : 08 Dec 2023 21:31
 Operator : JC\MD
 Sample : PB157648TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 08 22:48:05 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

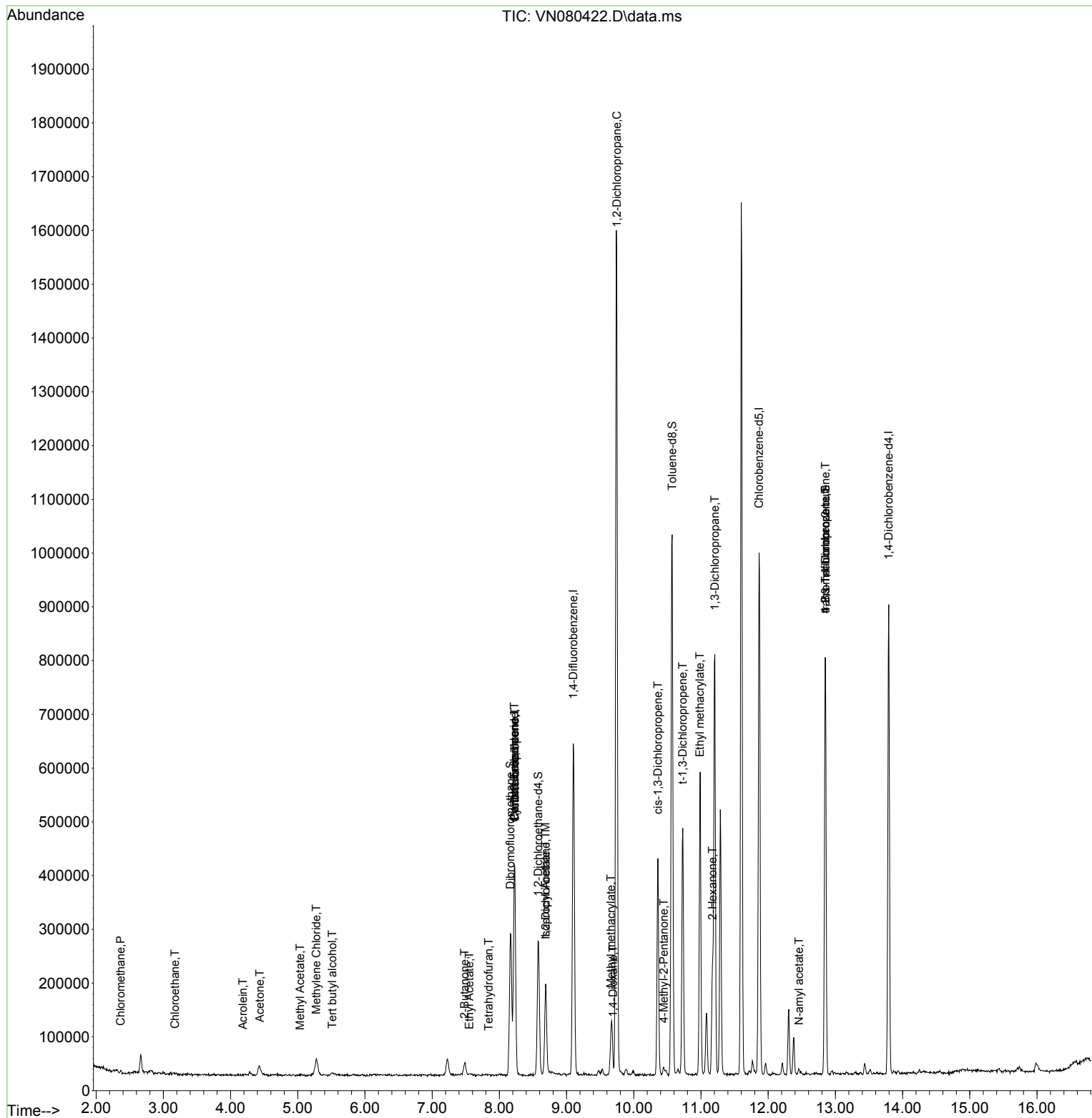
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	286411	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	539049	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	571268	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	230911	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	219860	46.491	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	92.980%
35) Dibromofluoromethane	8.165	113	190651	47.933	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	95.860%
50) Toluene-d8	10.571	98	719620	50.190	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.380%
62) 4-Bromofluorobenzene	12.853	95	285603	52.736	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	105.480%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	4005	1.249	ug/l #	82
6) Chloroethane	3.171	64	3571	0.513	ug/l #	43
11) Tert butyl alcohol	5.512	59	8317	15.993	ug/l #	87
13) Acrolein	4.183	56	2593	5.634	ug/l	85
16) Acetone	4.436	43	31816	20.030	ug/l	100
18) Methyl Acetate	5.036	43	1775	0.348	ug/l #	54
20) Methylene Chloride	5.277	84	25758	7.744	ug/l	92
25) 2-Butanone	7.483	43	36095	19.126	ug/l #	87
29) Tetrahydrofuran	7.841	42	1144	1.129	ug/l #	26
31) Cyclohexane	8.230	56	5844	1.136	ug/l #	2
36) 1,1-Dichloropropene	8.230	75	21887	3.801	ug/l #	50
37) Ethyl Acetate	7.553	43	5232	1.310	ug/l #	92
38) Carbon Tetrachloride	8.224	117	30409	4.161	ug/l #	15
42) 1,2-Dichloroethane	8.688	62	1443	0.216	ug/l #	73
43) Isopropyl Acetate	8.688	43	188999	24.315	ug/l #	87
45) 1,2-Dichloropropane	9.747	63	2322	0.610	ug/l #	45
48) Methyl methacrylate	9.659	41	8968	2.239	ug/l #	30
49) 1,4-Dioxane	9.694	88	333	4.997	ug/l #	30
51) 4-Methyl-2-Pentanone	10.447	43	7652	1.901	ug/l	99
53) t-1,3-Dichloropropene	10.729	75	1354	0.208	ug/l	94
54) cis-1,3-Dichloropropene	10.359	75	77017	11.585	ug/l #	61
56) Ethyl methacrylate	10.982	69	2104	0.527	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	9148	1.340	ug/l #	42
59) 2-Hexanone	11.171	43	155449	48.072	ug/l #	19
74) N-amyl acetate	12.459	43	6826	1.220	ug/l #	40
76) 1,2,3-Trichloropropane	12.853	75	152180	26.898	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	152180	90.877	ug/l #	15

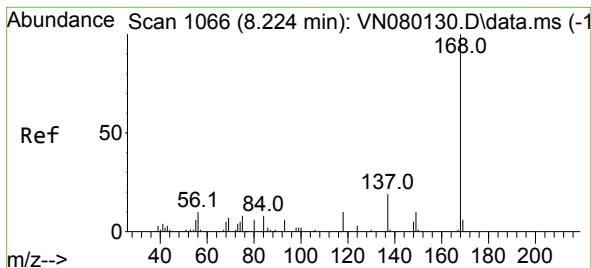
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Nov 17 01:19:32 2023
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN080422.D

Acq: 08 Dec 2023 21:31

Instrument :

MSVOA_N

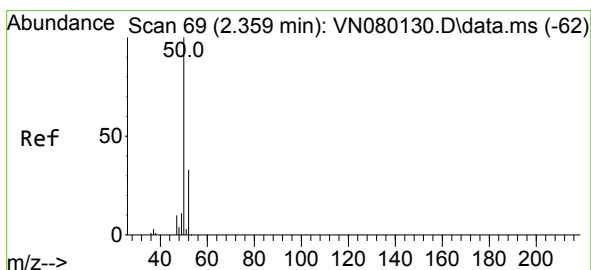
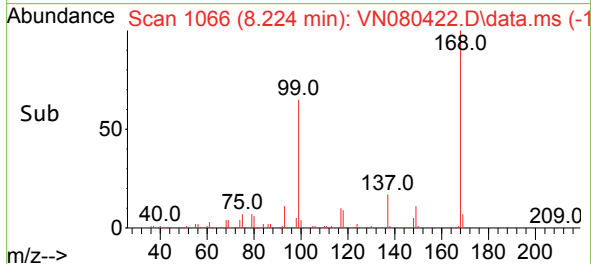
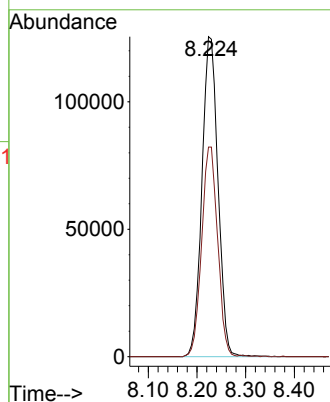
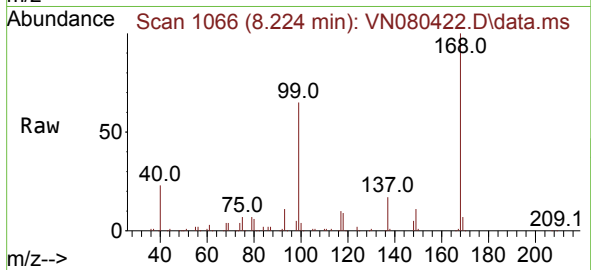
ClientSampleId :

Tgt Ion:168 Resp: 286411

Ion Ratio Lower Upper

168 100

99 65.5 53.0 79.6



#3

Chloromethane

Concen: 1.249 ug/l

RT: 2.365 min Scan# 70

Delta R.T. 0.006 min

Lab File: VN080422.D

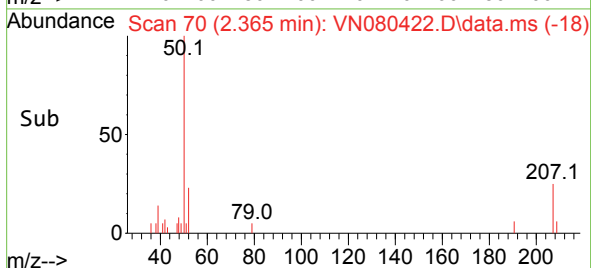
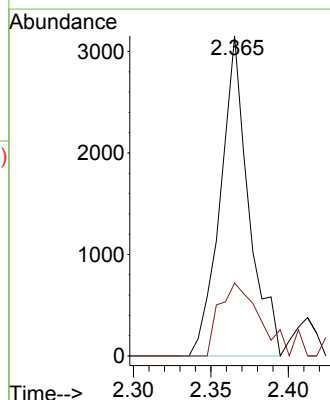
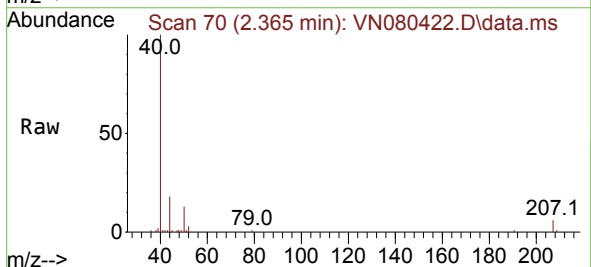
Acq: 08 Dec 2023 21:31

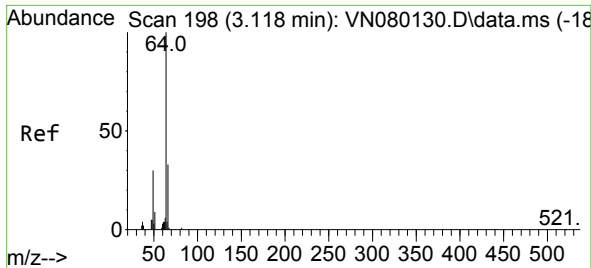
Tgt Ion: 50 Resp: 4005

Ion Ratio Lower Upper

50 100

52 22.8 26.5 39.7#





#6

Chloroethane

Concen: 0.513 ug/l

RT: 3.171 min Scan# 20

Delta R.T. 0.053 min

Lab File: VN080422.D

Acq: 08 Dec 2023 21:31

Instrument :

MSVOA_N

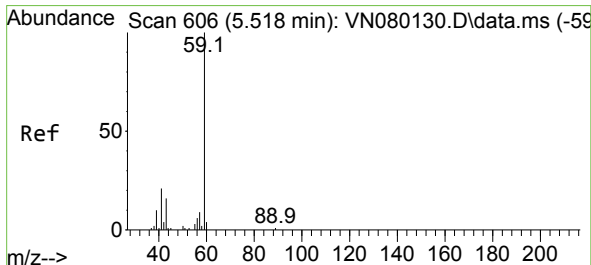
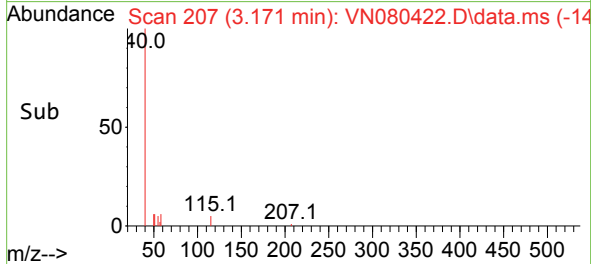
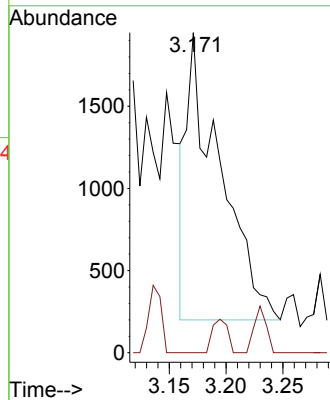
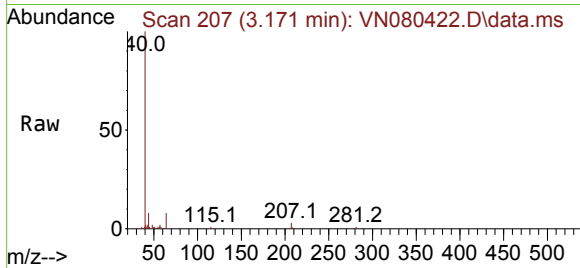
ClientSampleId :

Tgt Ion: 64 Resp: 3571

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.2#



#11

Tert butyl alcohol

Concen: 15.993 ug/l

RT: 5.512 min Scan# 605

Delta R.T. -0.006 min

Lab File: VN080422.D

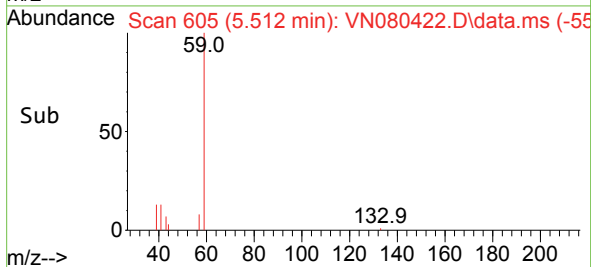
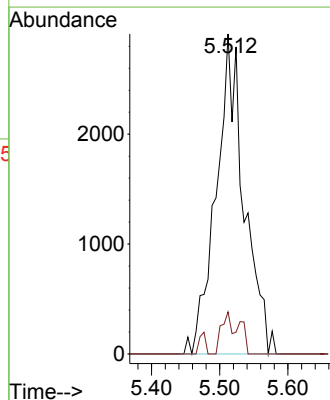
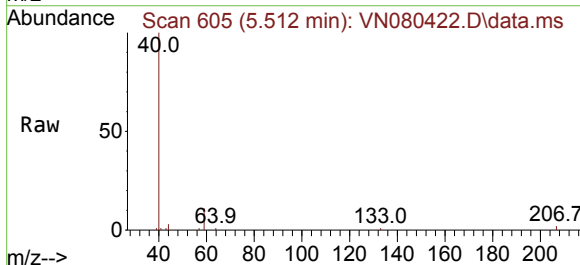
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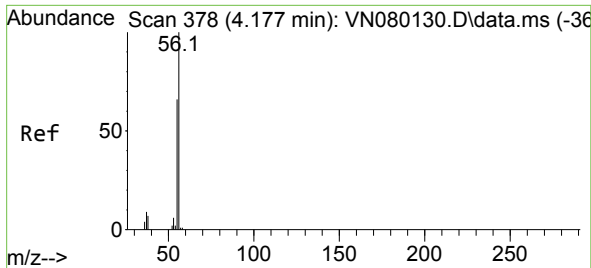
Tgt Ion: 59 Resp: 8317

Ion Ratio Lower Upper

59 100

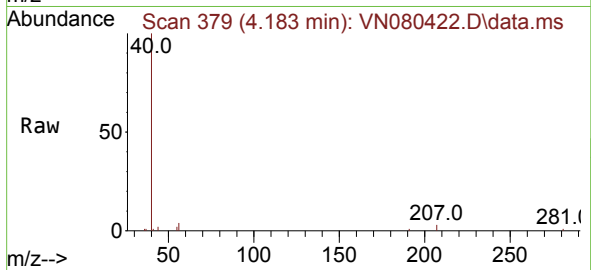
57 5.5 8.2 12.4#



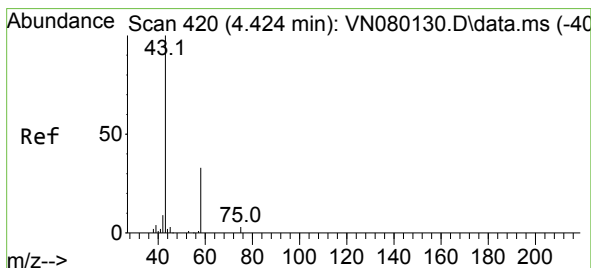
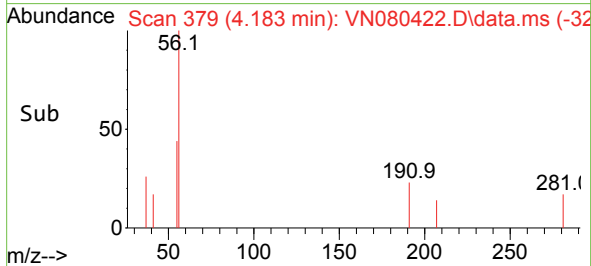
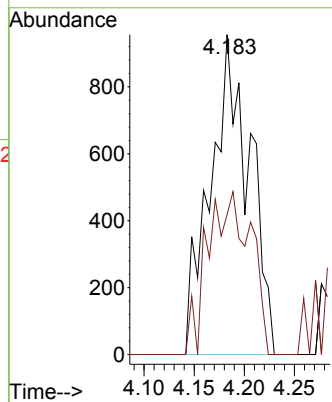


#13
Acrolein
Concen: 5.634 ug/l
RT: 4.183 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN080422.D
Acq: 08 Dec 2023 21:31

Instrument :
MSVOA_N
ClientSampleId :

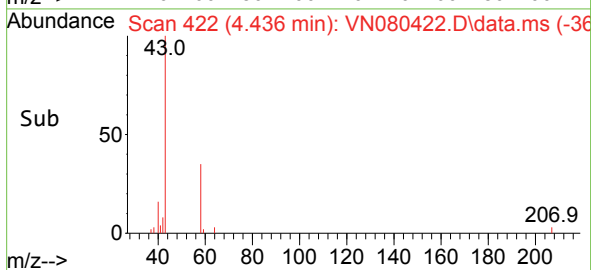
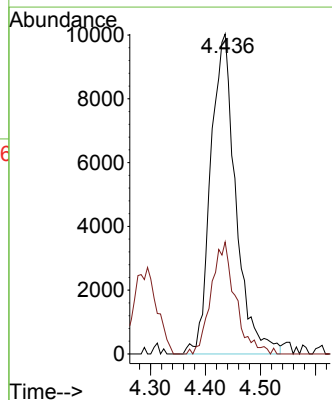
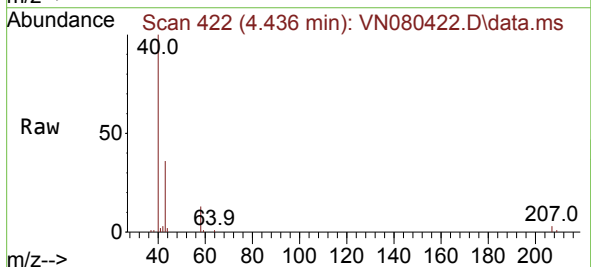


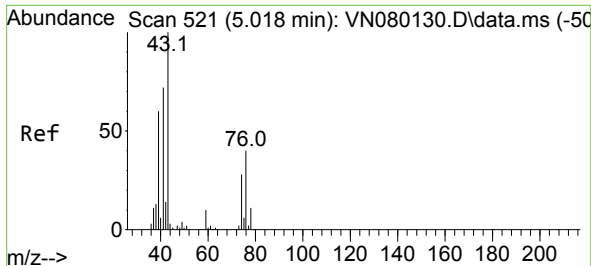
Tgt Ion: 56 Resp: 2593
Ion Ratio Lower Upper
56 100
55 56.2 54.5 81.7



#16
Acetone
Concen: 20.030 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN080422.D
Acq: 08 Dec 2023 21:31

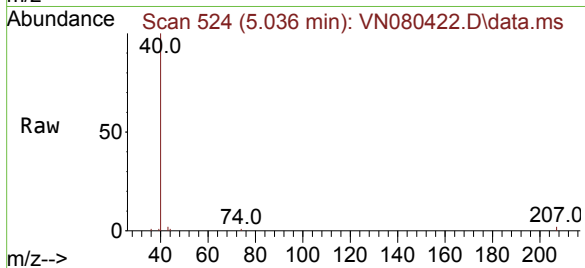
Tgt Ion: 43 Resp: 31816
Ion Ratio Lower Upper
43 100
58 35.0 28.0 42.0



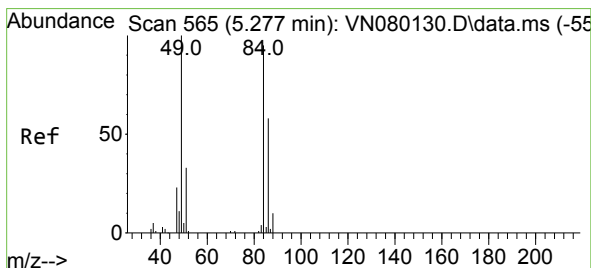
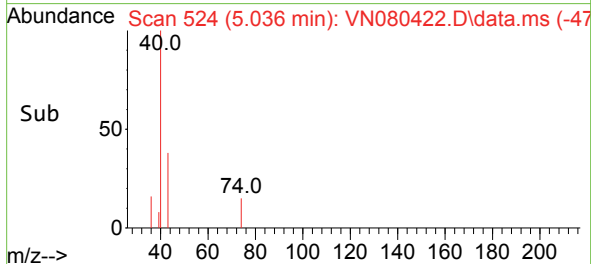
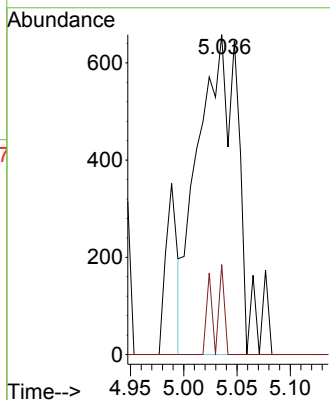


#18
Methyl Acetate
Concen: 0.348 ug/l
RT: 5.036 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN080422.D
Acq: 08 Dec 2023 21:31

Instrument :
MSVOA_N
ClientSampleId :

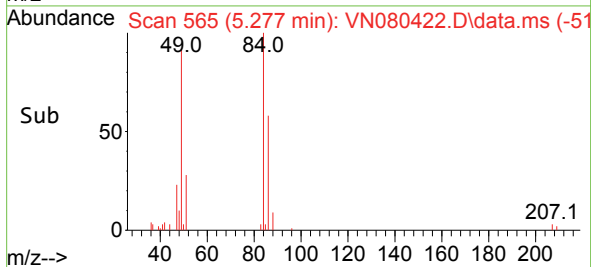
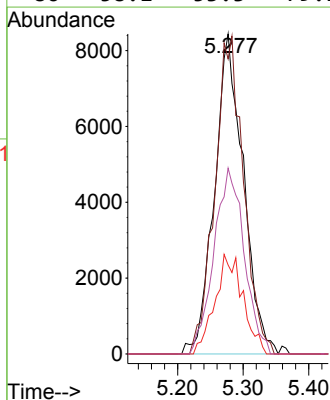
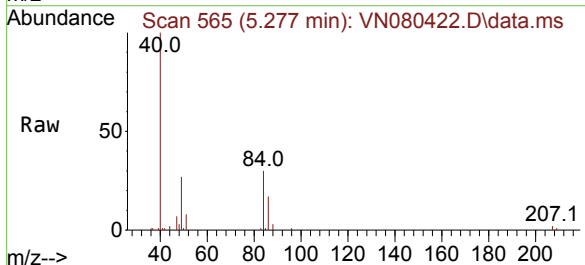


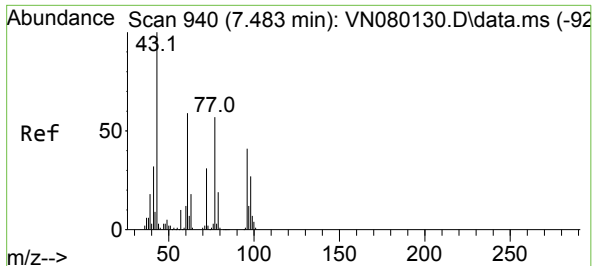
Tgt Ion: 43 Resp: 1775
Ion Ratio Lower Upper
43 100
74 7.0 26.2 39.4#



#20
Methylene Chloride
Concen: 7.744 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN080422.D
Acq: 08 Dec 2023 21:31

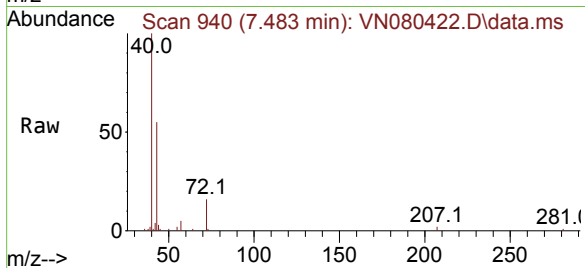
Tgt Ion: 84 Resp: 25758
Ion Ratio Lower Upper
84 100
49 92.2 79.7 119.5
51 27.8 25.2 37.8
86 58.1 53.3 79.9



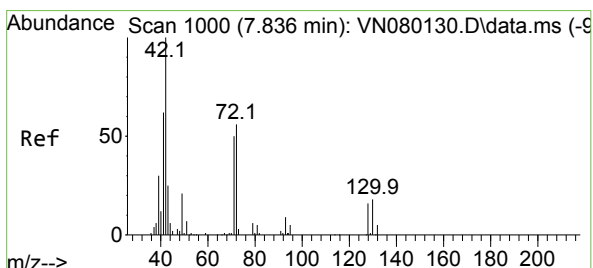
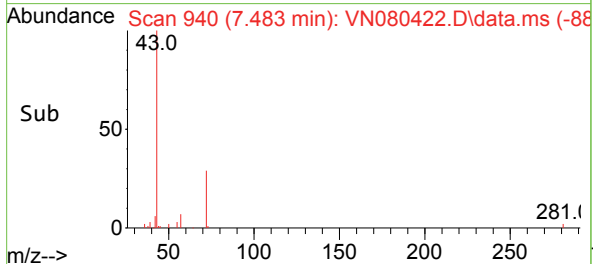
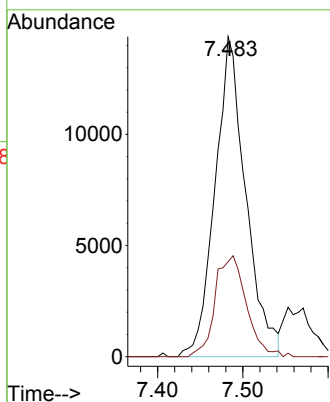


#25
2-Butanone
Concen: 19.126 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN080422.D
Acq: 08 Dec 2023 21:31

Instrument :
MSVOA_N
ClientSampleId :

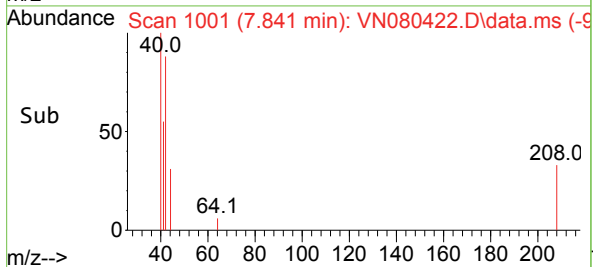
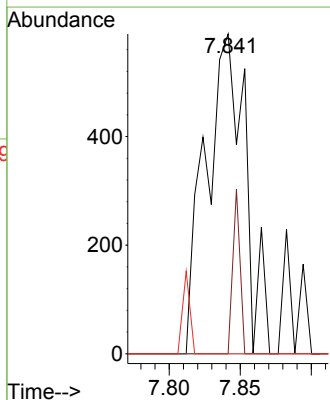
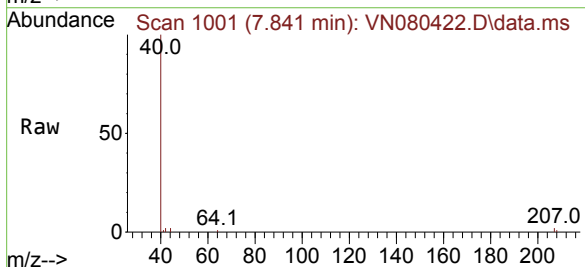


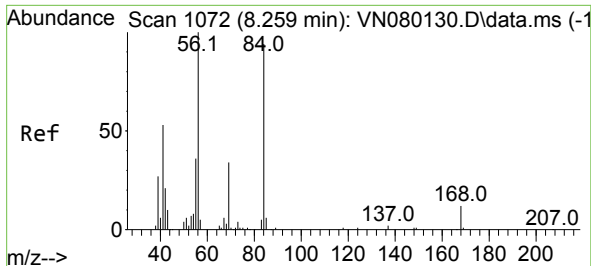
Tgt Ion: 43 Resp: 36095
Ion Ratio Lower Upper
43 100
72 29.7 30.2 45.2#



#29
Tetrahydrofuran
Concen: 1.129 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VN080422.D
Acq: 08 Dec 2023 21:31

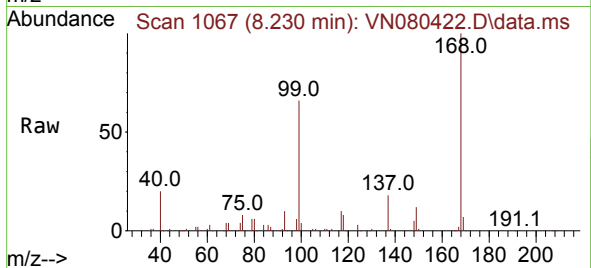
Tgt Ion: 42 Resp: 1144
Ion Ratio Lower Upper
42 100
72 9.4 49.8 74.6#
71 0.0 47.4 71.2#



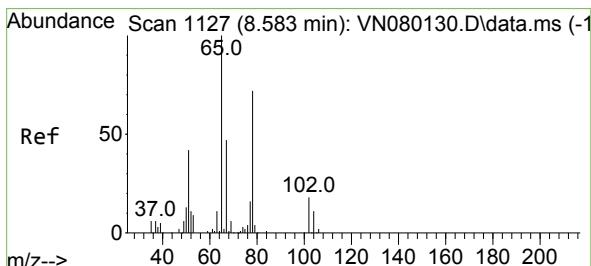
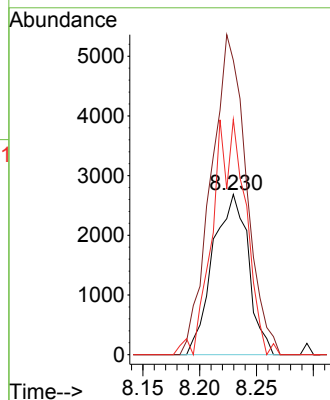
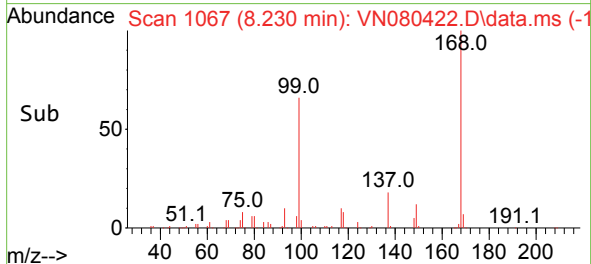


#31
Cyclohexane
Concen: 1.136 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.030 min
Lab File: VN080422.D
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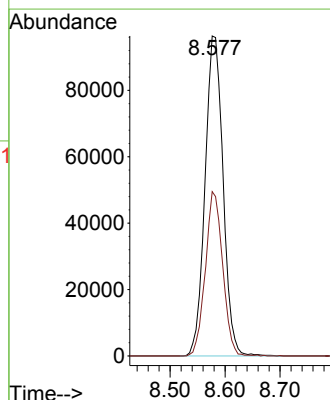
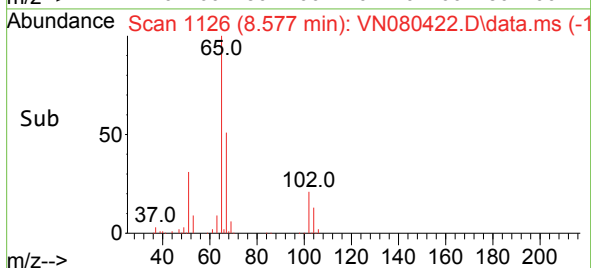
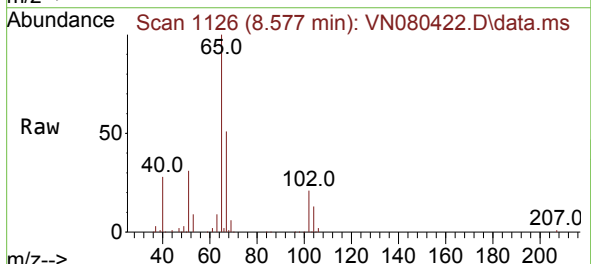


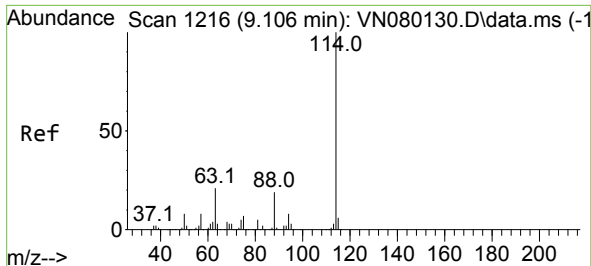
Tgt Ion: 56 Resp: 5844
Ion Ratio Lower Upper
56 100
69 183.7 26.8 40.2#
84 146.8 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 46.491 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.006 min
Lab File: VN080422.D
Acq: 08 Dec 2023 21:31

Tgt Ion: 65 Resp: 219860
Ion Ratio Lower Upper
65 100
67 49.3 0.0 106.6

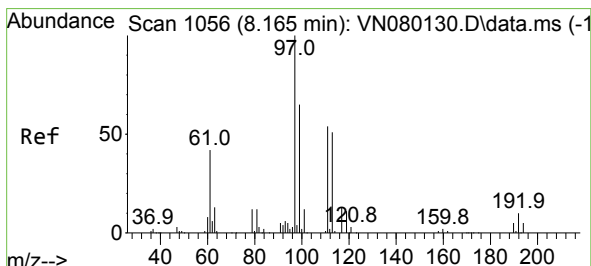
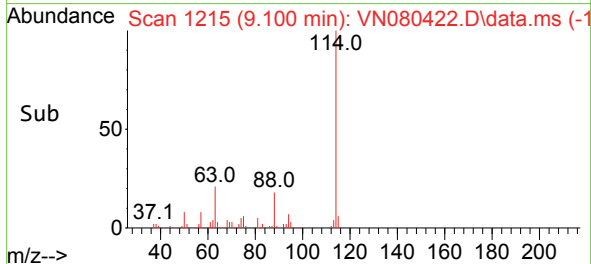
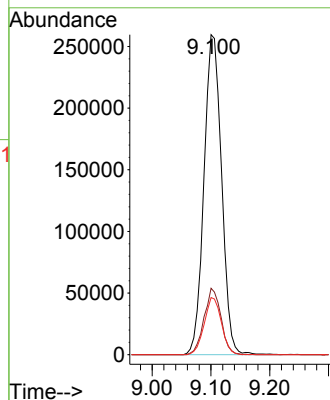
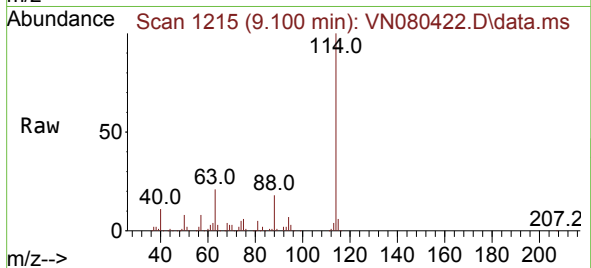




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN080422.D
Acq: 08 Dec 2023 21:31

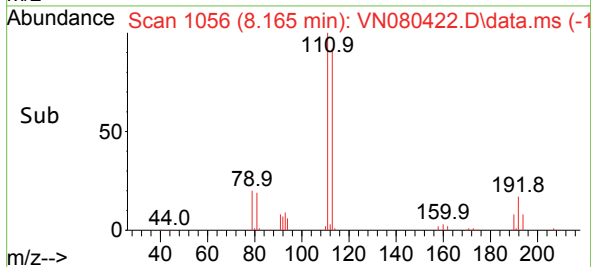
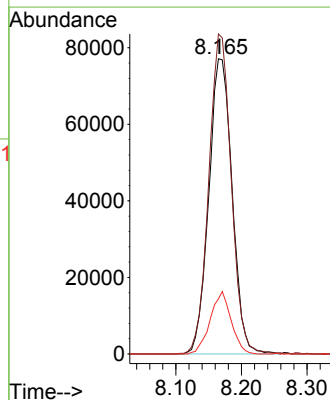
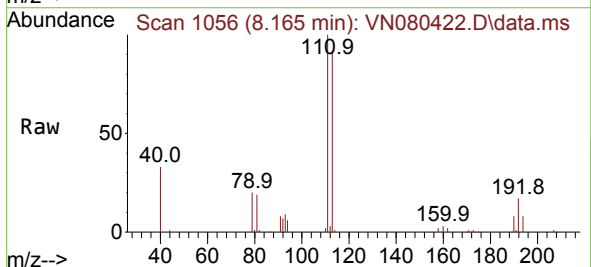
Instrument :
MSVOA_N
ClientSampleId :

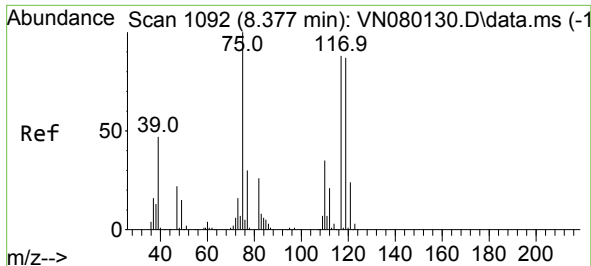
Tgt Ion:114 Resp: 539049
Ion Ratio Lower Upper
114 100
63 20.8 0.0 36.4
88 17.9 0.0 30.6



#35
Dibromofluoromethane
Concen: 47.933 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN080422.D
Acq: 08 Dec 2023 21:31

Tgt Ion:113 Resp: 190651
Ion Ratio Lower Upper
113 100
111 104.5 82.6 123.8
192 19.0 12.7 19.1





#36

1,1-Dichloropropene

Concen: 3.801 ug/l

RT: 8.230 min Scan# 1092

Delta R.T. -0.147 min

Lab File: VN080422.D

Acq: 08 Dec 2023 21:31

Instrument :

MSVOA_N

ClientSampleId :

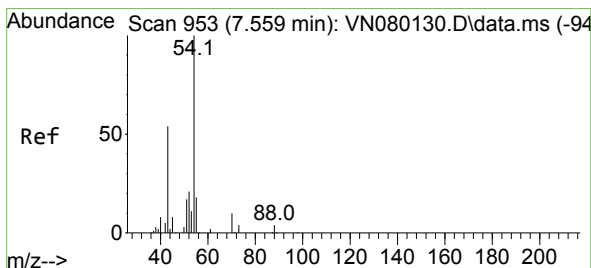
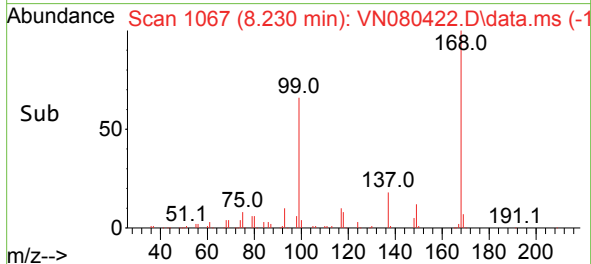
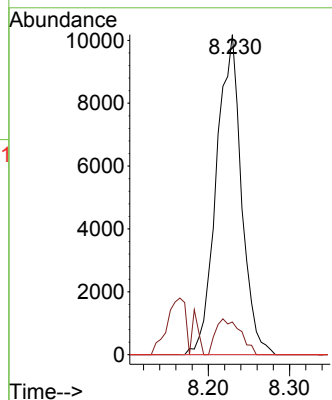
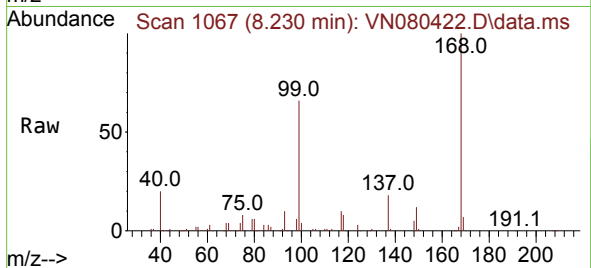
Tgt Ion: 75 Resp: 21887

Ion Ratio Lower Upper

75 100

110 11.1 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 1.310 ug/l

RT: 7.553 min Scan# 952

Delta R.T. -0.006 min

Lab File: VN080422.D

Acq: 08 Dec 2023 21:31

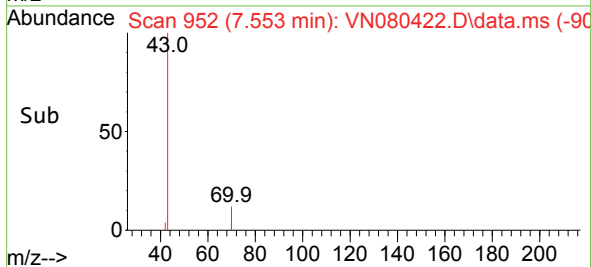
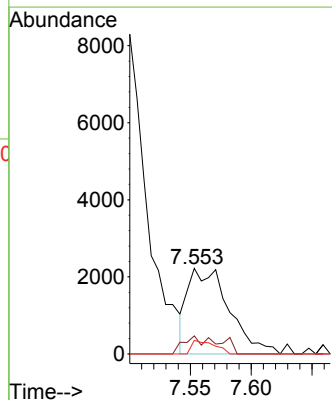
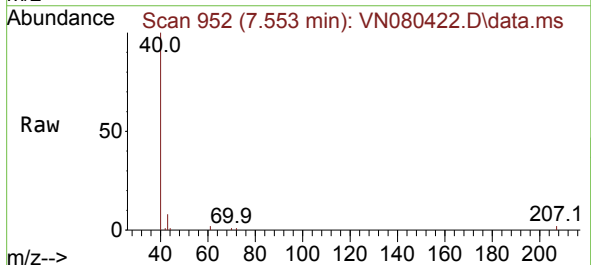
Tgt Ion: 43 Resp: 5232

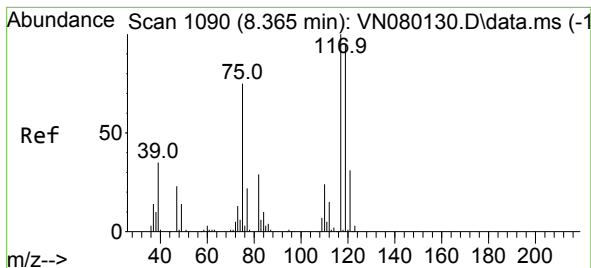
Ion Ratio Lower Upper

43 100

61 18.2 13.2 19.8

70 8.8 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 4.161 ug/l

RT: 8.224 min Scan# 1106

Delta R.T. -0.141 min

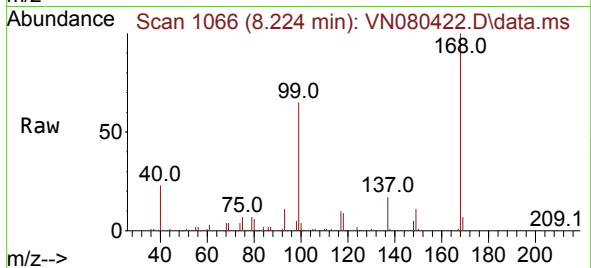
Lab File: VN080422.D

Acq: 08 Dec 2023 21:31

Instrument :

MSVOA_N

ClientSampleId :



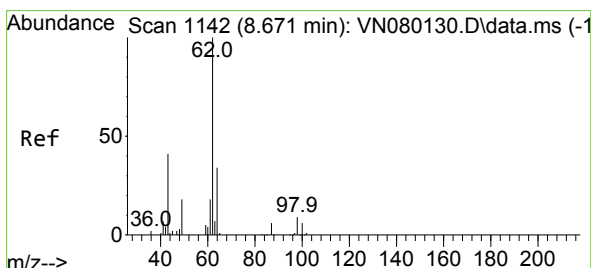
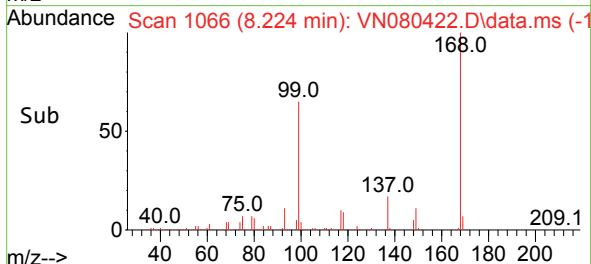
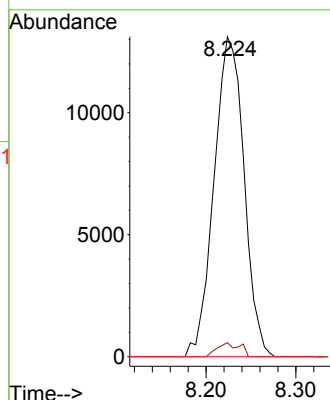
Tgt Ion:117 Resp: 30409

Ion Ratio Lower Upper

117 100

119 4.4 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.216 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.018 min

Lab File: VN080422.D

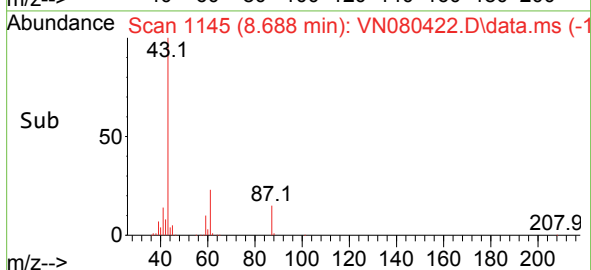
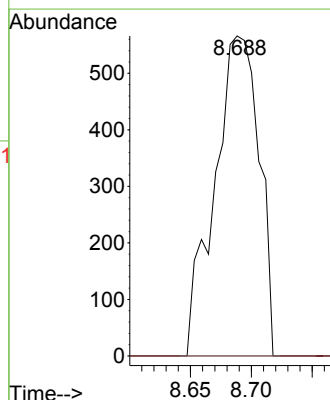
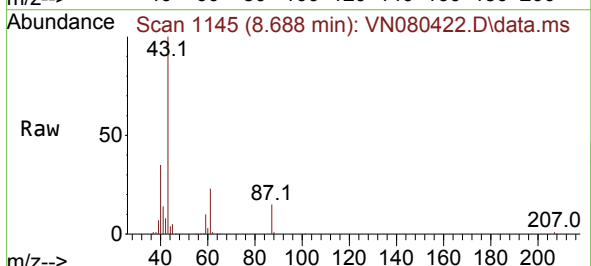
Acq: 08 Dec 2023 21:31

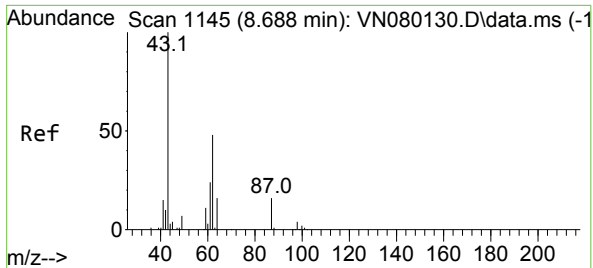
Tgt Ion: 62 Resp: 1443

Ion Ratio Lower Upper

62 100

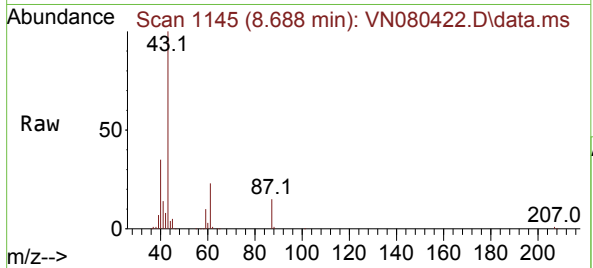
98 0.0 0.0 19.8



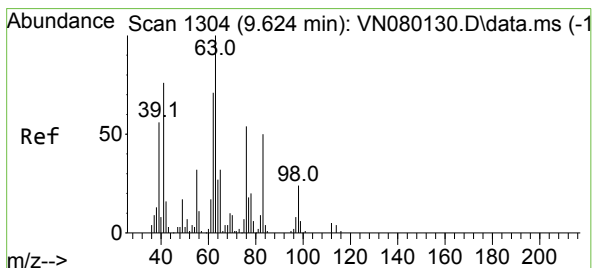
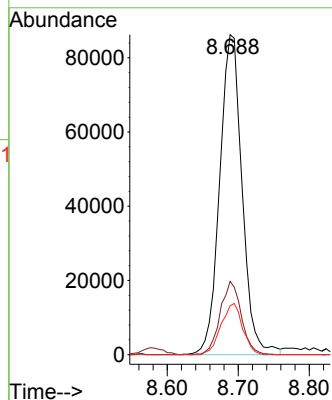
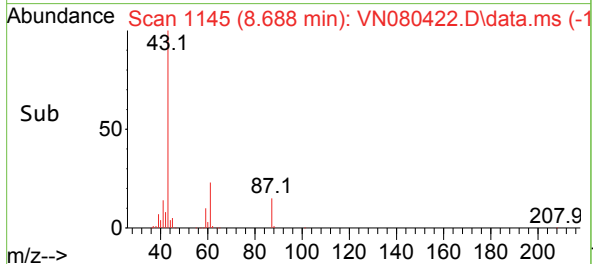


#43
Isopropyl Acetate
Concen: 24.315 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. -0.000 min
Lab File: VN080422.D
Acq: 08 Dec 2023 21:31

Instrument :
MSVOA_N
ClientSampleId :

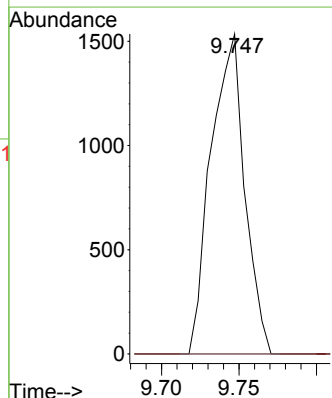
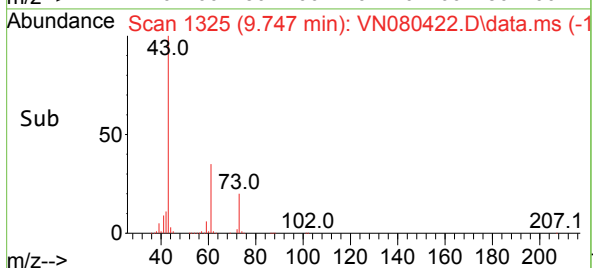
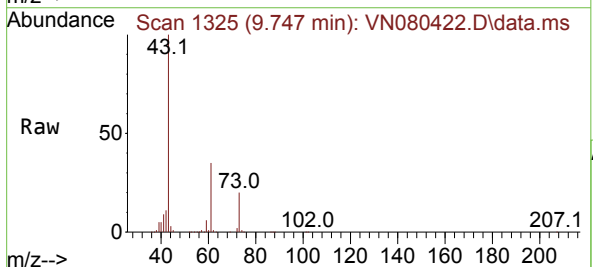


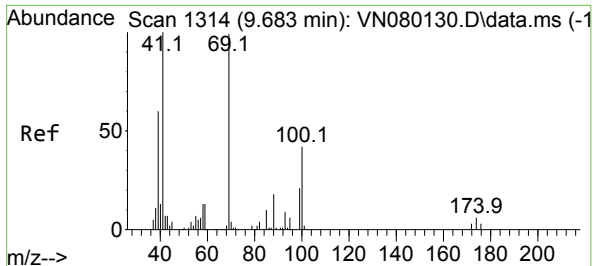
Tgt Ion: 43 Resp: 188999
Ion Ratio Lower Upper
43 100
61 21.5 24.7 37.1#
87 15.3 14.6 21.8



#45
1,2-Dichloropropane
Concen: 0.610 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.123 min
Lab File: VN080422.D
Acq: 08 Dec 2023 21:31

Tgt Ion: 63 Resp: 2322
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#

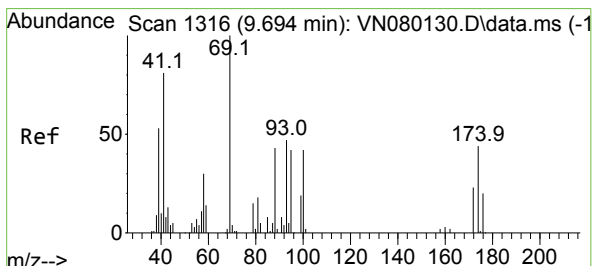
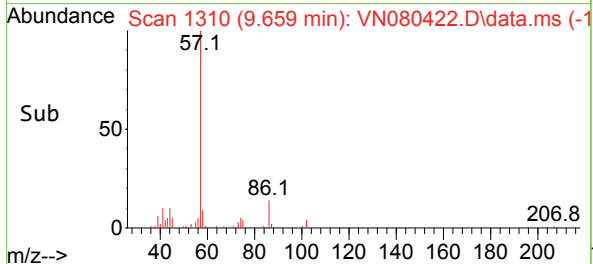
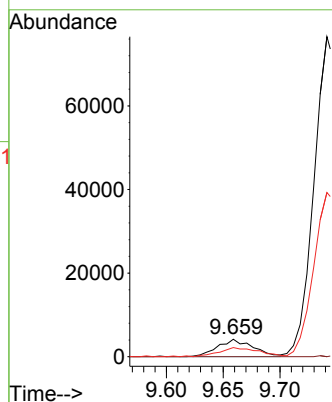
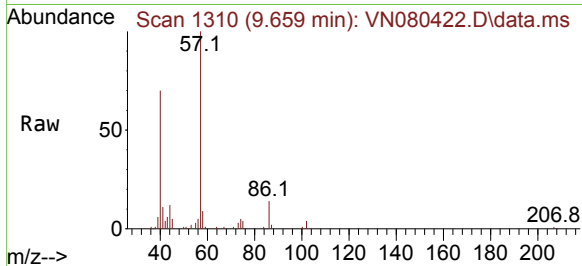




#48
Methyl methacrylate
Concen: 2.239 ug/l
RT: 9.659 min Scan# 1310
Delta R.T. -0.024 min
Lab File: VN080422.D
Acq: 08 Dec 2023 21:31

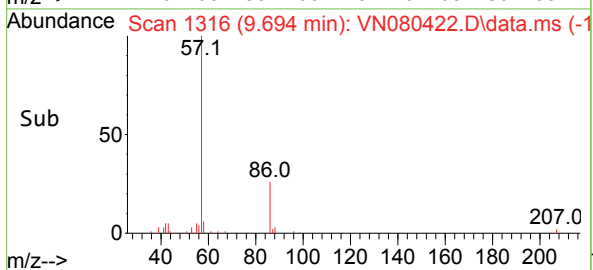
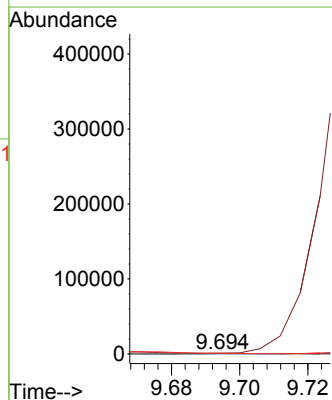
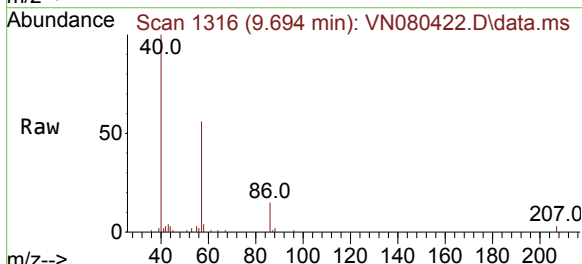
Instrument :
MSVOA_N
ClientSampleId :

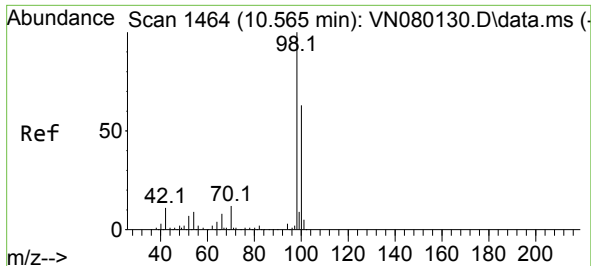
Tgt Ion: 41 Resp: 8968
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 59.7 54.6 81.8



#49
1,4-Dioxane
Concen: 4.997 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. -0.000 min
Lab File: VN080422.D
Acq: 08 Dec 2023 21:31

Tgt Ion: 88 Resp: 333
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 0.0 47.0 70.4#

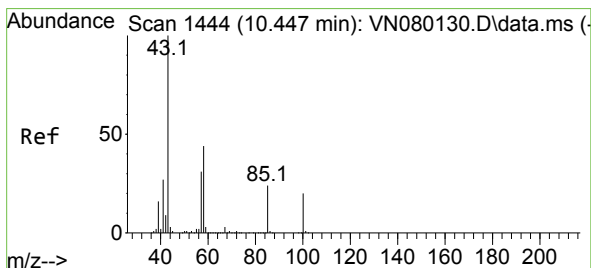
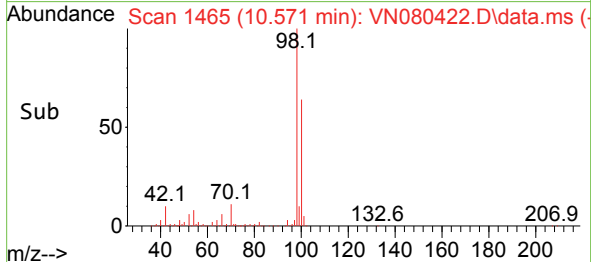
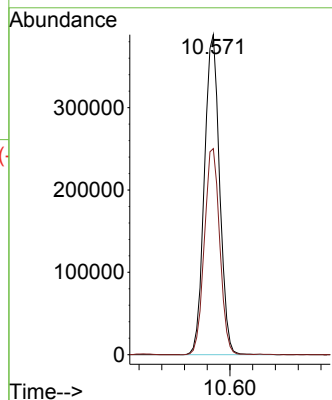
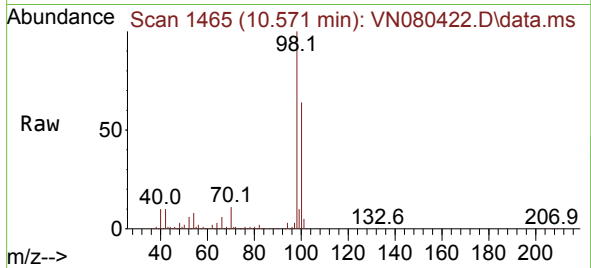




#50
Toluene-d8
Concen: 50.190 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN080422.D
Acq: 08 Dec 2023 21:31

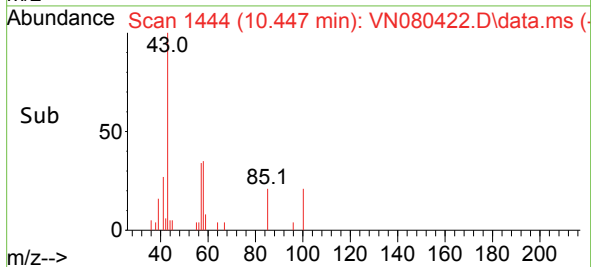
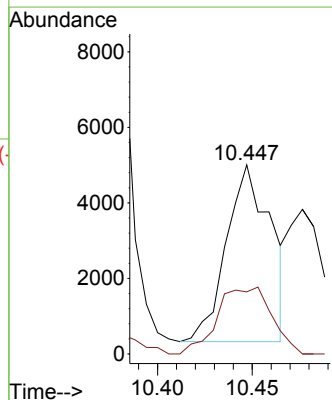
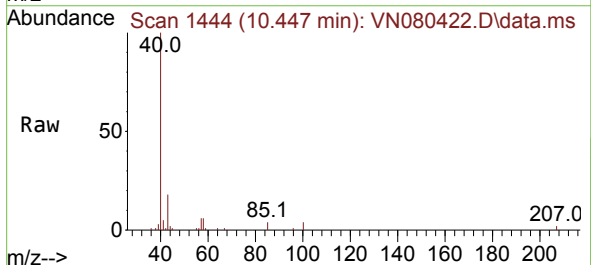
Instrument :
MSVOA_N
ClientSampleId :

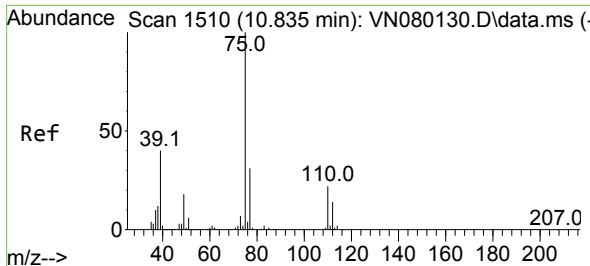
Tgt Ion: 98 Resp: 719620
Ion Ratio Lower Upper
98 100
100 65.1 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 1.901 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN080422.D
Acq: 08 Dec 2023 21:31

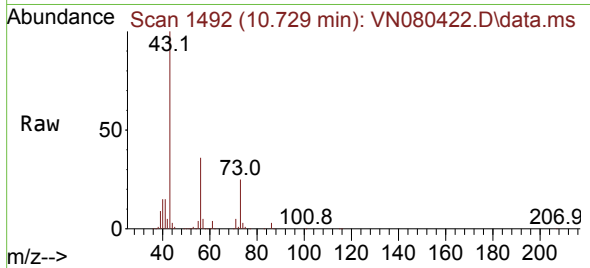
Tgt Ion: 43 Resp: 7652
Ion Ratio Lower Upper
43 100
58 46.1 36.6 54.8



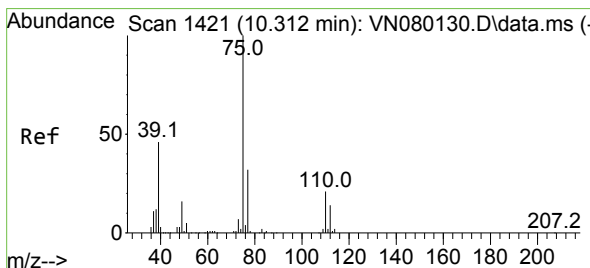
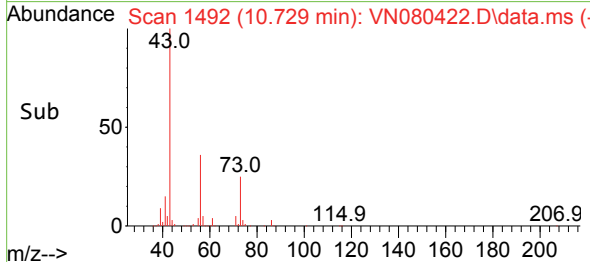
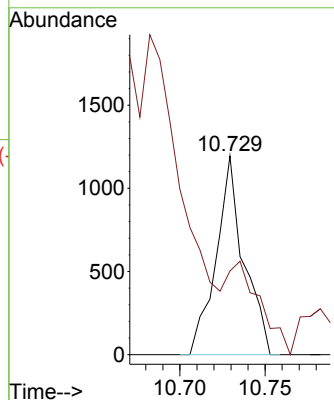


#53
 t-1,3-Dichloropropene
 Concen: 0.208 ug/l
 RT: 10.729 min Scan# 1492
 Delta R.T. -0.106 min
 Lab File: VN080422.D
 Acq: 08 Dec 2023 21:31

Instrument :
 MSVOA_N
 ClientSampleId :

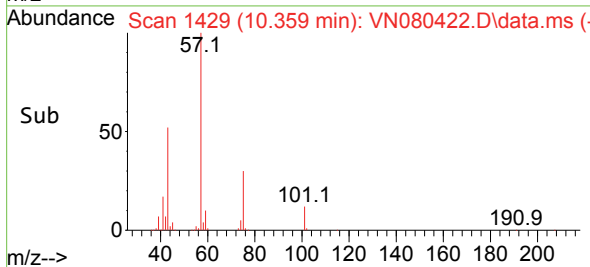
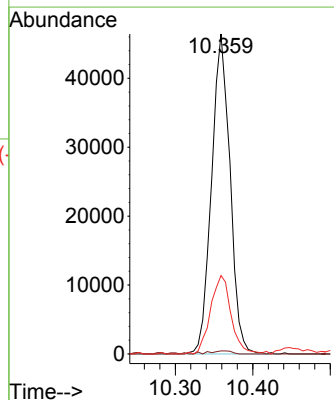
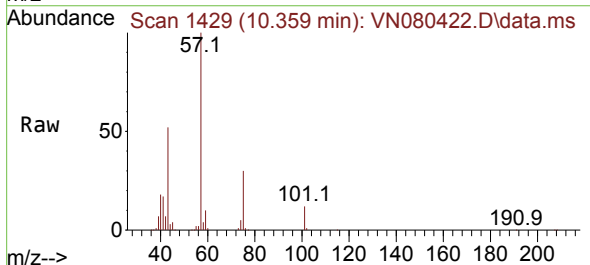


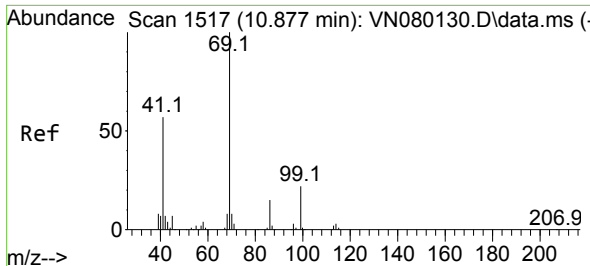
Tgt Ion: 75 Resp: 1354
 Ion Ratio Lower Upper
 75 100
 77 28.6 25.4 38.0



#54
 cis-1,3-Dichloropropene
 Concen: 11.585 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN080422.D
 Acq: 08 Dec 2023 21:31

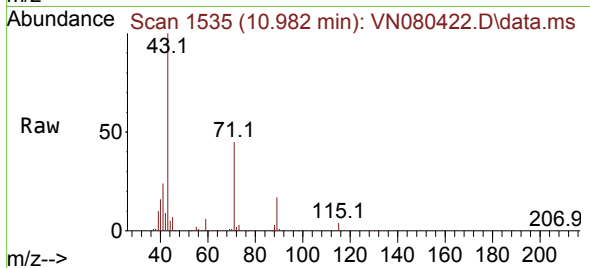
Tgt Ion: 75 Resp: 77017
 Ion Ratio Lower Upper
 75 100
 77 1.0 26.1 39.1#
 39 24.5 31.6 47.4#



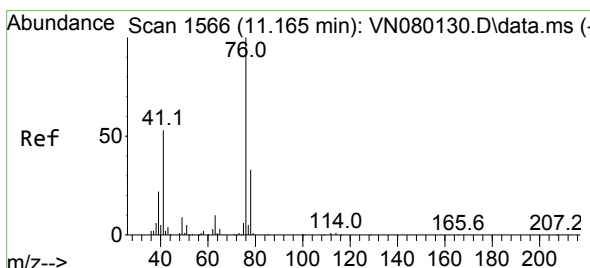
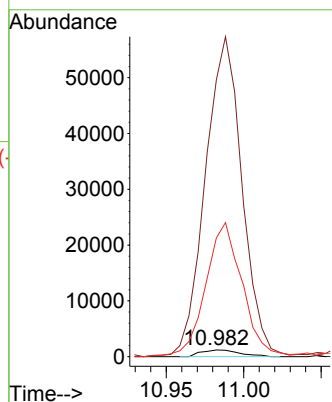
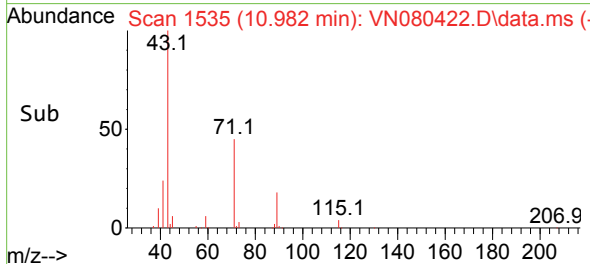


#56
Ethyl methacrylate
Concen: 0.527 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.106 min
Lab File: VN080422.D
Acq: 08 Dec 2023 21:31

Instrument :
MSVOA_N
ClientSampleId :

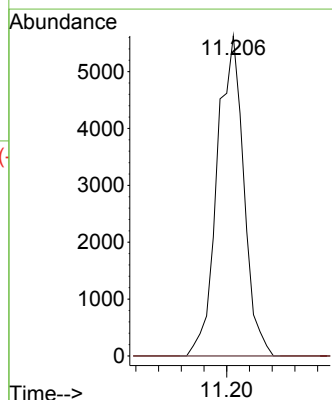
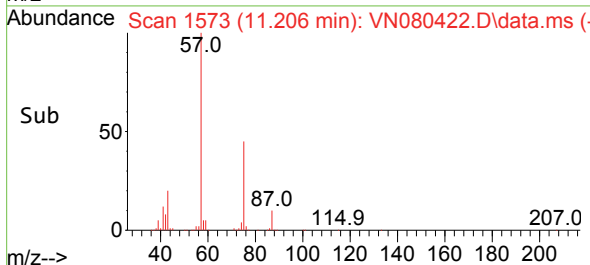
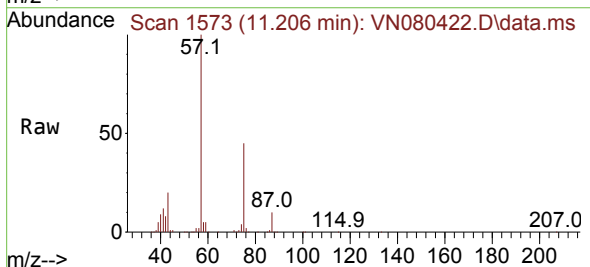


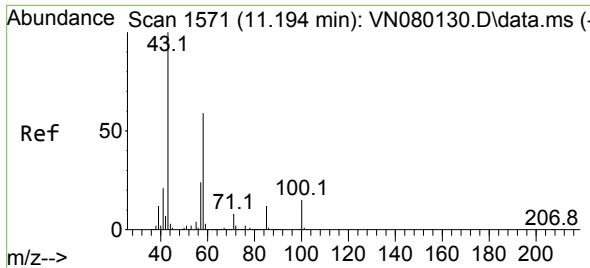
Tgt Ion: 69 Resp: 2104
Ion Ratio Lower Upper
69 100
41 4504.8 39.6 59.4#
39 1876.0 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.340 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.041 min
Lab File: VN080422.D
Acq: 08 Dec 2023 21:31

Tgt Ion: 76 Resp: 9148
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

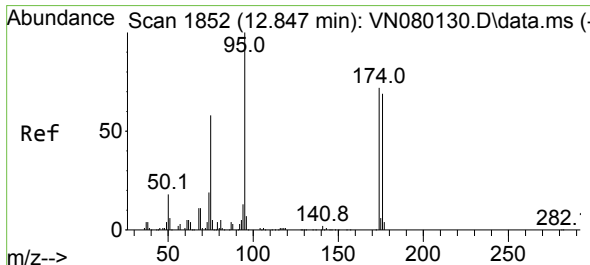
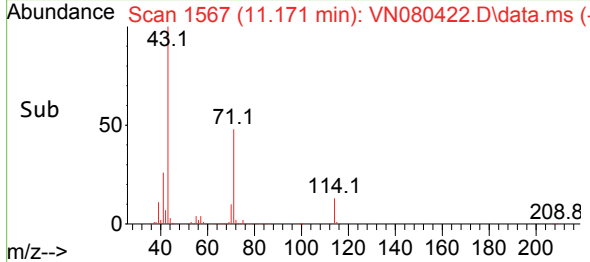
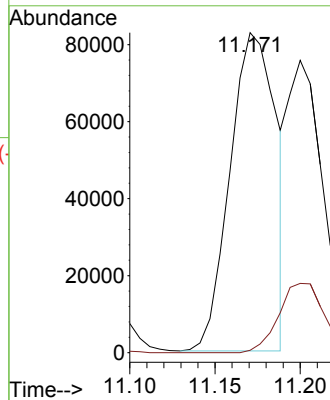
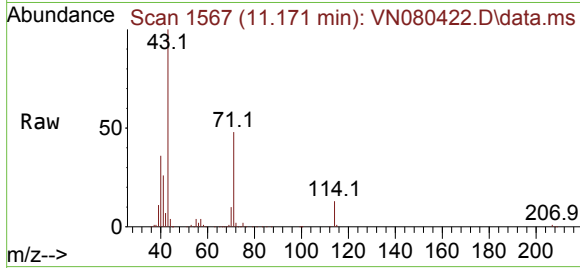




#59
2-Hexanone
Concen: 48.072 ug/l
RT: 11.171 min Scan# 1567
Delta R.T. -0.024 min
Lab File: VN080422.D
Acq: 08 Dec 2023 21:31

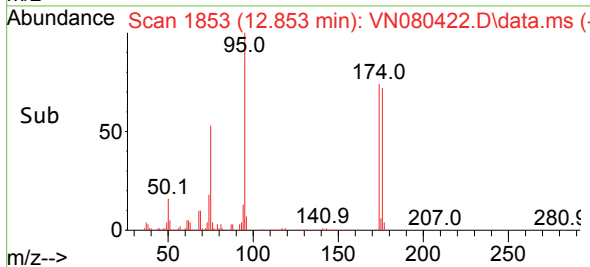
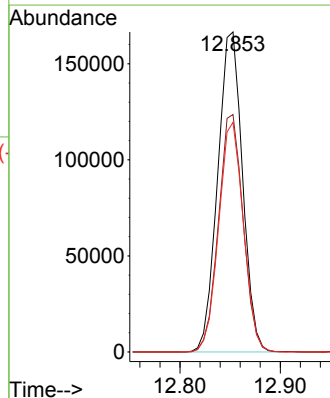
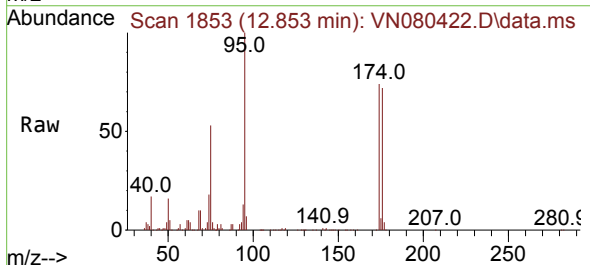
Instrument :
MSVOA_N
ClientSampleId :

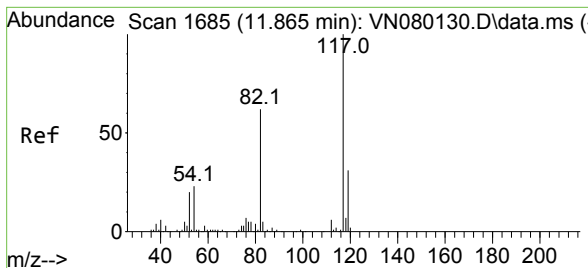
Tgt Ion: 43 Resp: 155449
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 52.736 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN080422.D
Acq: 08 Dec 2023 21:31

Tgt Ion: 95 Resp: 285603
Ion Ratio Lower Upper
95 100
174 73.8 0.0 143.8
176 71.3 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN080422.D

Acq: 08 Dec 2023 21:31

Instrument :

MSVOA_N

ClientSampleId :

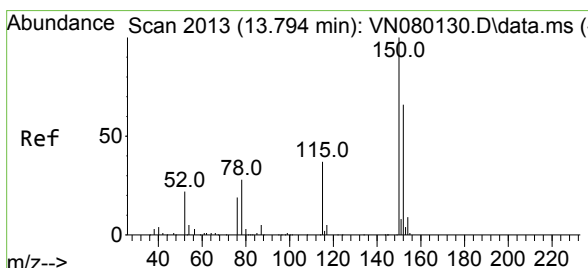
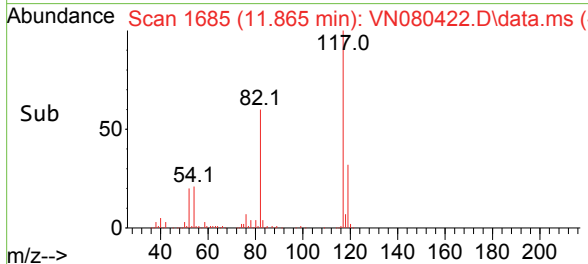
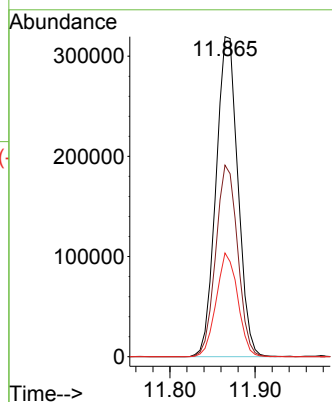
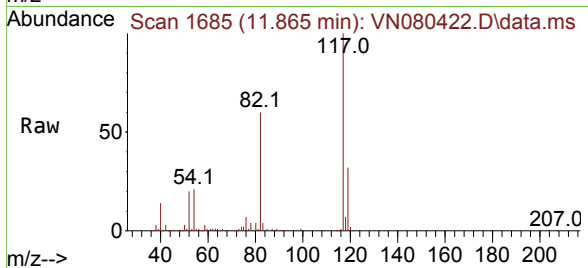
Tgt Ion:117 Resp: 571268

Ion Ratio Lower Upper

117 100

82 59.9 44.0 66.0

119 32.4 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. -0.000 min

Lab File: VN080422.D

Acq: 08 Dec 2023 21:31

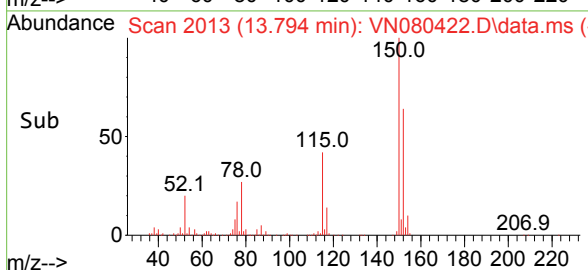
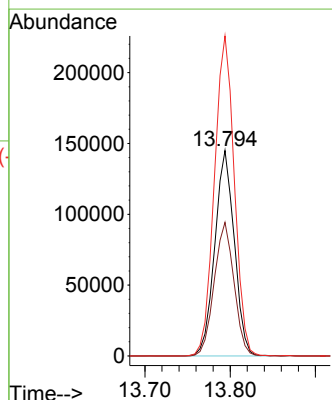
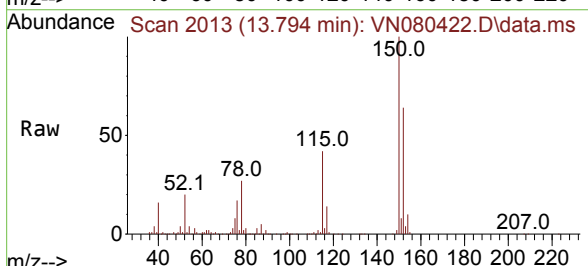
Tgt Ion:152 Resp: 230911

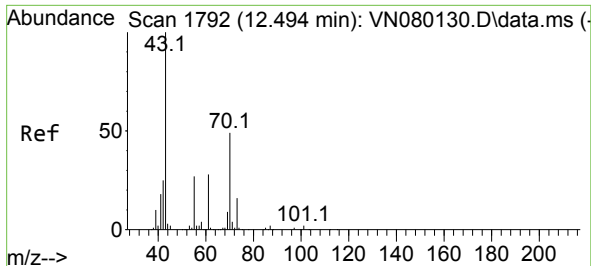
Ion Ratio Lower Upper

152 100

115 65.8 32.3 96.8

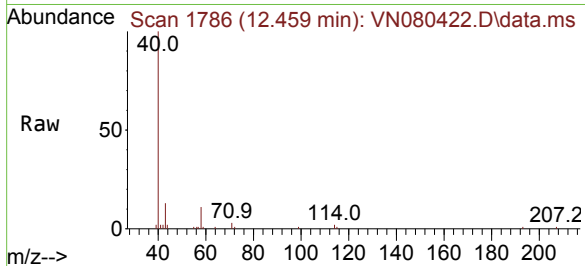
150 158.9 0.0 355.8



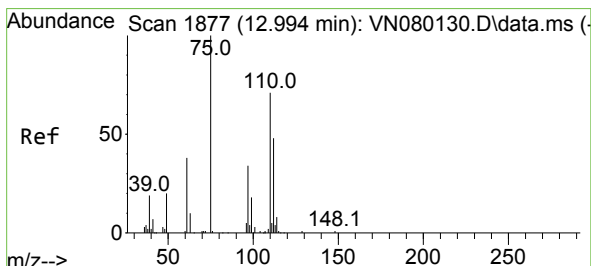
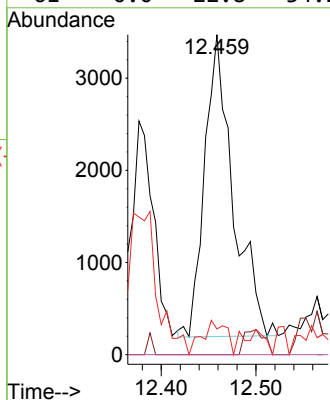
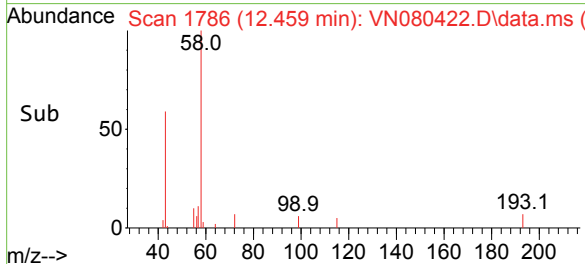


#74
N-amy1 acetate
Concen: 1.220 ug/l
RT: 12.459 min Scan# 1
Delta R.T. -0.035 min
Lab File: VN080422.D
Acq: 08 Dec 2023 21:31

Instrument :
MSVOA_N
ClientSampleId :

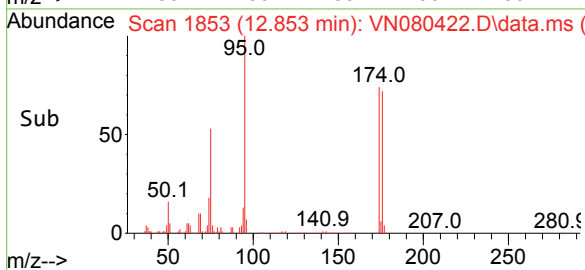
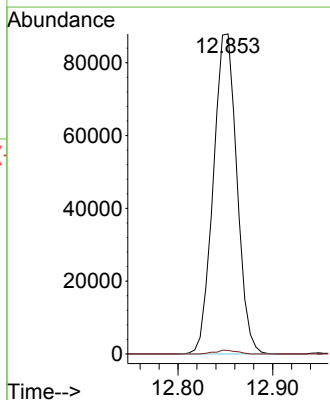
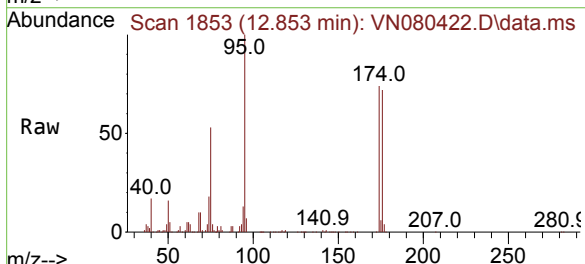


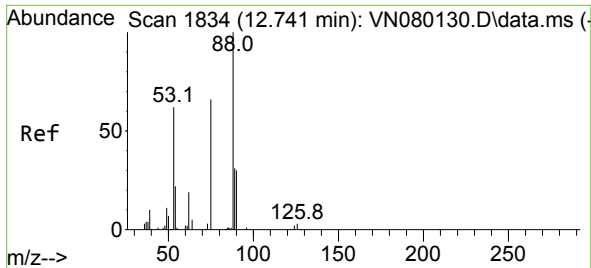
Tgt Ion: 43 Resp: 6826
Ion Ratio Lower Upper
43 100
70 0.0 43.4 65.2#
55 9.4 21.4 32.0#
61 0.0 22.8 34.2#



#76
1,2,3-Trichloropropane
Concen: 26.898 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN080422.D
Acq: 08 Dec 2023 21:31

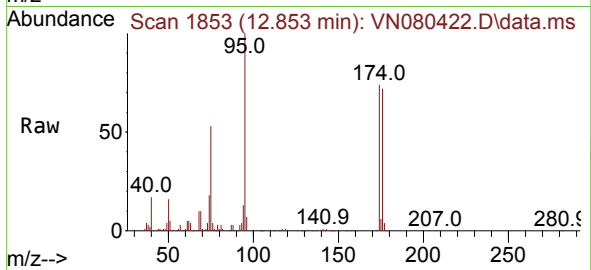
Tgt Ion: 75 Resp: 152180
Ion Ratio Lower Upper
75 100
77 1.1 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 90.877 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN080422.D
 Acq: 08 Dec 2023 21:31

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 152180
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.1 38.8 58.2#

