

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100623\
 Data File : VN079451.D
 Acq On : 06 Oct 2023 16:43
 Operator : JC\MD
 Sample : PB156147ZHE#06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 06 23:05:45 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N100523W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 06 03:34:49 2023
 Response via : Initial Calibration

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

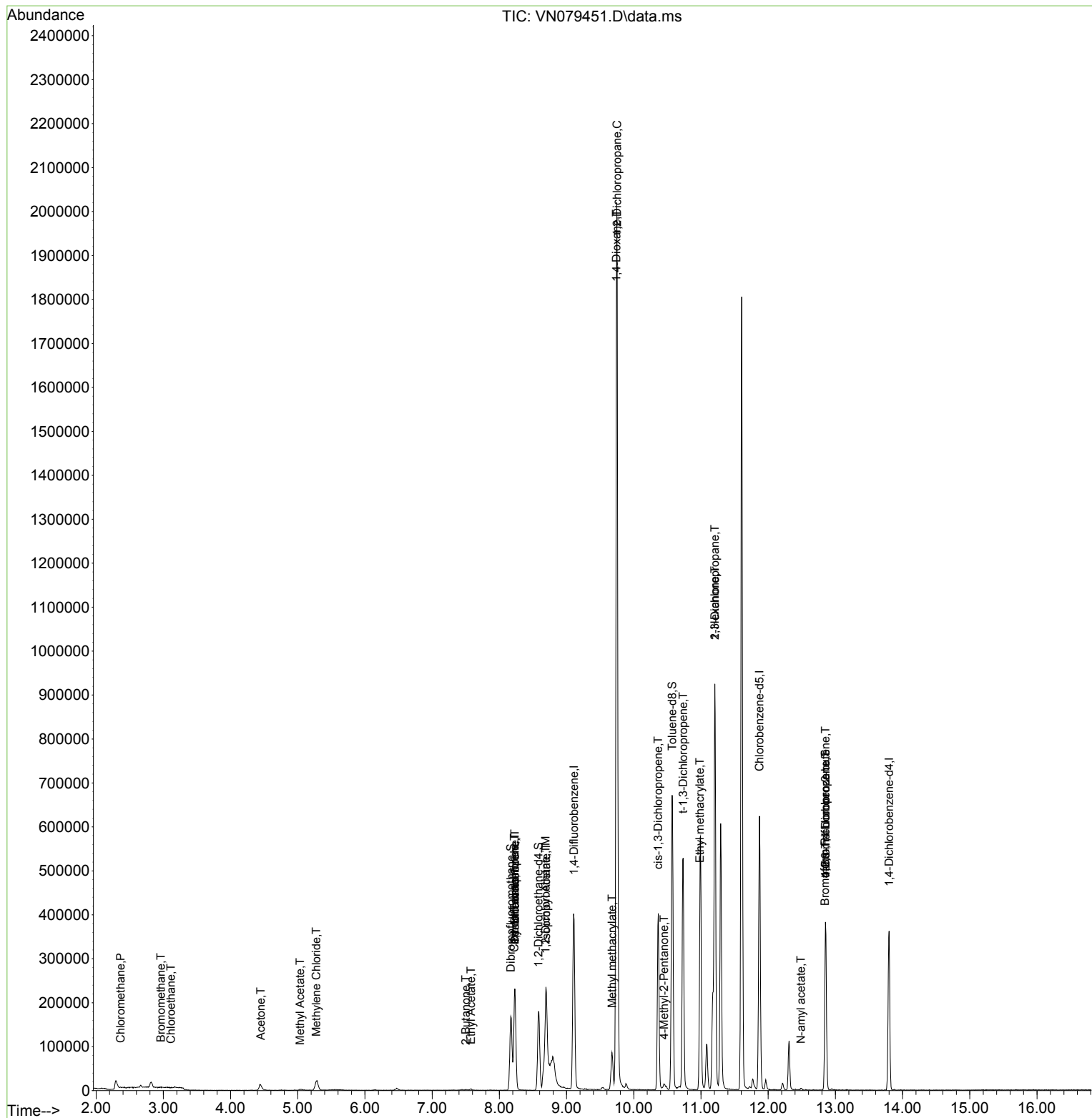
Internal Standards						
1) Pentafluorobenzene	8.230	168	157814	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	341195	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	346338	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	94501	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	144977	56.658	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	113.320%
35) Dibromofluoromethane	8.171	113	118900	48.492	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.980%
50) Toluene-d8	10.571	98	453844	51.155	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.320%
62) 4-Bromofluorobenzene	12.853	95	128857	45.258	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	90.520%
Target Compounds						
						Qvalue
3) Chloromethane	2.365	50	968	0.343	ug/l	91
5) Bromomethane	2.965	94	468	0.266	ug/l #	74
6) Chloroethane	3.112	64	792	0.358	ug/l #	43
16) Acetone	4.448	43	25410	25.037	ug/l #	82
18) Methyl Acetate	5.036	43	5652	1.138	ug/l #	54
20) Methylene Chloride	5.277	84	15939	6.650	ug/l #	85
25) 2-Butanone	7.500	43	3040	2.018	ug/l #	85
31) Cyclohexane	8.230	56	4267	1.176	ug/l #	22
36) 1,1-Dichloropropene	8.230	75	14986	4.072	ug/l #	49
37) Ethyl Acetate	7.577	43	4405	1.203	ug/l #	69
38) Carbon Tetrachloride	8.224	117	16788	4.557	ug/l #	17
42) 1,2-Dichloroethane	8.688	62	1152	0.290	ug/l #	73
43) Isopropyl Acetate	8.694	43	309549	48.252	ug/l #	70
45) 1,2-Dichloropropane	9.753	63	2589	0.899	ug/l #	45
48) Methyl methacrylate	9.677	41	5717	2.080	ug/l #	31
49) 1,4-Dioxane	9.741	88	215	4.246	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	14030	3.874	ug/l #	68
53) t-1,3-Dichloropropene	10.735	75	1522	0.394	ug/l #	1
54) cis-1,3-Dichloropropene	10.365	75	65199	15.406	ug/l #	72
56) Ethyl methacrylate	10.982	69	3486	0.982	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	9648	2.163	ug/l #	42
59) 2-Hexanone	11.206	43	120311	46.039	ug/l #	46
71) Bromoform	12.847	173	730	0.353	ug/l #	1
74) N-amyl acetate	12.488	43	1185	0.329	ug/l #	36
75) 1,1,2,2-Tetrachloroethane	12.871	83	81	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	70879	26.013	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	70879	75.479	ug/l #	15

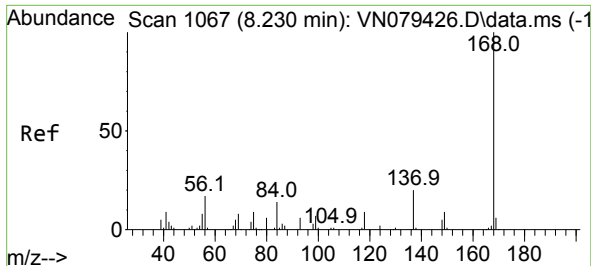
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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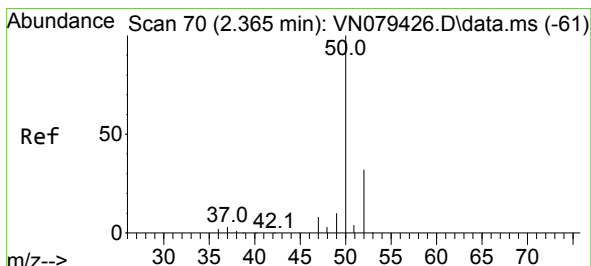
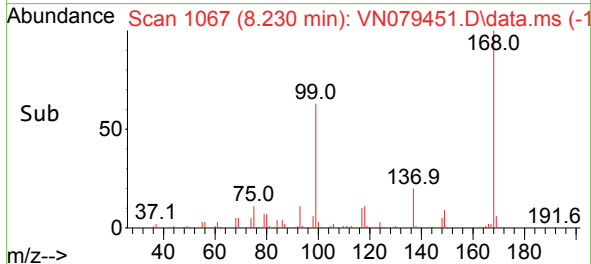
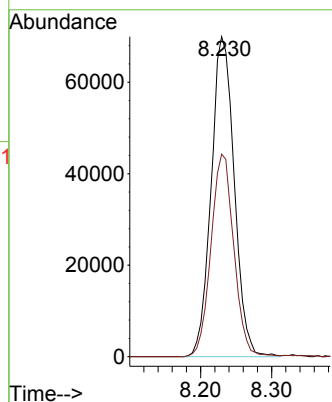
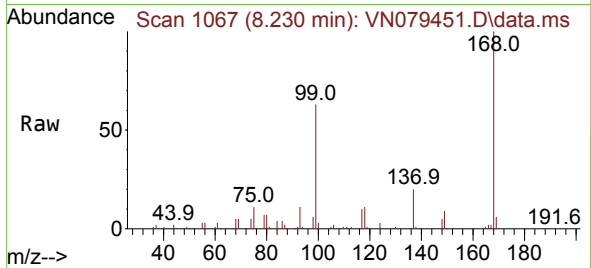




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.000 min
Lab File: VN079451.D
Acq: 06 Oct 2023 16:43

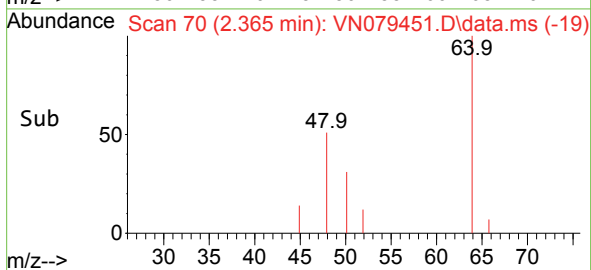
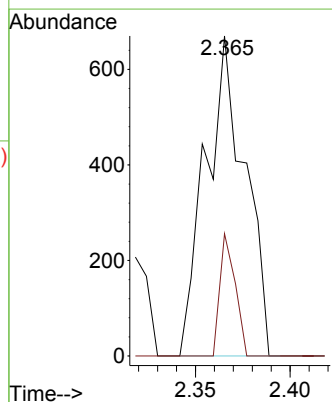
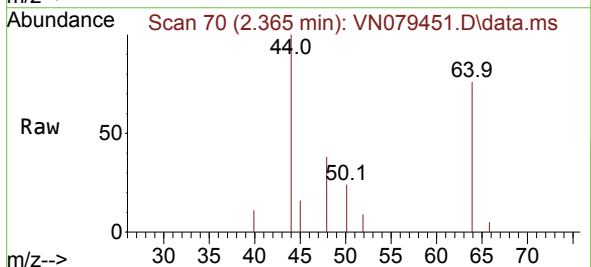
Instrument :
MSVOA_N
ClientSampleId :

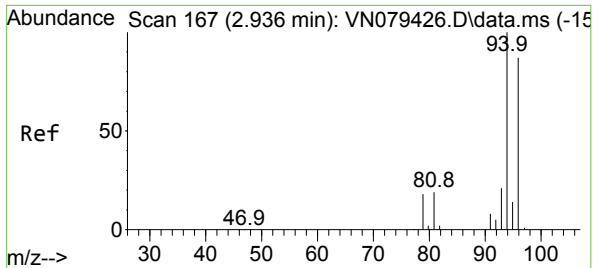
Tgt Ion:168 Resp: 157814
Ion Ratio Lower Upper
168 100
99 63.3 53.0 79.6



#3
Chloromethane
Concen: 0.343 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.000 min
Lab File: VN079451.D
Acq: 06 Oct 2023 16:43

Tgt Ion: 50 Resp: 968
Ion Ratio Lower Upper
50 100
52 38.2 26.5 39.7





#5

Bromomethane

Concen: 0.266 ug/l

RT: 2.965 min Scan# 11

Delta R.T. 0.029 min

Lab File: VN079451.D

Acq: 06 Oct 2023 16:43

Instrument :

MSVOA_N

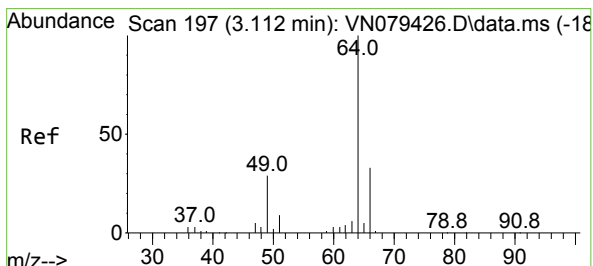
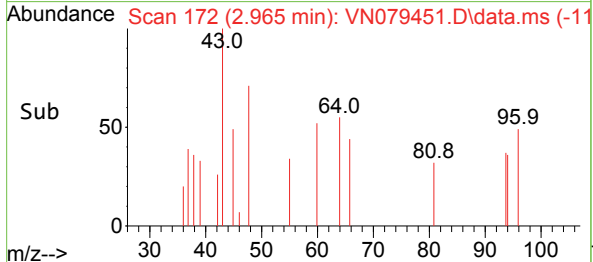
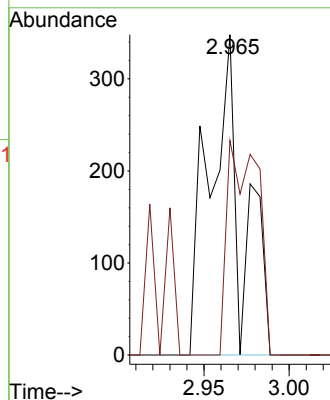
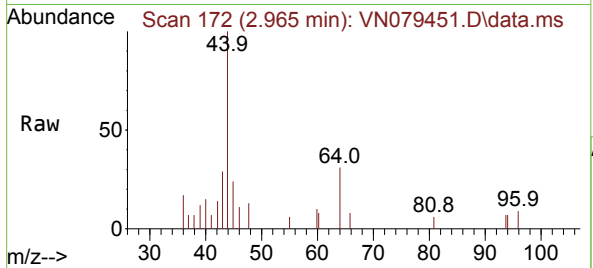
ClientSampleId :

Tgt Ion: 94 Resp: 468

Ion Ratio Lower Upper

94 100

96 67.0 73.1 109.7#



#6

Chloroethane

Concen: 0.358 ug/l

RT: 3.112 min Scan# 197

Delta R.T. 0.000 min

Lab File: VN079451.D

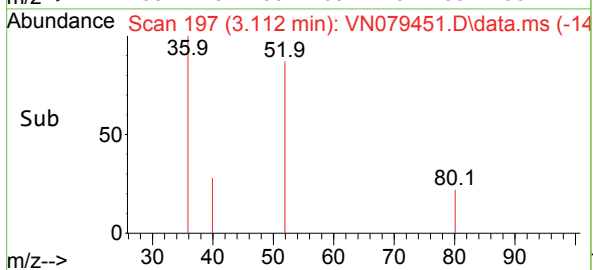
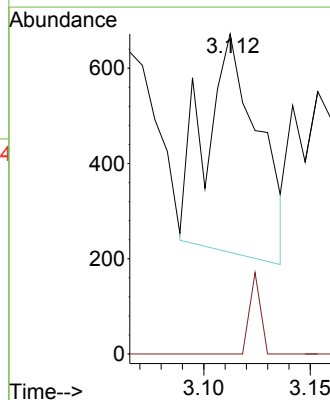
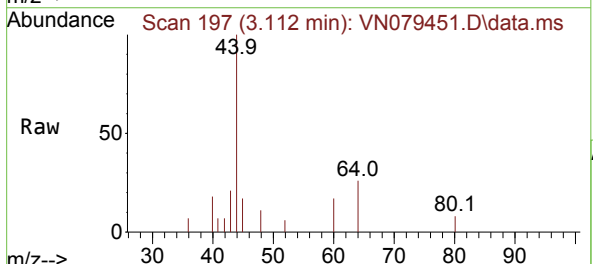
Acq: 06 Oct 2023 16:43

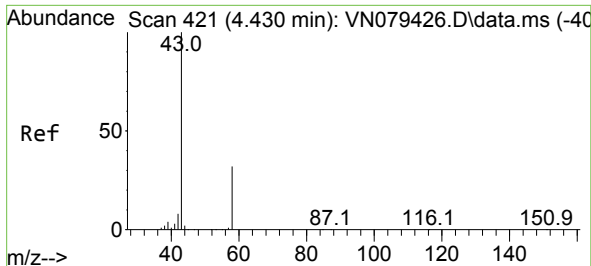
Tgt Ion: 64 Resp: 792

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.2#

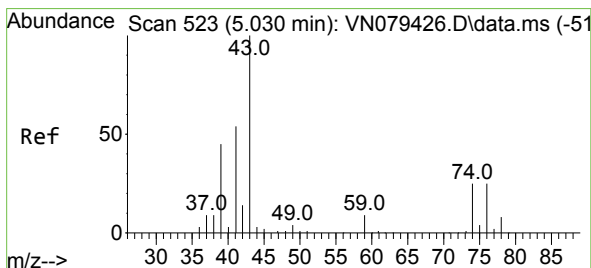
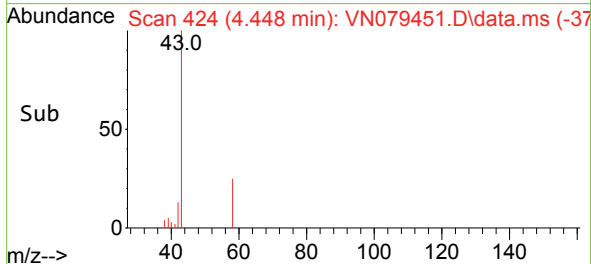
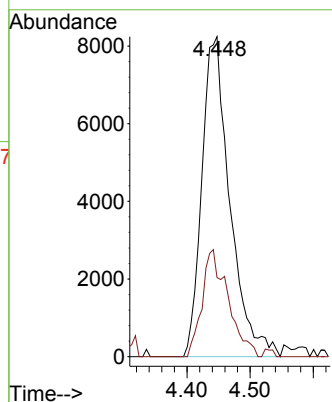
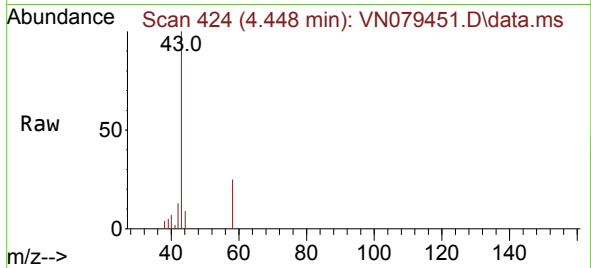




#16
Acetone
Concen: 25.037 ug/l
RT: 4.448 min Scan# 41
Delta R.T. 0.018 min
Lab File: VN079451.D
Acq: 06 Oct 2023 16:43

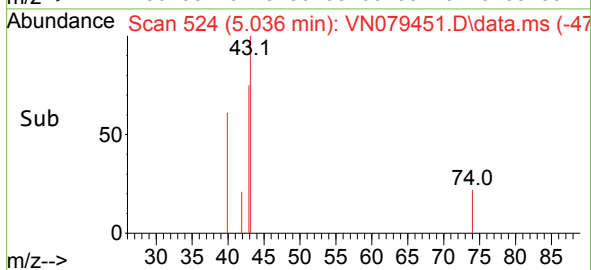
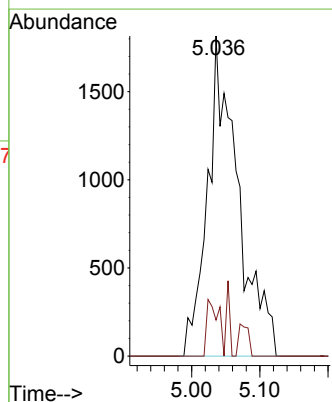
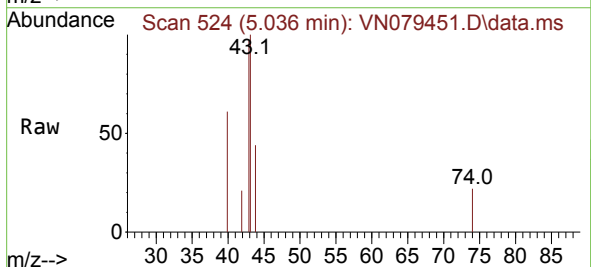
Instrument :
MSVOA_N
ClientSampleId :

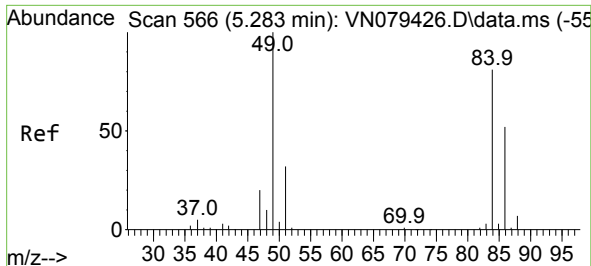
Tgt Ion: 43 Resp: 25410
Ion Ratio Lower Upper
43 100
58 24.8 28.0 42.0#



#18
Methyl Acetate
Concen: 1.138 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.006 min
Lab File: VN079451.D
Acq: 06 Oct 2023 16:43

Tgt Ion: 43 Resp: 5652
Ion Ratio Lower Upper
43 100
74 6.8 26.2 39.4#





#20

Methylene Chloride

Concen: 6.650 ug/l

RT: 5.277 min Scan# 5

Delta R.T. -0.006 min

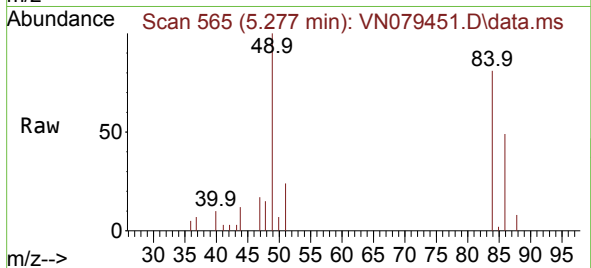
Lab File: VN079451.D

Acq: 06 Oct 2023 16:43

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 84 Resp: 15939

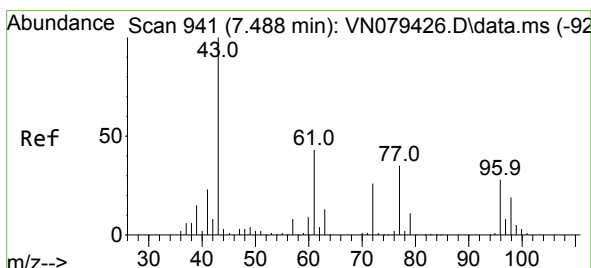
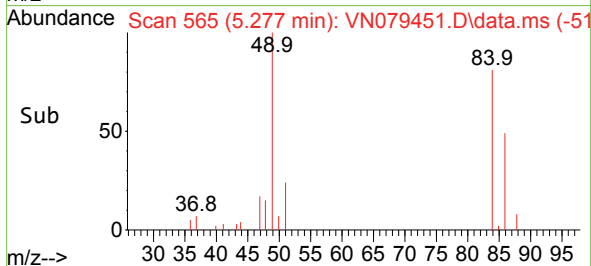
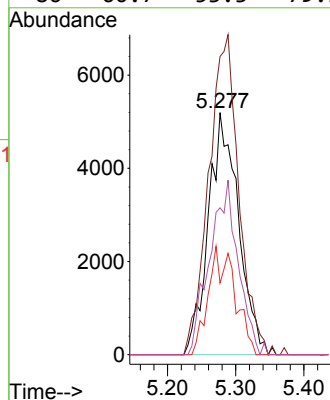
Ion Ratio Lower Upper

84 100

49 123.2 79.7 119.5#

51 29.6 25.2 37.8

86 60.7 53.3 79.9



#25

2-Butanone

Concen: 2.018 ug/l

RT: 7.500 min Scan# 943

Delta R.T. 0.012 min

Lab File: VN079451.D

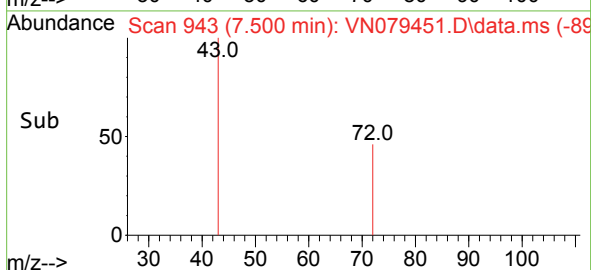
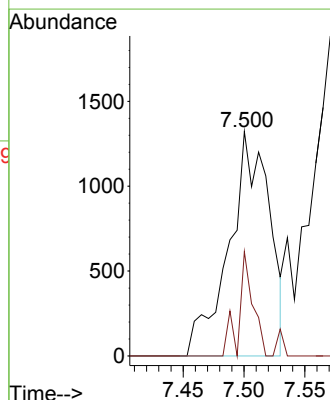
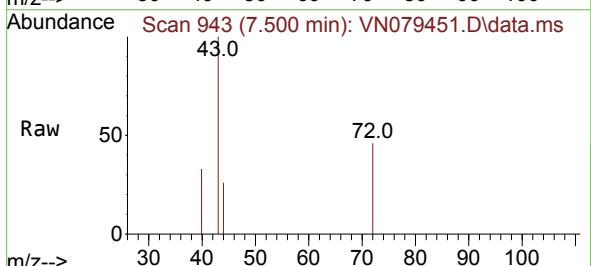
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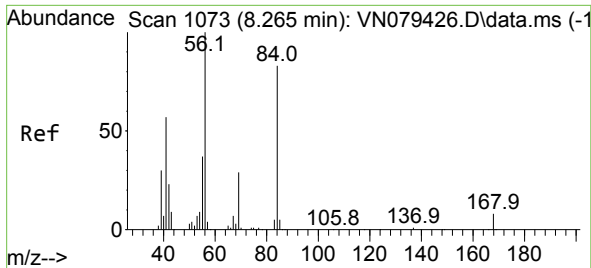
Tgt Ion: 43 Resp: 3040

Ion Ratio Lower Upper

43 100

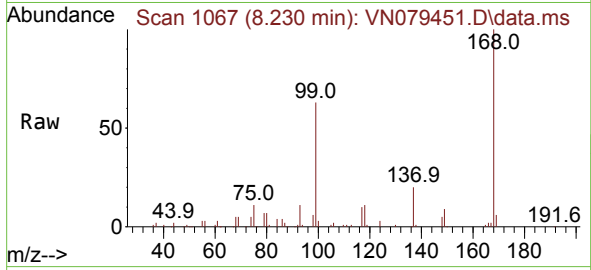
72 46.5 30.2 45.2#



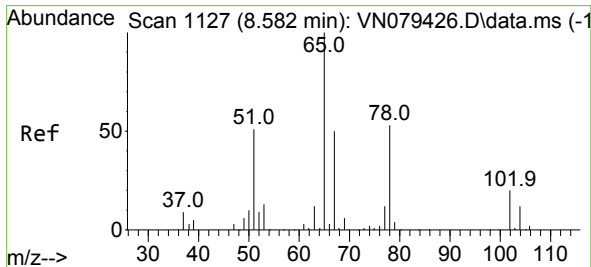
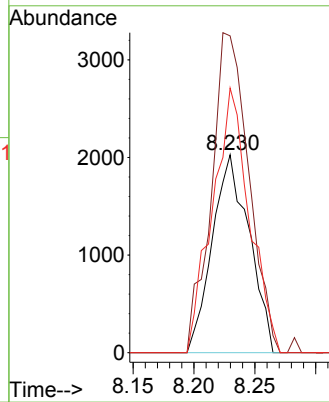
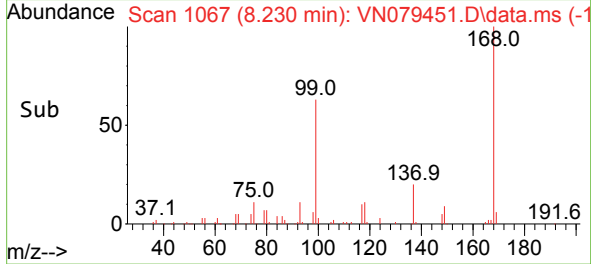


#31
Cyclohexane
Concen: 1.176 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN079451.D
Acq: 06 Oct 2023 16:43

Instrument :
MSVOA_N
ClientSampleId :

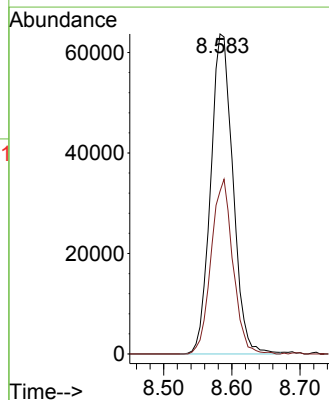
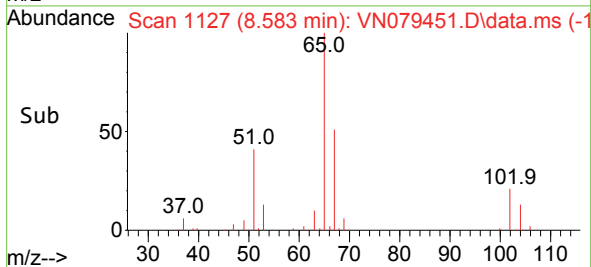
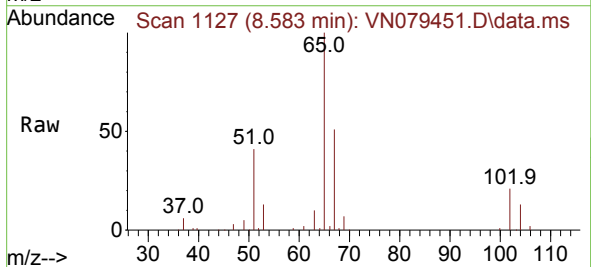


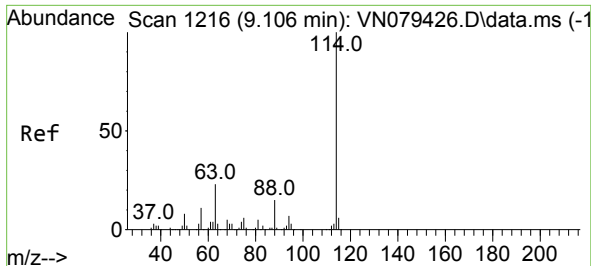
Tgt Ion: 56 Resp: 4267
Ion Ratio Lower Upper
56 100
69 160.1 26.8 40.2#
84 133.7 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 56.658 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN079451.D
Acq: 06 Oct 2023 16:43

Tgt Ion: 65 Resp: 144977
Ion Ratio Lower Upper
65 100
67 53.4 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN079451.D

Acq: 06 Oct 2023 16:43

Instrument :

MSVOA_N

ClientSampleId :

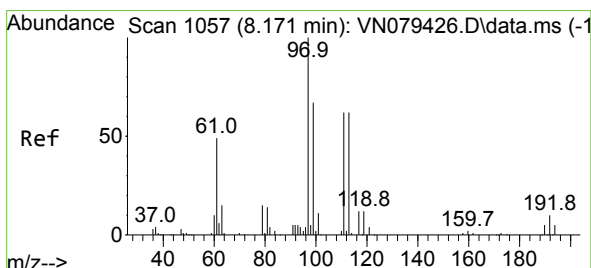
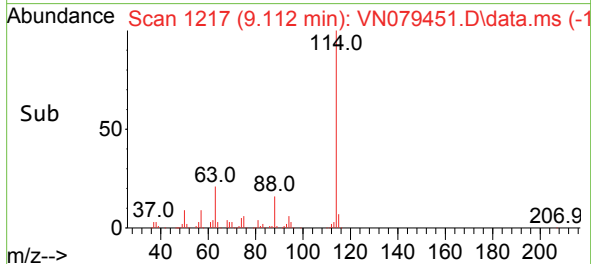
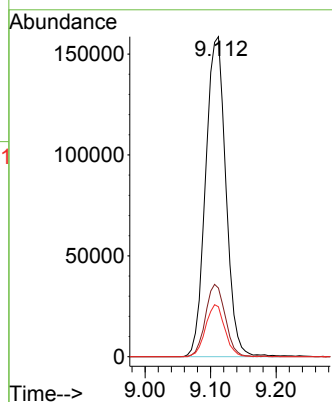
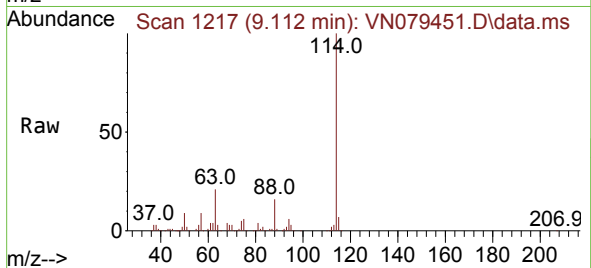
Tgt Ion:114 Resp: 341195

Ion Ratio Lower Upper

114 100

63 21.4 0.0 36.4

88 15.6 0.0 30.6



#35

Dibromofluoromethane

Concen: 48.492 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VN079451.D

Acq: 06 Oct 2023 16:43

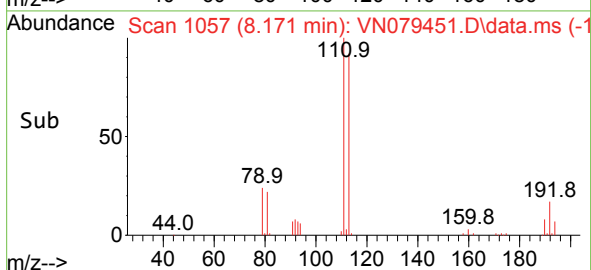
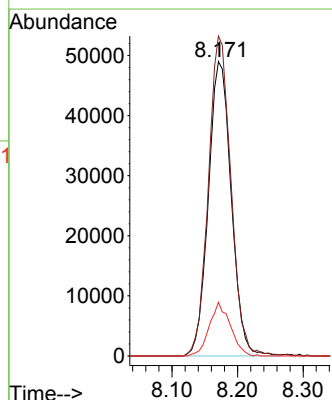
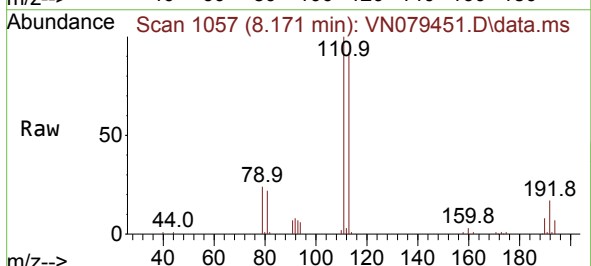
Tgt Ion:113 Resp: 118900

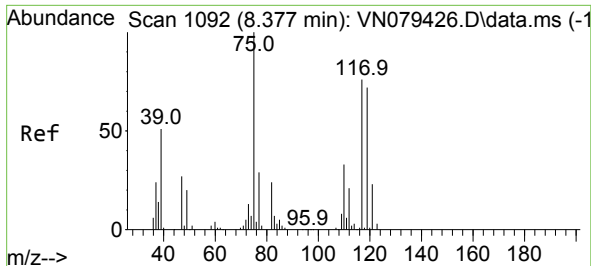
Ion Ratio Lower Upper

113 100

111 107.0 82.6 123.8

192 16.8 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.072 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.147 min

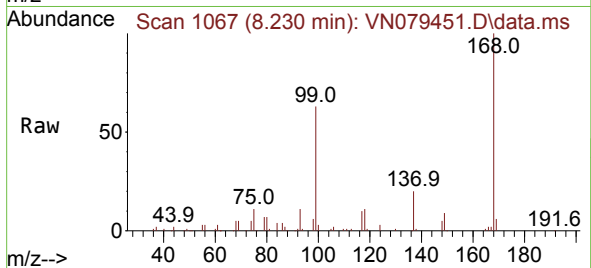
Lab File: VN079451.D

Acq: 06 Oct 2023 16:43

Instrument :

MSVOA_N

ClientSampleId :



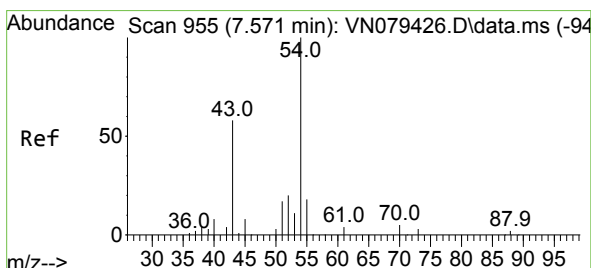
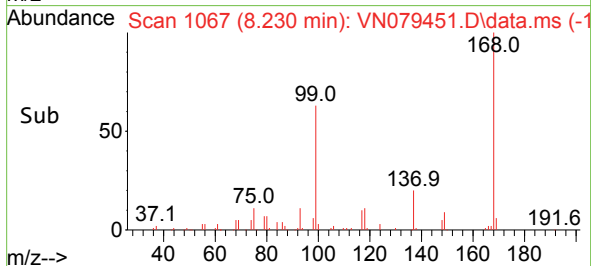
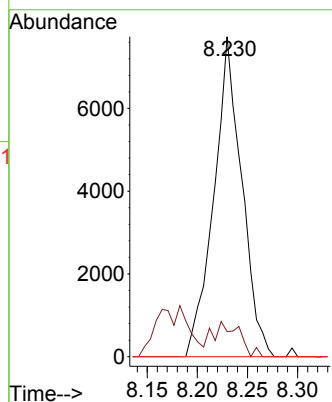
Tgt Ion: 75 Resp: 14986

Ion Ratio Lower Upper

75 100

110 10.5 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 1.203 ug/l

RT: 7.577 min Scan# 956

Delta R.T. 0.006 min

Lab File: VN079451.D

Acq: 06 Oct 2023 16:43

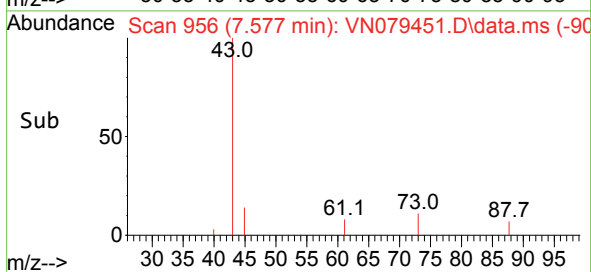
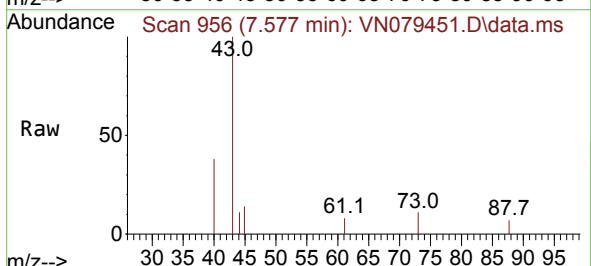
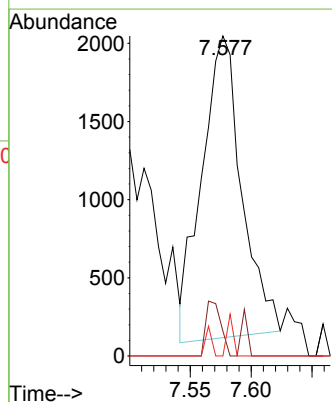
Tgt Ion: 43 Resp: 4405

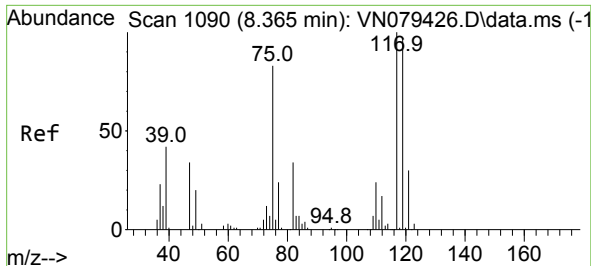
Ion Ratio Lower Upper

43 100

61 2.4 13.2 19.8#

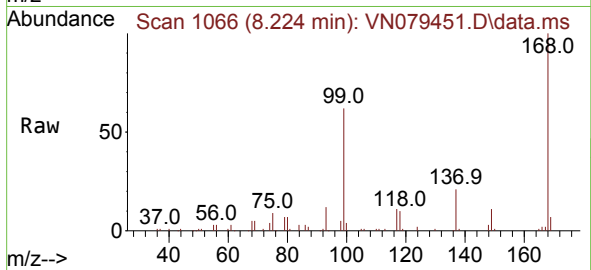
70 2.1 11.3 16.9#



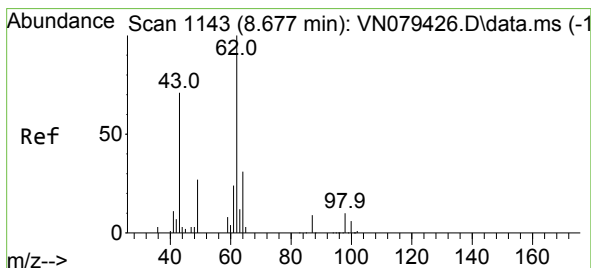
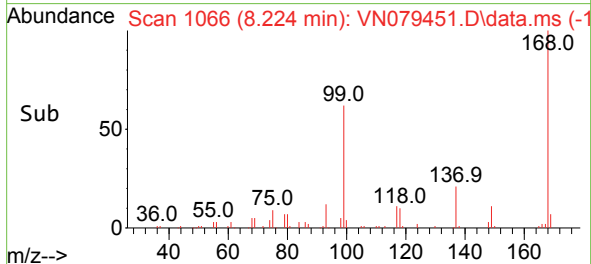
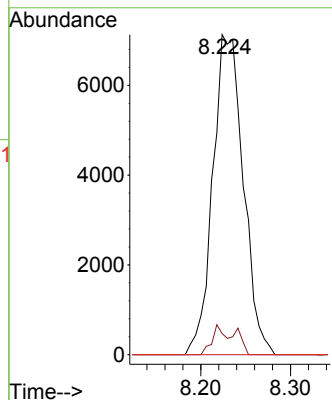


#38
Carbon Tetrachloride
Concen: 4.557 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN079451.D
Acq: 06 Oct 2023 16:43

Instrument :
MSVOA_N
ClientSampleId :

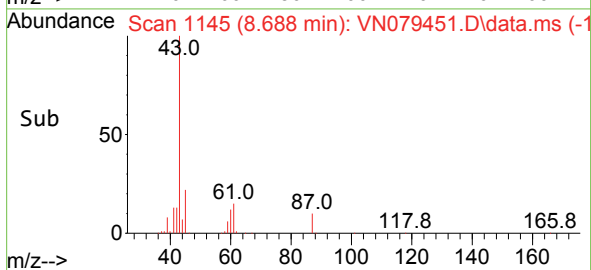
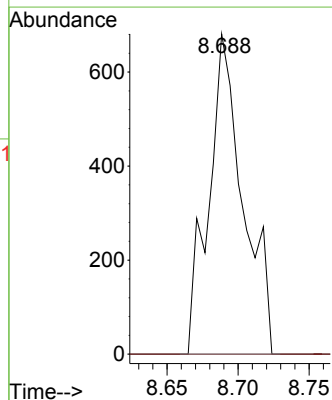
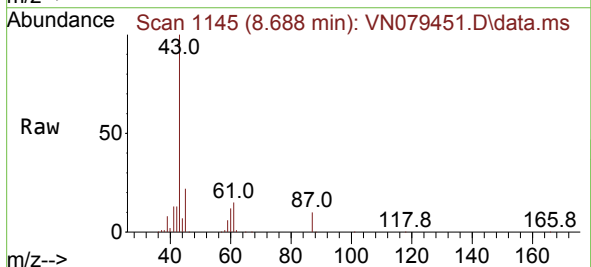


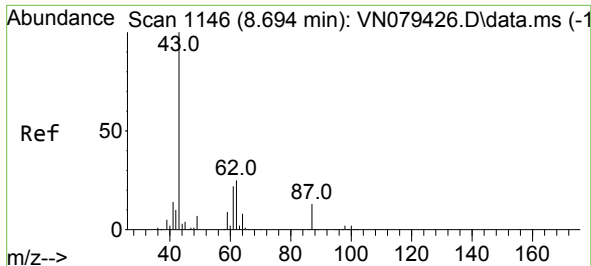
Tgt Ion:117 Resp: 16788
Ion Ratio Lower Upper
117 100
119 6.6 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.290 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.012 min
Lab File: VN079451.D
Acq: 06 Oct 2023 16:43

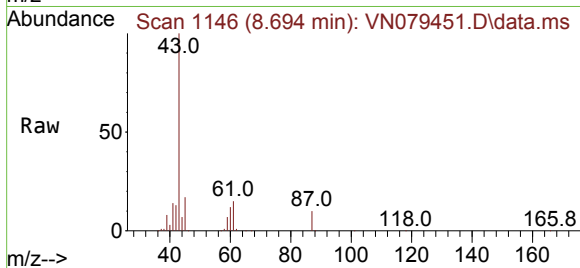
Tgt Ion: 62 Resp: 1152
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8



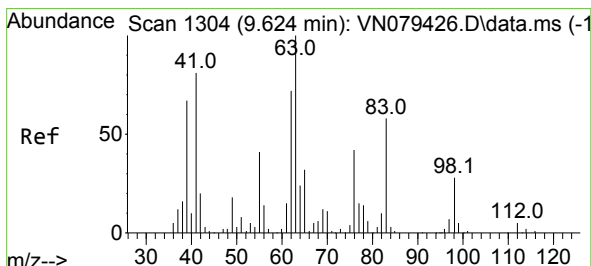
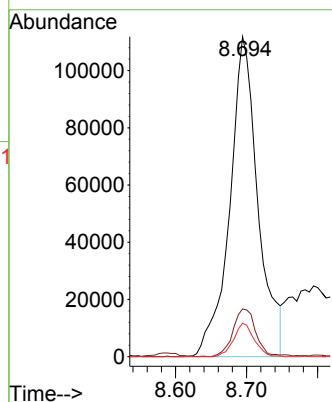
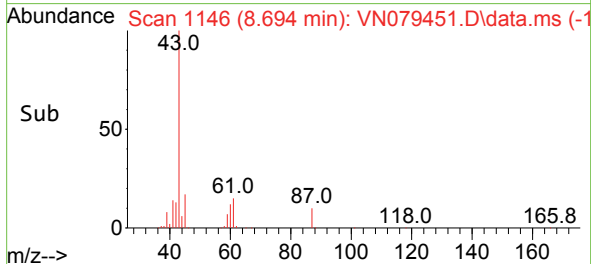


#43
Isopropyl Acetate
Concen: 48.252 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN079451.D
Acq: 06 Oct 2023 16:43

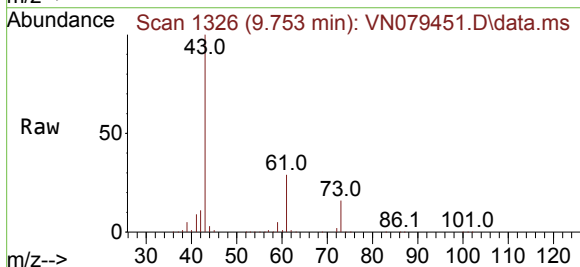
Instrument :
MSVOA_N
ClientSampleId :



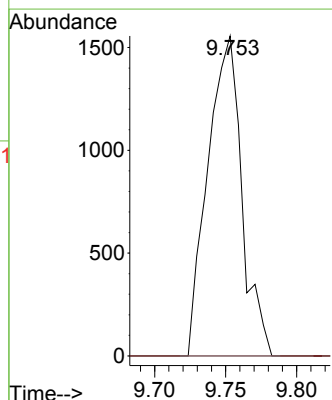
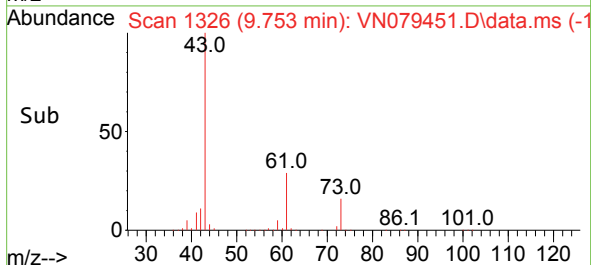
Tgt Ion: 43 Resp: 309549
Ion Ratio Lower Upper
43 100
61 12.4 24.7 37.1#
87 7.6 14.6 21.8#

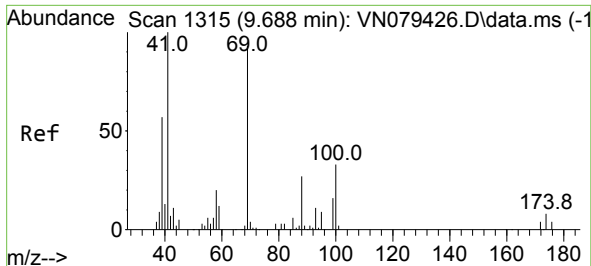


#45
1,2-Dichloropropane
Concen: 0.899 ug/l
RT: 9.753 min Scan# 1326
Delta R.T. 0.129 min
Lab File: VN079451.D
Acq: 06 Oct 2023 16:43



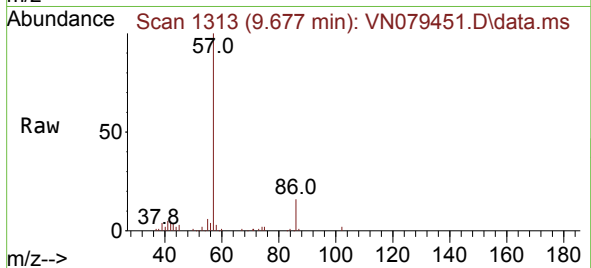
Tgt Ion: 63 Resp: 2589
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#



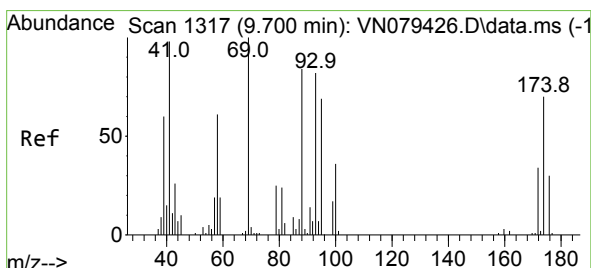
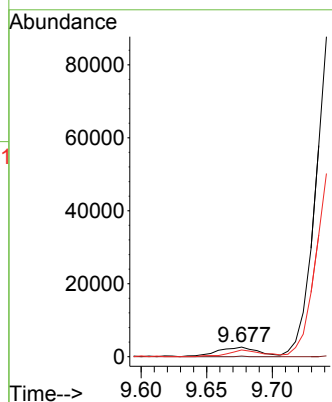
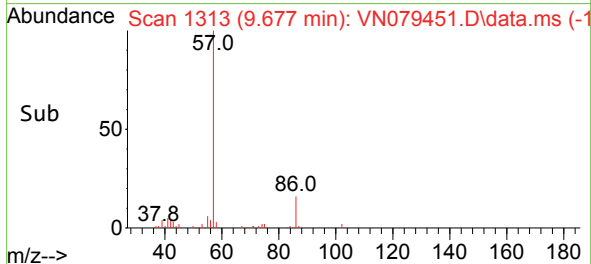


#48
Methyl methacrylate
Concen: 2.080 ug/l
RT: 9.677 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN079451.D
Acq: 06 Oct 2023 16:43

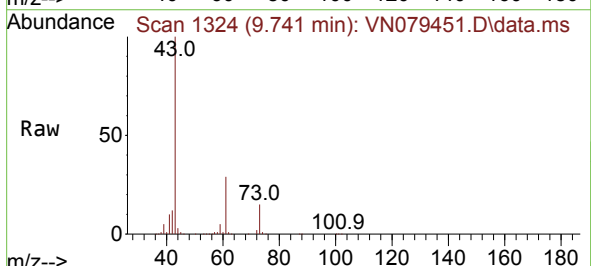
Instrument :
MSVOA_N
ClientSampleId :



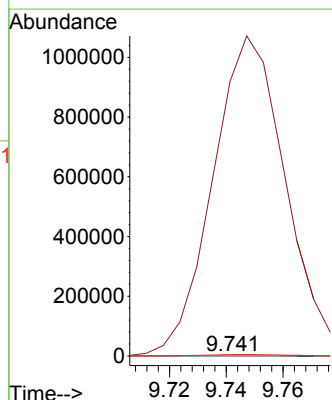
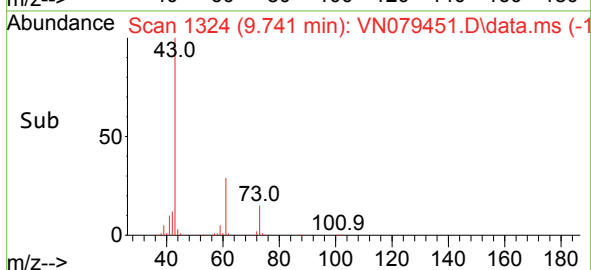
Tgt Ion: 41 Resp: 5717
Ion Ratio Lower Upper
41 100
69 1.2 90.4 135.6#
39 58.6 54.6 81.8

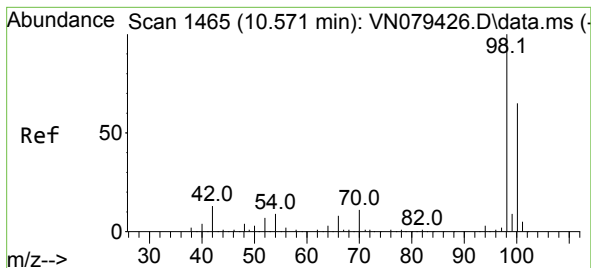


#49
1,4-Dioxane
Concen: 4.246 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.041 min
Lab File: VN079451.D
Acq: 06 Oct 2023 16:43



Tgt Ion: 88 Resp: 215
Ion Ratio Lower Upper
88 100
43 898065.1 17.0 25.6#
58 5011.2 47.0 70.4#

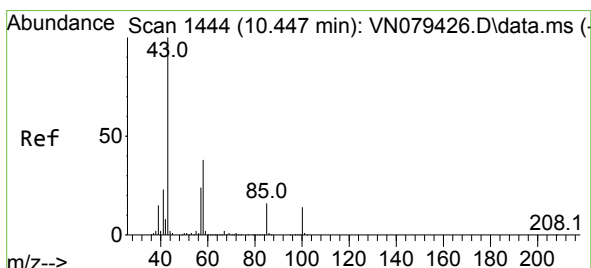
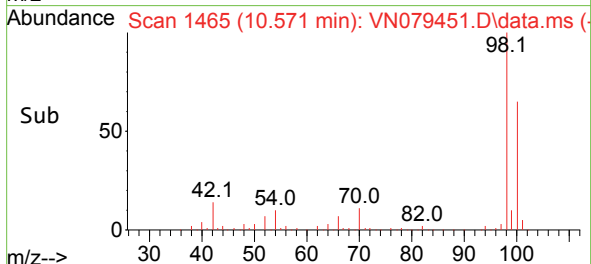
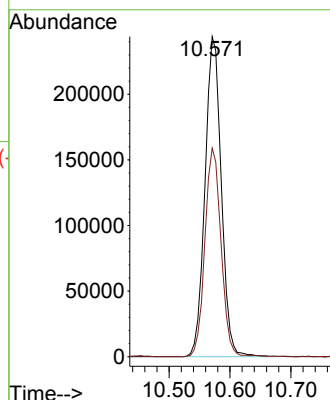
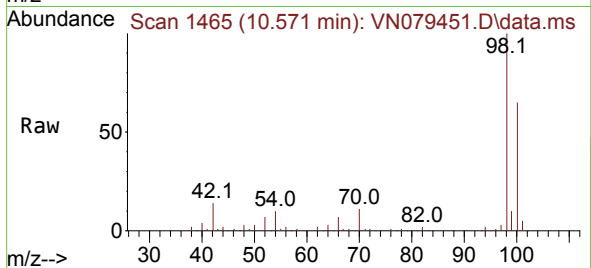




#50
Toluene-d8
Concen: 51.155 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN079451.D
Acq: 06 Oct 2023 16:43

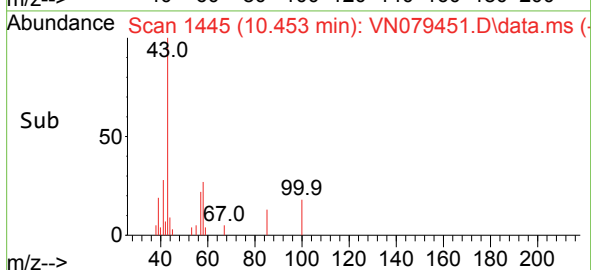
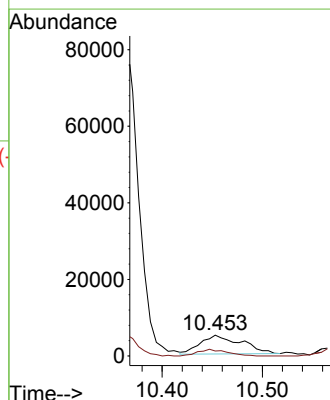
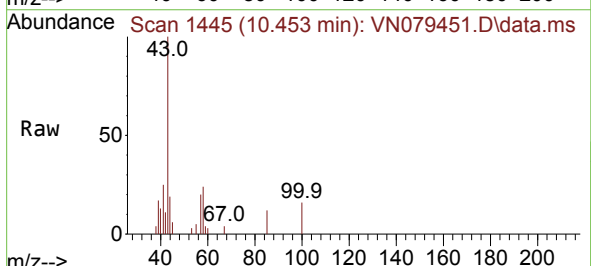
Instrument :
MSVOA_N
ClientSampleId :

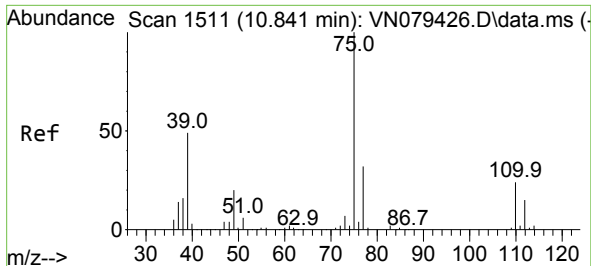
Tgt Ion: 98 Resp: 453844
Ion Ratio Lower Upper
98 100
100 64.5 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 3.874 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN079451.D
Acq: 06 Oct 2023 16:43

Tgt Ion: 43 Resp: 14030
Ion Ratio Lower Upper
43 100
58 24.8 36.6 54.8#

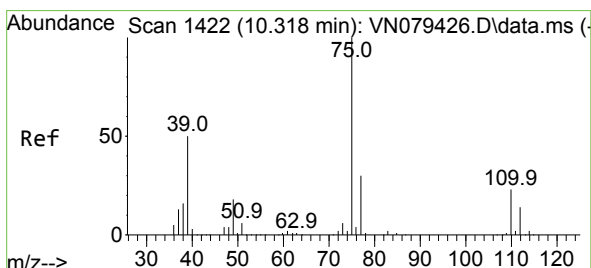
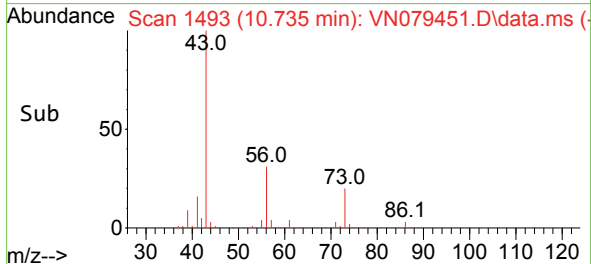
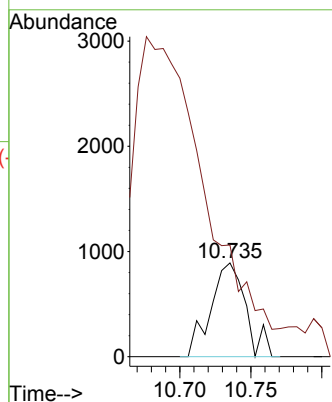
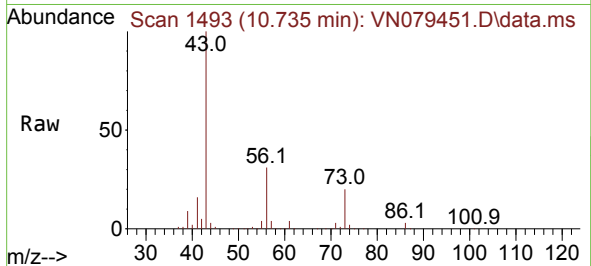




#53
 t-1,3-Dichloropropene
 Concen: 0.394 ug/l
 RT: 10.735 min Scan# 1493
 Delta R.T. -0.106 min
 Lab File: VN079451.D
 Acq: 06 Oct 2023 16:43

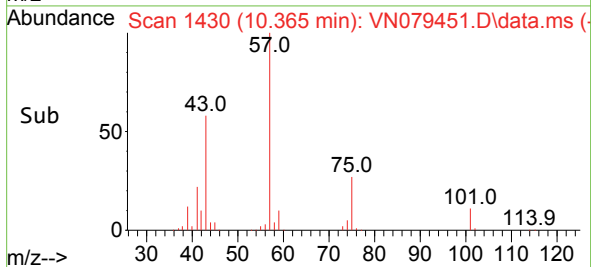
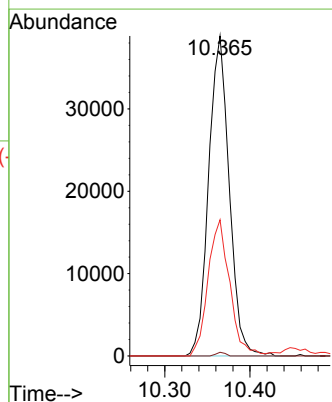
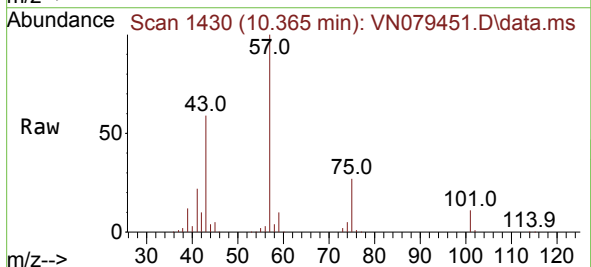
Instrument :
 MSVOA_N
 ClientSampleId :

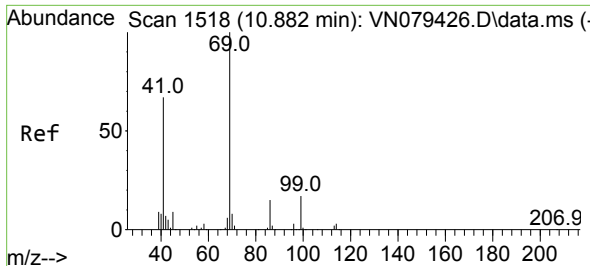
Tgt Ion: 75 Resp: 1522
 Ion Ratio Lower Upper
 75 100
 77 89.0 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 15.406 ug/l
 RT: 10.365 min Scan# 1430
 Delta R.T. 0.047 min
 Lab File: VN079451.D
 Acq: 06 Oct 2023 16:43

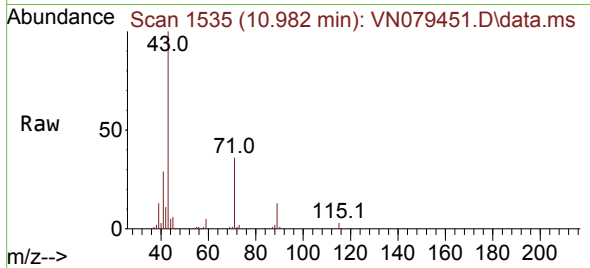
Tgt Ion: 75 Resp: 65199
 Ion Ratio Lower Upper
 75 100
 77 1.2 26.1 39.1#
 39 42.5 31.6 47.4



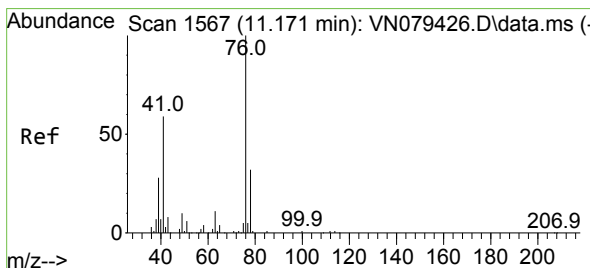
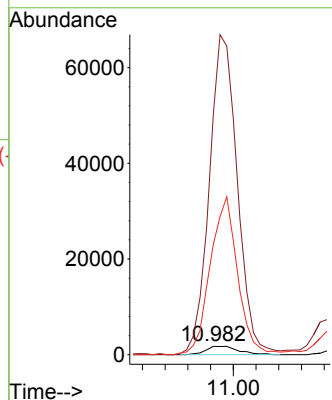
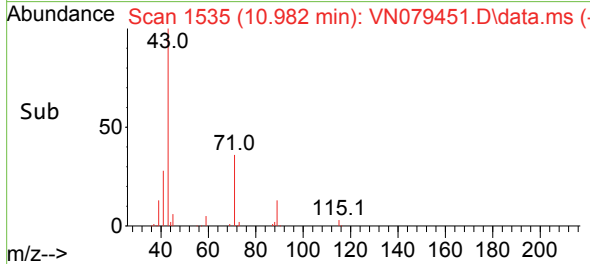


#56
Ethyl methacrylate
Concen: 0.982 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.100 min
Lab File: VN079451.D
Acq: 06 Oct 2023 16:43

Instrument :
MSVOA_N
ClientSampleId :

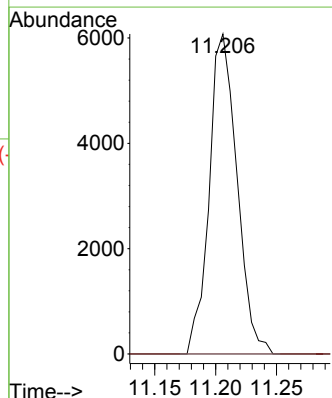
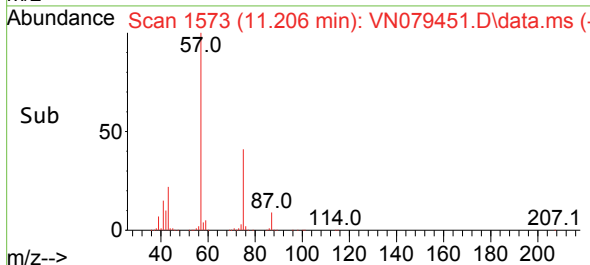
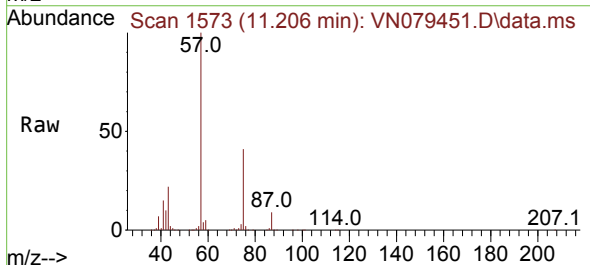


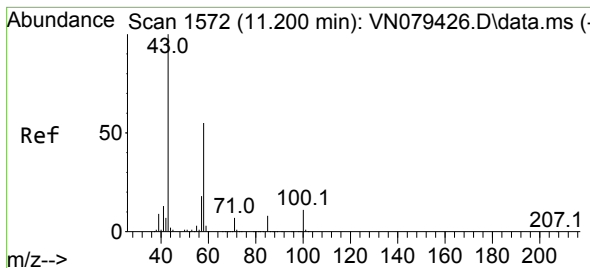
Tgt Ion: 69 Resp: 3486
Ion Ratio Lower Upper
69 100
41 3297.2 39.6 59.4#
39 1583.1 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 2.163 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.035 min
Lab File: VN079451.D
Acq: 06 Oct 2023 16:43

Tgt Ion: 76 Resp: 9648
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

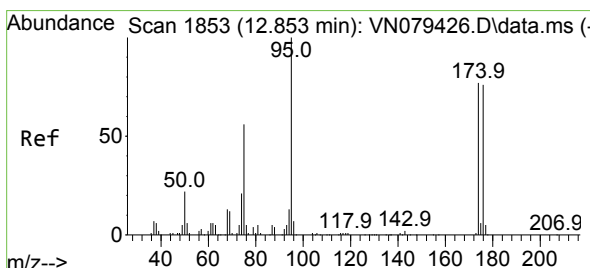
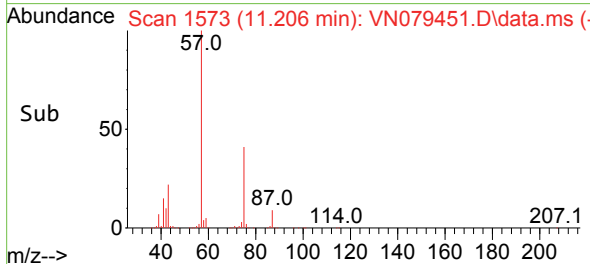
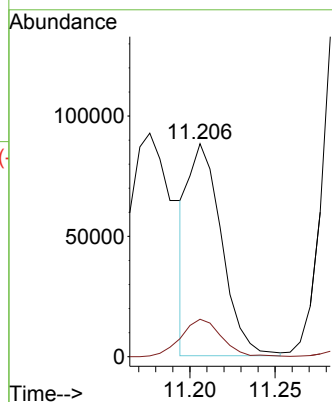
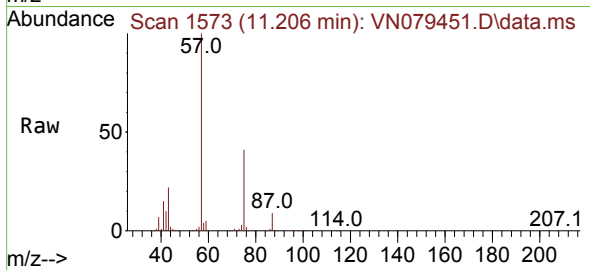




#59
2-Hexanone
Concen: 46.039 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN079451.D
Acq: 06 Oct 2023 16:43

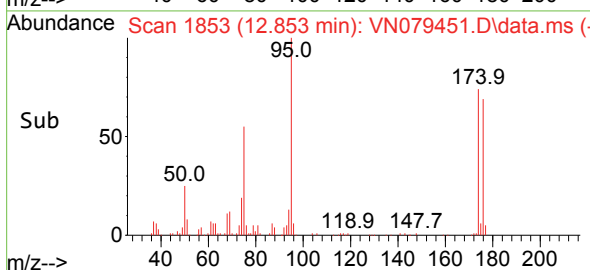
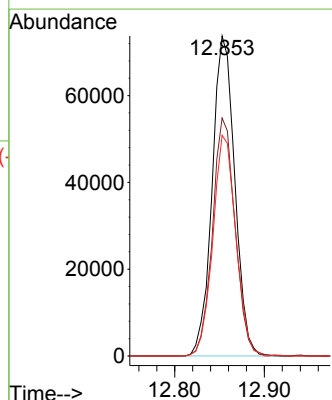
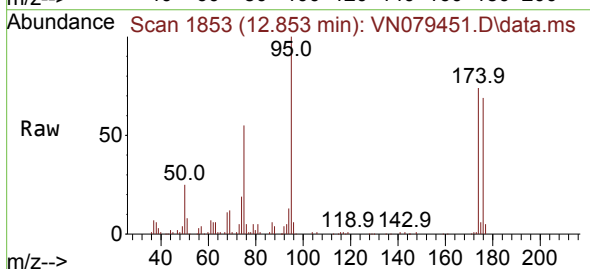
Instrument :
MSVOA_N
ClientSampleId :

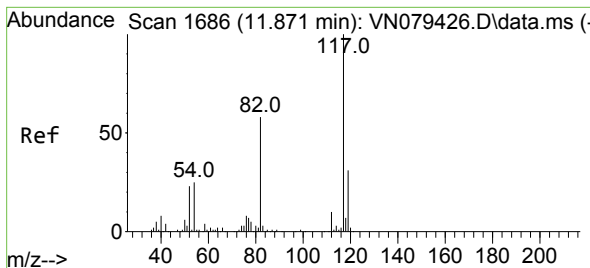
Tgt Ion: 43 Resp: 120311
Ion Ratio Lower Upper
43 100
58 21.5 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 45.258 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN079451.D
Acq: 06 Oct 2023 16:43

Tgt Ion: 95 Resp: 128857
Ion Ratio Lower Upper
95 100
174 74.4 0.0 143.8
176 70.2 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. 0.000 min

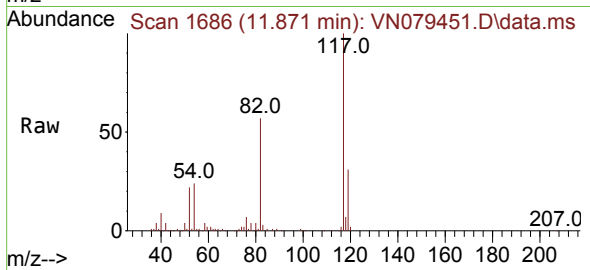
Lab File: VN079451.D

Acq: 06 Oct 2023 16:43

Instrument :

MSVOA_N

ClientSampleId :



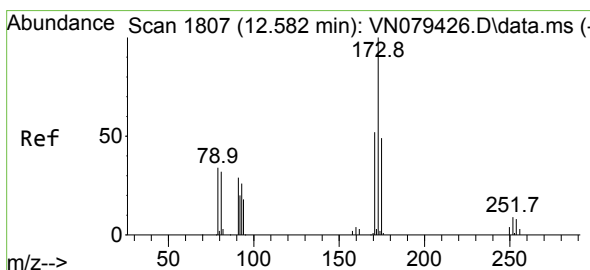
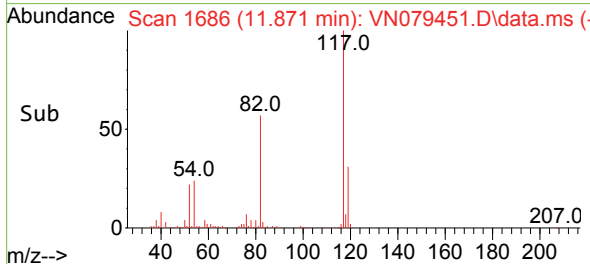
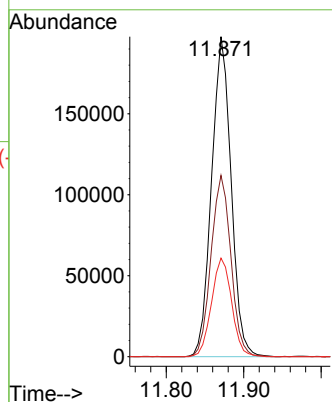
Tgt Ion:117 Resp: 346338

Ion Ratio Lower Upper

117 100

82 56.6 44.0 66.0

119 30.8 25.6 38.4



#71

Bromoform

Concen: 0.353 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.265 min

Lab File: VN079451.D

Acq: 06 Oct 2023 16:43

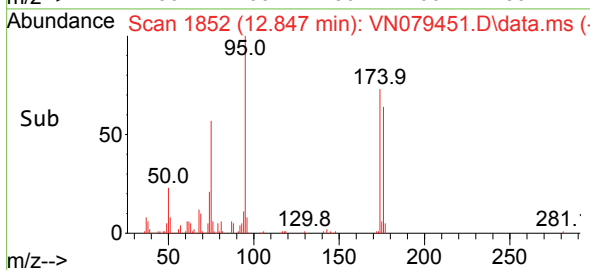
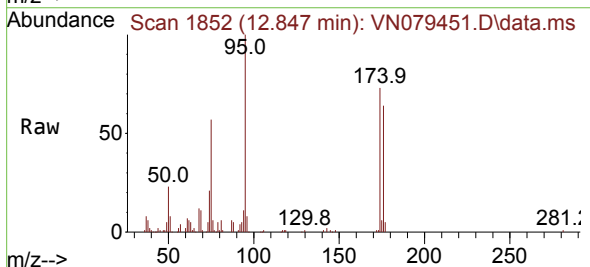
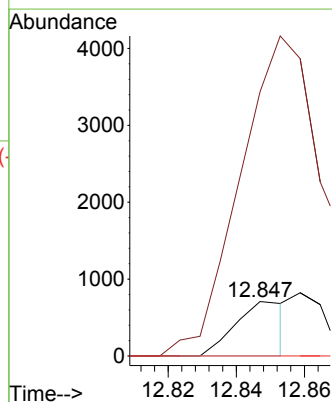
Tgt Ion:173 Resp: 730

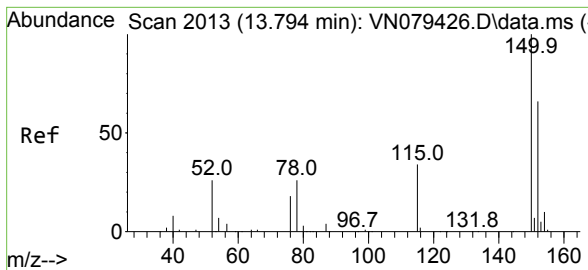
Ion Ratio Lower Upper

173 100

175 748.9 24.3 73.0#

254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2013

Delta R.T. 0.006 min

Lab File: VN079451.D

Acq: 06 Oct 2023 16:43

Instrument :

MSVOA_N

ClientSampleId :

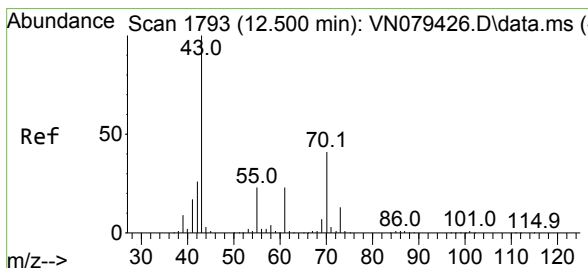
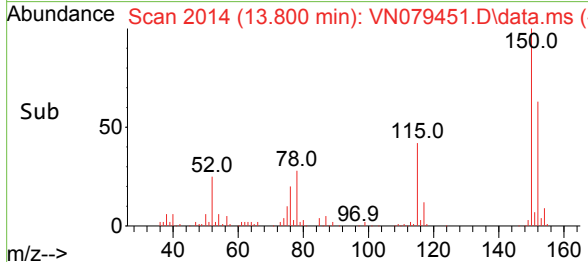
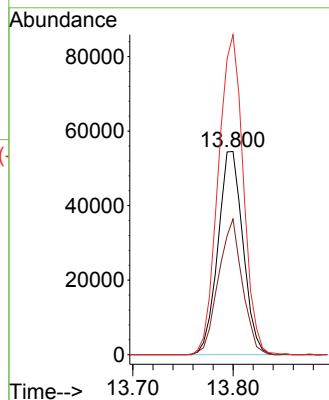
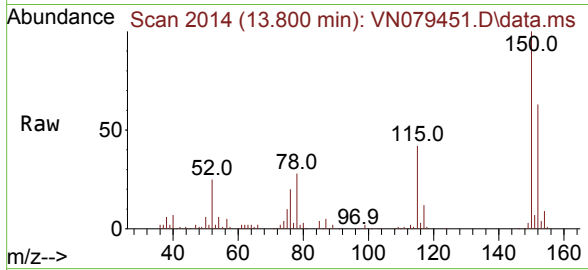
Tgt Ion:152 Resp: 94501

Ion Ratio Lower Upper

152 100

115 63.7 32.3 96.8

150 157.7 0.0 355.8



#74

N-ethyl acetate

Concen: 0.329 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.012 min

Lab File: VN079451.D

Acq: 06 Oct 2023 16:43

Tgt Ion: 43 Resp: 1185

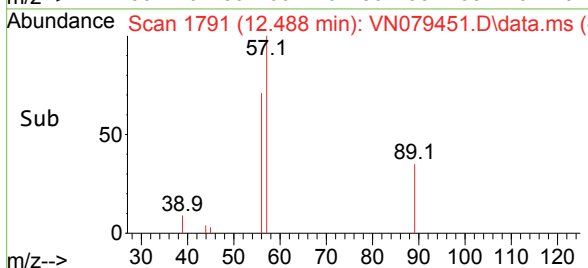
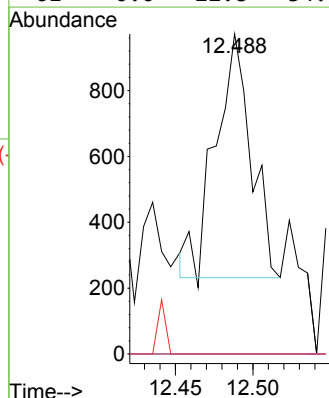
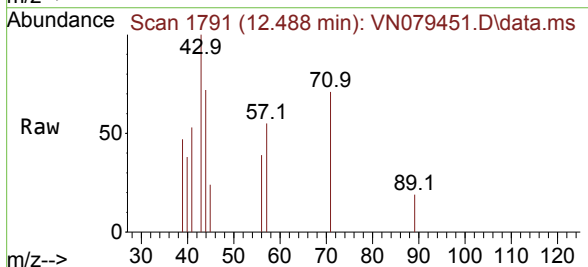
Ion Ratio Lower Upper

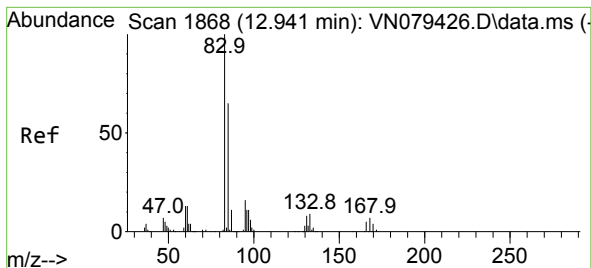
43 100

70 0.0 43.4 65.2#

55 0.0 21.4 32.0#

61 0.0 22.8 34.2#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.871 min Scan# 1856

Delta R.T. -0.071 min

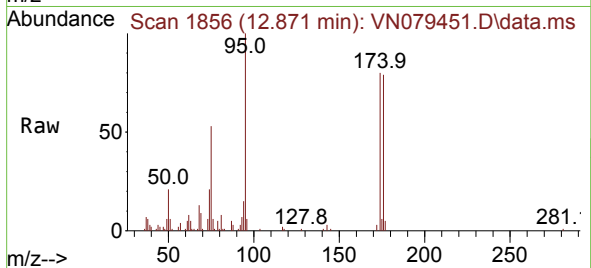
Lab File: VN079451.D

Acq: 06 Oct 2023 16:43

Instrument :

MSVOA_N

ClientSampleId :



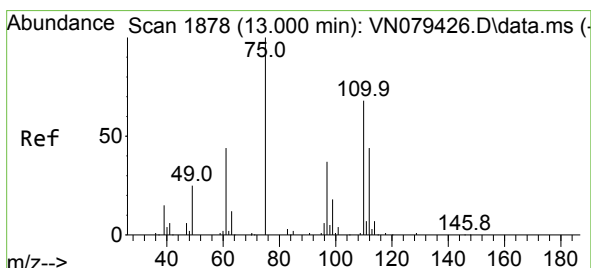
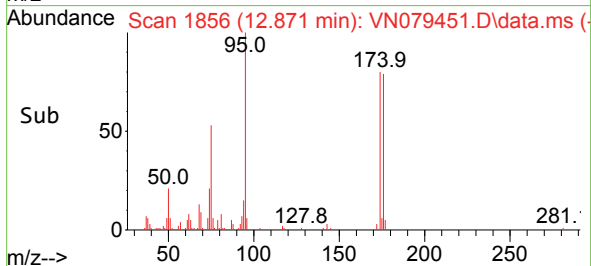
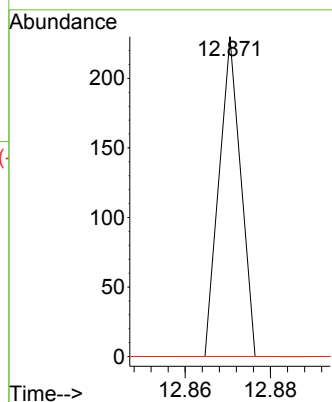
Tgt Ion: 83 Resp: 81

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 0.0 31.9 95.7#



#76

1,2,3-Trichloropropane

Concen: 26.013 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN079451.D

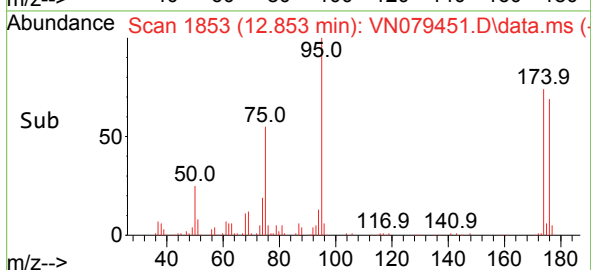
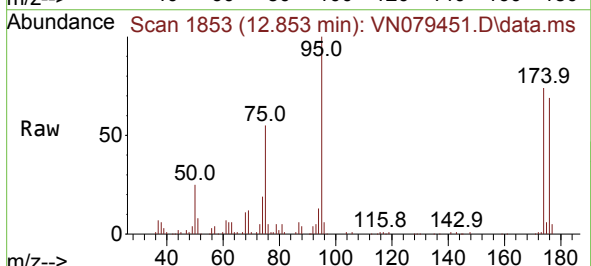
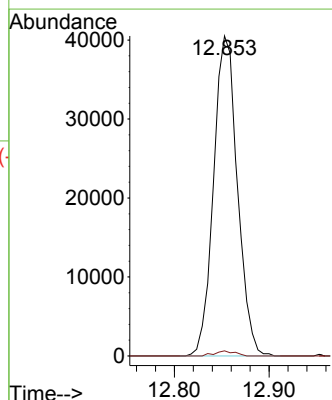
Acq: 06 Oct 2023 16:43

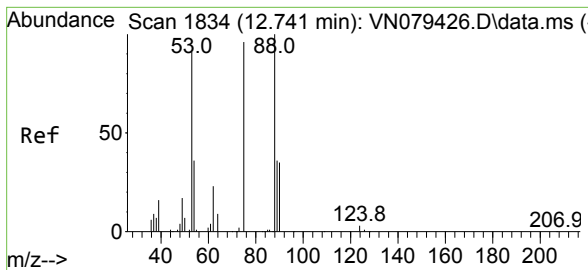
Tgt Ion: 75 Resp: 70879

Ion Ratio Lower Upper

75 100

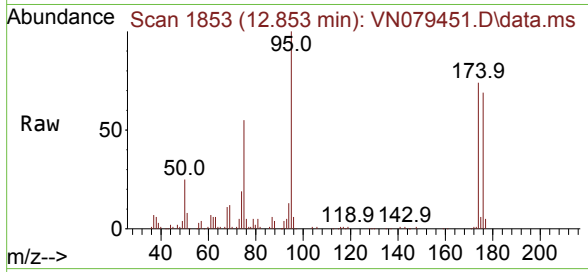
77 1.4 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 75.479 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN079451.D
 Acq: 06 Oct 2023 16:43

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	75	Resp:	70879
Ion	Ratio	Lower	Upper
75	100		
53	0.0	67.4	101.2#
89	0.0	38.8	58.2#

