

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112023\
 Data File : VN080222.D
 Acq On : 20 Nov 2023 20:56
 Operator : JC\MD
 Sample : 05492-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 21 01:12:23 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

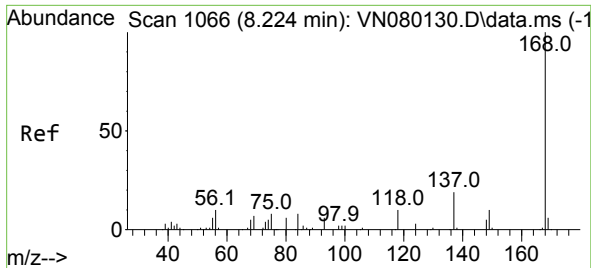
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.230	168	136437	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	254651	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	292127	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	127843	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	132325	58.738	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 117.480%	
35) Dibromofluoromethane	8.171	113	101642	54.094	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 108.180%	
50) Toluene-d8	10.571	98	361809	53.416	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 106.840%	
62) 4-Bromofluorobenzene	12.853	95	145118	56.722	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 113.440%	
Target Compounds						
					Qvalue	
6) Chloroethane	3.106	64	390	Below Cal	#	43
11) Tert butyl alcohol	5.536	59	54	0.218	ug/l #	72
16) Acetone	4.430	43	15488	20.469	ug/l #	84
18) Methyl Acetate	5.042	43	2942	1.210	ug/l #	61
20) Methylene Chloride	5.283	84	45656	28.813	ug/l	95
25) 2-Butanone	7.500	43	1315	1.463	ug/l #	80
31) Cyclohexane	8.230	56	3054	1.247	ug/l #	7
36) 1,1-Dichloropropene	8.218	75	11414	4.196	ug/l #	51
37) Ethyl Acetate	7.571	43	2199	1.165	ug/l #	69
38) Carbon Tetrachloride	8.230	117	16058	4.652	ug/l #	16
42) 1,2-Dichloroethane	8.688	62	846	0.267	ug/l #	73
43) Isopropyl Acetate	8.688	43	95011	25.874	ug/l #	83
45) 1,2-Dichloropropane	9.741	63	1237	0.688	ug/l #	45
48) Methyl methacrylate	9.747	41	84051	44.417	ug/l #	30
49) 1,4-Dioxane	9.735	88	55	1.747	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	3483	1.832	ug/l	88
54) cis-1,3-Dichloropropene	10.365	75	36813	11.722	ug/l #	69
56) Ethyl methacrylate	10.988	69	1692	0.897	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	4284	1.329	ug/l #	42
59) 2-Hexanone	11.171	43	72272	47.310	ug/l #	19
74) N-amyl acetate	12.488	43	670	0.216	ug/l #	36
76) 1,2,3-Trichloropropane	12.853	75	83491	26.654	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	83491	90.054	ug/l #	15
95) Naphthalene	15.647	128	2839	0.390	ug/l #	83

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

Quant Time: Nov 21 01:12:23 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

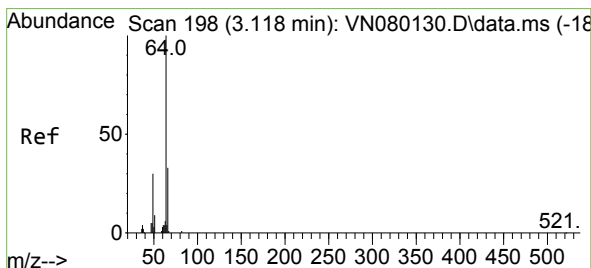
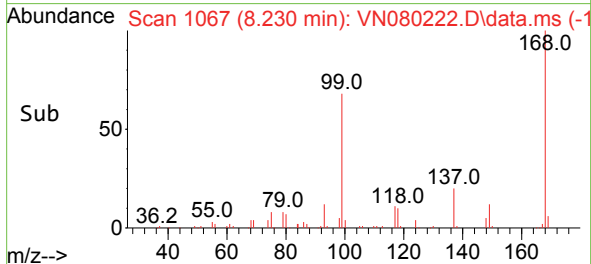
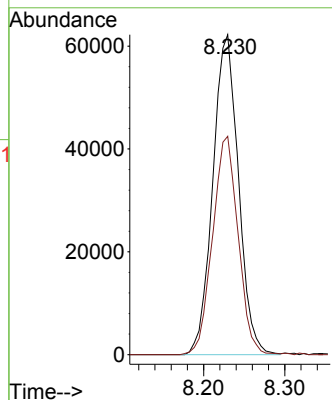
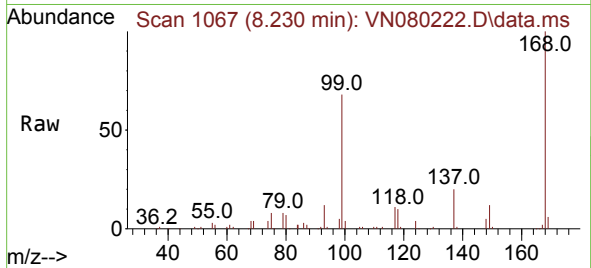




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN080222.D
Acq: 20 Nov 2023 20:56

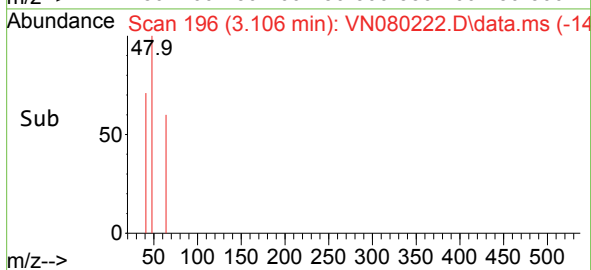
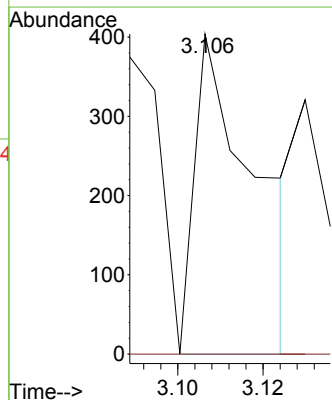
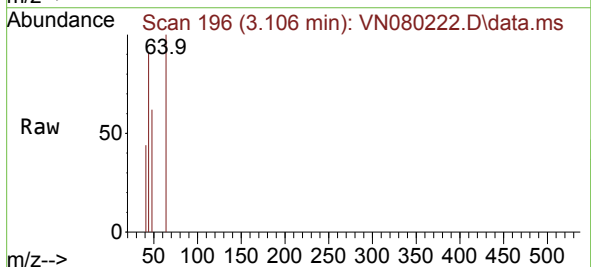
Instrument :
MSVOA_N
ClientSampleId :

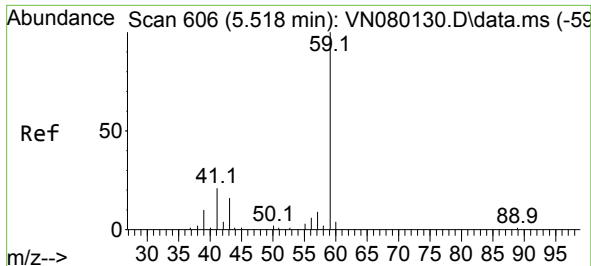
Tgt Ion:168 Resp: 136437
Ion Ratio Lower Upper
168 100
99 68.2 53.0 79.6



#6
Chloroethane
Concen: Below Cal
RT: 3.106 min Scan# 196
Delta R.T. -0.012 min
Lab File: VN080222.D
Acq: 20 Nov 2023 20:56

Tgt Ion: 64 Resp: 390
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

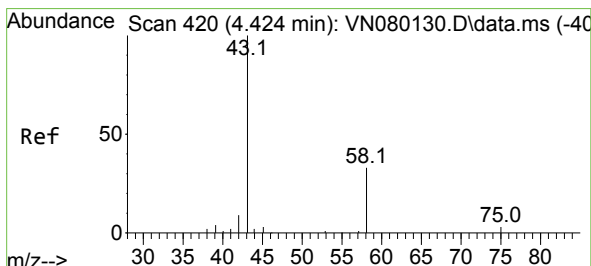
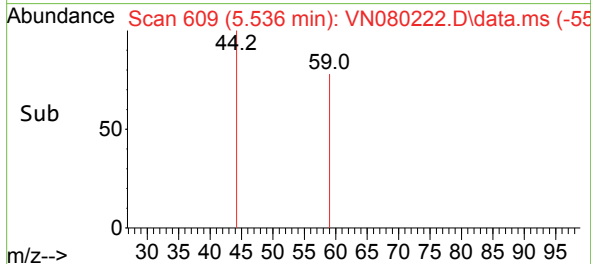
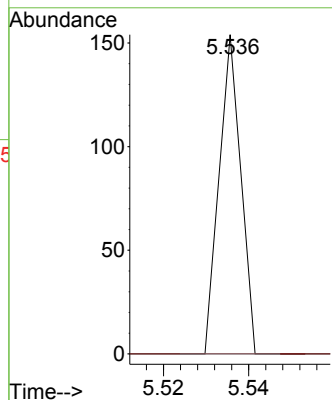
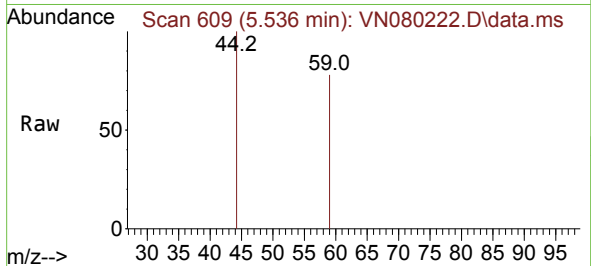




#11
Tert butyl alcohol
Concen: 0.218 ug/l
RT: 5.536 min Scan# 606
Delta R.T. 0.018 min
Lab File: VN080222.D
Acq: 20 Nov 2023 20:56

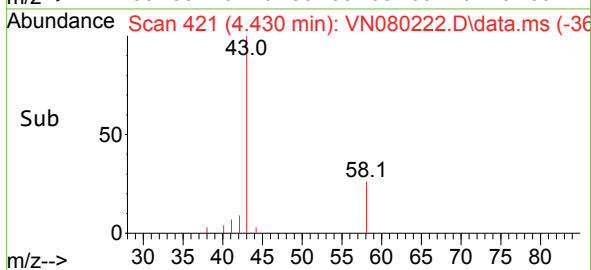
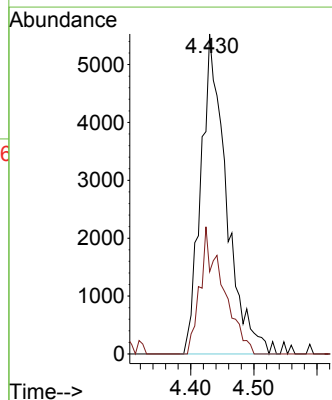
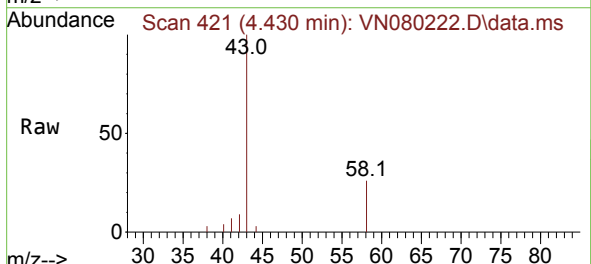
Instrument :
MSVOA_N
ClientSampleId :

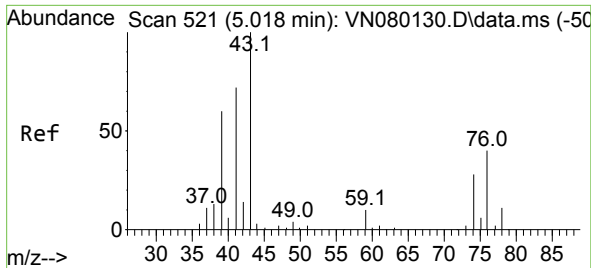
Tgt Ion: 59 Resp: 54
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 20.469 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN080222.D
Acq: 20 Nov 2023 20:56

Tgt Ion: 43 Resp: 15488
Ion Ratio Lower Upper
43 100
58 25.7 28.0 42.0#

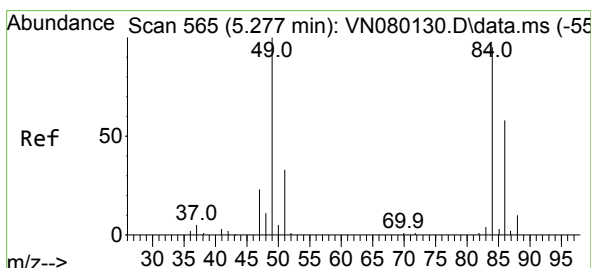
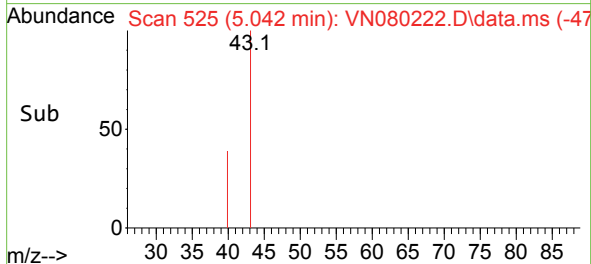
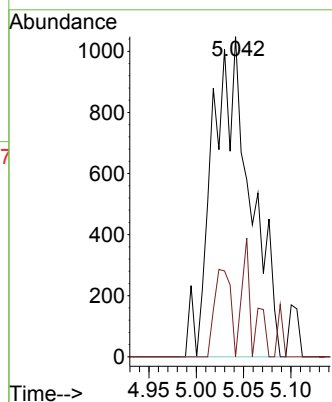
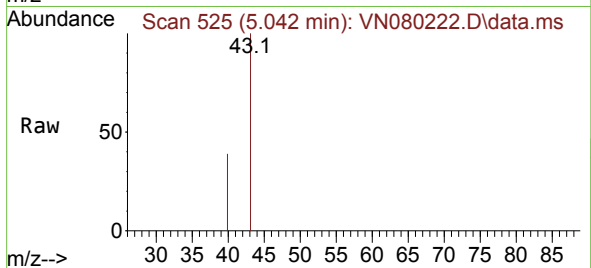




#18
Methyl Acetate
Concen: 1.210 ug/l
RT: 5.042 min Scan# 51
Delta R.T. 0.023 min
Lab File: VN080222.D
Acq: 20 Nov 2023 20:56

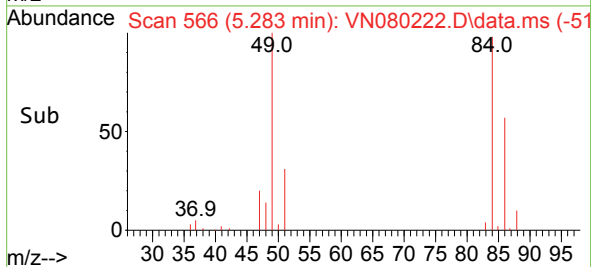
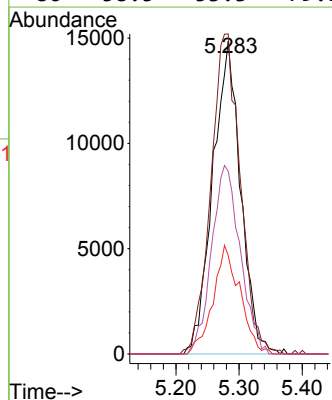
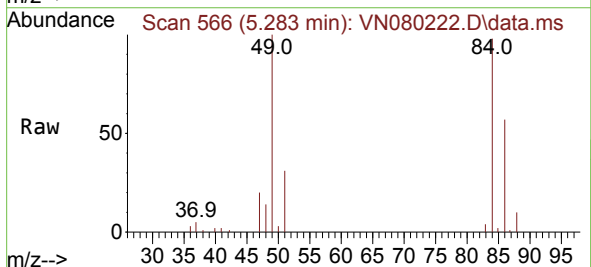
Instrument :
MSVOA_N
ClientSampleId :

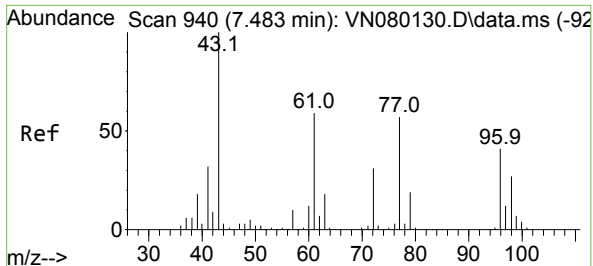
Tgt Ion: 43 Resp: 2942
Ion Ratio Lower Upper
43 100
74 10.8 26.2 39.4#



#20
Methylene Chloride
Concen: 28.813 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.006 min
Lab File: VN080222.D
Acq: 20 Nov 2023 20:56

Tgt Ion: 84 Resp: 45656
Ion Ratio Lower Upper
84 100
49 102.4 79.7 119.5
51 31.5 25.2 37.8
86 58.5 53.3 79.9





#25

2-Butanone

Concen: 1.463 ug/l

RT: 7.500 min Scan# 94

Delta R.T. 0.018 min

Lab File: VN080222.D

Acq: 20 Nov 2023 20:56

Instrument :

MSVOA_N

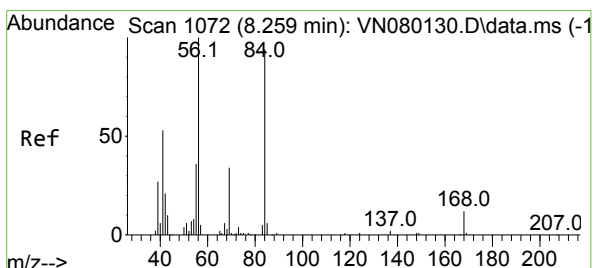
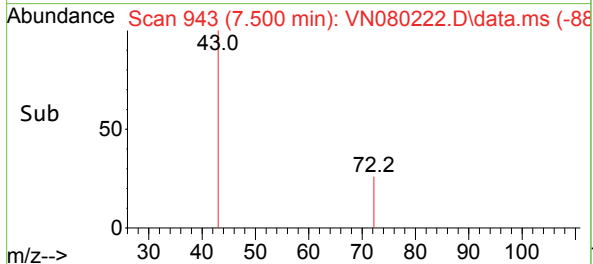
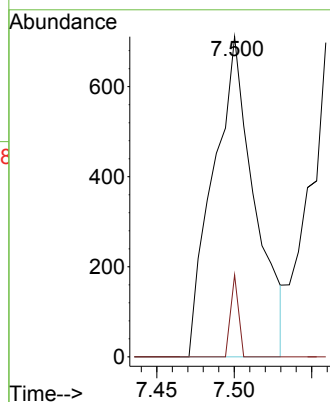
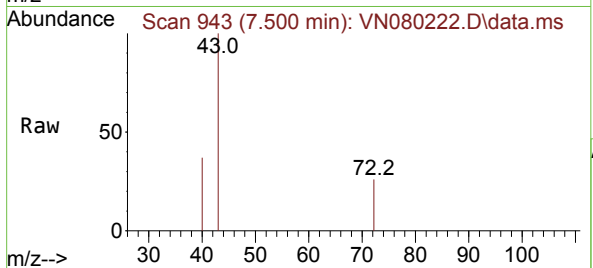
ClientSampleId :

Tgt Ion: 43 Resp: 1315

Ion Ratio Lower Upper

43 100

72 25.6 30.2 45.2#



#31

Cyclohexane

Concen: 1.247 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.030 min

Lab File: VN080222.D

Acq: 20 Nov 2023 20:56

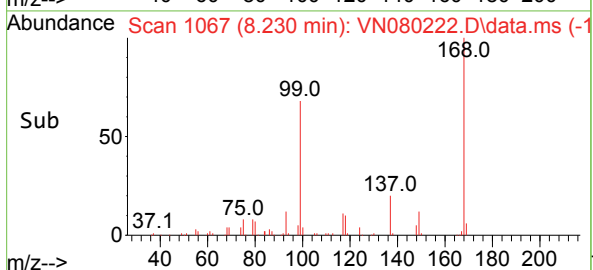
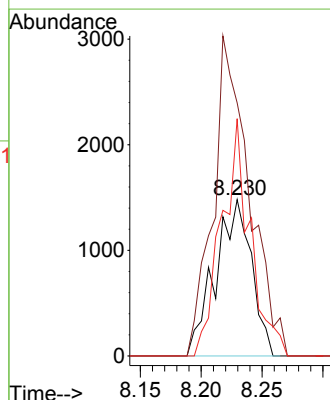
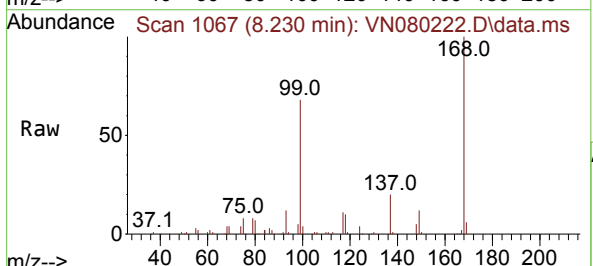
Tgt Ion: 56 Resp: 3054

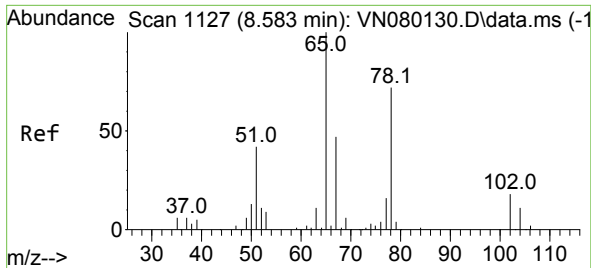
Ion Ratio Lower Upper

56 100

69 162.0 26.8 40.2#

84 151.8 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 58.738 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN080222.D

Acq: 20 Nov 2023 20:56

Instrument :

MSVOA_N

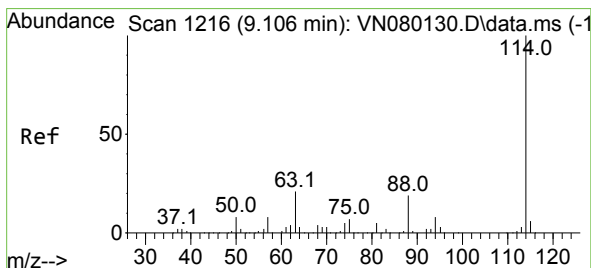
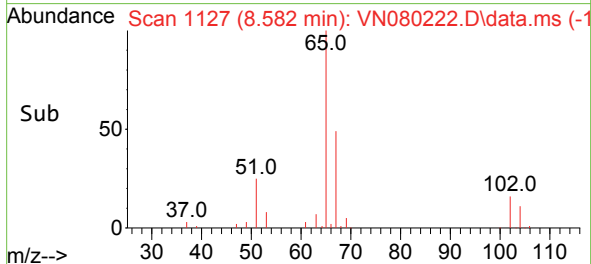
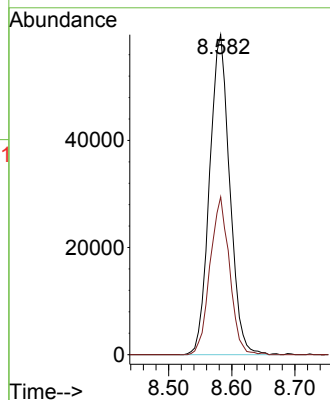
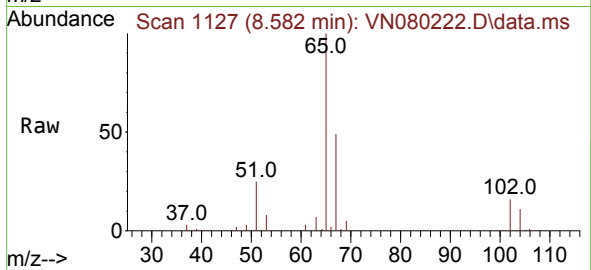
ClientSampleId :

Tgt Ion: 65 Resp: 132325

Ion Ratio Lower Upper

65 100

67 47.8 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: VN080222.D

Acq: 20 Nov 2023 20:56

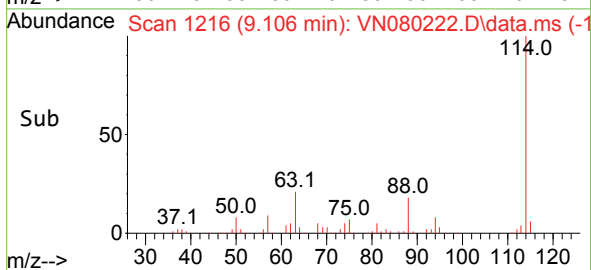
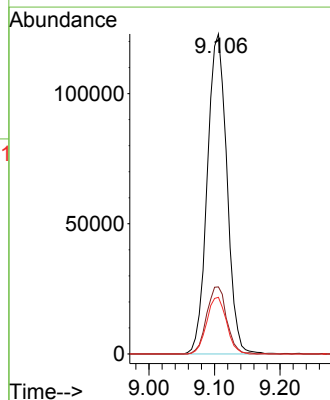
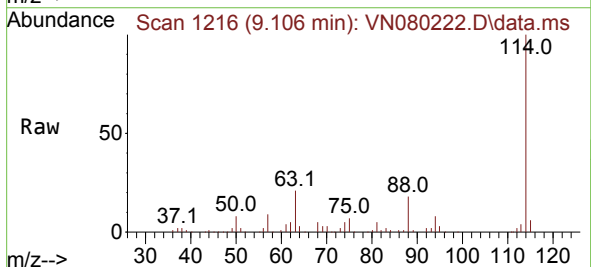
Tgt Ion: 114 Resp: 254651

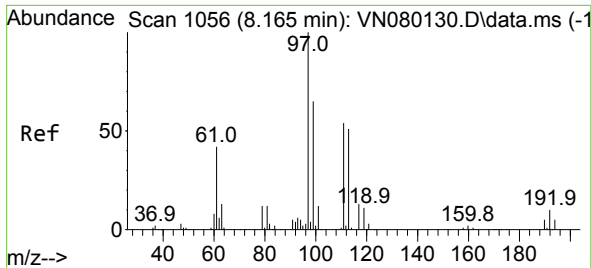
Ion Ratio Lower Upper

114 100

63 20.9 0.0 36.4

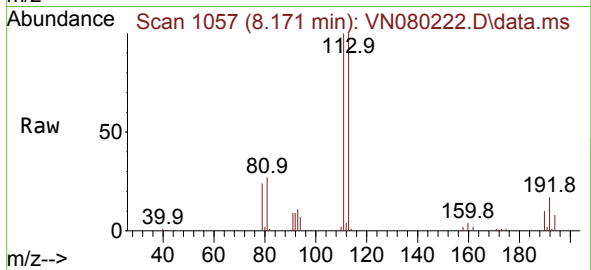
88 17.7 0.0 30.6



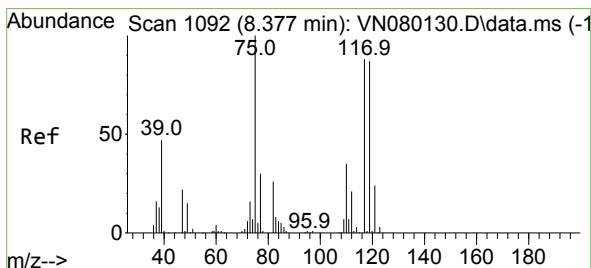
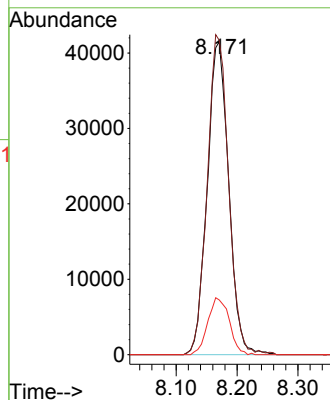
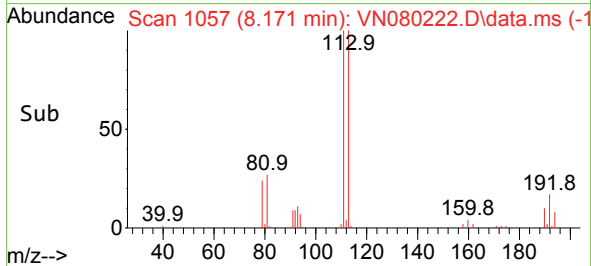


#35
Dibromofluoromethane
Concen: 54.094 ug/l
RT: 8.171 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN080222.D
Acq: 20 Nov 2023 20:56

Instrument :
MSVOA_N
ClientSampleId :

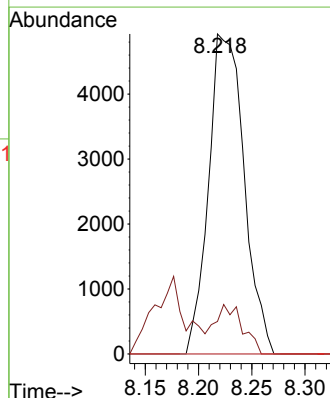
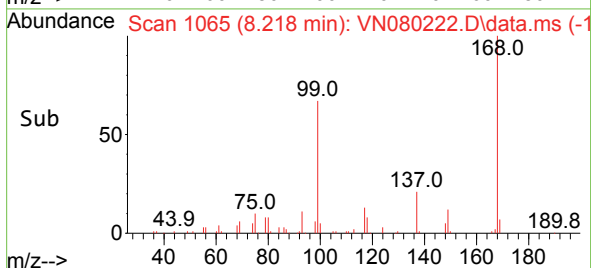
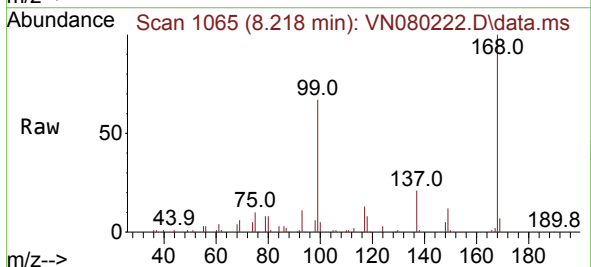


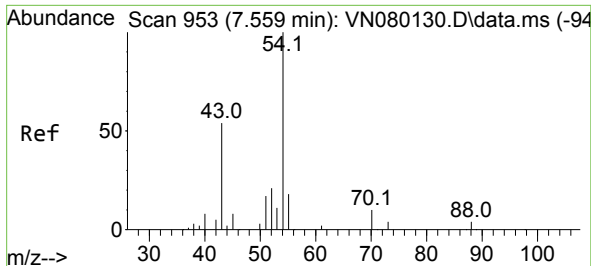
Tgt Ion:113 Resp: 101642
Ion Ratio Lower Upper
113 100
111 101.9 82.6 123.8
192 18.2 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.196 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.159 min
Lab File: VN080222.D
Acq: 20 Nov 2023 20:56

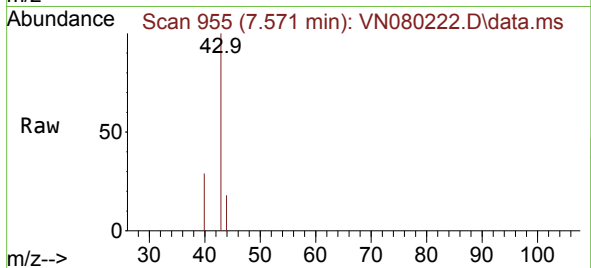
Tgt Ion: 75 Resp: 11414
Ion Ratio Lower Upper
75 100
110 12.1 19.1 57.3#
77 0.0 25.0 37.4#



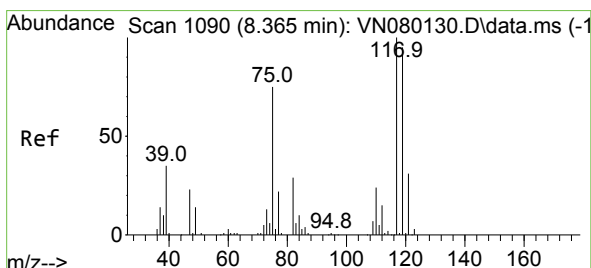
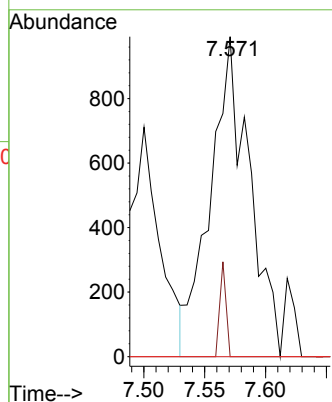
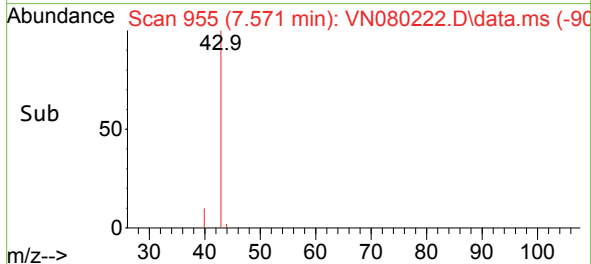


#37
Ethyl Acetate
Concen: 1.165 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN080222.D
Acq: 20 Nov 2023 20:56

Instrument :
MSVOA_N
ClientSampleId :

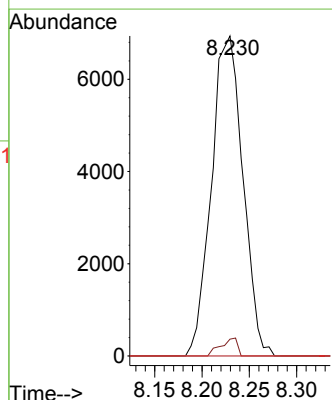
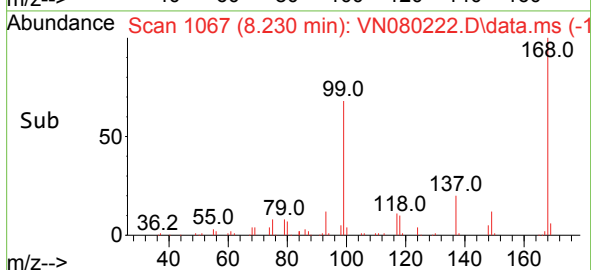
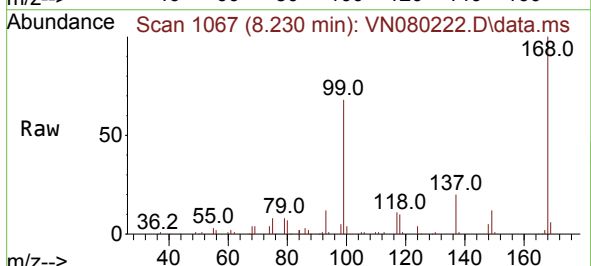


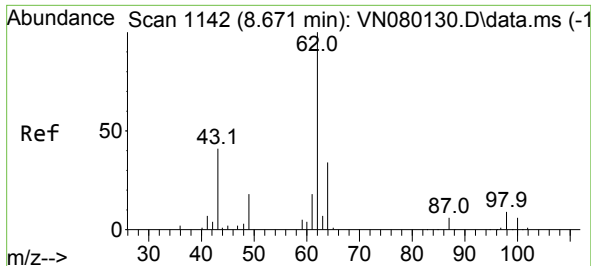
Tgt Ion: 43 Resp: 2199
Ion Ratio Lower Upper
43 100
61 4.7 13.2 19.8#
70 0.0 11.3 16.9#



#38
Carbon Tetrachloride
Concen: 4.652 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.135 min
Lab File: VN080222.D
Acq: 20 Nov 2023 20:56

Tgt Ion: 117 Resp: 16058
Ion Ratio Lower Upper
117 100
119 5.3 77.3 115.9#
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.267 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.018 min

Lab File: VN080222.D

Acq: 20 Nov 2023 20:56

Instrument :

MSVOA_N

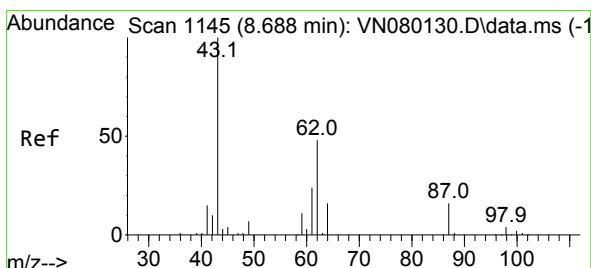
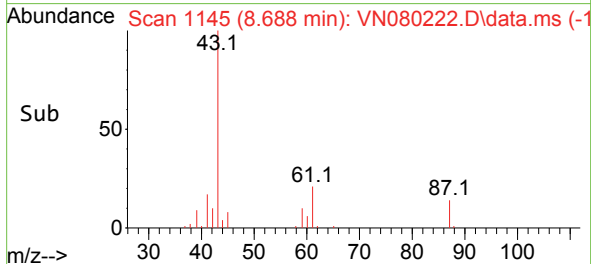
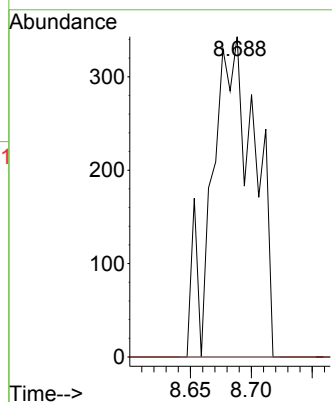
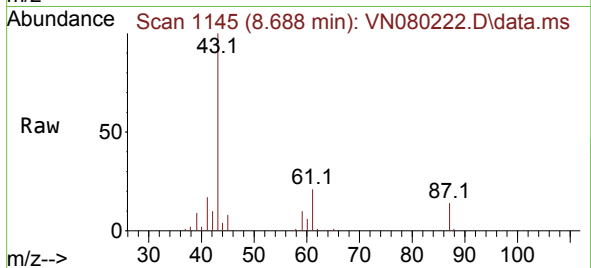
ClientSampleId :

Tgt Ion: 62 Resp: 846

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 25.874 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VN080222.D

Acq: 20 Nov 2023 20:56

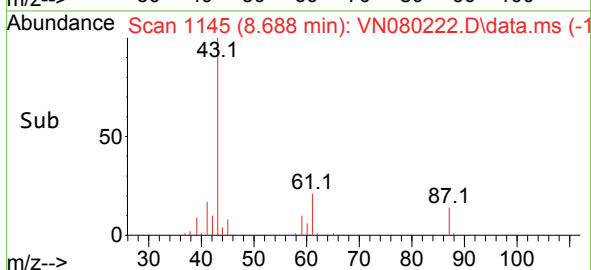
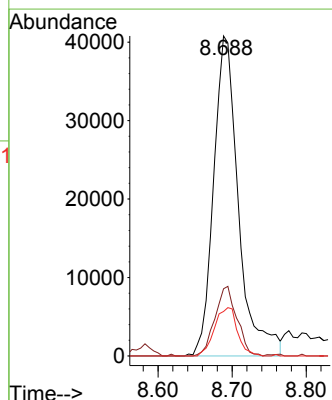
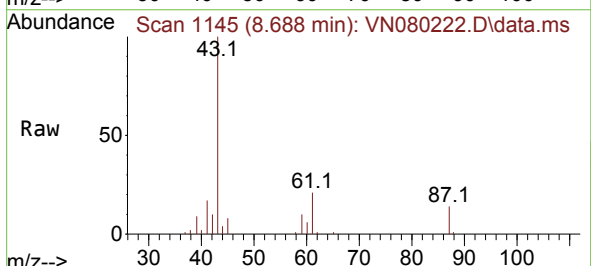
Tgt Ion: 43 Resp: 95011

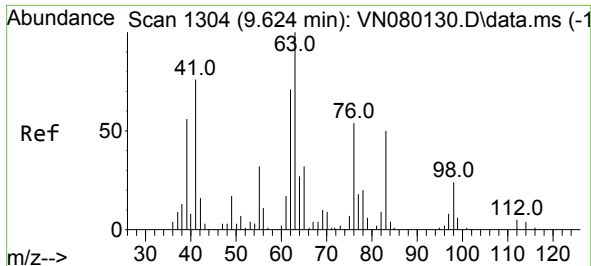
Ion Ratio Lower Upper

43 100

61 19.2 24.7 37.1#

87 14.0 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.688 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.117 min

Lab File: VN080222.D

Acq: 20 Nov 2023 20:56

Instrument :

MSVOA_N

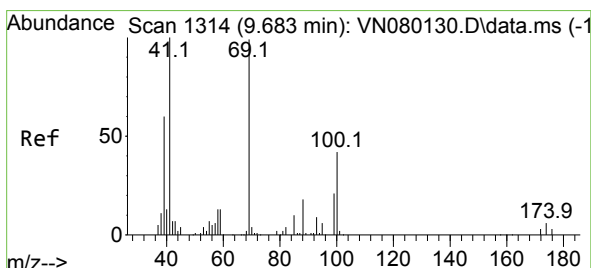
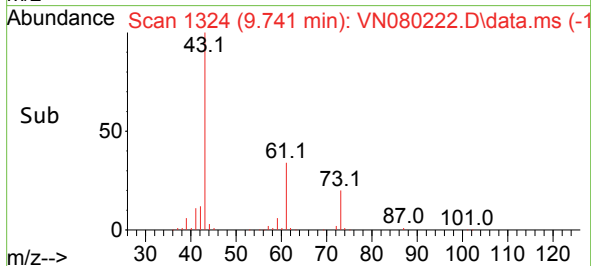
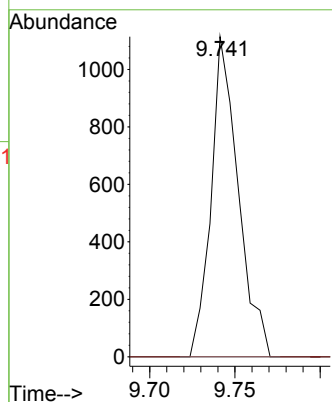
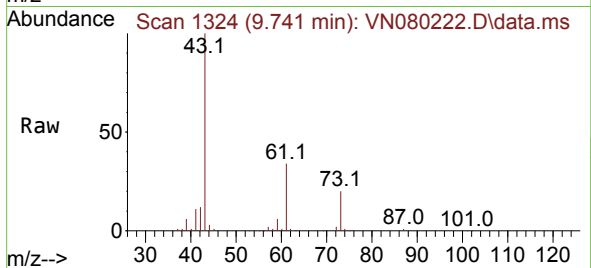
ClientSampleId :

Tgt Ion: 63 Resp: 1237

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 44.417 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.065 min

Lab File: VN080222.D

Acq: 20 Nov 2023 20:56

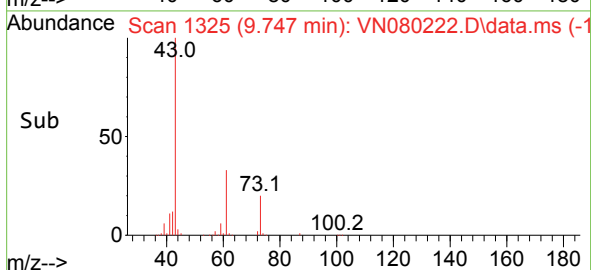
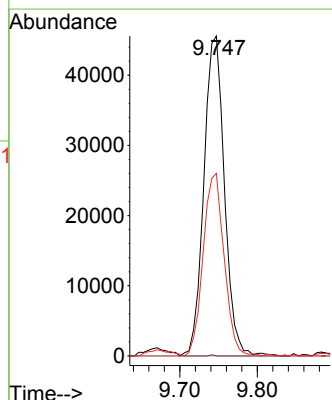
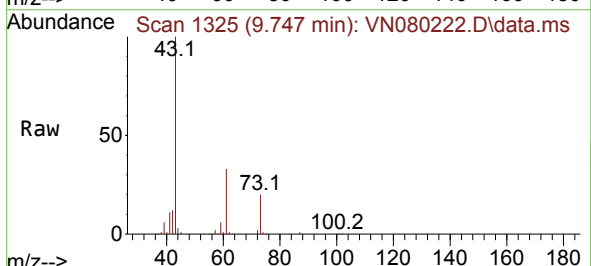
Tgt Ion: 41 Resp: 84051

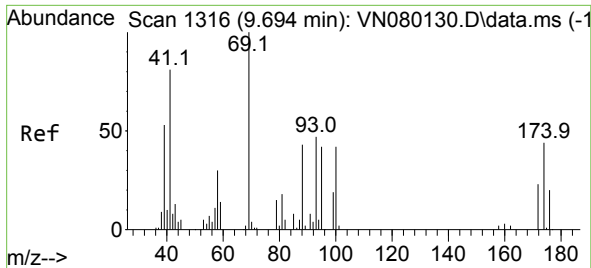
Ion Ratio Lower Upper

41 100

69 0.1 90.4 135.6#

39 58.1 54.6 81.8





#49

1,4-Dioxane

Concen: 1.747 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN080222.D

Acq: 20 Nov 2023 20:56

Instrument :

MSVOA_N

ClientSampleId :

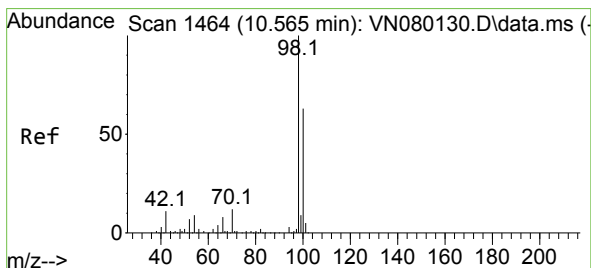
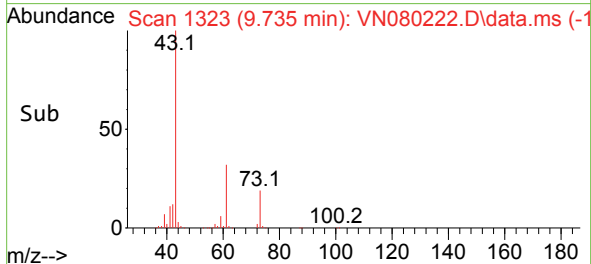
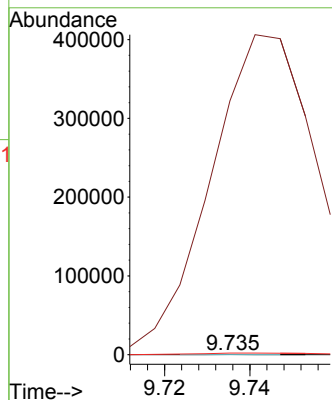
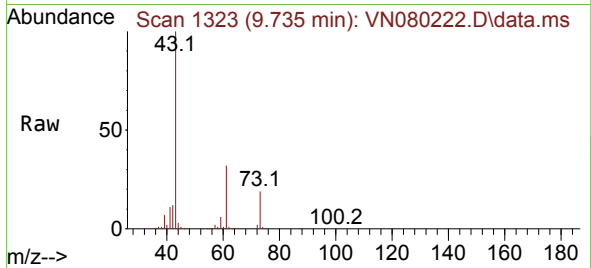
Tgt Ion: 88 Resp: 55

Ion Ratio Lower Upper

88 100

43 1346298.2 17.0 25.6#

58 7760.0 47.0 70.4#



#50

Toluene-d8

Concen: 53.416 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN080222.D

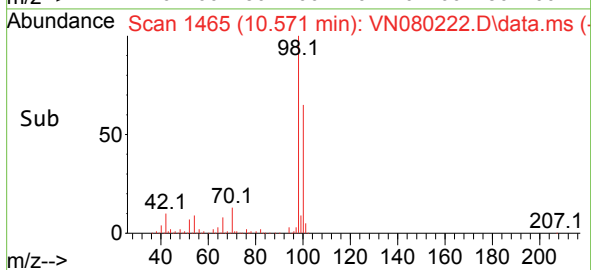
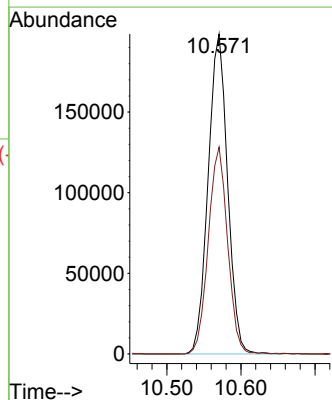
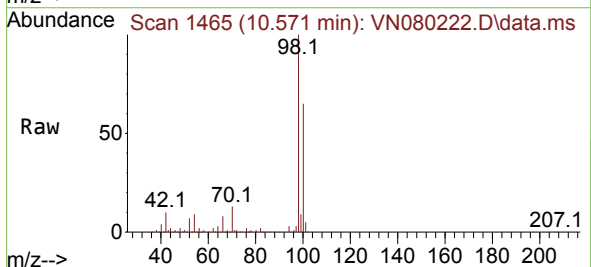
Acq: 20 Nov 2023 20:56

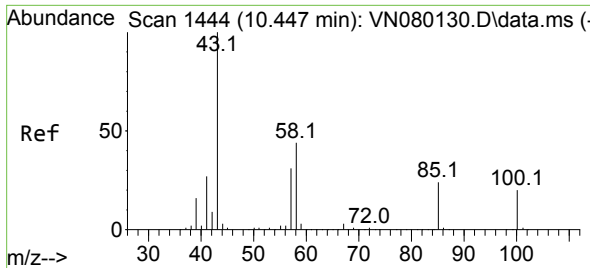
Tgt Ion: 98 Resp: 361809

Ion Ratio Lower Upper

98 100

100 64.1 52.0 78.0

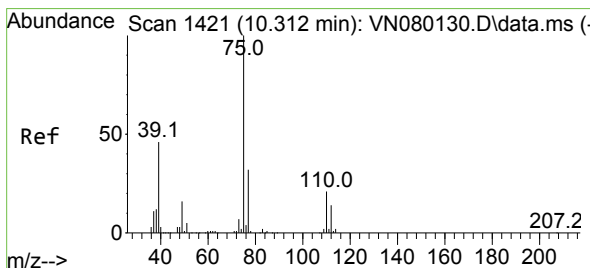
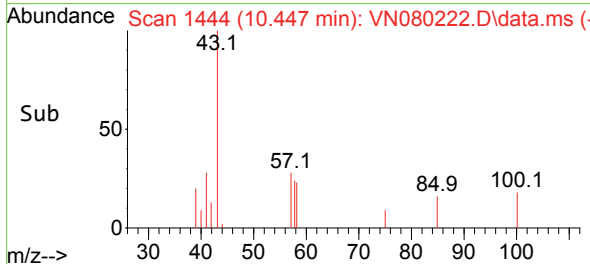
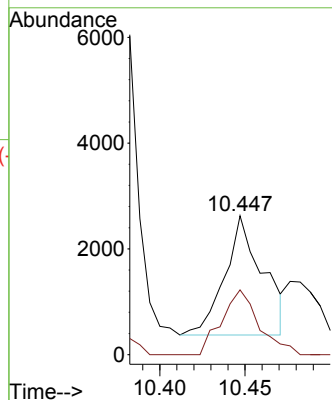
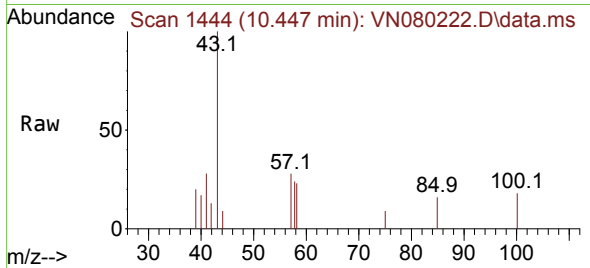




#51
4-Methyl-2-Pentanone
Concen: 1.832 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN080222.D
Acq: 20 Nov 2023 20:56

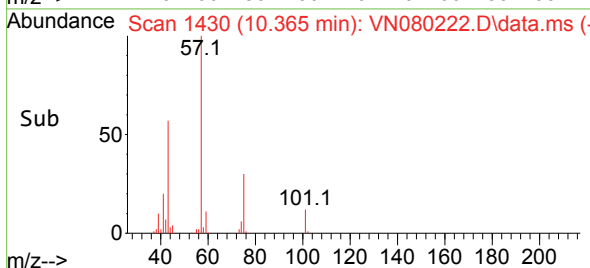
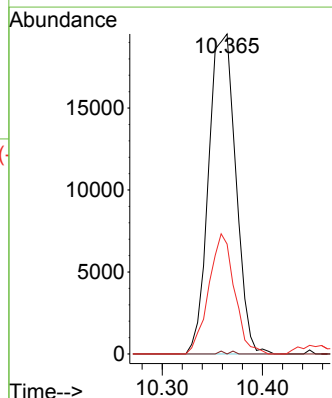
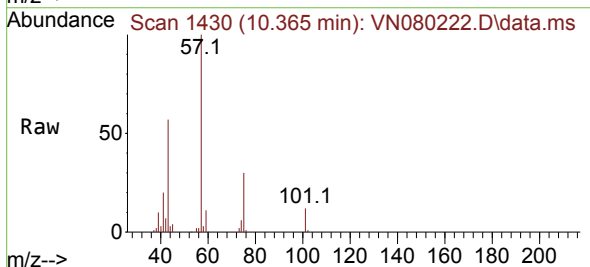
Instrument :
MSVOA_N
ClientSampleId :

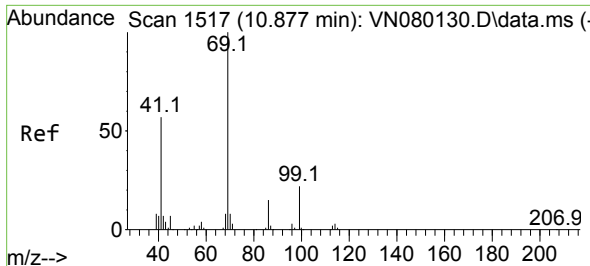
Tgt Ion: 43 Resp: 3483
Ion Ratio Lower Upper
43 100
58 53.7 36.6 54.8



#54
cis-1,3-Dichloropropene
Concen: 11.722 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.053 min
Lab File: VN080222.D
Acq: 20 Nov 2023 20:56

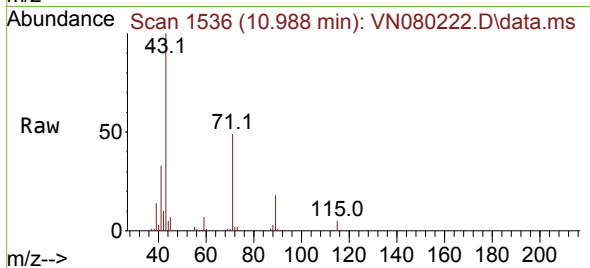
Tgt Ion: 75 Resp: 36813
Ion Ratio Lower Upper
75 100
77 0.0 26.1 39.1#
39 34.4 31.6 47.4



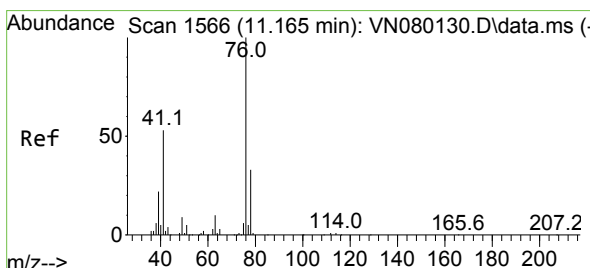
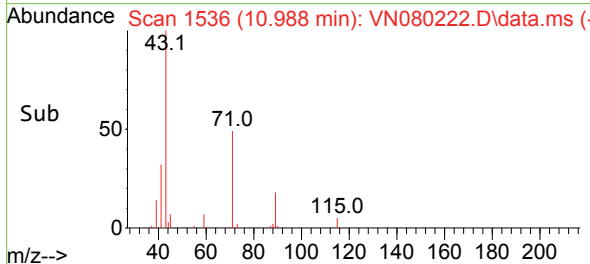
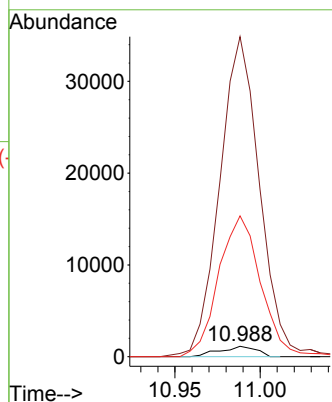


#56
Ethyl methacrylate
Concen: 0.897 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.112 min
Lab File: VN080222.D
Acq: 20 Nov 2023 20:56

Instrument :
MSVOA_N
ClientSampleId :

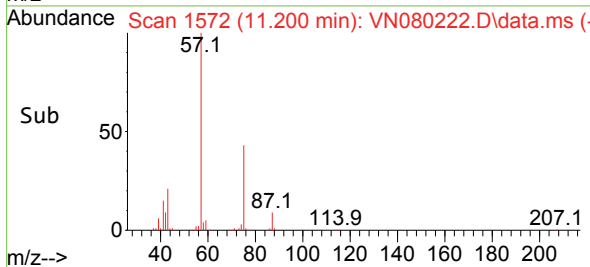
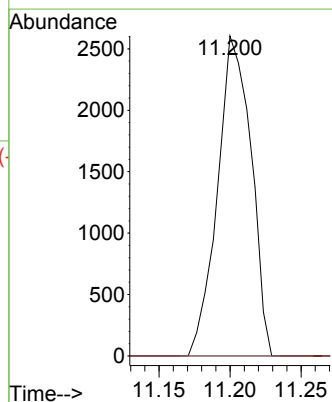
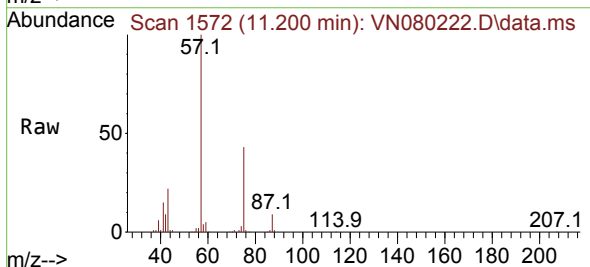


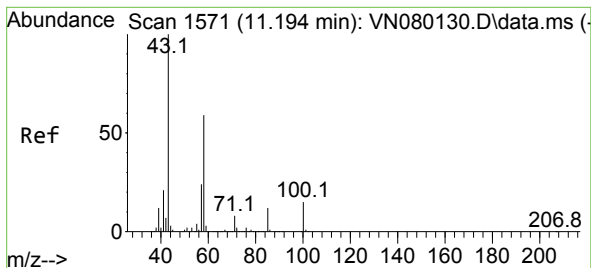
Tgt Ion: 69 Resp: 1692
Ion Ratio Lower Upper
69 100
41 3375.1 39.6 59.4#
39 1565.8 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.329 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.035 min
Lab File: VN080222.D
Acq: 20 Nov 2023 20:56

Tgt Ion: 76 Resp: 4284
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

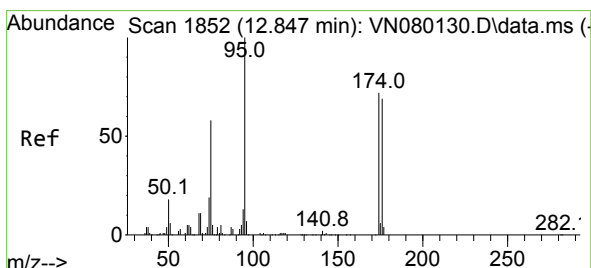
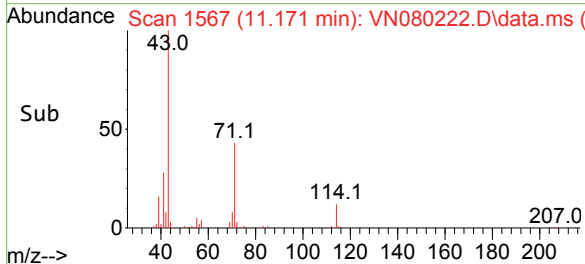
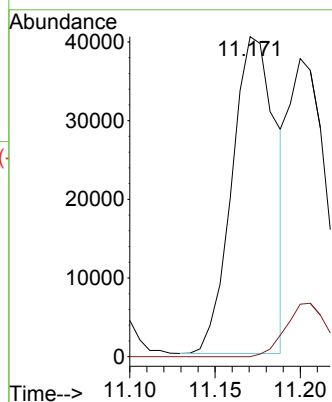
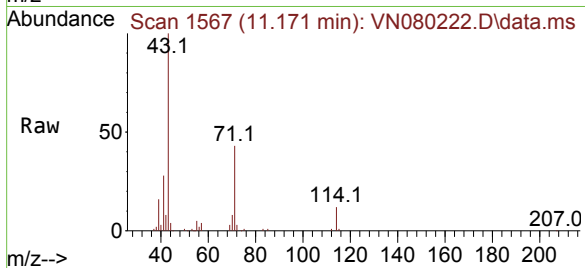




#59
2-Hexanone
Concen: 47.310 ug/l
RT: 11.171 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN080222.D
Acq: 20 Nov 2023 20:56

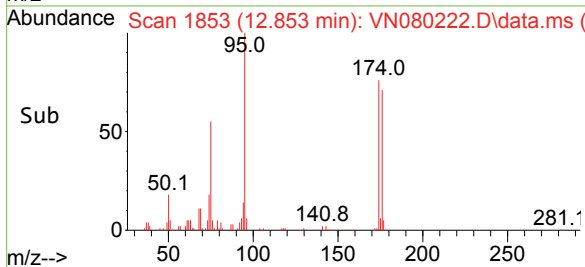
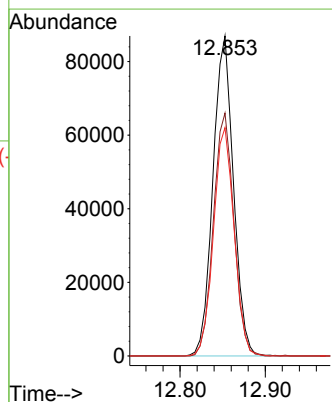
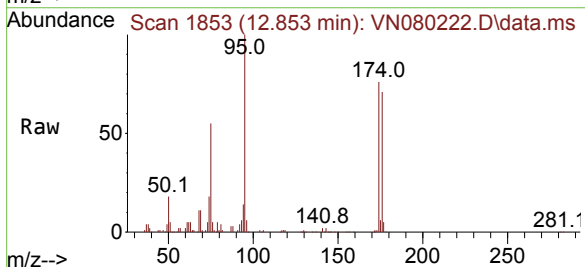
Instrument :
MSVOA_N
ClientSampleId :

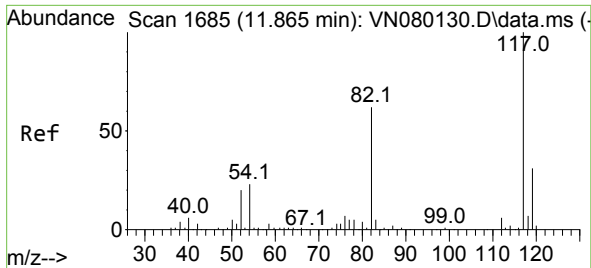
Tgt Ion: 43 Resp: 72272
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 56.722 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN080222.D
Acq: 20 Nov 2023 20:56

Tgt Ion: 95 Resp: 145118
Ion Ratio Lower Upper
95 100
174 75.6 0.0 143.8
176 72.0 0.0 135.8

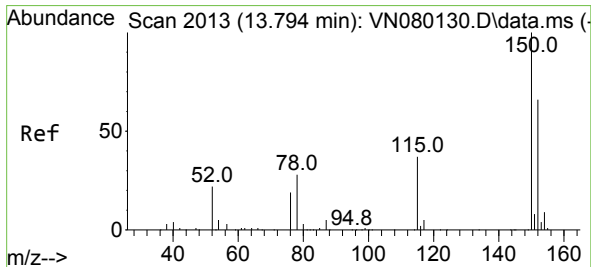
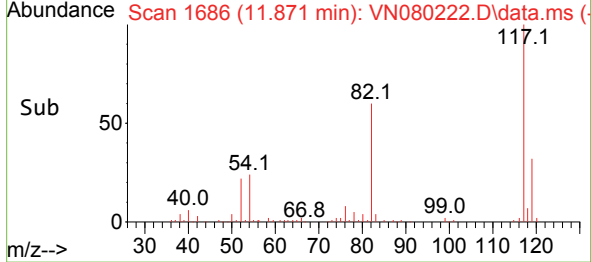
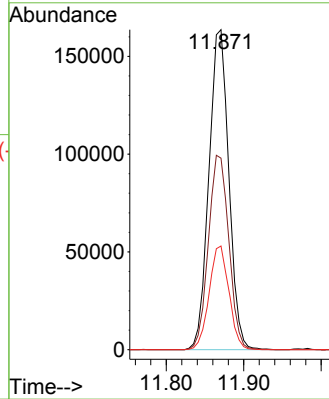
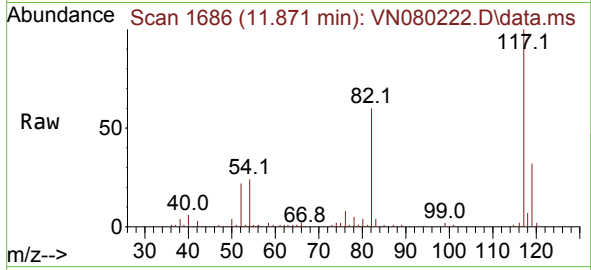




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN080222.D
Acq: 20 Nov 2023 20:56

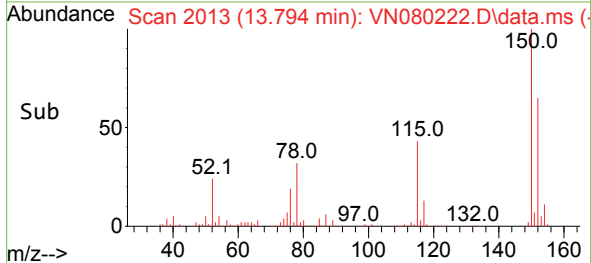
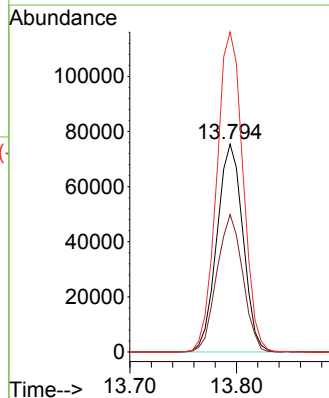
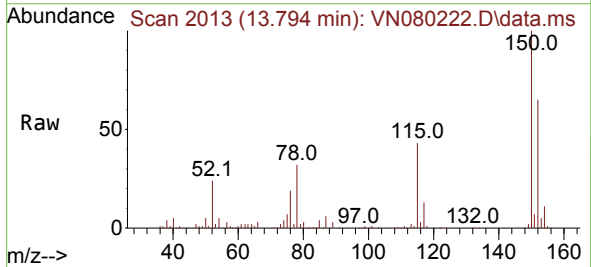
Instrument :
MSVOA_N
ClientSampleId :

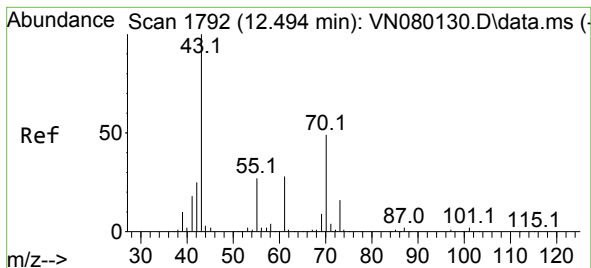
Tgt Ion:117 Resp: 292127
Ion Ratio Lower Upper
117 100
82 59.9 44.0 66.0
119 32.4 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN080222.D
Acq: 20 Nov 2023 20:56

Tgt Ion:152 Resp: 127843
Ion Ratio Lower Upper
152 100
115 66.1 32.3 96.8
150 156.0 0.0 355.8





#74

N-amy1 acetate

Concen: 0.216 ug/l

RT: 12.488 min Scan# 1

Delta R.T. -0.006 min

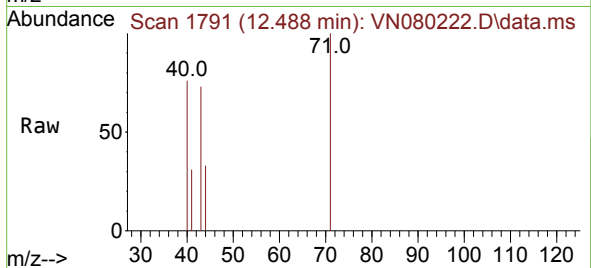
Lab File: VN080222.D

Acq: 20 Nov 2023 20:56

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43 Resp: 670

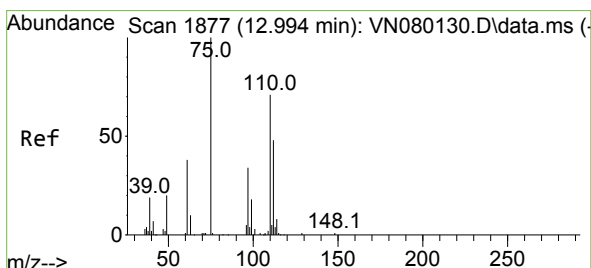
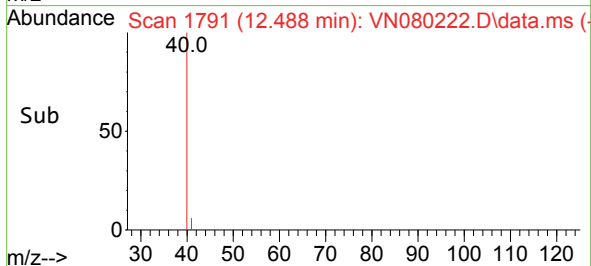
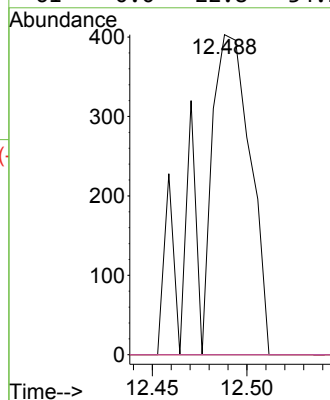
Ion Ratio Lower Upper

43 100

70 0.0 43.4 65.2#

55 0.0 21.4 32.0#

61 0.0 22.8 34.2#



#76

1,2,3-Trichloropropane

Concen: 26.654 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN080222.D

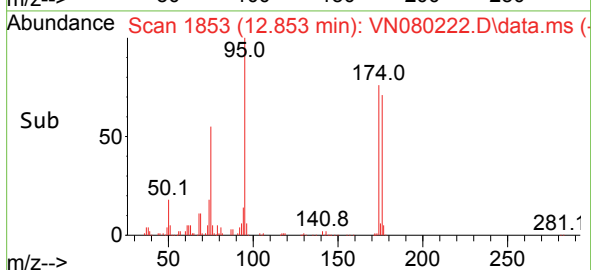
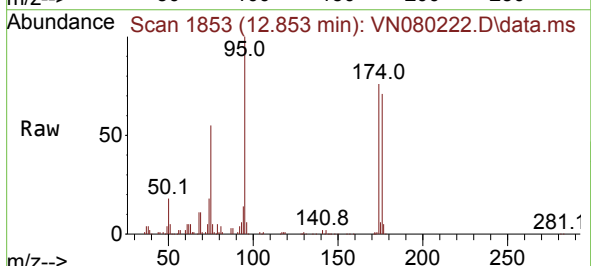
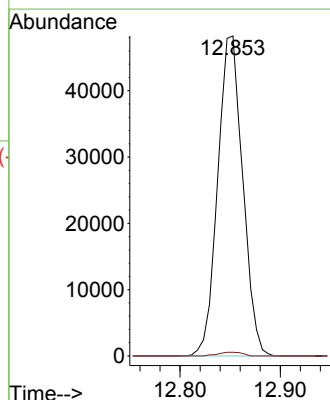
Acq: 20 Nov 2023 20:56

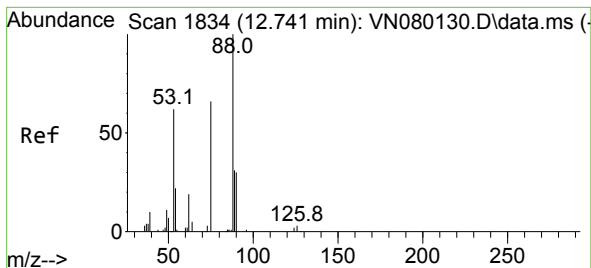
Tgt Ion: 75 Resp: 83491

Ion Ratio Lower Upper

75 100

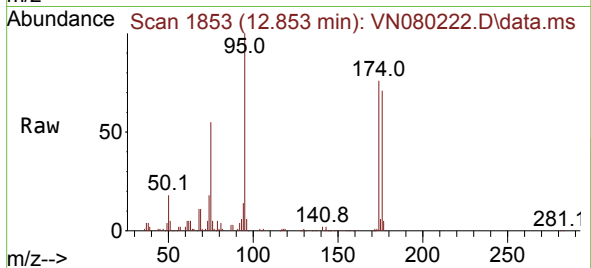
77 1.1 84.5 253.5#



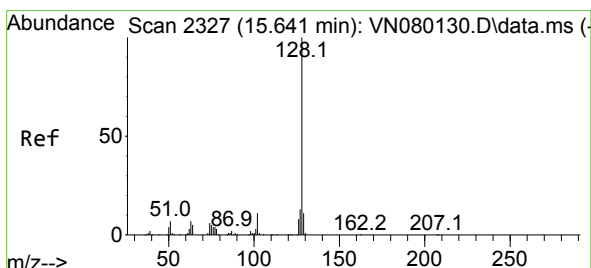
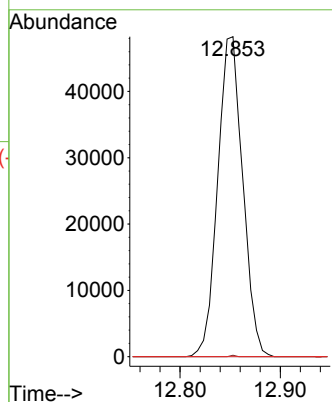
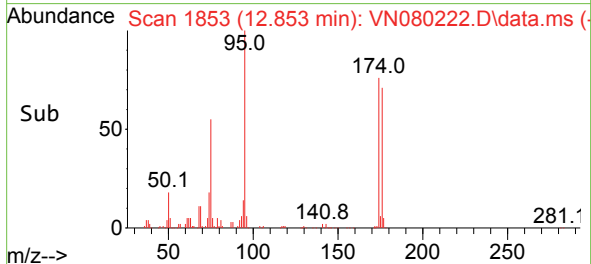


#81
trans-1,4-Dichloro-2-butene
Concen: 90.054 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN080222.D
Acq: 20 Nov 2023 20:56

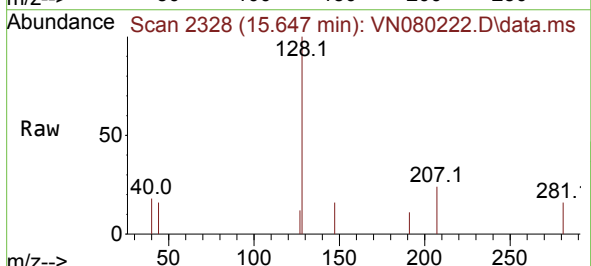
Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 75 Resp: 83491
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#



#95
Naphthalene
Concen: 0.390 ug/l
RT: 15.647 min Scan# 2328
Delta R.T. 0.006 min
Lab File: VN080222.D
Acq: 20 Nov 2023 20:56



Tgt Ion: 128 Resp: 2839
Ion Ratio Lower Upper
128 100
127 8.0 10.0 15.0#
129 2.3 8.7 13.1#

