

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050323\
 Data File : VN077559.D
 Acq On : 03 May 2023 13:43
 Operator : JC\MD
 Sample : PB152533ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB152533ZHE#04

Quant Time: May 04 04:45:39 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042423W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 02:50:59 2023
 Response via : Initial Calibration

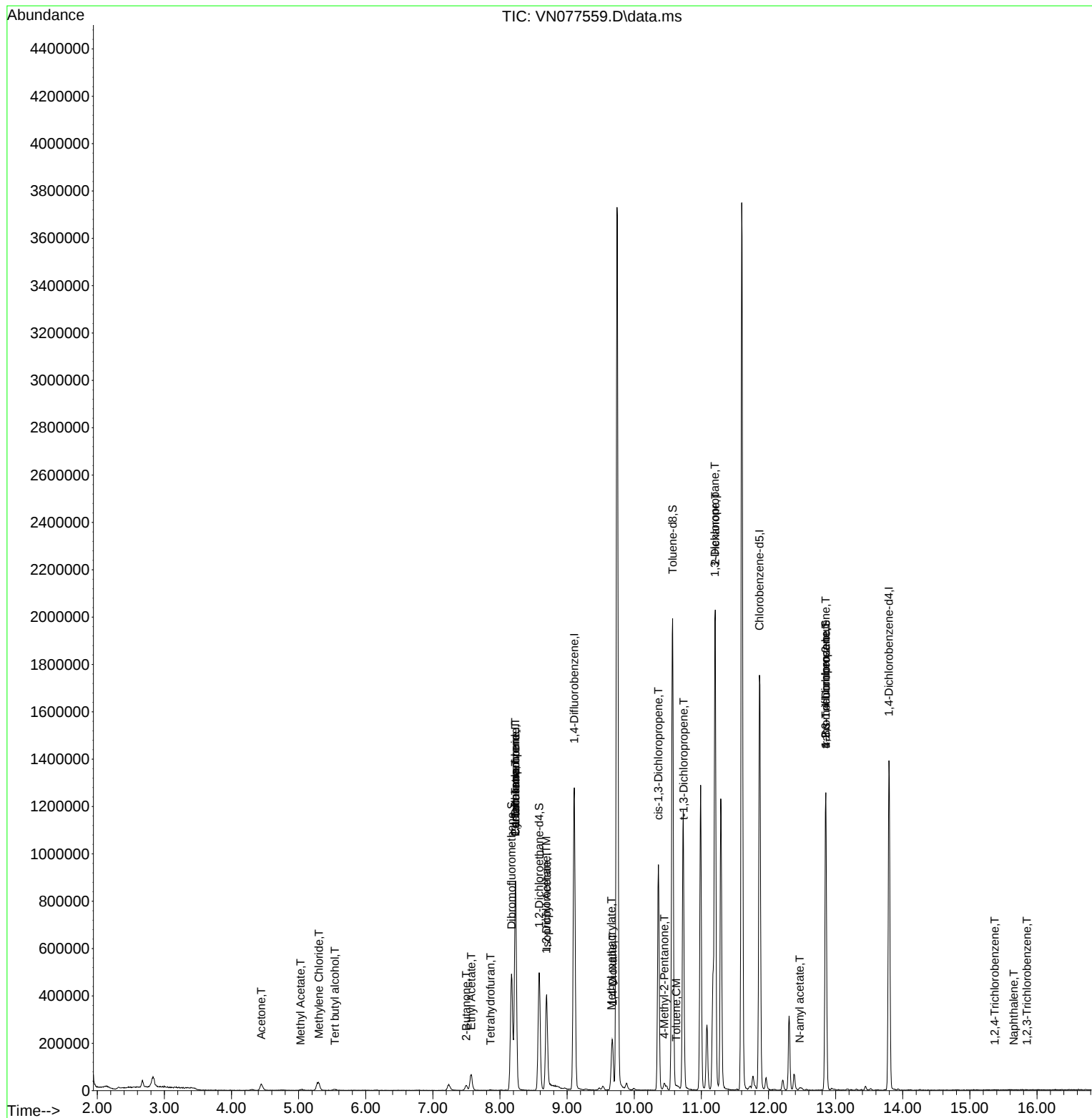
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	619517	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1166767	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	1104916	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	383663	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	409846	50.699	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 101.400%	
35) Dibromofluoromethane	8.172	113	356956	50.901	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.800%	
50) Toluene-d8	10.571	98	1470430	54.709	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 109.420%	
62) 4-Bromofluorobenzene	12.854	95	458791	52.174	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 104.340%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.542	59	7996	6.161	ug/l #	94
16) Acetone	4.442	43	45167	17.562	ug/l	97
18) Methyl Acetate	5.031	43	3460	0.348	ug/l #	43
20) Methylene Chloride	5.301	84	33634	4.124	ug/l #	79
25) 2-Butanone	7.495	43	30186	8.275	ug/l	92
29) Tetrahydrofuran	7.860	42	1697	0.743	ug/l #	56
31) Cyclohexane	8.230	56	13521	1.181	ug/l #	16
36) 1,1-Dichloropropene	8.230	75	52154	5.148	ug/l #	50
37) Ethyl Acetate	7.572	43	94626	12.291	ug/l	97
38) Carbon Tetrachloride	8.230	117	67607	6.048	ug/l #	15
42) 1,2-Dichloroethane	8.689	62	3108	0.293	ug/l #	73
43) Isopropyl Acetate	8.695	43	446634	33.534	ug/l #	89
48) Methyl methacrylate	9.660	41	12843	2.118	ug/l #	31
49) 1,4-Dioxane	9.683	88	469	3.084	ug/l #	1
51) 4-Methyl-2-Pentanone	10.448	43	30697	3.929	ug/l #	68
52) Toluene	10.624	92	5691	0.281	ug/l	90
53) t-1,3-Dichloropropene	10.736	75	3801	0.331	ug/l #	77
54) cis-1,3-Dichloropropene	10.360	75	207743	16.610	ug/l #	60
57) 1,3-Dichloropropane	11.201	76	24506	1.892	ug/l #	43
59) 2-Hexanone	11.207	43	239447	42.167	ug/l #	55
74) N-amyl acetate	12.465	43	9767	0.927	ug/l #	38
76) 1,2,3-Trichloropropane	12.854	75	242415	27.171	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	242415	76.764	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.371	180	58	0.818	ug/l #	14
95) Naphthalene	15.653	128	847	1.223	ug/l #	80
96) 1,2,3-Trichlorobenzene	15.848	180	79	0.504	ug/l #	28

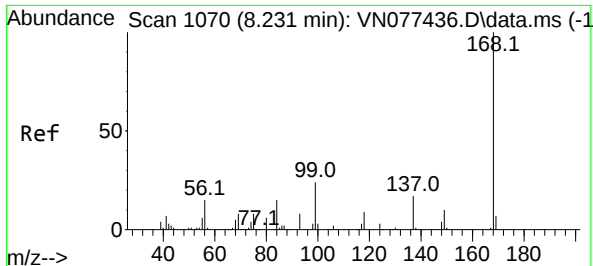
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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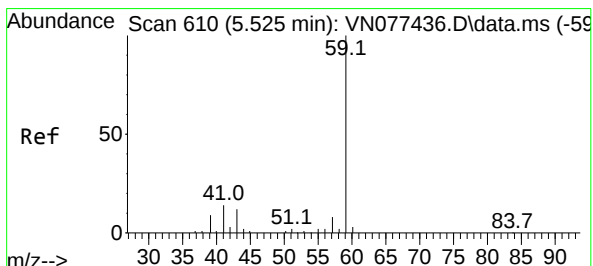
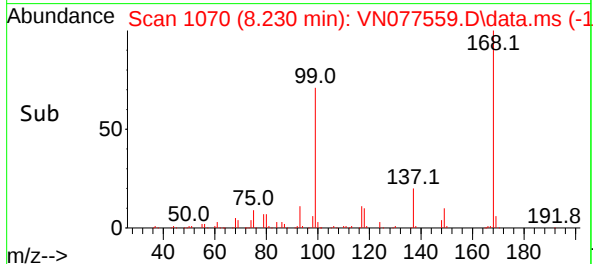
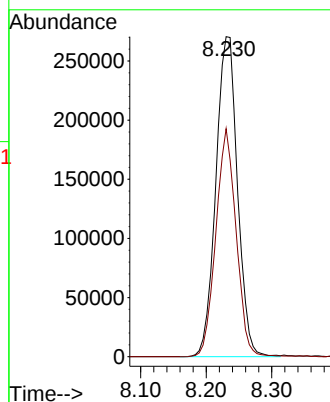
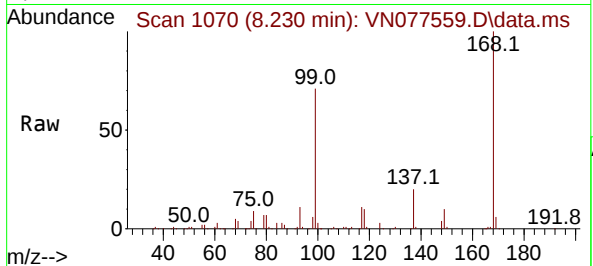




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1070
Delta R.T. -0.001 min
Lab File: VN077559.D
Acq: 03 May 2023 13:43

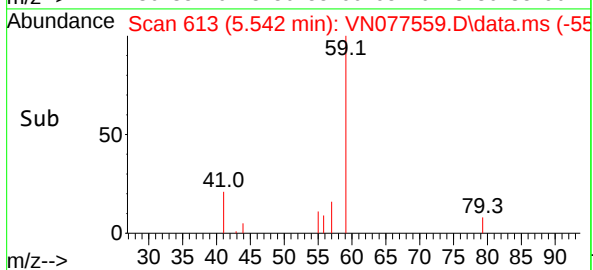
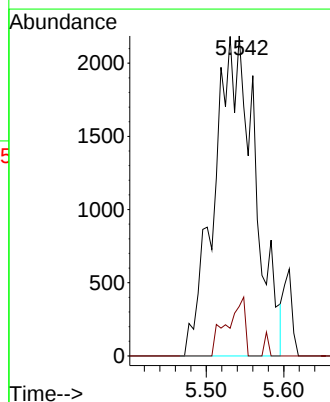
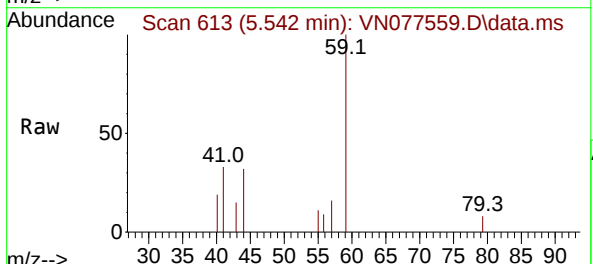
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#04

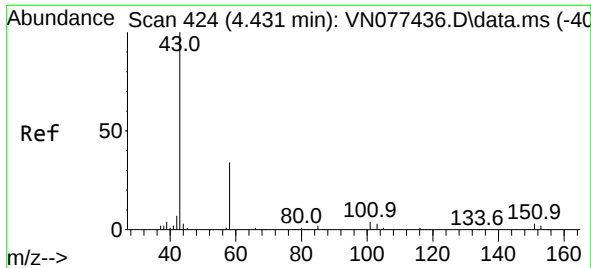
Tgt Ion:168 Resp: 619517
Ion Ratio Lower Upper
168 100
99 71.2 53.0 79.6



#11
Tert butyl alcohol
Concen: 6.161 ug/l
RT: 5.542 min Scan# 613
Delta R.T. 0.017 min
Lab File: VN077559.D
Acq: 03 May 2023 13:43

Tgt Ion: 59 Resp: 7996
Ion Ratio Lower Upper
59 100
57 8.1 8.2 12.4#





#16

Acetone

Concen: 17.562 ug/l

RT: 4.442 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN077559.D

Acq: 03 May 2023 13:43

Instrument :

MSVOA_N

ClientSampleId :

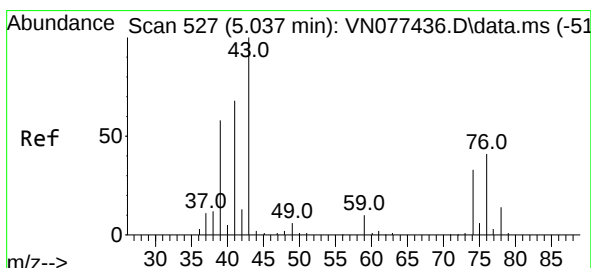
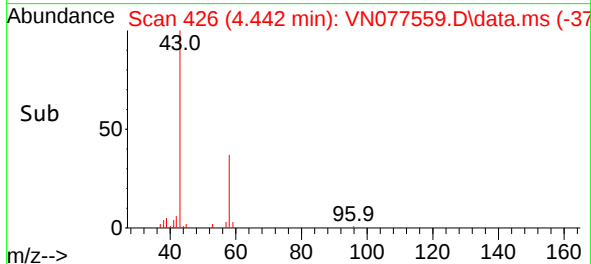
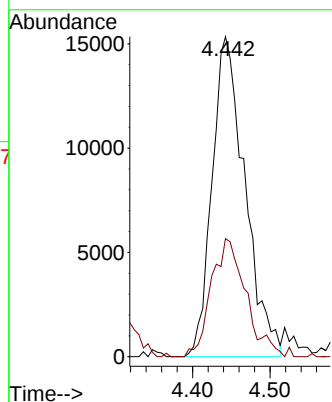
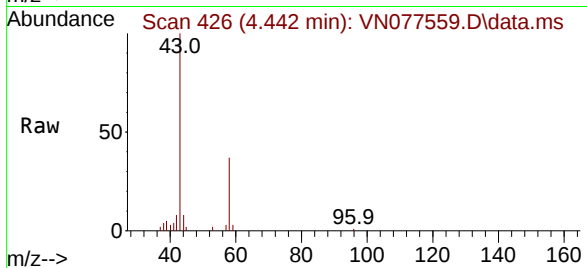
PB152533ZHE#04

Tgt Ion: 43 Resp: 45167

Ion Ratio Lower Upper

43 100

58 36.9 28.0 42.0



#18

Methyl Acetate

Concen: 0.348 ug/l

RT: 5.031 min Scan# 526

Delta R.T. -0.006 min

Lab File: VN077559.D

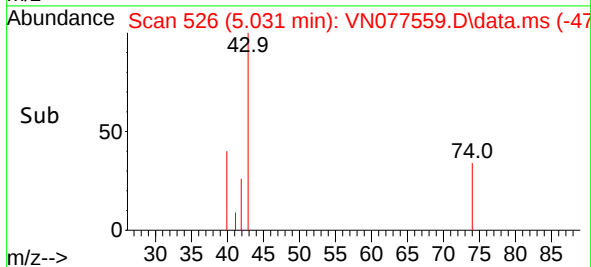
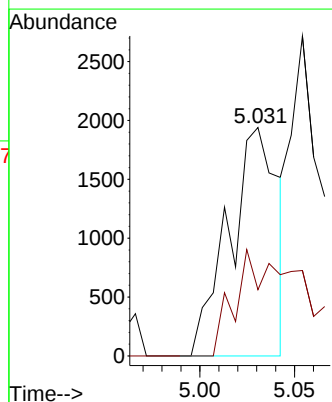
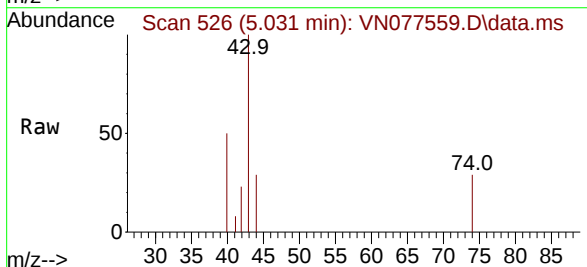
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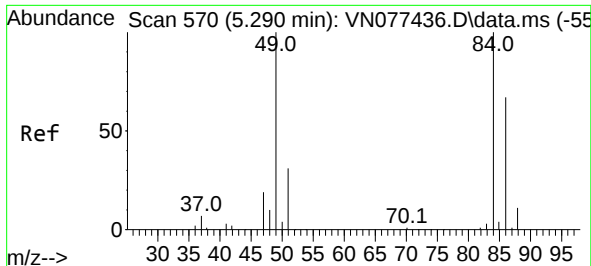
Tgt Ion: 43 Resp: 3460

Ion Ratio Lower Upper

43 100

74 65.2 26.2 39.4#

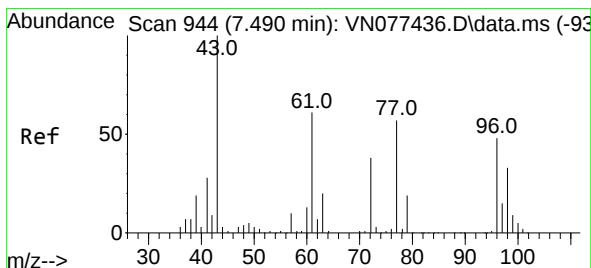
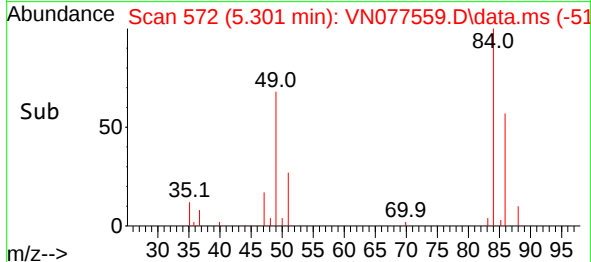
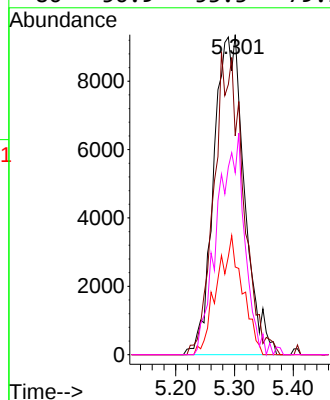
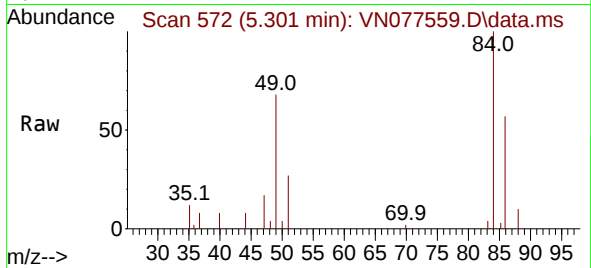




#20
Methylene Chloride
Concen: 4.124 ug/l
RT: 5.301 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN077559.D
Acq: 03 May 2023 13:43

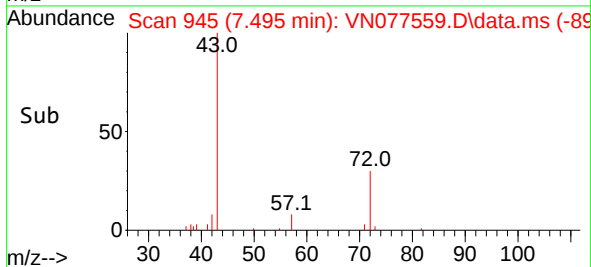
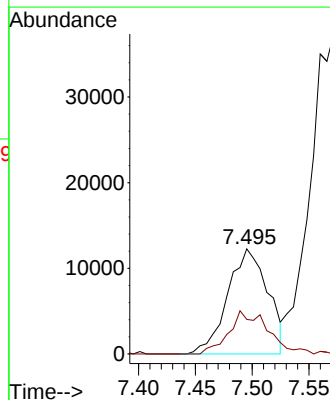
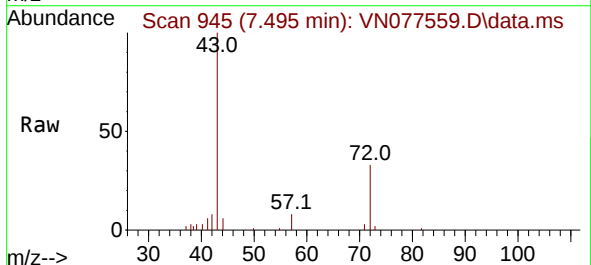
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#04

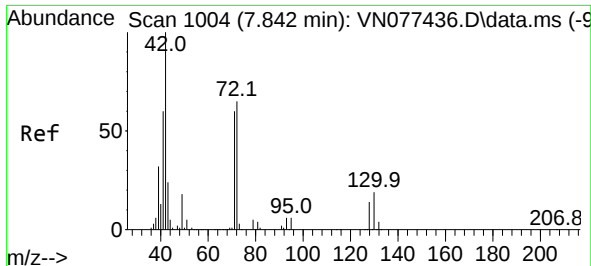
Tgt Ion: 84	Resp: 33634
Ion Ratio	Lower Upper
84 100	
49 68.3	79.7 119.5#
51 27.4	25.2 37.8
86 56.9	53.3 79.9



#25
2-Butanone
Concen: 8.275 ug/l
RT: 7.495 min Scan# 945
Delta R.T. 0.006 min
Lab File: VN077559.D
Acq: 03 May 2023 13:43

Tgt Ion: 43	Resp:	30186	
Ion	Ratio	Lower	Upper
43	100		
72	32.8	30.2	45.2





#29

Tetrahydrofuran

Concen: 0.743 ug/l

RT: 7.860 min Scan# 10

Delta R.T. 0.017 min

Lab File: VN077559.D

Acq: 03 May 2023 13:43

Instrument :

MSVOA_N

ClientSampleId :

PB152533ZHE#04

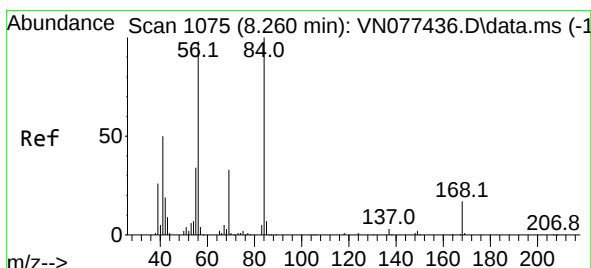
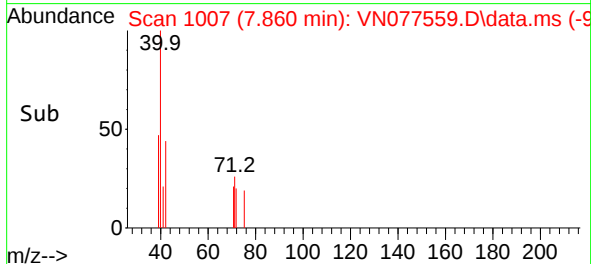
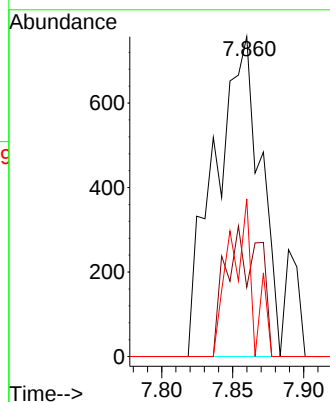
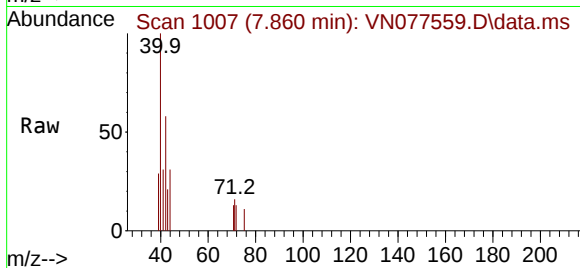
Tgt Ion: 42 Resp: 1697

Ion Ratio Lower Upper

42 100

72 29.7 49.8 74.6#

71 25.0 47.4 71.2#



#31

Cyclohexane

Concen: 1.181 ug/l

RT: 8.230 min Scan# 1070

Delta R.T. -0.030 min

Lab File: VN077559.D

Acq: 03 May 2023 13:43

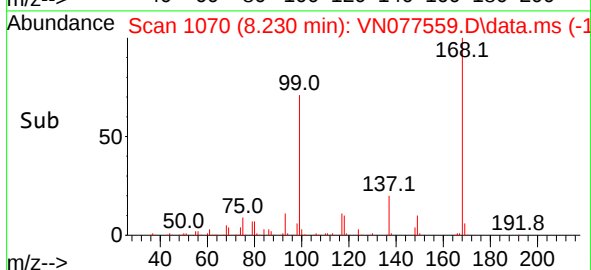
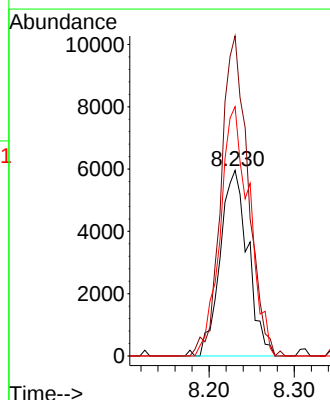
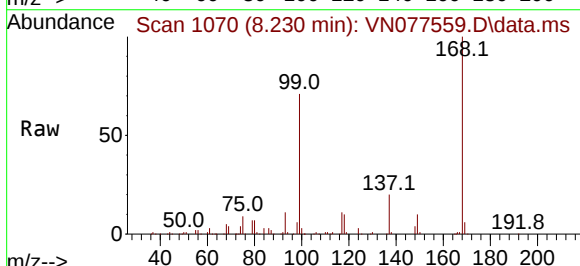
Tgt Ion: 56 Resp: 13521

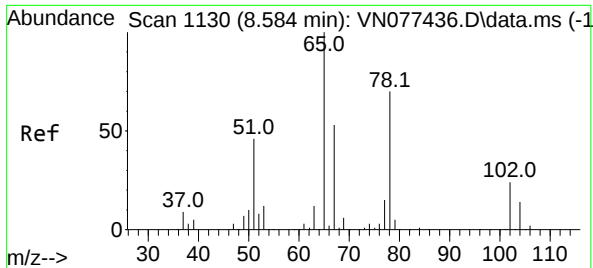
Ion Ratio Lower Upper

56 100

69 172.5 26.8 40.2#

84 134.4 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 50.699 ug/l

RT: 8.583 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN077559.D

Acq: 03 May 2023 13:43

Instrument :

MSVOA_N

ClientSampleId :

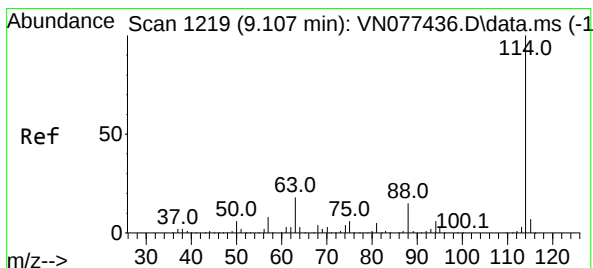
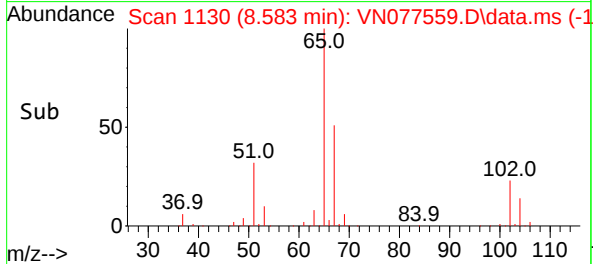
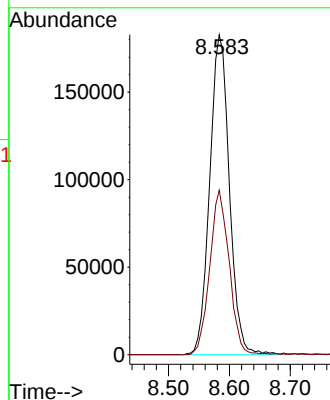
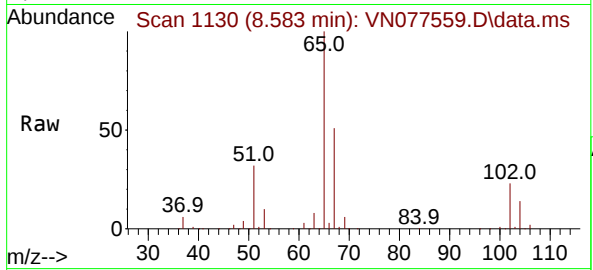
PB152533ZHE#04

Tgt Ion: 65 Resp: 409846

Ion Ratio Lower Upper

65 100

67 50.9 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. -0.000 min

Lab File: VN077559.D

Acq: 03 May 2023 13:43

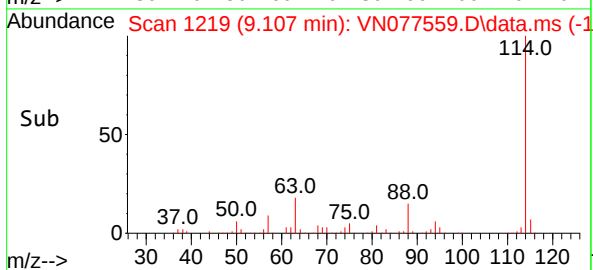
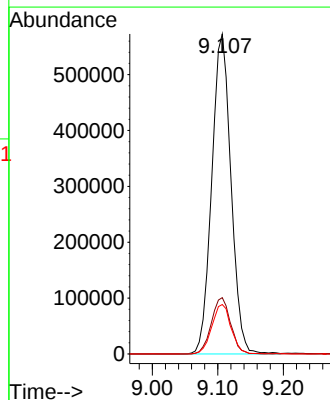
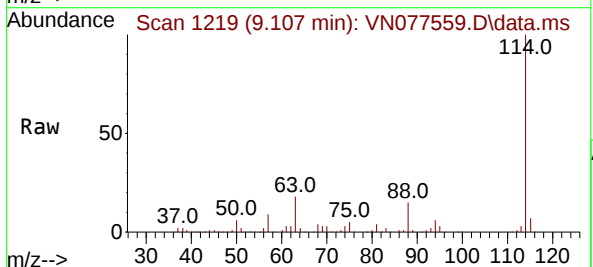
Tgt Ion: 114 Resp: 1166767

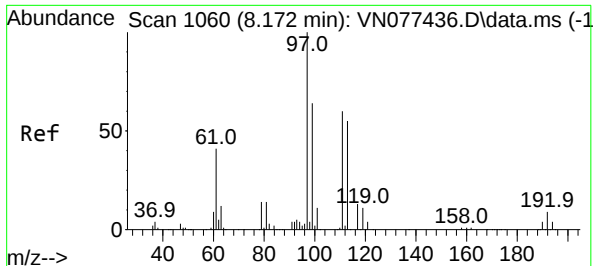
Ion Ratio Lower Upper

114 100

63 17.6 0.0 36.4

88 15.4 0.0 30.6





#35

Dibromofluoromethane

Concen: 50.901 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. -0.000 min

Lab File: VN077559.D

Acq: 03 May 2023 13:43

Instrument :

MSVOA_N

ClientSampleId :

PB152533ZHE#04

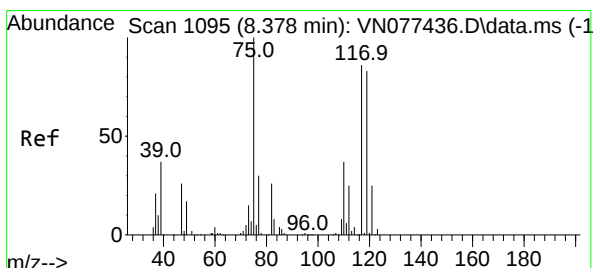
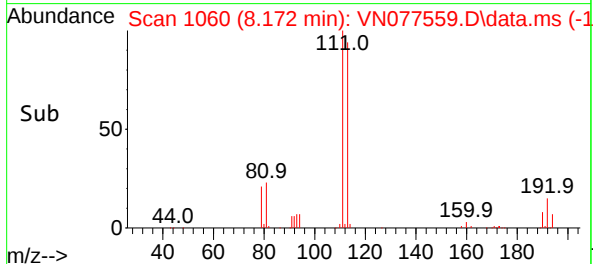
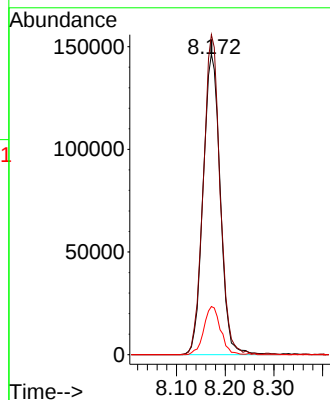
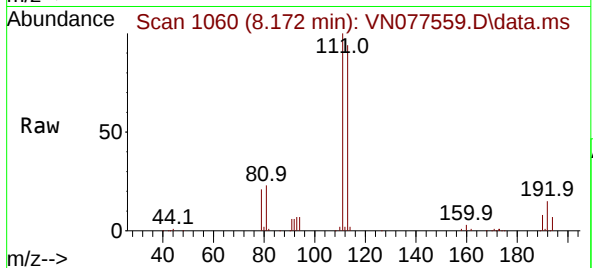
Tgt Ion:113 Resp: 356956

Ion Ratio Lower Upper

113 100

111 104.0 82.6 123.8

192 15.6 12.7 19.1



#36

1,1-Dichloropropene

Concen: 5.148 ug/l

RT: 8.230 min Scan# 1070

Delta R.T. -0.147 min

Lab File: VN077559.D

Acq: 03 May 2023 13:43

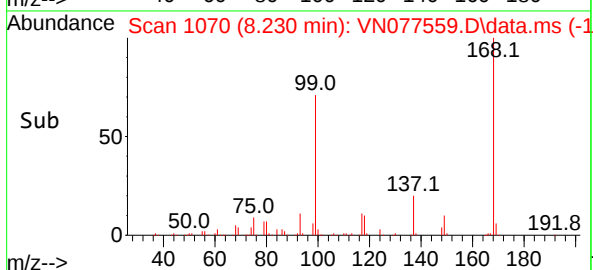
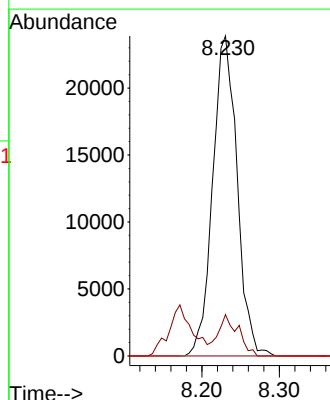
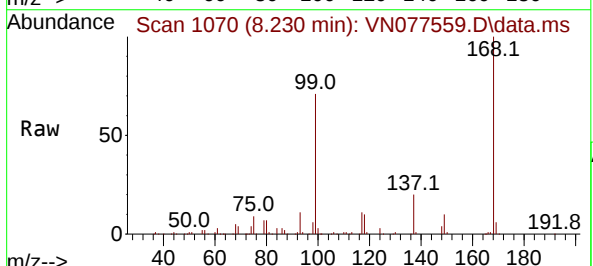
Tgt Ion: 75 Resp: 52154

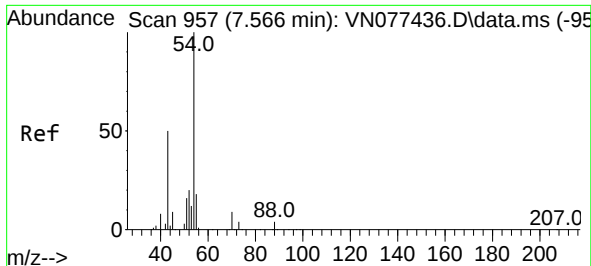
Ion Ratio Lower Upper

75 100

110 10.8 19.1 57.3#

77 0.0 25.0 37.4#

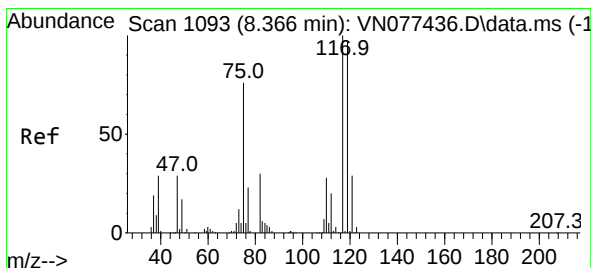
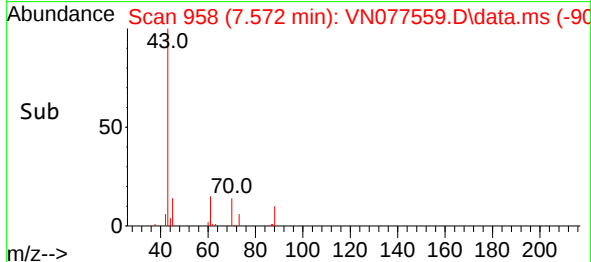
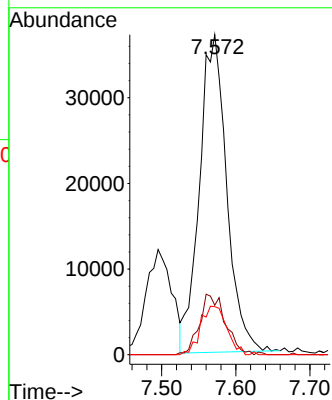
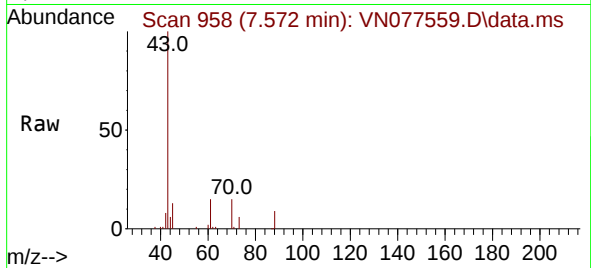




#37
Ethyl Acetate
Concen: 12.291 ug/l
RT: 7.572 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN077559.D
Acq: 03 May 2023 13:43

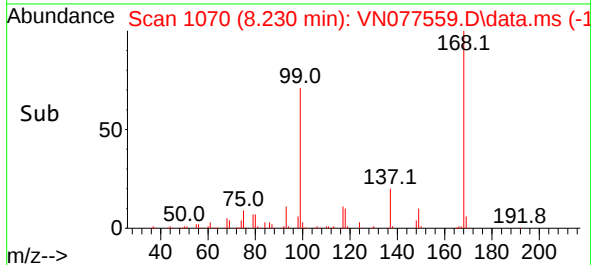
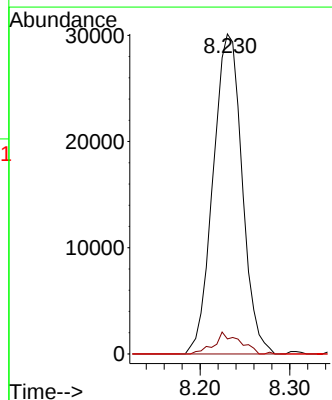
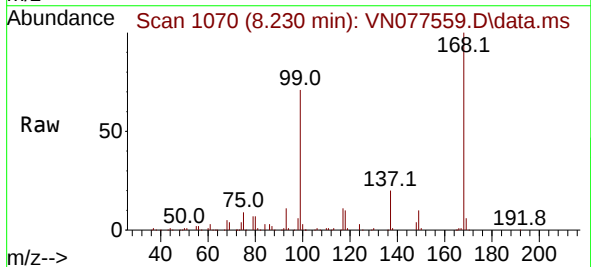
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#04

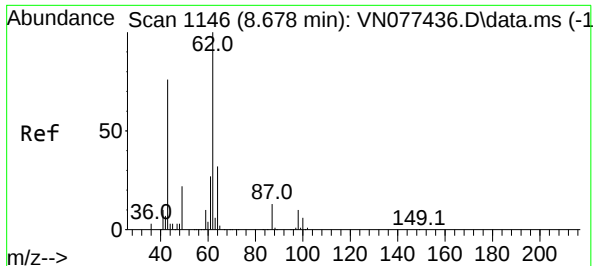
Tgt Ion: 43 Resp: 94626
Ion Ratio Lower Upper
43 100
61 18.0 13.2 19.8
70 14.7 11.3 16.9



#38
Carbon Tetrachloride
Concen: 6.048 ug/l
RT: 8.230 min Scan# 1070
Delta R.T. -0.136 min
Lab File: VN077559.D
Acq: 03 May 2023 13:43

Tgt Ion: 117 Resp: 67607
Ion Ratio Lower Upper
117 100
119 4.7 77.3 115.9#
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.293 ug/l

RT: 8.689 min Scan# 1148

Delta R.T. 0.012 min

Lab File: VN077559.D

Acq: 03 May 2023 13:43

Instrument :

MSVOA_N

ClientSampleId :

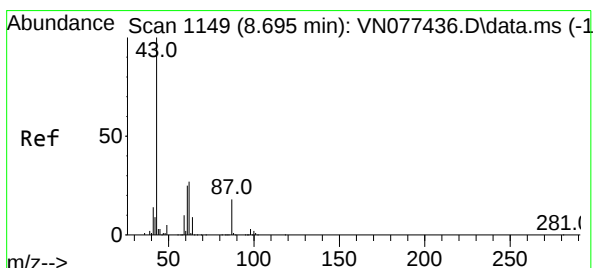
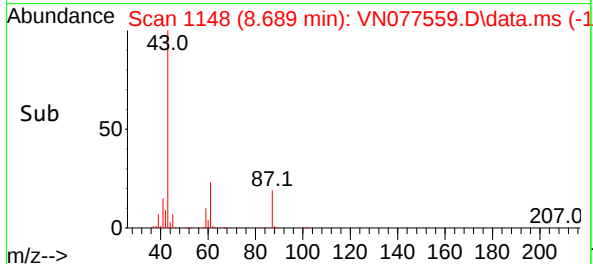
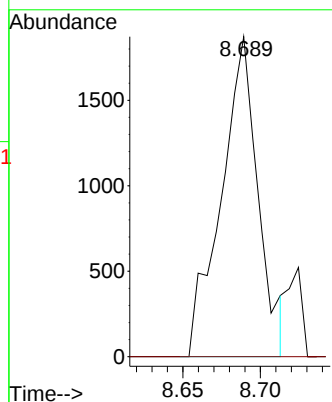
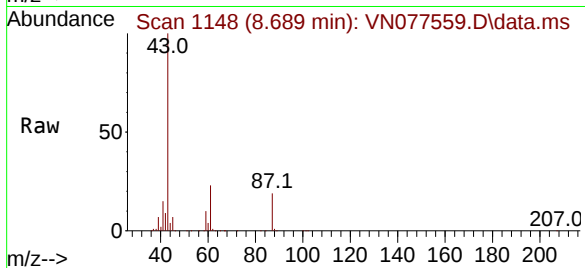
PB152533ZHE#04

Tgt Ion: 62 Resp: 3108

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 33.534 ug/l

RT: 8.695 min Scan# 1149

Delta R.T. -0.000 min

Lab File: VN077559.D

Acq: 03 May 2023 13:43

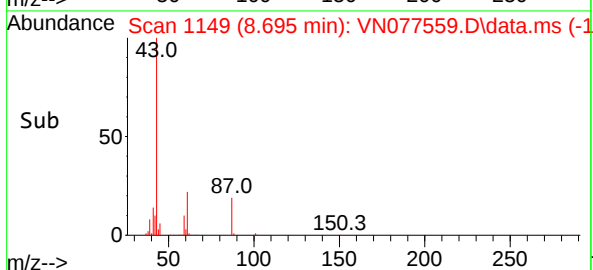
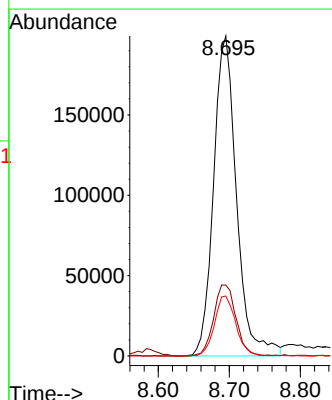
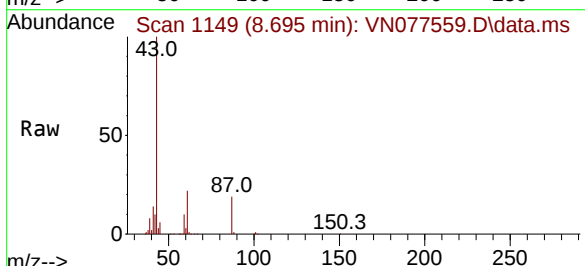
Tgt Ion: 43 Resp: 446634

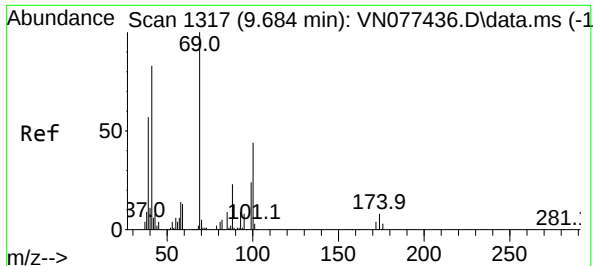
Ion Ratio Lower Upper

43 100

61 21.5 24.7 37.1#

87 17.4 14.6 21.8





#48

Methyl methacrylate

Concen: 2.118 ug/l

RT: 9.660 min Scan# 1317

Delta R.T. -0.024 min

Lab File: VN077559.D

Acq: 03 May 2023 13:43

Instrument :

MSVOA_N

ClientSampleId :

PB152533ZHE#04

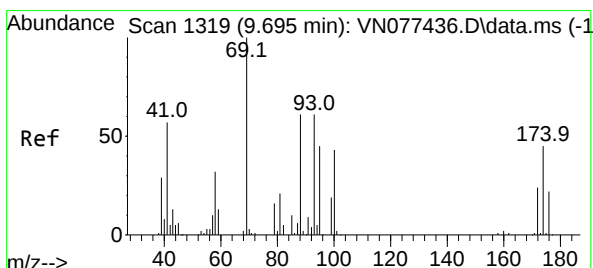
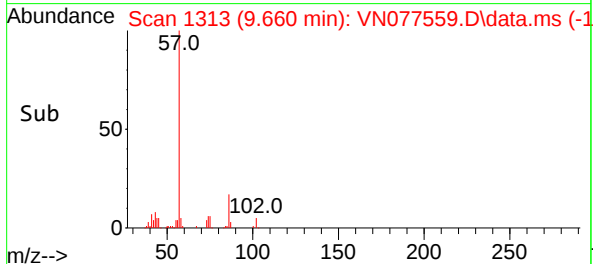
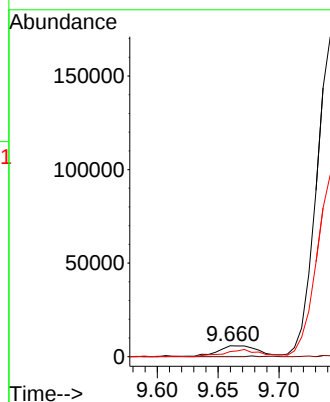
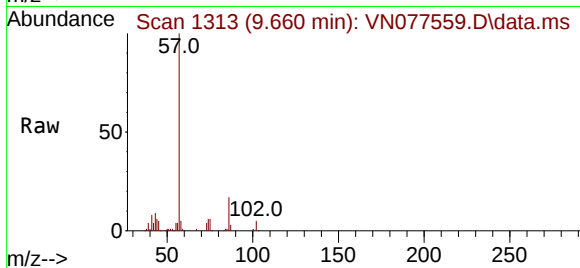
Tgt Ion: 41 Resp: 12843

Ion Ratio Lower Upper

41 100

69 2.5 90.4 135.6#

39 57.6 54.6 81.8



#49

1,4-Dioxane

Concen: 3.084 ug/l

RT: 9.683 min Scan# 1317

Delta R.T. -0.012 min

Lab File: VN077559.D

Acq: 03 May 2023 13:43

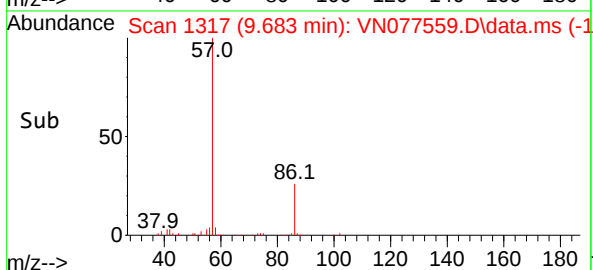
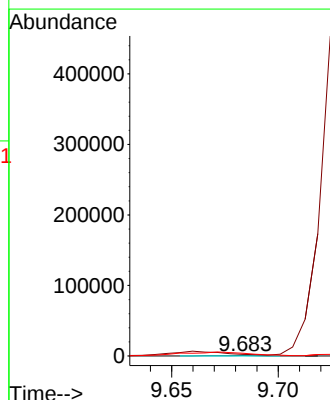
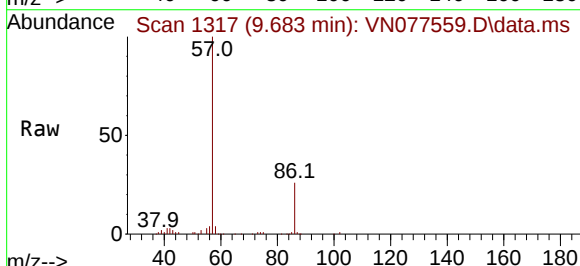
Tgt Ion: 88 Resp: 469

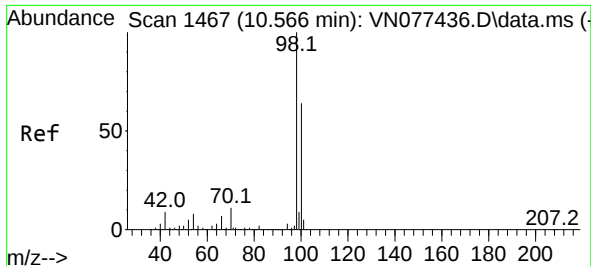
Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 2758.6 47.0 70.4#

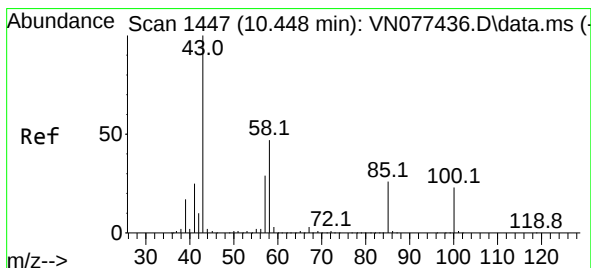
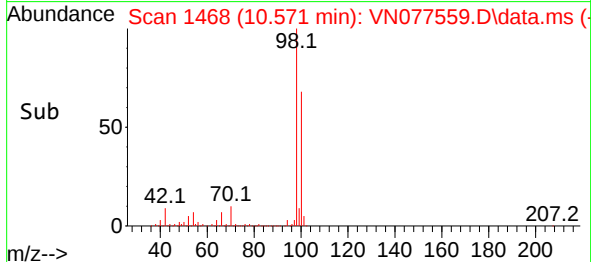
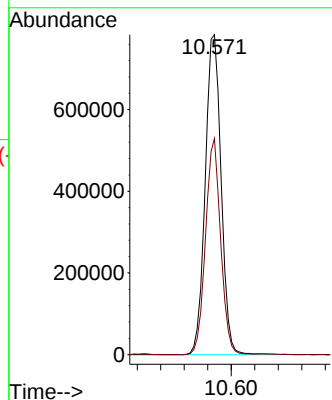
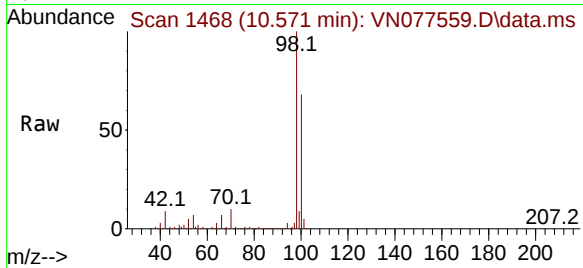




#50
Toluene-d8
Concen: 54.709 ug/l
RT: 10.571 min Scan# 1468
Delta R.T. 0.006 min
Lab File: VN077559.D
Acq: 03 May 2023 13:43

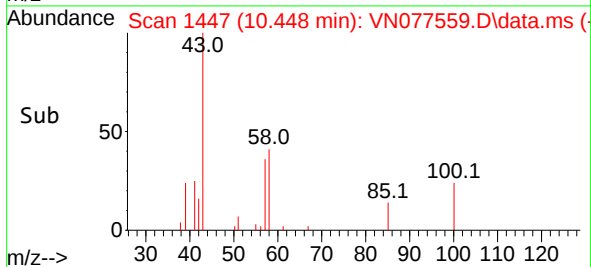
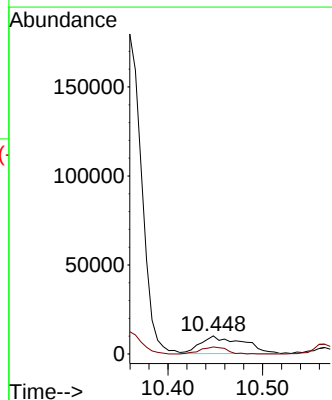
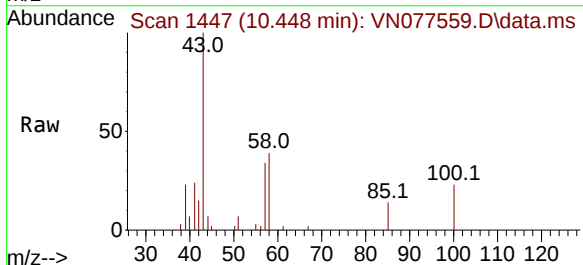
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#04

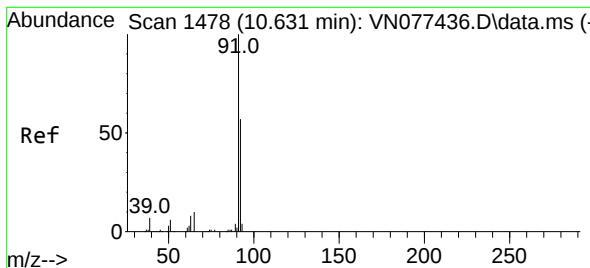
Tgt Ion: 98 Resp: 1470430
Ion Ratio Lower Upper
98 100
100 64.2 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 3.929 ug/l
RT: 10.448 min Scan# 1447
Delta R.T. -0.000 min
Lab File: VN077559.D
Acq: 03 May 2023 13:43

Tgt Ion: 43 Resp: 30697
Ion Ratio Lower Upper
43 100
58 24.8 36.6 54.8#





#52

Toluene

Concen: 0.281 ug/l

RT: 10.624 min Scan# 1477

Delta R.T. -0.006 min

Lab File: VN077559.D

Acq: 03 May 2023 13:43

Instrument :

MSVOA_N

ClientSampleId :

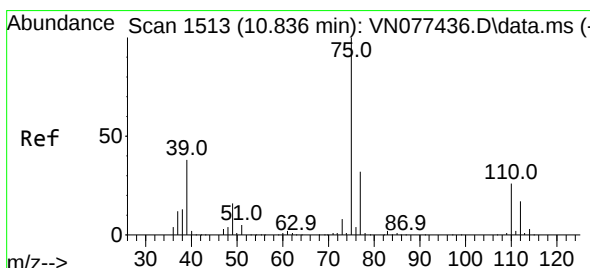
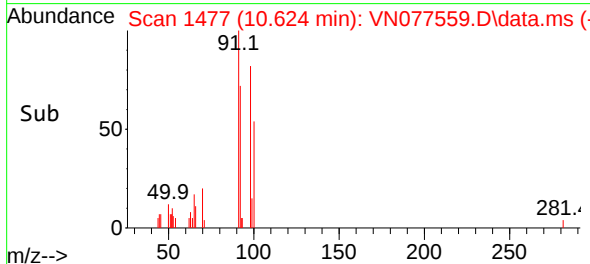
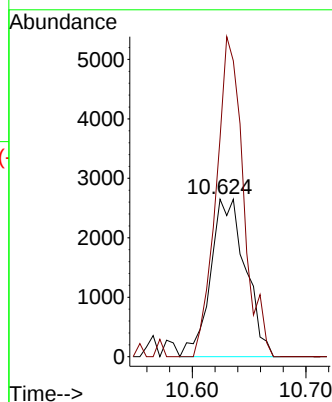
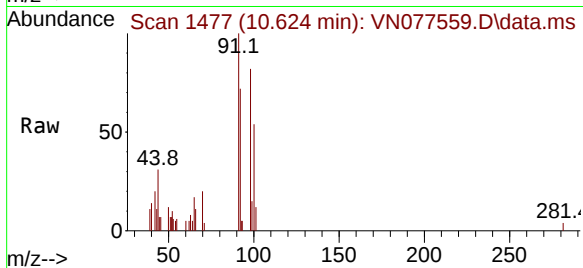
PB152533ZHE#04

Tgt Ion: 92 Resp: 5691

Ion Ratio Lower Upper

92 100

91 157.7 137.4 206.0



#53

t-1,3-Dichloropropene

Concen: 0.331 ug/l

RT: 10.736 min Scan# 1496

Delta R.T. -0.100 min

Lab File: VN077559.D

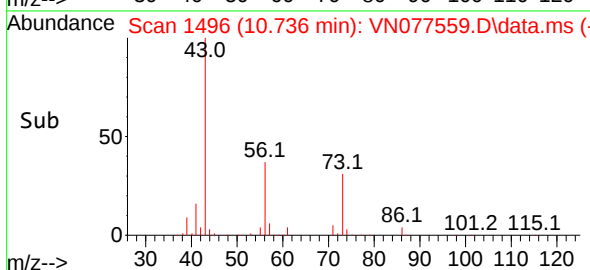
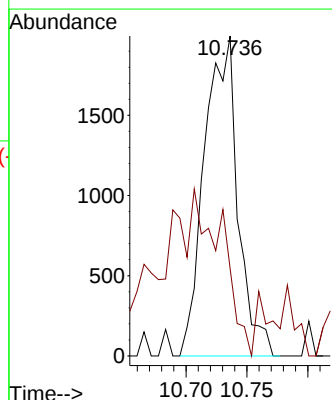
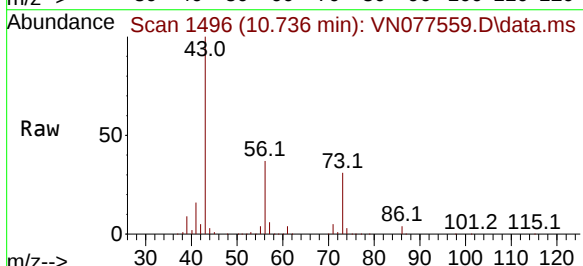
Acq: 03 May 2023 13:43

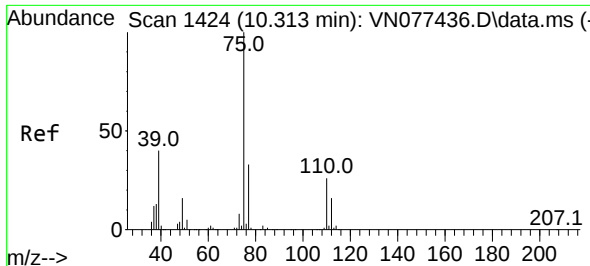
Tgt Ion: 75 Resp: 3801

Ion Ratio Lower Upper

75 100

77 18.8 25.4 38.0#

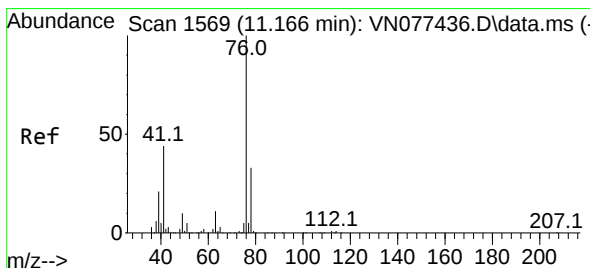
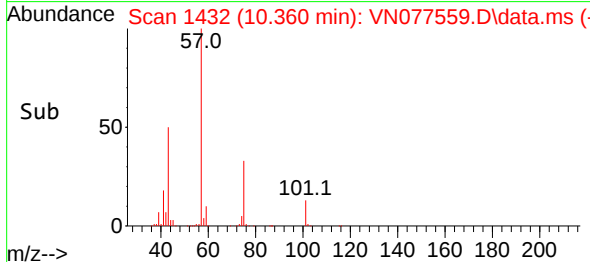
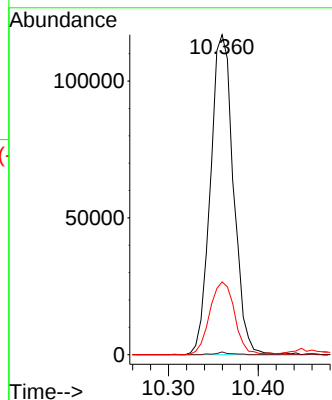
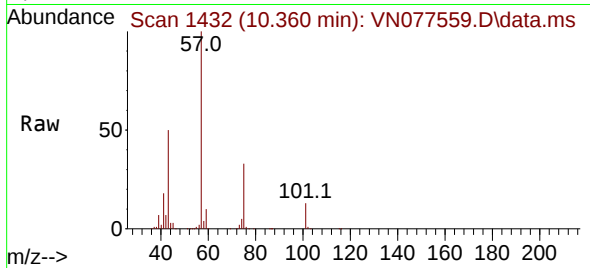




#54
 cis-1,3-Dichloropropene
 Concen: 16.610 ug/l
 RT: 10.360 min Scan# 1424
 Delta R.T. 0.047 min
 Lab File: VN077559.D
 Acq: 03 May 2023 13:43

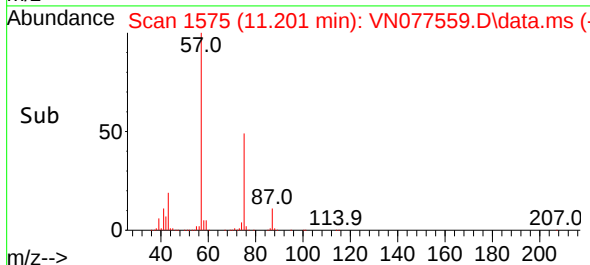
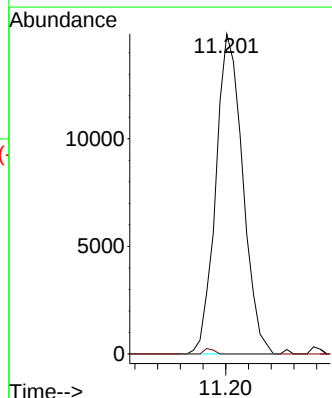
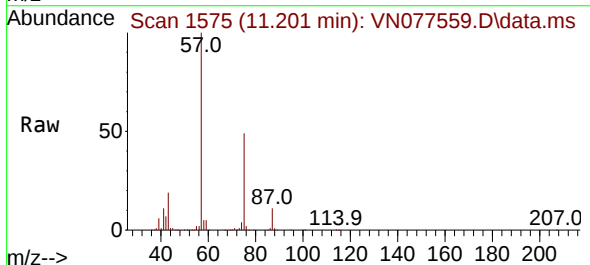
Instrument :
 MSVOA_N
 ClientSampleId :
 PB152533ZHE#04

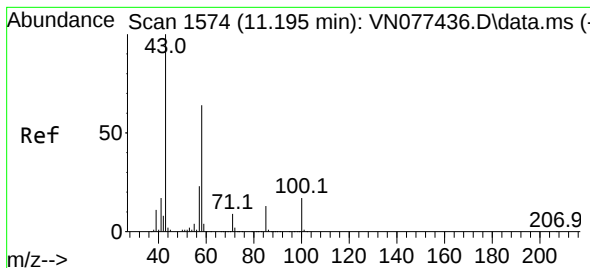
Tgt Ion: 75 Resp: 207743
 Ion Ratio Lower Upper
 75 100
 77 0.9 26.1 39.1#
 39 22.8 31.6 47.4#



#57
 1,3-Dichloropropane
 Concen: 1.892 ug/l
 RT: 11.201 min Scan# 1575
 Delta R.T. 0.035 min
 Lab File: VN077559.D
 Acq: 03 May 2023 13:43

Tgt Ion: 76 Resp: 24506
 Ion Ratio Lower Upper
 76 100
 78 0.6 26.1 39.1#

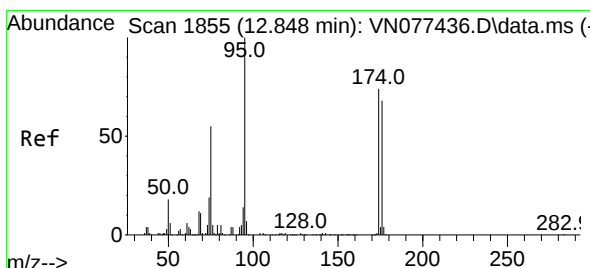
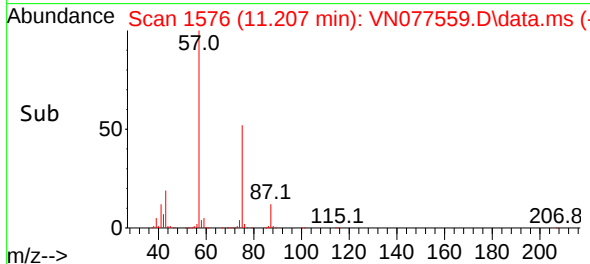
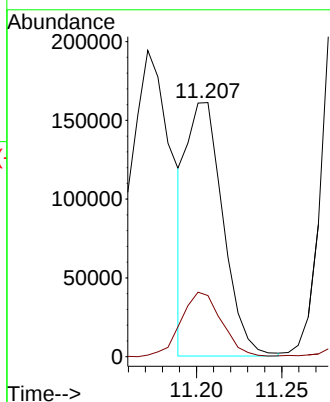
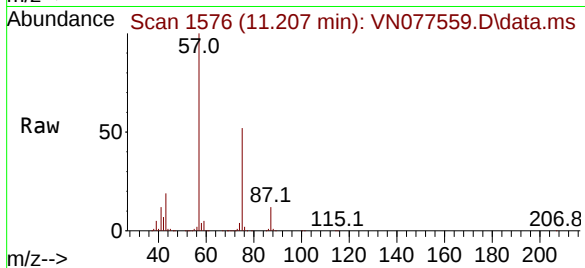




#59
2-Hexanone
Concen: 42.167 ug/l
RT: 11.207 min Scan# 111
Delta R.T. 0.012 min
Lab File: VN077559.D
Acq: 03 May 2023 13:43

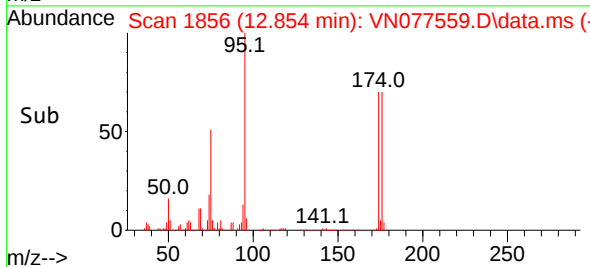
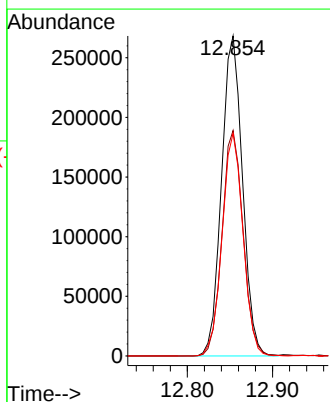
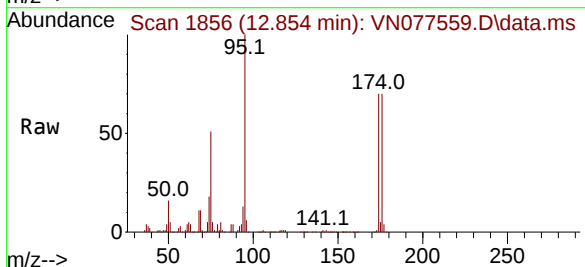
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#04

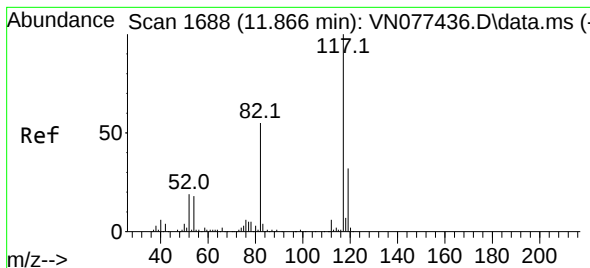
Tgt Ion: 43 Resp: 239447
Ion Ratio Lower Upper
43 100
58 28.5 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 52.174 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077559.D
Acq: 03 May 2023 13:43

Tgt Ion: 95 Resp: 458791
Ion Ratio Lower Upper
95 100
174 70.8 0.0 143.8
176 69.2 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: VN077559.D

Acq: 03 May 2023 13:43

Instrument :

MSVOA_N

ClientSampleId :

PB152533ZHE#04

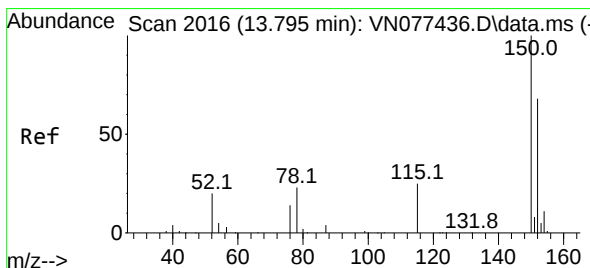
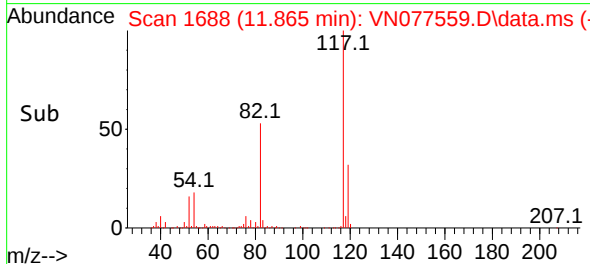
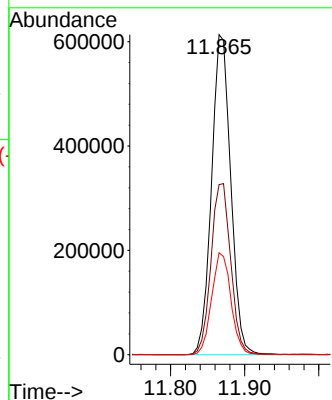
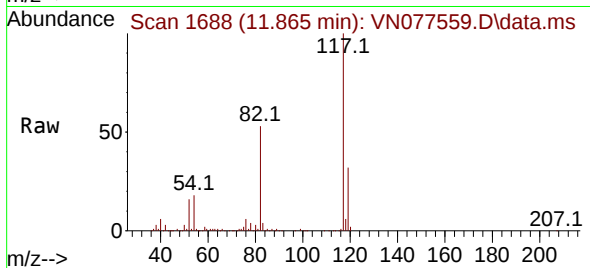
Tgt Ion:117 Resp: 1104916

Ion Ratio Lower Upper

117 100

82 53.1 44.0 66.0

119 31.9 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.795 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN077559.D

Acq: 03 May 2023 13:43

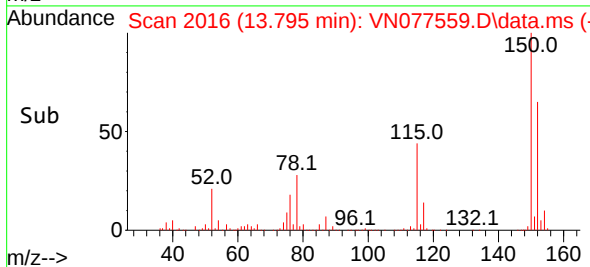
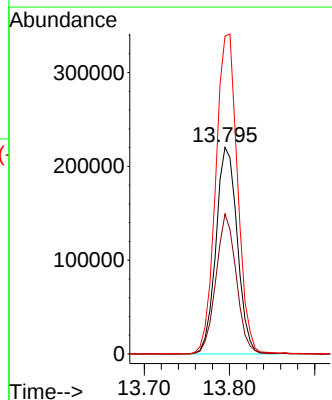
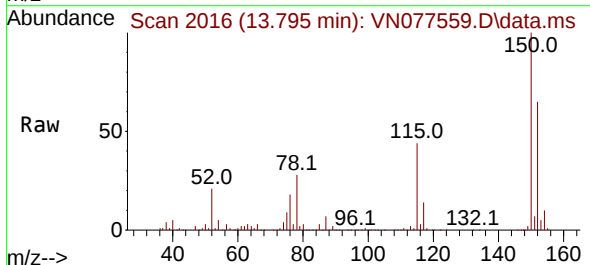
Tgt Ion:152 Resp: 383663

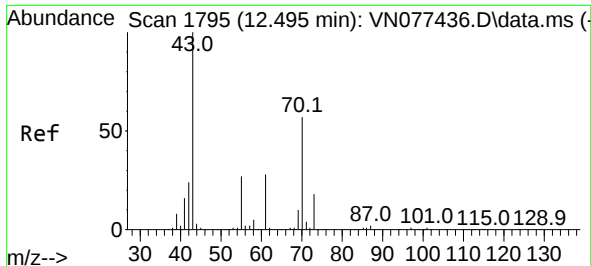
Ion Ratio Lower Upper

152 100

115 64.7 32.3 96.8

150 158.7 0.0 355.8

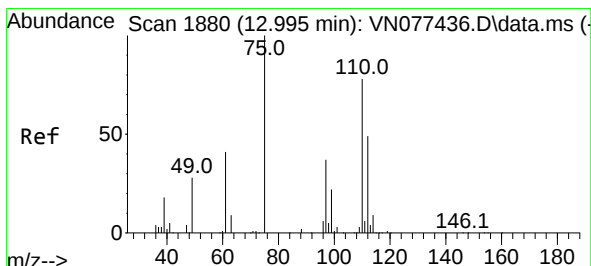
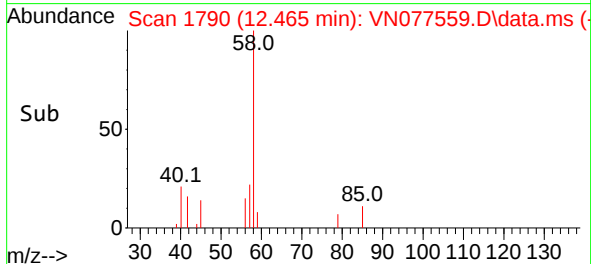
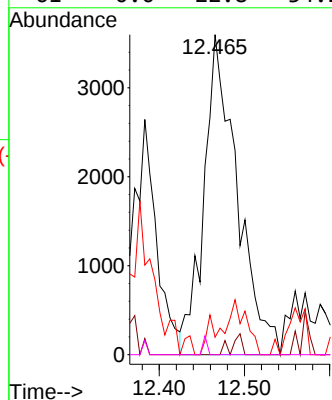
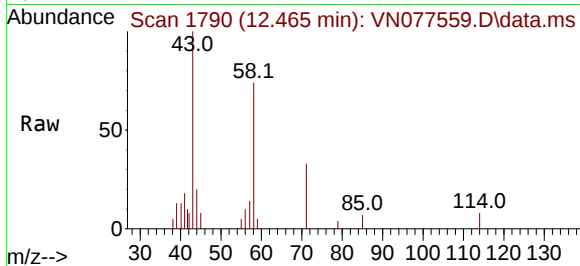




#74
N-amy1 acetate
Concen: 0.927 ug/l
RT: 12.465 min Scan# 11
Delta R.T. -0.030 min
Lab File: VN077559.D
Acq: 03 May 2023 13:43

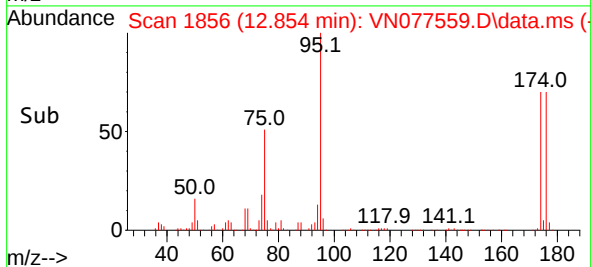
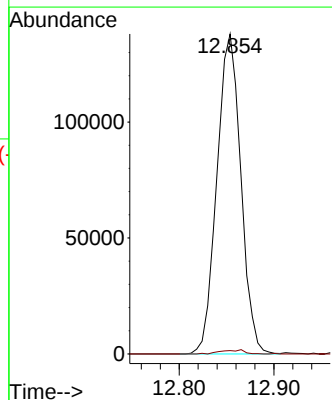
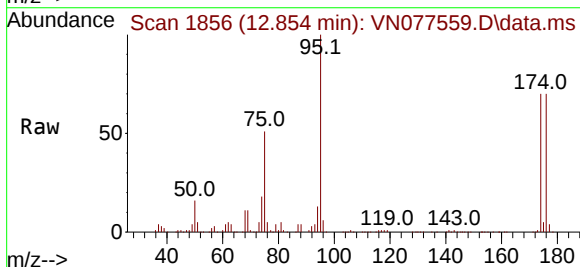
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#04

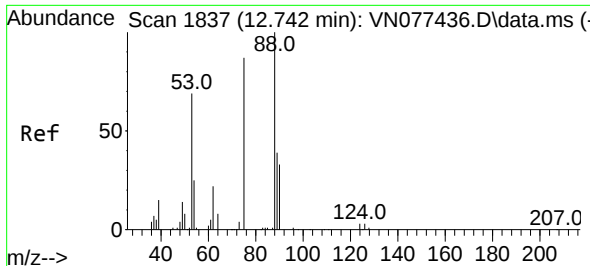
Tgt Ion: 43	Resp: 9767
Ion Ratio	Lower Upper
43 100	
70 0.0	43.4 65.2#
55 4.8	21.4 32.0#
61 0.0	22.8 34.2#



#76
1,2,3-Trichloropropane
Concen: 27.171 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077559.D
Acq: 03 May 2023 13:43

Tgt Ion: 75	Resp: 242415
Ion Ratio	Lower Upper
75 100	
77 1.3	84.5 253.5#

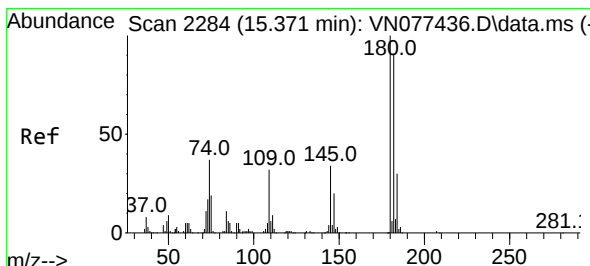
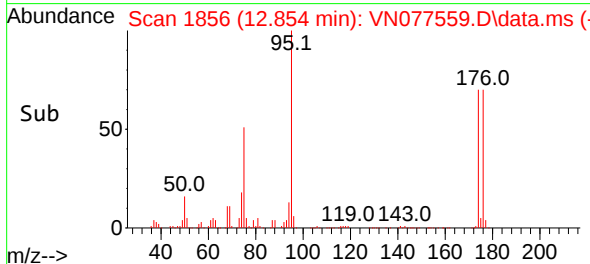
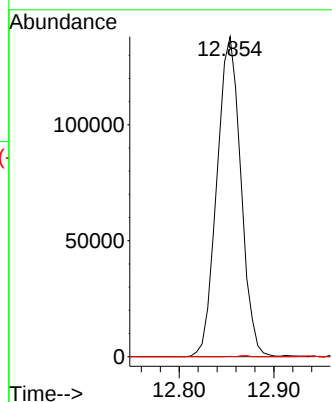
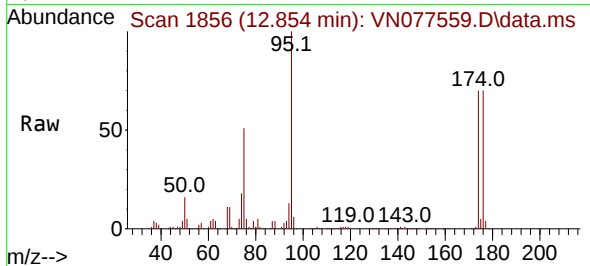




#81
trans-1,4-Dichloro-2-butene
Concen: 76.764 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.112 min
Lab File: VN077559.D
Acq: 03 May 2023 13:43

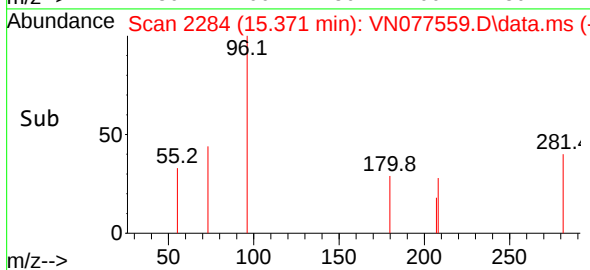
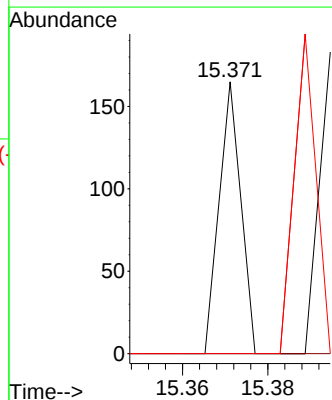
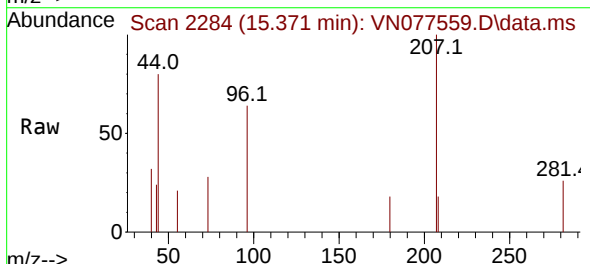
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#04

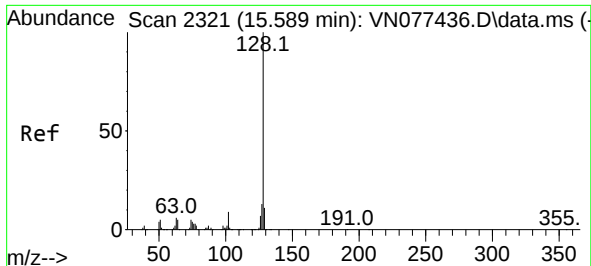
Tgt Ion: 75 Resp: 242415
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.1 38.8 58.2#



#93
1,2,4-Trichlorobenzene
Concen: 0.818 ug/l
RT: 15.371 min Scan# 2284
Delta R.T. 0.000 min
Lab File: VN077559.D
Acq: 03 May 2023 13:43

Tgt Ion:180 Resp: 58
Ion Ratio Lower Upper
180 100
182 0.0 46.1 138.2#
145 0.0 16.6 49.8#

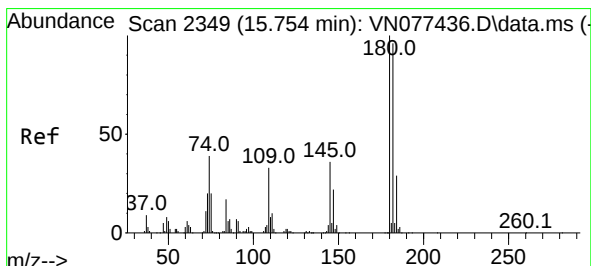
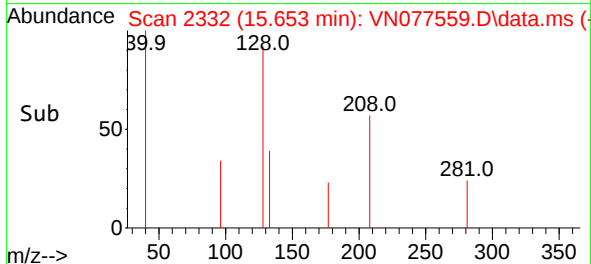
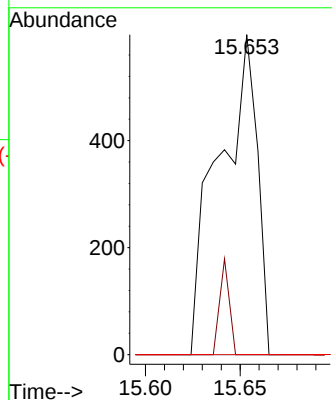
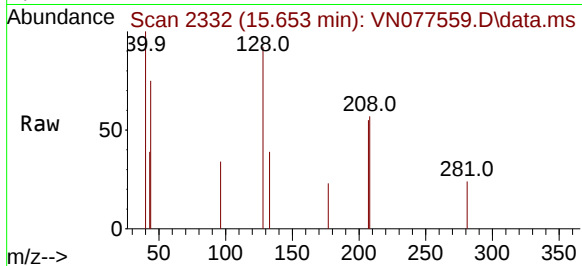




#95
Naphthalene
Concen: 1.223 ug/l
RT: 15.653 min Scan# 21
Delta R.T. 0.064 min
Lab File: VN077559.D
Acq: 03 May 2023 13:43

Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#04

Tgt Ion:128 Resp: 847
Ion Ratio Lower Upper
128 100
127 7.4 10.0 15.0#
129 0.0 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 0.504 ug/l
RT: 15.848 min Scan# 2365
Delta R.T. 0.094 min
Lab File: VN077559.D
Acq: 03 May 2023 13:43

Tgt Ion:180 Resp: 79
Ion Ratio Lower Upper
180 100
182 165.8 46.2 138.6#
145 0.0 17.5 52.6#

