

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092123\
 Data File : VN079321.D
 Acq On : 21 Sep 2023 13:23
 Operator : JC\MD
 Sample : 04501-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 22 02:30:19 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091123W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 12 05:05:24 2023
 Response via : Initial Calibration

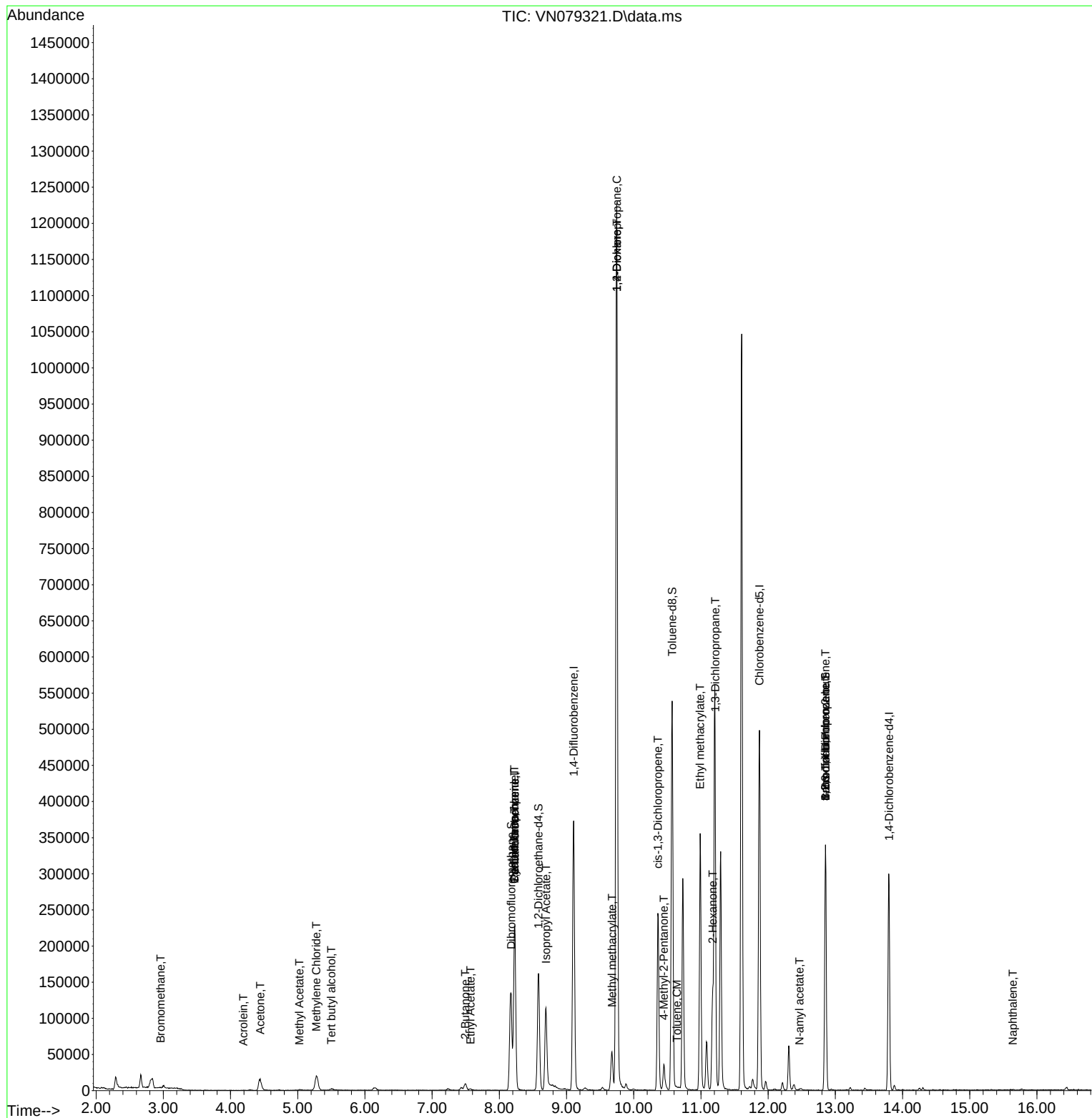
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

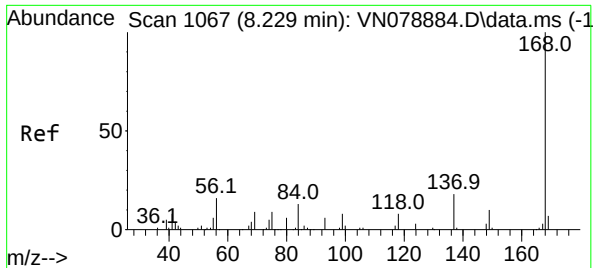
Internal Standards						
1) Pentafluorobenzene	8.230	168	162546	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	312469	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	284859	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	77603	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	130323	59.394	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	118.780%
35) Dibromofluoromethane	8.177	113	101361	48.767	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.540%
50) Toluene-d8	10.571	98	367536	48.158	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	96.320%
62) 4-Bromofluorobenzene	12.853	95	113433	46.596	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	93.200%
Target Compounds						
					Qvalue	
5) Bromomethane	2.959	94	338	0.256	ug/l	98
6) Chloroethane	3.130	64	280	Below Cal	#	43
11) Tert butyl alcohol	5.500	59	1036	2.557	ug/l #	72
13) Acrolein	4.189	56	143	0.370	ug/l #	63
16) Acetone	4.442	43	30816	33.068	ug/l	93
18) Methyl Acetate	5.024	43	2097	0.548	ug/l #	56
20) Methylene Chloride	5.277	84	15515	6.841	ug/l #	81
25) 2-Butanone	7.494	43	15668	11.588	ug/l	88
31) Cyclohexane	8.224	56	4545	1.419	ug/l #	26
36) 1,1-Dichloropropene	8.224	75	14505	4.528	ug/l #	47
37) Ethyl Acetate	7.571	43	3023	0.946	ug/l #	72
38) Carbon Tetrachloride	8.224	117	17830	5.378	ug/l #	14
43) Isopropyl Acetate	8.694	43	132551	25.422	ug/l #	79
45) 1,2-Dichloropropane	9.747	63	1921	0.789	ug/l #	45
48) Methyl methacrylate	9.677	41	3568	1.528	ug/l #	3
49) 1,4-Dioxane	9.747	88	72	1.499	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	29680	9.806	ug/l #	79
52) Toluene	10.641	92	1533	0.254	ug/l	93
54) cis-1,3-Dichloropropene	10.359	75	40865	10.707	ug/l #	70
56) Ethyl methacrylate	10.988	69	1953	0.585	ug/l #	1
57) 1,3-Dichloropropane	11.212	76	5345	1.307	ug/l #	42
58) 2-Chloroethyl Vinyl ether	10.165	63	62	Below Cal	#	42
59) 2-Hexanone	11.177	43	100303	45.754	ug/l #	19
71) Bromoform	12.853	173	915	0.512	ug/l #	1
74) N-amyl acetate	12.465	43	2105	0.786	ug/l #	37
76) 1,2,3-Trichloropropane	12.853	75	63348	30.288	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	63348	83.269	ug/l #	15
95) Naphthalene	15.641	128	840	0.272	ug/l #	70

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

Instrument :
MSVOA_N
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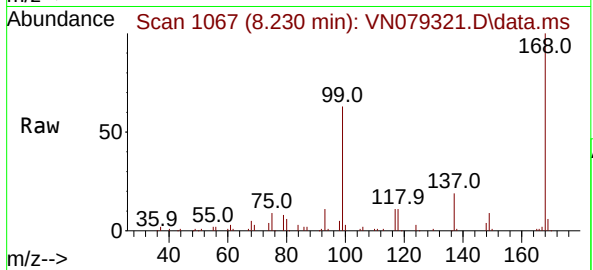
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ClientSampleId :



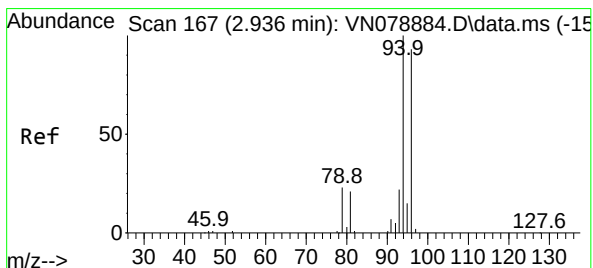
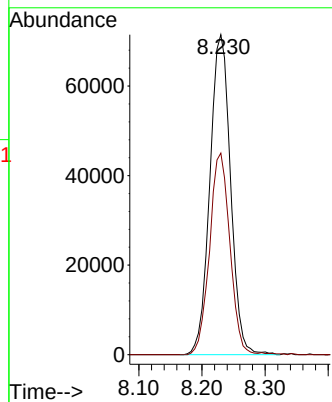
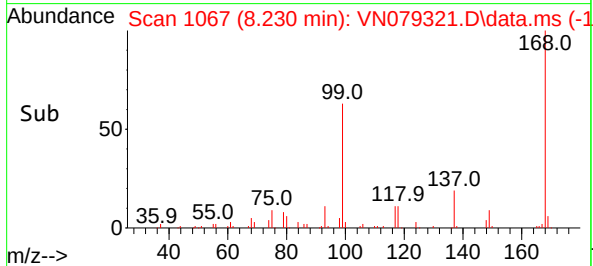


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN079321.D
Acq: 21 Sep 2023 13:23

Instrument :
MSVOA_N
ClientSampleId :

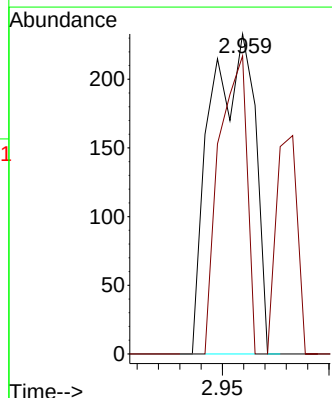
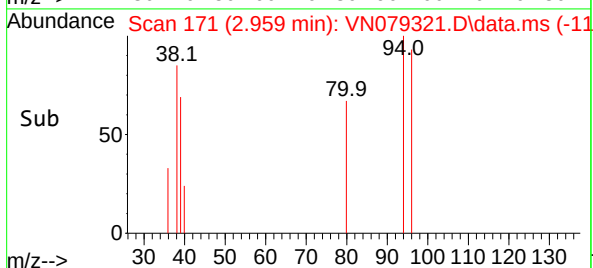
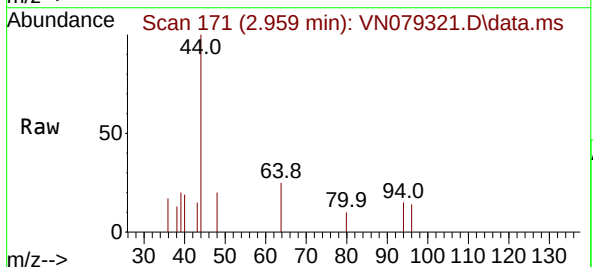


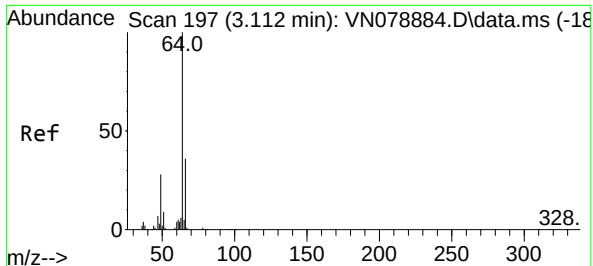
Tgt Ion:168 Resp: 162546
Ion Ratio Lower Upper
168 100
99 63.0 53.0 79.6



#5
Bromomethane
Concen: 0.256 ug/l
RT: 2.959 min Scan# 171
Delta R.T. 0.011 min
Lab File: VN079321.D
Acq: 21 Sep 2023 13:23

Tgt Ion: 94 Resp: 338
Ion Ratio Lower Upper
94 100
96 93.1 73.1 109.7

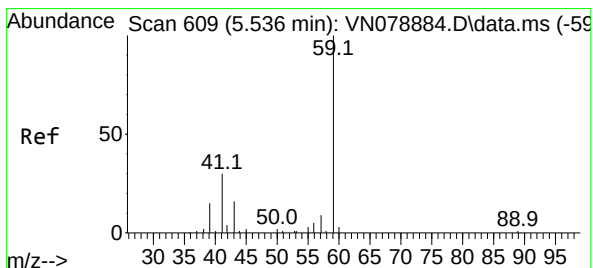
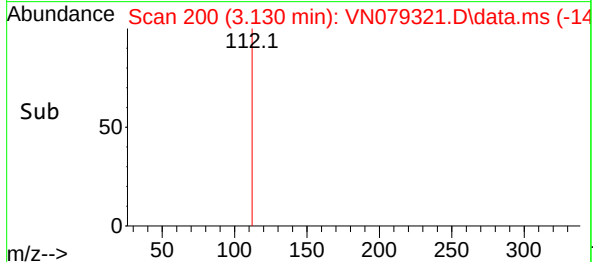
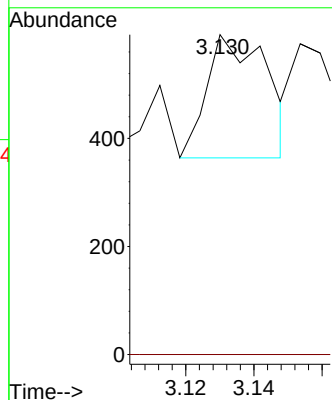
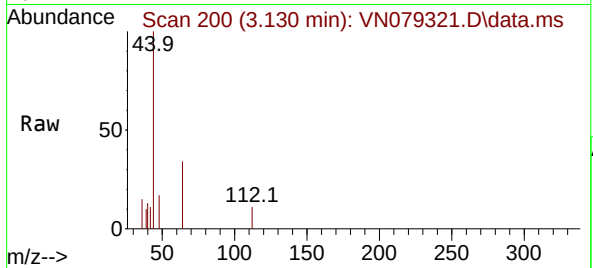




#6
Chloroethane
Concen: Below Cal
RT: 3.130 min Scan# 20
Delta R.T. 0.012 min
Lab File: VN079321.D
Acq: 21 Sep 2023 13:23

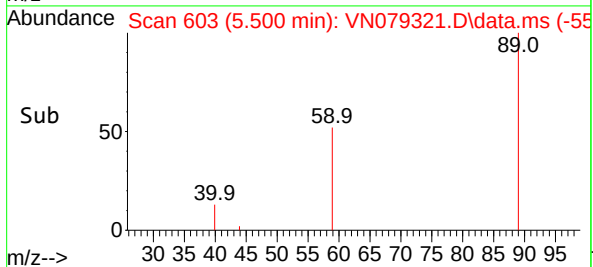
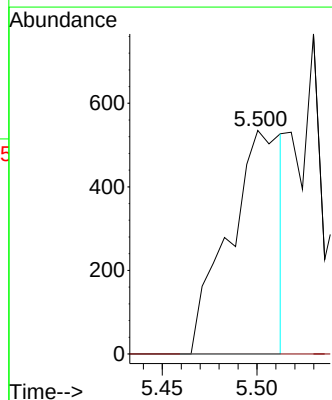
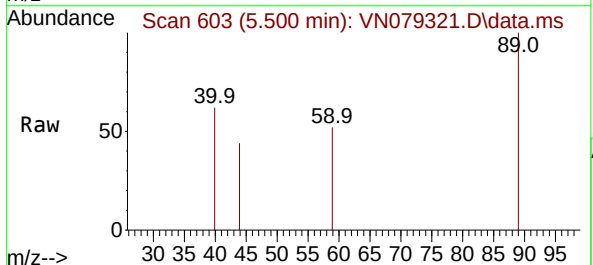
Instrument :
MSVOA_N
ClientSampleId :

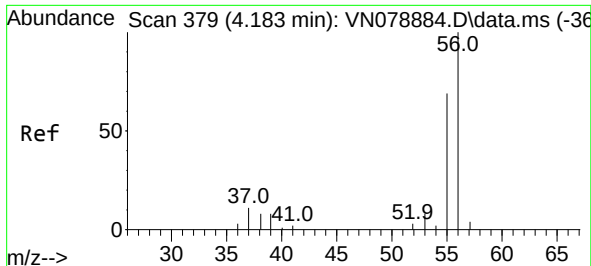
Tgt Ion: 64 Resp: 280
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 2.557 ug/l
RT: 5.500 min Scan# 603
Delta R.T. -0.042 min
Lab File: VN079321.D
Acq: 21 Sep 2023 13:23

Tgt Ion: 59 Resp: 1036
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

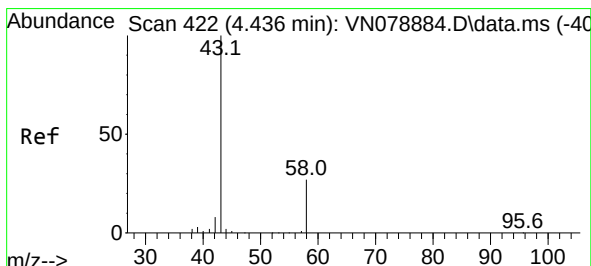
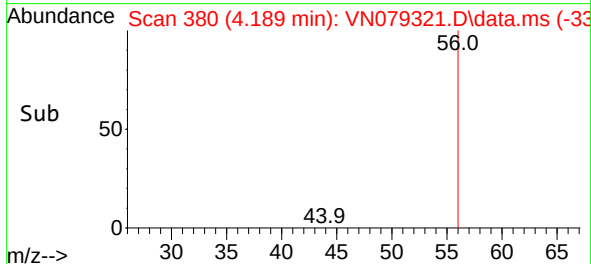
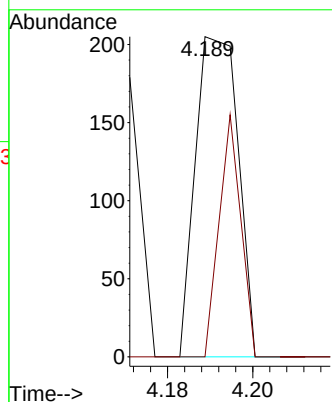
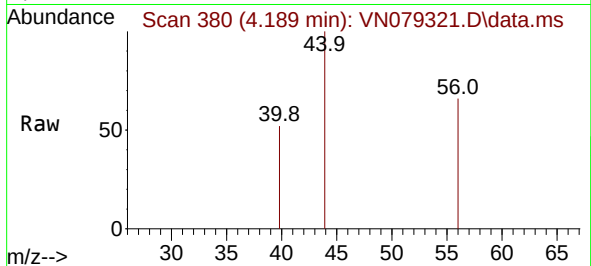




#13
Acrolein
Concen: 0.370 ug/l
RT: 4.189 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN079321.D
Acq: 21 Sep 2023 13:23

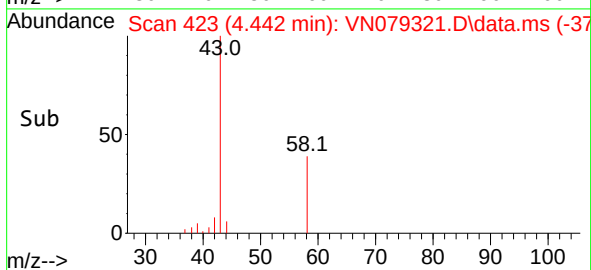
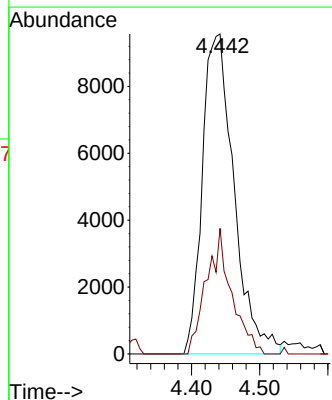
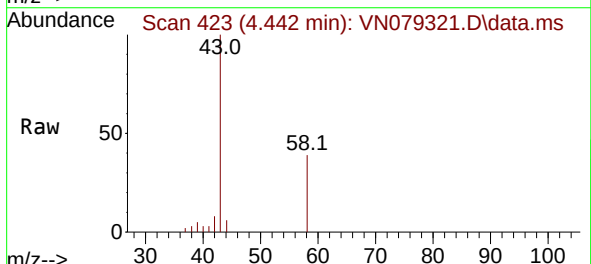
Instrument :
MSVOA_N
ClientSampleId :

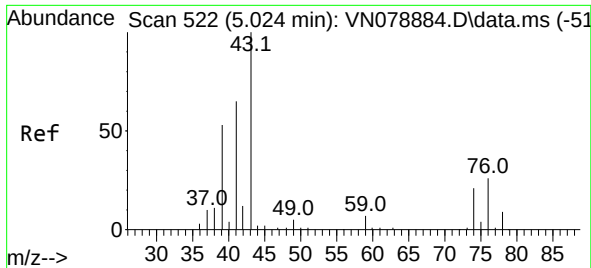
Tgt Ion: 56 Resp: 143
Ion Ratio Lower Upper
56 100
55 38.5 54.5 81.7#



#16
Acetone
Concen: 33.068 ug/l
RT: 4.442 min Scan# 423
Delta R.T. -0.000 min
Lab File: VN079321.D
Acq: 21 Sep 2023 13:23

Tgt Ion: 43 Resp: 30816
Ion Ratio Lower Upper
43 100
58 39.3 28.0 42.0

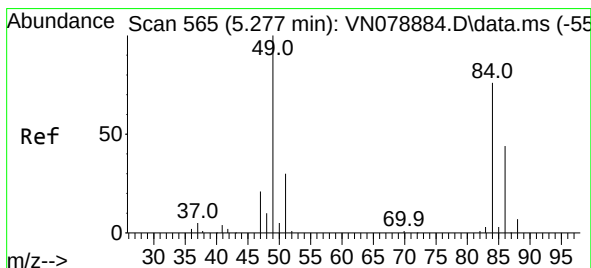
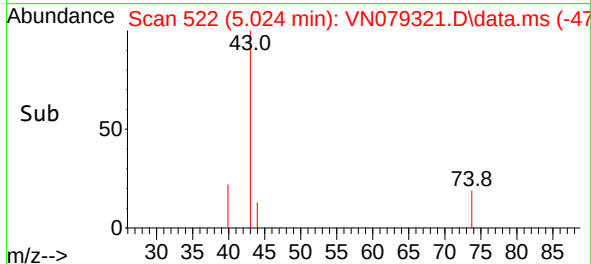
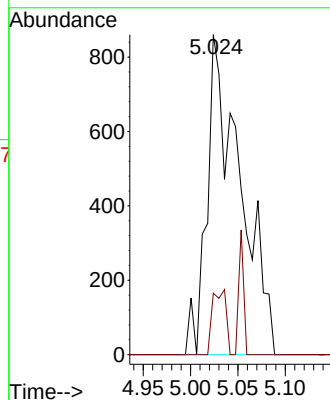
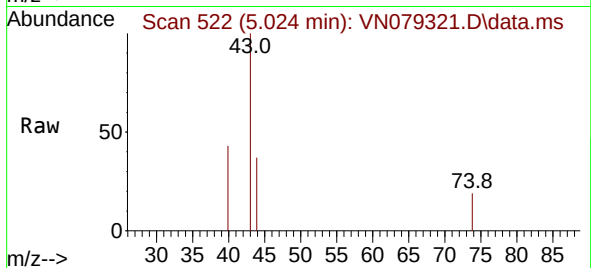




#18
Methyl Acetate
Concen: 0.548 ug/l
RT: 5.024 min Scan# 51
Delta R.T. -0.018 min
Lab File: VN079321.D
Acq: 21 Sep 2023 13:23

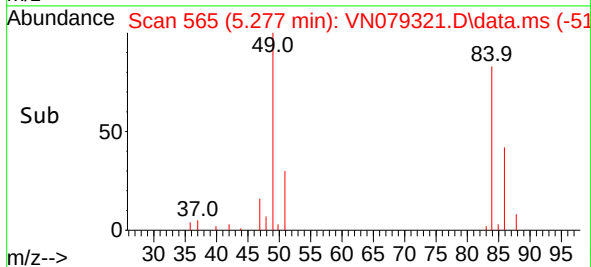
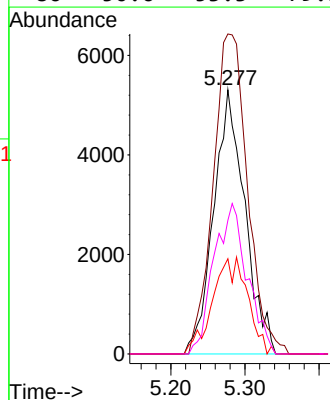
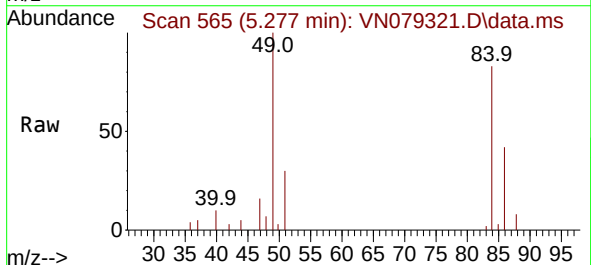
Instrument :
MSVOA_N
ClientSampleId :

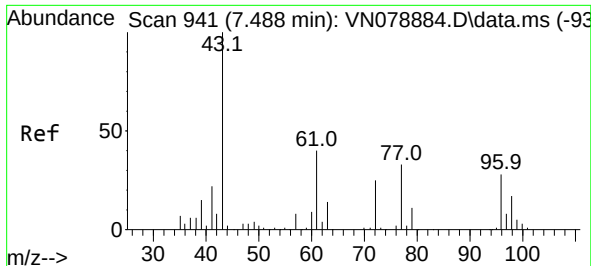
Tgt Ion: 43 Resp: 2097
Ion Ratio Lower Upper
43 100
74 8.2 26.2 39.4#



#20
Methylene Chloride
Concen: 6.841 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.006 min
Lab File: VN079321.D
Acq: 21 Sep 2023 13:23

Tgt Ion: 84 Resp: 15515
Ion Ratio Lower Upper
84 100
49 121.2 79.7 119.5#
51 36.0 25.2 37.8
86 50.6 53.3 79.9#

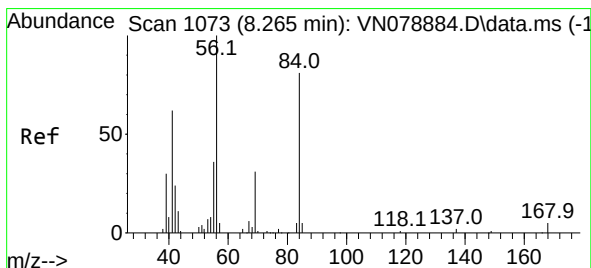
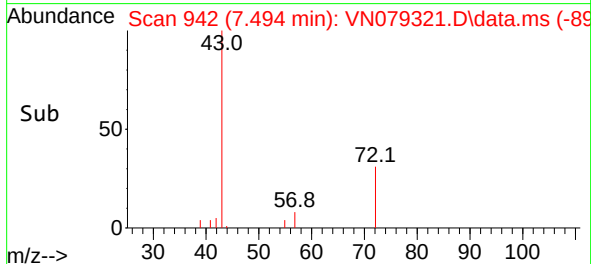
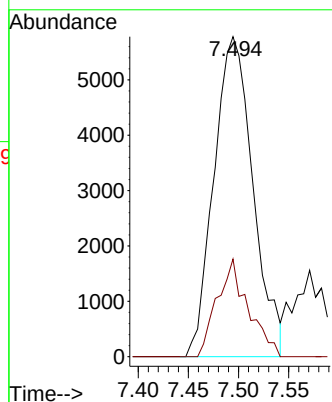
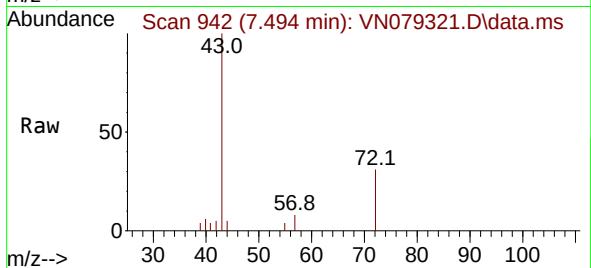




#25
2-Butanone
Concen: 11.588 ug/l
RT: 7.494 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN079321.D
Acq: 21 Sep 2023 13:23

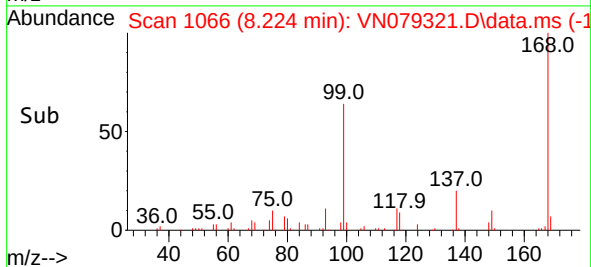
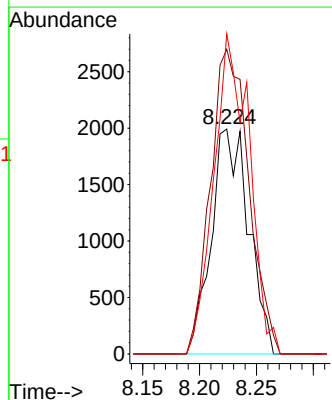
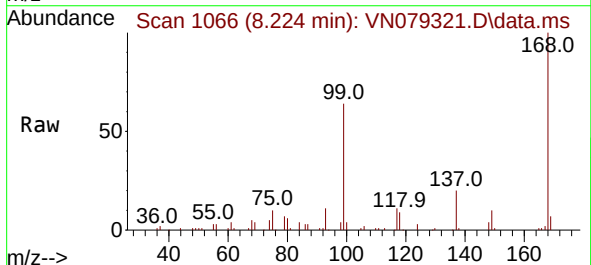
Instrument :
MSVOA_N
ClientSampleId :

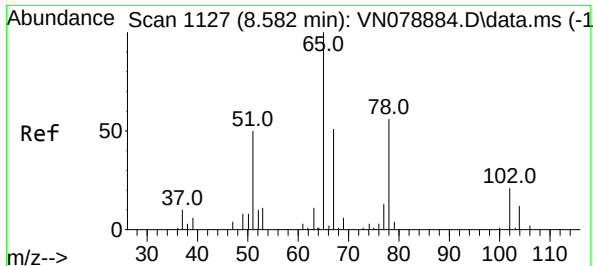
Tgt Ion: 43 Resp: 15668
Ion Ratio Lower Upper
43 100
72 30.5 30.2 45.2



#31
Cyclohexane
Concen: 1.419 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.041 min
Lab File: VN079321.D
Acq: 21 Sep 2023 13:23

Tgt Ion: 56 Resp: 4545
Ion Ratio Lower Upper
56 100
69 135.4 26.8 40.2#
84 142.2 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 59.394 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN079321.D

Acq: 21 Sep 2023 13:23

Instrument :

MSVOA_N

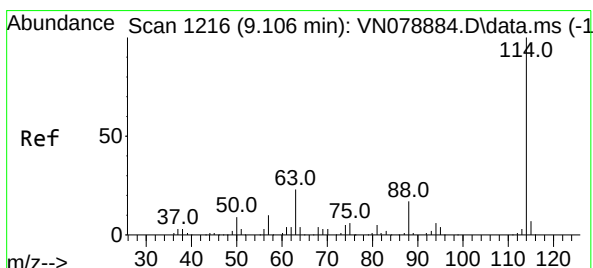
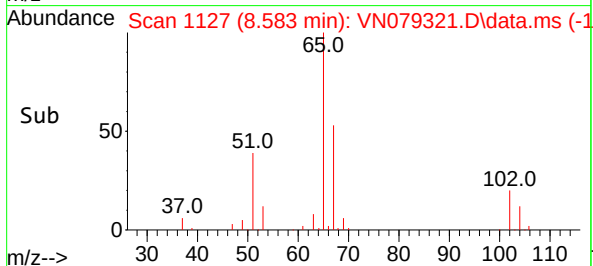
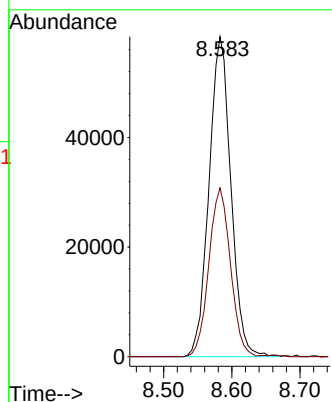
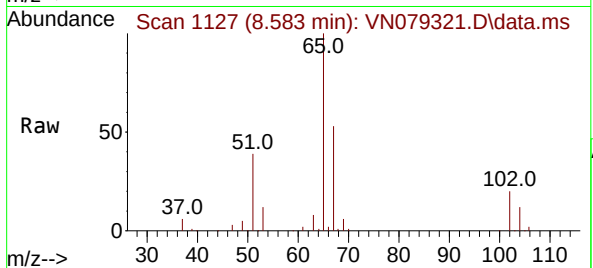
ClientSampleId :

Tgt Ion: 65 Resp: 130323

Ion Ratio Lower Upper

65 100

67 52.1 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.006 min

Lab File: VN079321.D

Acq: 21 Sep 2023 13:23

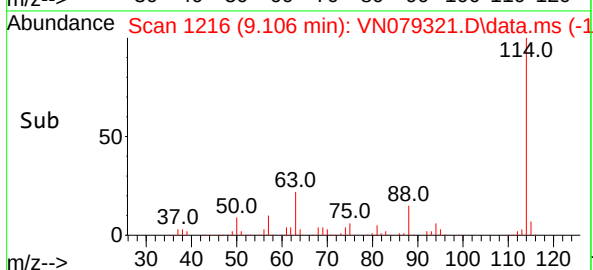
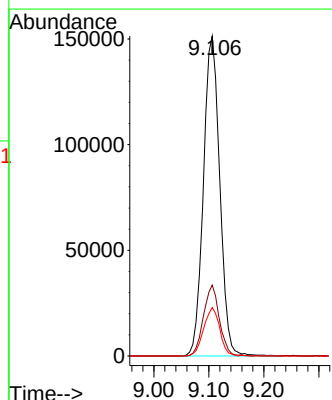
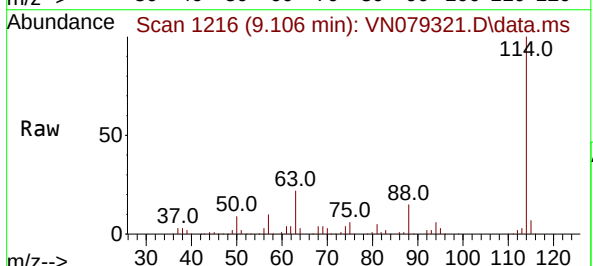
Tgt Ion: 114 Resp: 312469

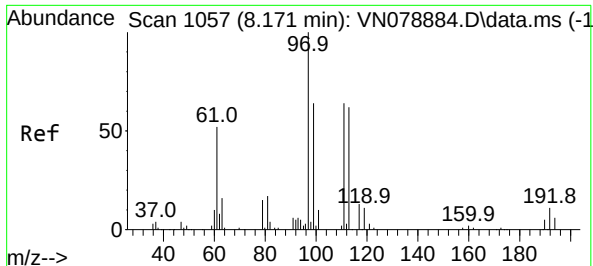
Ion Ratio Lower Upper

114 100

63 22.2 0.0 36.4

88 15.1 0.0 30.6





#35

Dibromofluoromethane

Concen: 48.767 ug/l

RT: 8.177 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN079321.D

Acq: 21 Sep 2023 13:23

Instrument :

MSVOA_N

ClientSampleId :

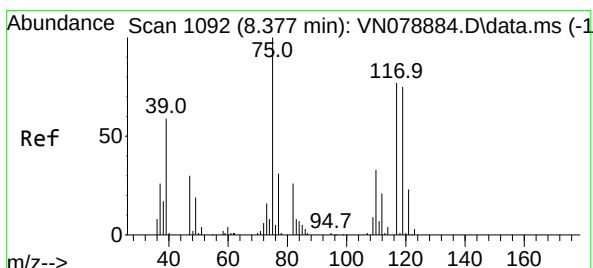
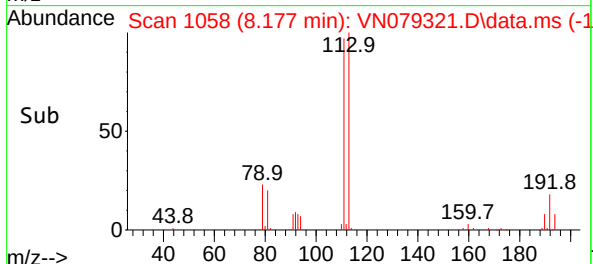
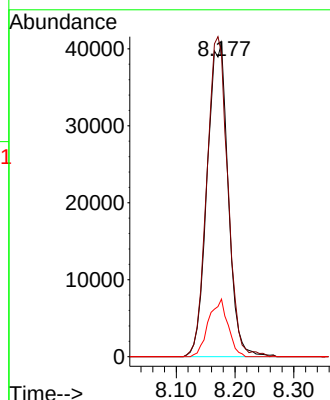
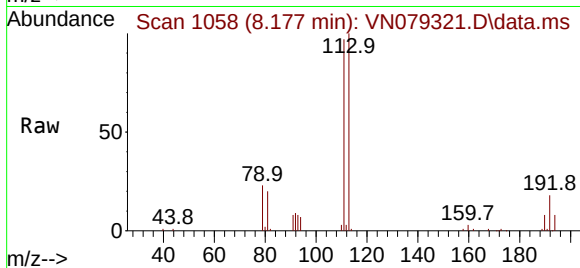
Tgt Ion:113 Resp: 101361

Ion Ratio Lower Upper

113 100

111 101.5 82.6 123.8

192 17.0 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.528 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.153 min

Lab File: VN079321.D

Acq: 21 Sep 2023 13:23

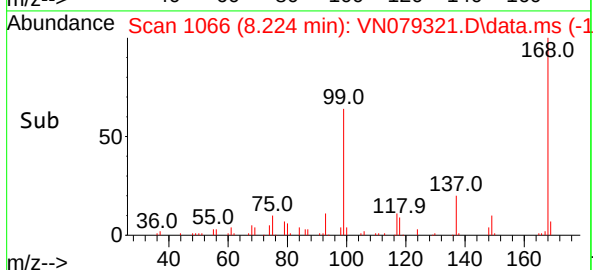
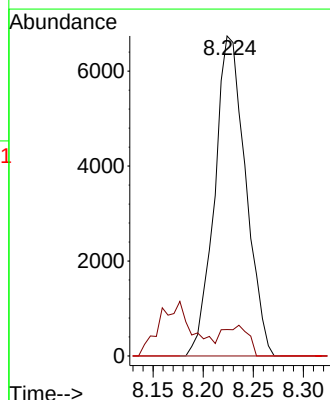
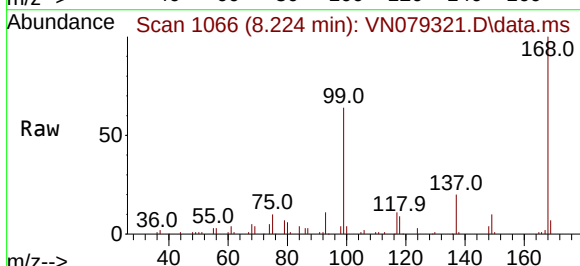
Tgt Ion: 75 Resp: 14505

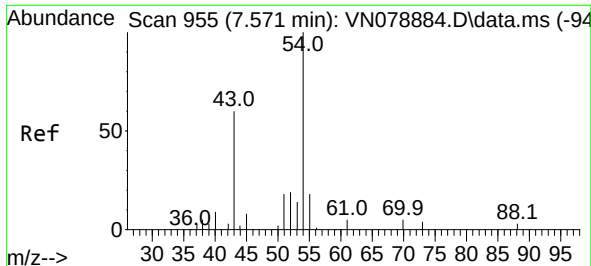
Ion Ratio Lower Upper

75 100

110 7.9 19.1 57.3#

77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 0.946 ug/l

RT: 7.571 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN079321.D

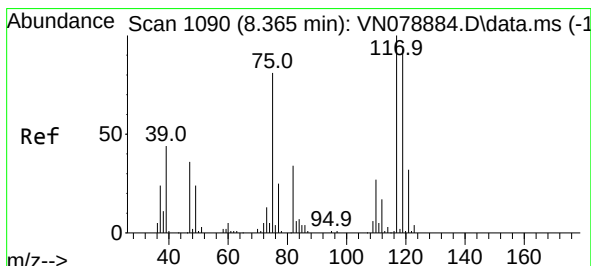
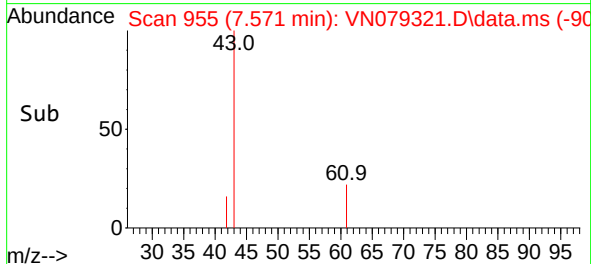
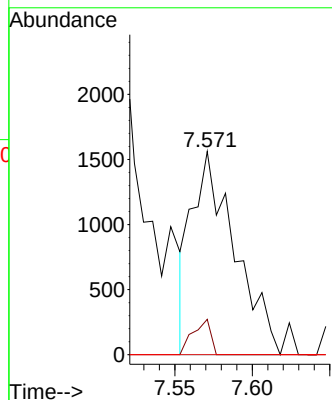
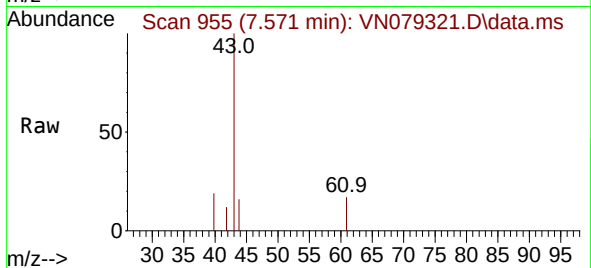
Acq: 21 Sep 2023 13:23

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	43	Resp:	3023
Ion	Ratio	Lower	Upper
43	100		
61	7.2	13.2	19.8#
70	0.0	11.3	16.9#



#38

Carbon Tetrachloride

Concen: 5.378 ug/l

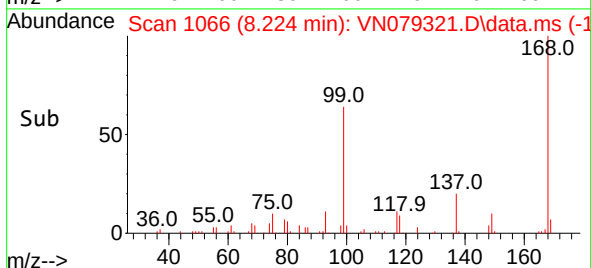
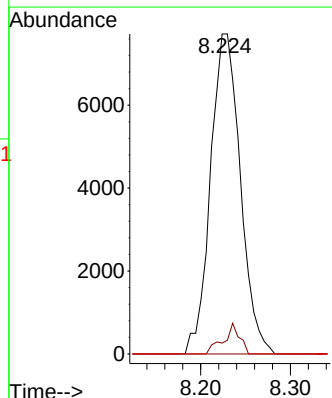
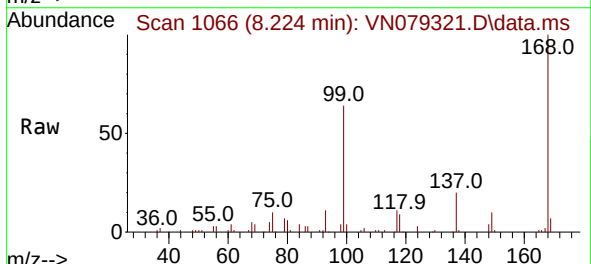
RT: 8.224 min Scan# 1066

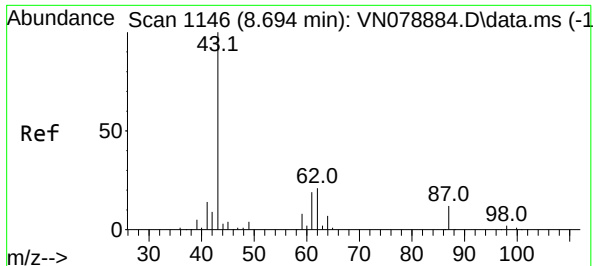
Delta R.T. -0.147 min

Lab File: VN079321.D

Acq: 21 Sep 2023 13:23

Tgt Ion:	117	Resp:	17830
Ion	Ratio	Lower	Upper
117	100		
119	3.4	77.3	115.9#
121	0.0	23.3	34.9#





#43

Isopropyl Acetate

Concen: 25.422 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN079321.D

Acq: 21 Sep 2023 13:23

Instrument :

MSVOA_N

ClientSampleId :

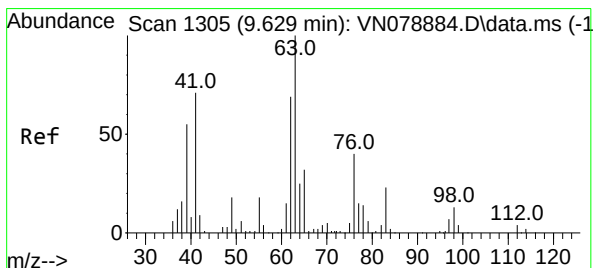
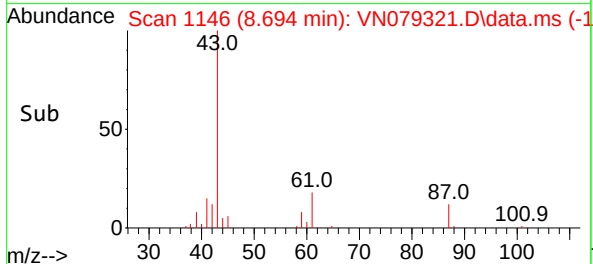
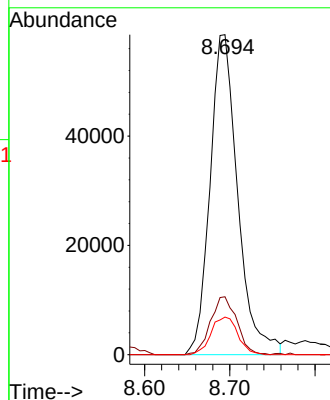
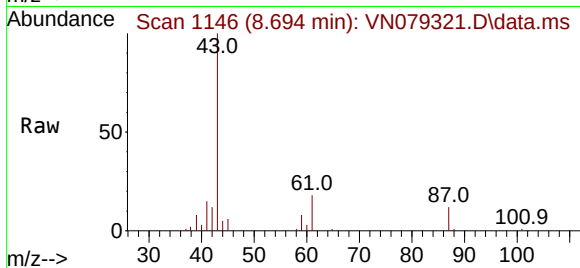
Tgt Ion: 43 Resp: 132551

Ion Ratio Lower Upper

43 100

61 17.2 24.7 37.1#

87 11.3 14.6 21.8#



#45

1,2-Dichloropropane

Concen: 0.789 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.123 min

Lab File: VN079321.D

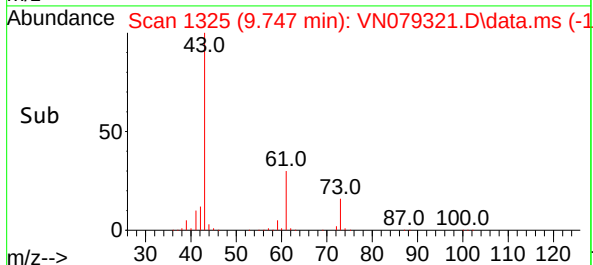
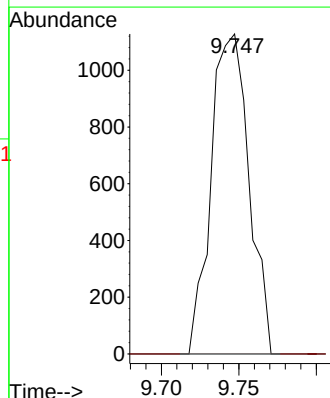
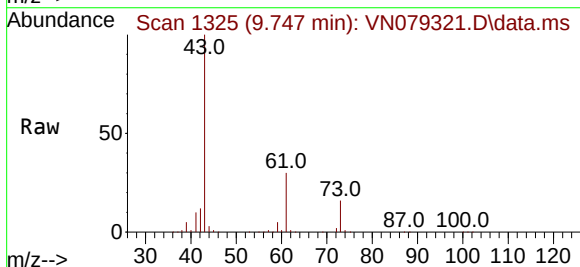
Acq: 21 Sep 2023 13:23

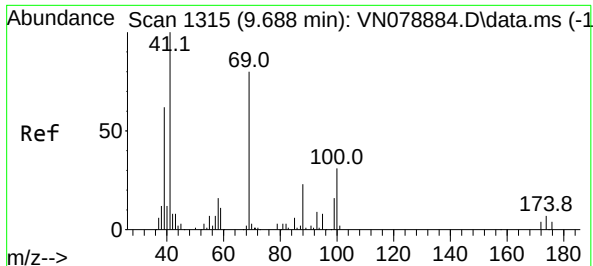
Tgt Ion: 63 Resp: 1921

Ion Ratio Lower Upper

63 100

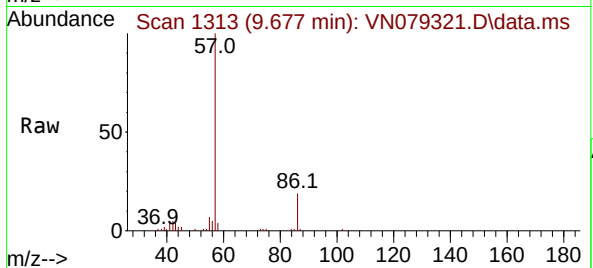
65 0.0 23.9 35.9#



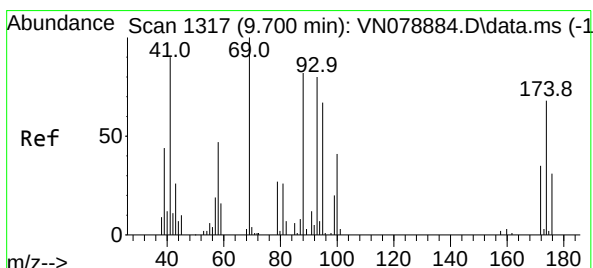
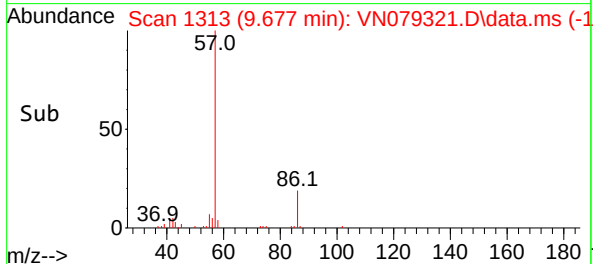
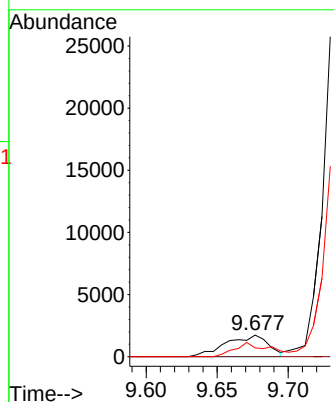


#48
Methyl methacrylate
Concen: 1.528 ug/l
RT: 9.677 min Scan# 11
Delta R.T. -0.011 min
Lab File: VN079321.D
Acq: 21 Sep 2023 13:23

Instrument :
MSVOA_N
ClientSampleId :

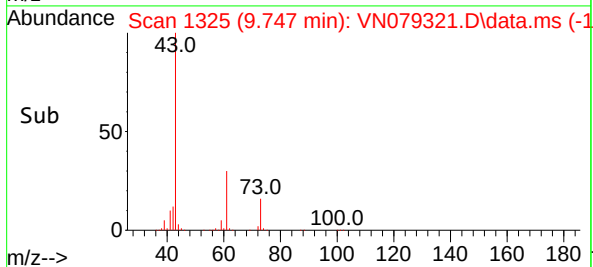
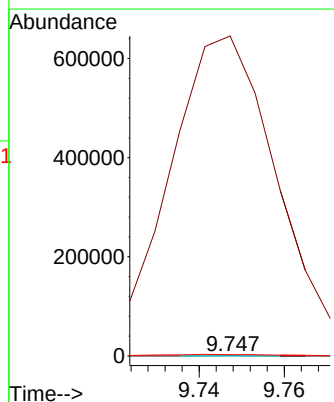
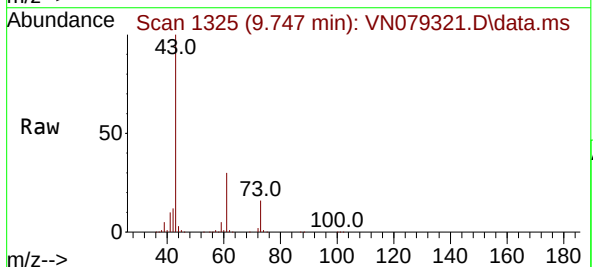


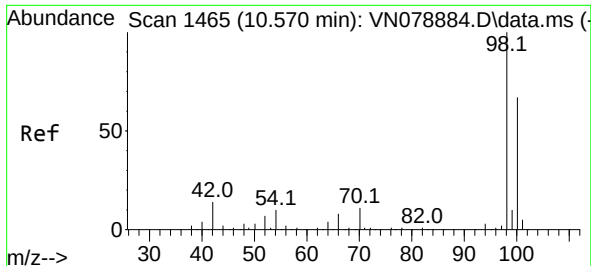
Tgt Ion: 41 Resp: 3568
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 0.0 54.6 81.8#



#49
1,4-Dioxane
Concen: 1.499 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.047 min
Lab File: VN079321.D
Acq: 21 Sep 2023 13:23

Tgt Ion: 88 Resp: 72
Ion Ratio Lower Upper
88 100
43 1633998.6 17.0 25.6#
58 8922.2 47.0 70.4#

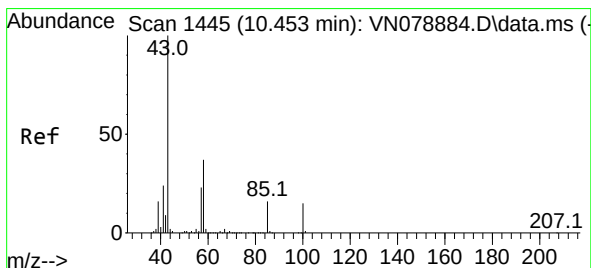
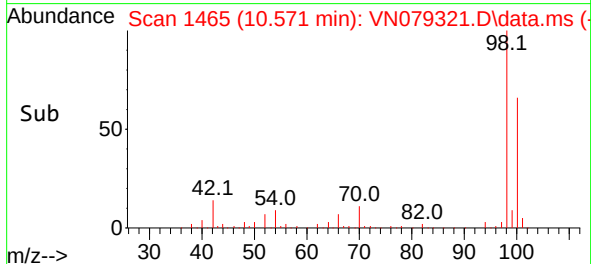
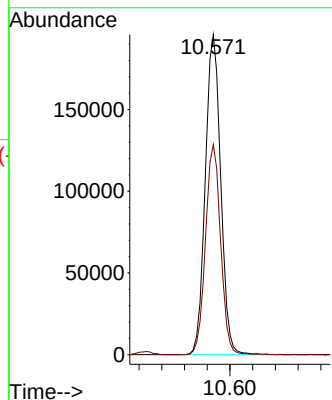
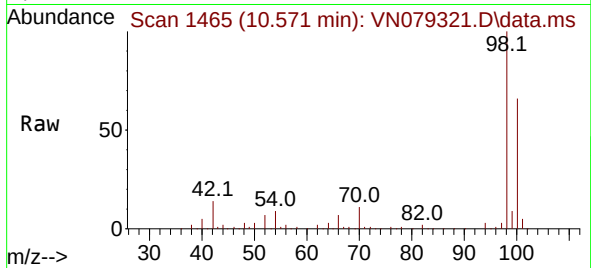




#50
Toluene-d8
Concen: 48.158 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN079321.D
Acq: 21 Sep 2023 13:23

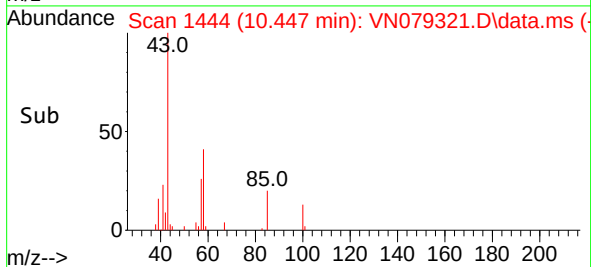
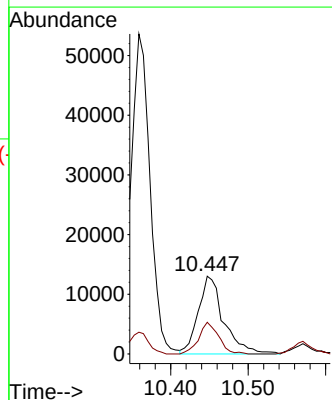
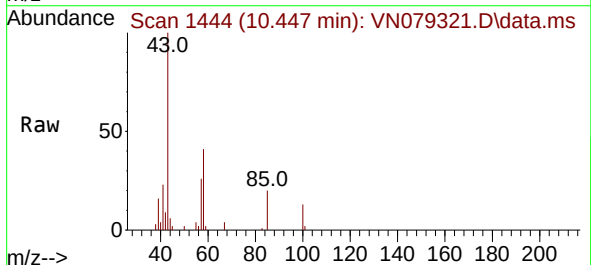
Instrument :
MSVOA_N
ClientSampleId :

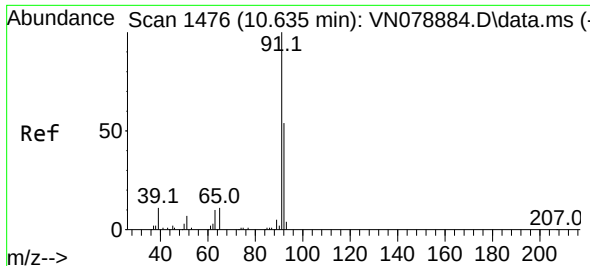
Tgt Ion: 98 Resp: 367536
Ion Ratio Lower Upper
98 100
100 64.4 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 9.806 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN079321.D
Acq: 21 Sep 2023 13:23

Tgt Ion: 43 Resp: 29680
Ion Ratio Lower Upper
43 100
58 31.8 36.6 54.8#

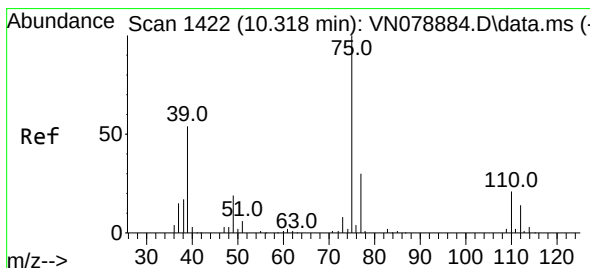
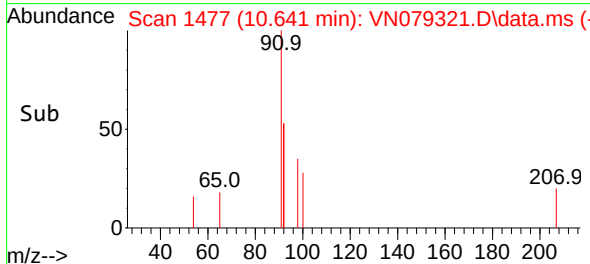
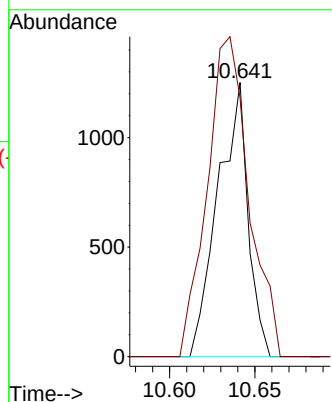
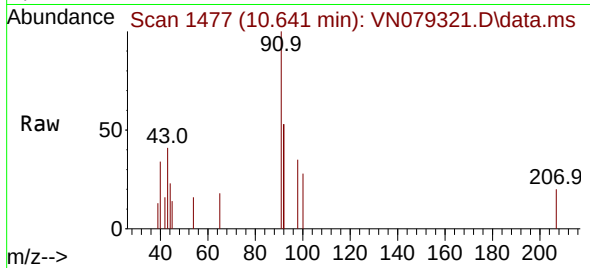




#52
Toluene
Concen: 0.254 ug/l
RT: 10.641 min Scan# 1476
Delta R.T. 0.006 min
Lab File: VN079321.D
Acq: 21 Sep 2023 13:23

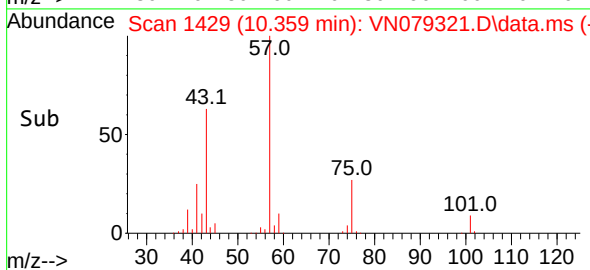
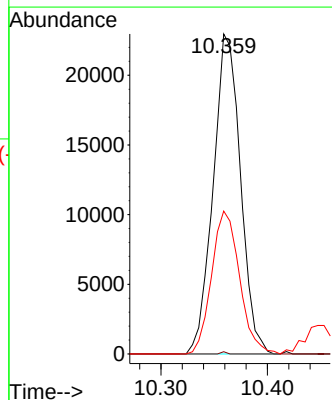
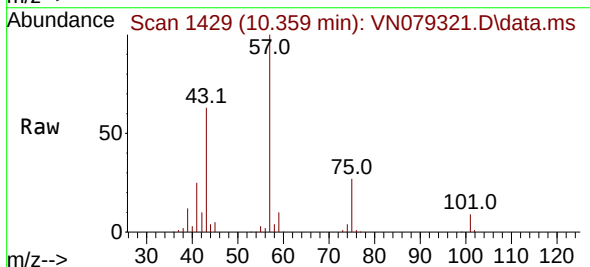
Instrument :
MSVOA_N
ClientSampleId :

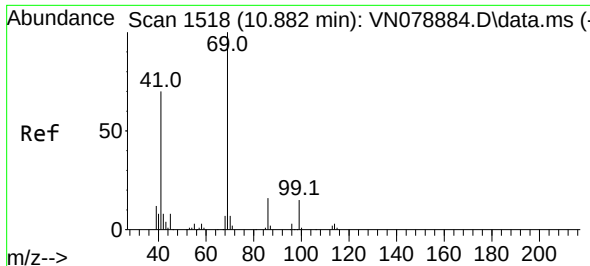
Tgt Ion: 92 Resp: 1533
Ion Ratio Lower Upper
92 100
91 162.1 137.4 206.0



#54
cis-1,3-Dichloropropene
Concen: 10.707 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.041 min
Lab File: VN079321.D
Acq: 21 Sep 2023 13:23

Tgt Ion: 75 Resp: 40865
Ion Ratio Lower Upper
75 100
77 0.7 26.1 39.1#
39 44.7 31.6 47.4

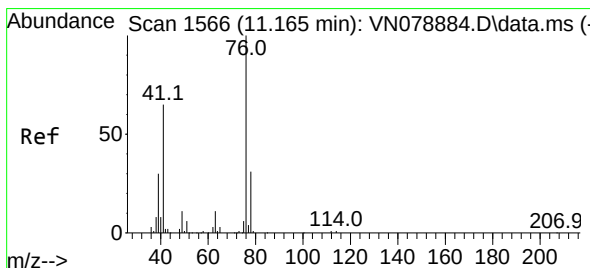
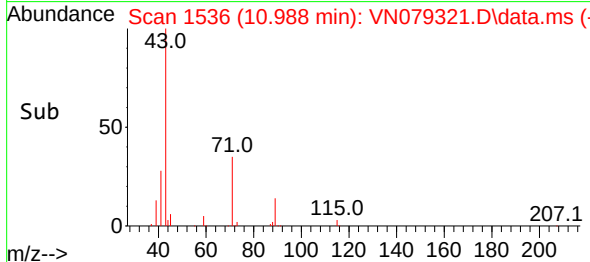
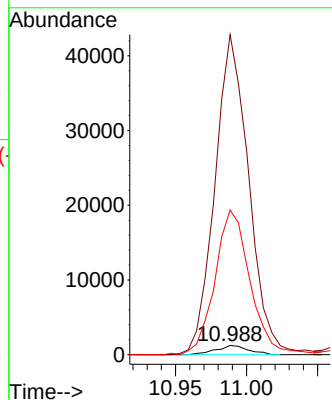
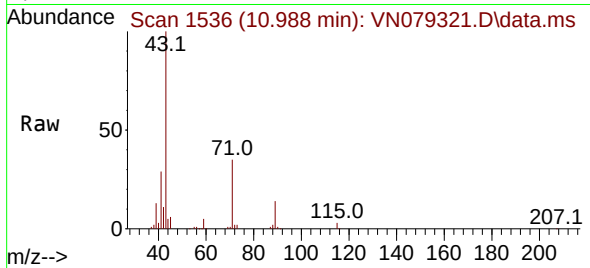




#56
Ethyl methacrylate
Concen: 0.585 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.111 min
Lab File: VN079321.D
Acq: 21 Sep 2023 13:23

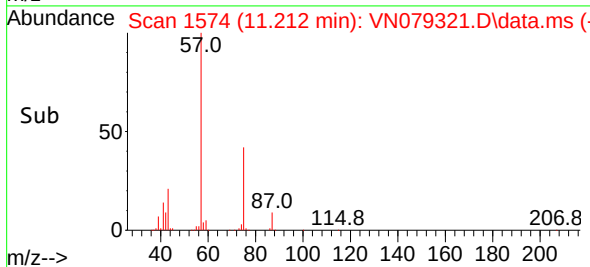
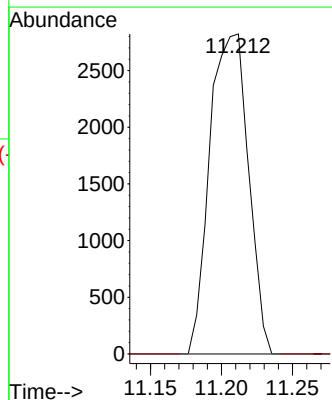
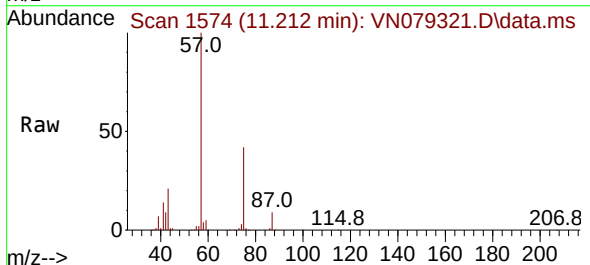
Instrument :
MSVOA_N
ClientSampleId :

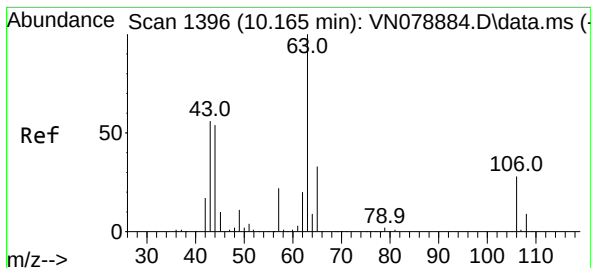
Tgt Ion: 69 Resp: 1953
Ion Ratio Lower Upper
69 100
41 3646.2 39.6 59.4#
39 1705.7 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.307 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.047 min
Lab File: VN079321.D
Acq: 21 Sep 2023 13:23

Tgt Ion: 76 Resp: 5345
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

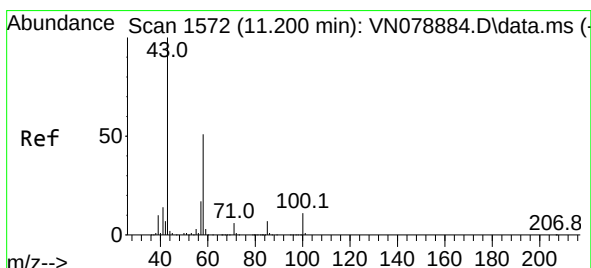
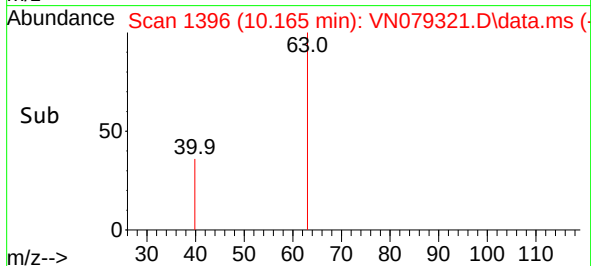
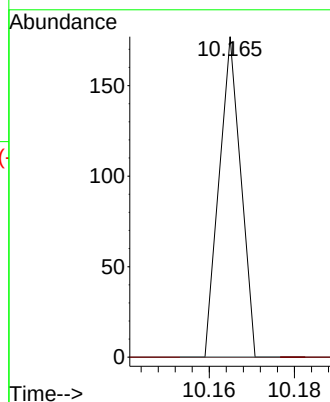
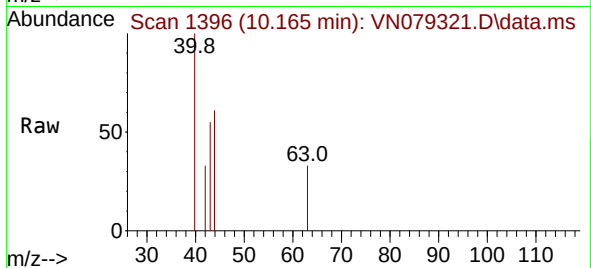




#58
2-Chloroethyl Vinyl ether
Concen: Below Cal
RT: 10.165 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN079321.D
Acq: 21 Sep 2023 13:23

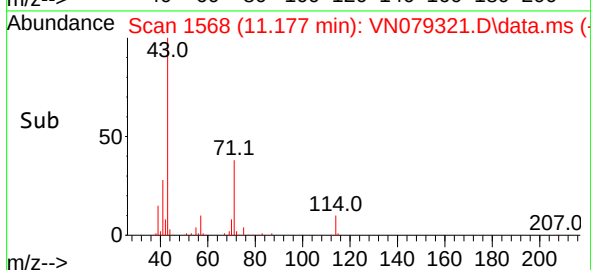
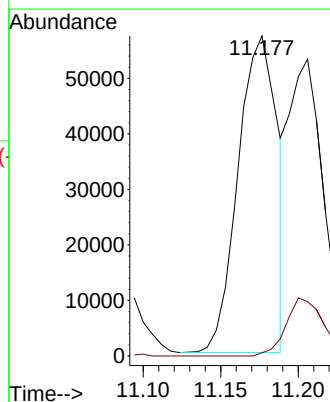
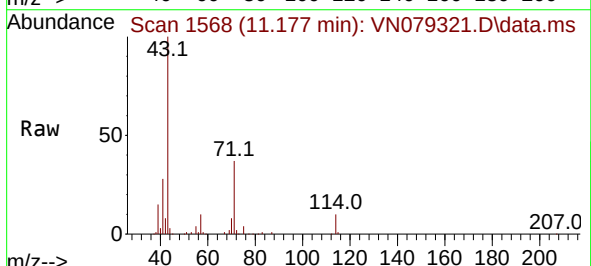
Instrument :
MSVOA_N
ClientSampleId :

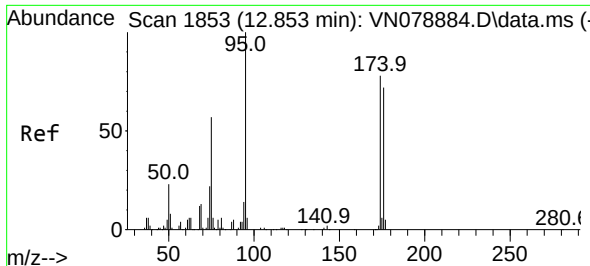
Tgt Ion: 63 Resp: 62
Ion Ratio Lower Upper
63 100
106 0.0 26.2 39.4#



#59
2-Hexanone
Concen: 45.754 ug/l
RT: 11.177 min Scan# 1568
Delta R.T. -0.023 min
Lab File: VN079321.D
Acq: 21 Sep 2023 13:23

Tgt Ion: 43 Resp: 100303
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#

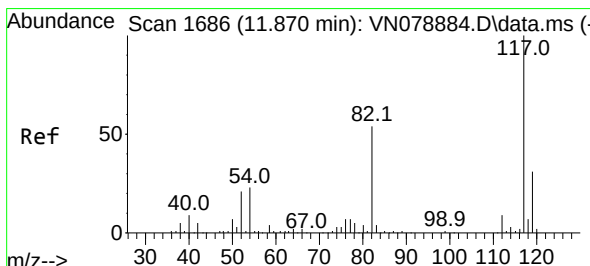
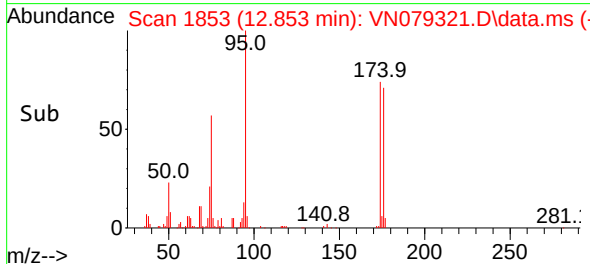
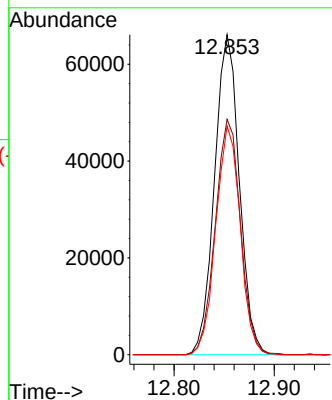
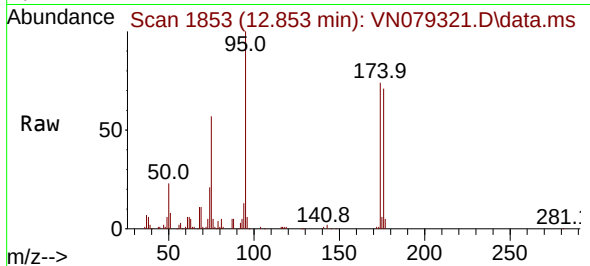




#62
4-Bromofluorobenzene
Concen: 46.596 ug/l
RT: 12.853 min Scan# 113433
Delta R.T. -0.000 min
Lab File: VN079321.D
Acq: 21 Sep 2023 13:23

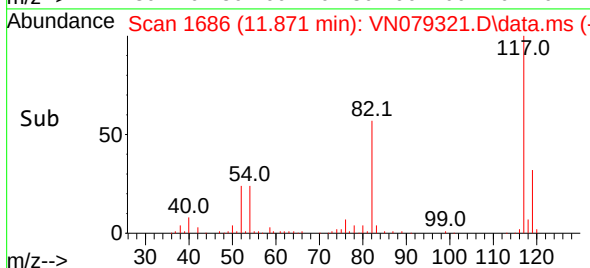
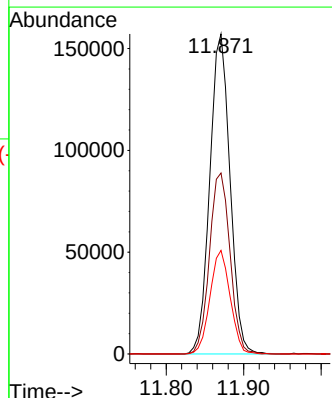
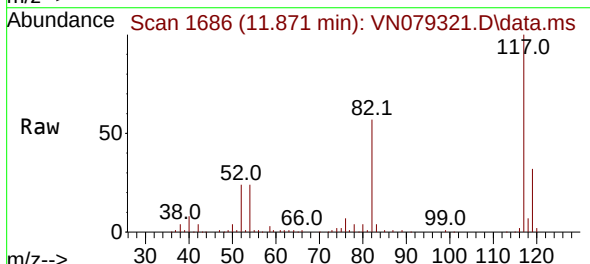
Instrument :
MSVOA_N
ClientSampleId :

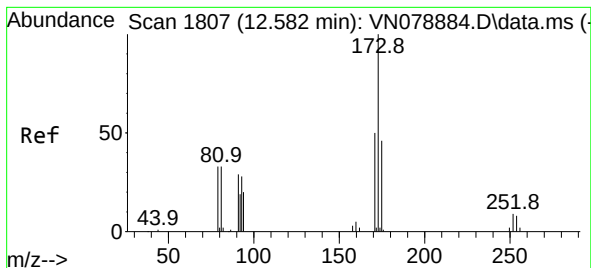
Tgt Ion: 95 Resp: 113433
Ion Ratio Lower Upper
95 100
174 75.0 0.0 143.8
176 70.5 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN079321.D
Acq: 21 Sep 2023 13:23

Tgt Ion: 117 Resp: 284859
Ion Ratio Lower Upper
117 100
82 56.6 44.0 66.0
119 32.4 25.6 38.4





#71

Bromoform

Concen: 0.512 ug/l

RT: 12.853 min Scan# 11

Delta R.T. 0.271 min

Lab File: VN079321.D

Acq: 21 Sep 2023 13:23

Instrument :

MSVOA_N

ClientSampleId :

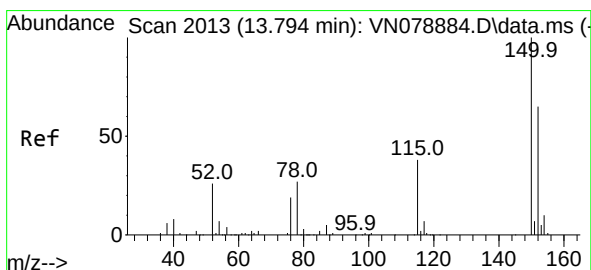
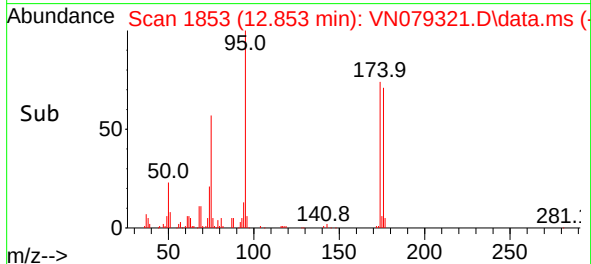
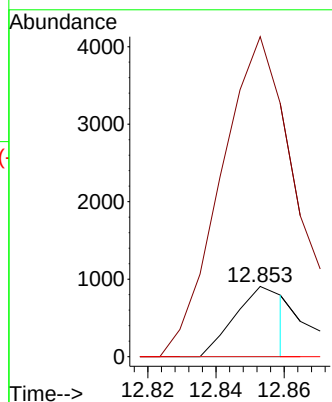
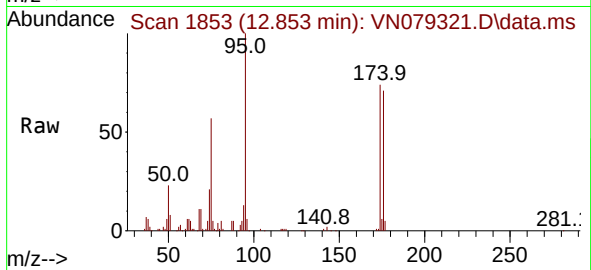
Tgt Ion:173 Resp: 915

Ion Ratio Lower Upper

173 100

175 562.4 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# 2014

Delta R.T. 0.006 min

Lab File: VN079321.D

Acq: 21 Sep 2023 13:23

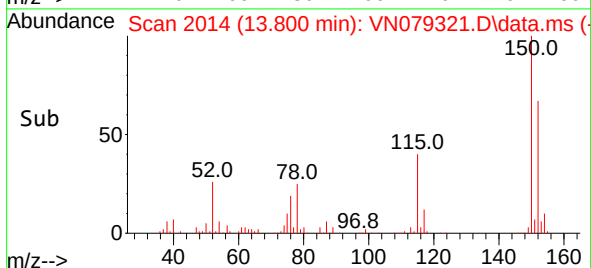
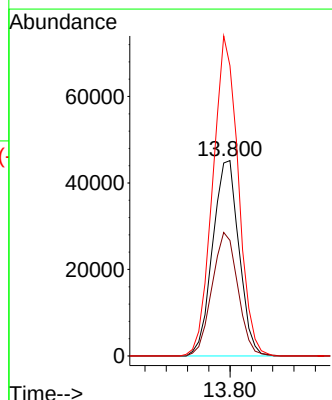
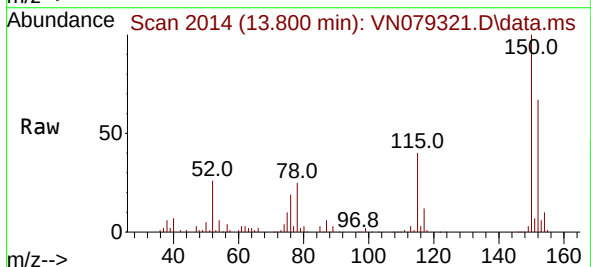
Tgt Ion:152 Resp: 77603

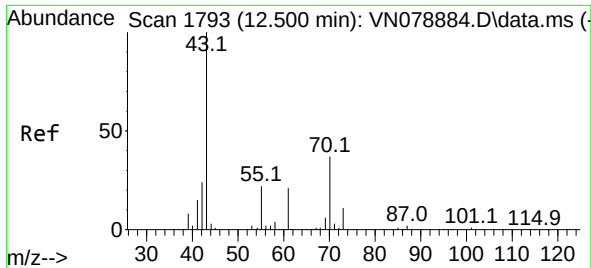
Ion Ratio Lower Upper

152 100

115 62.1 32.3 96.8

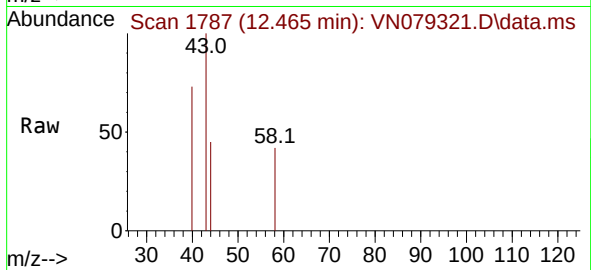
150 158.3 0.0 355.8



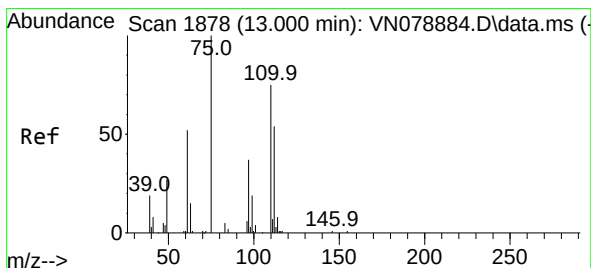
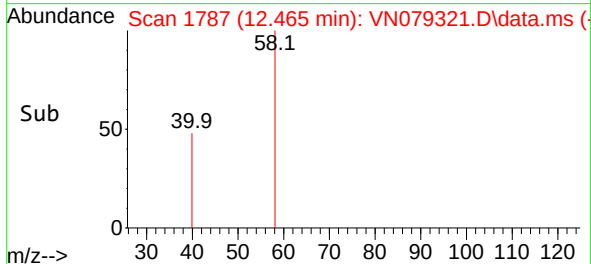
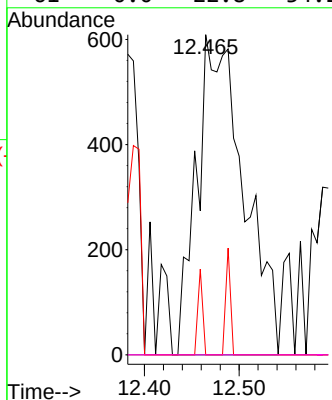


#74
N-amy1 acetate
Concen: 0.786 ug/l
RT: 12.465 min Scan# 11
Delta R.T. -0.035 min
Lab File: VN079321.D
Acq: 21 Sep 2023 13:23

Instrument :
MSVOA_N
ClientSampleId :

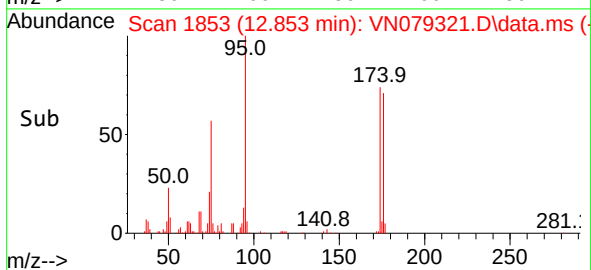
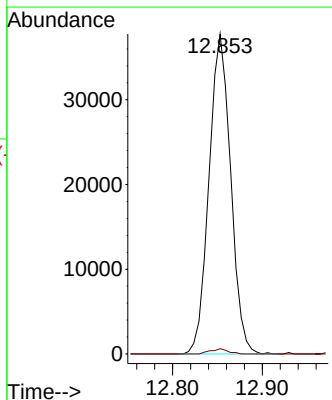
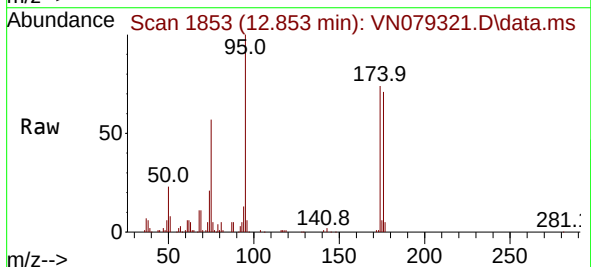


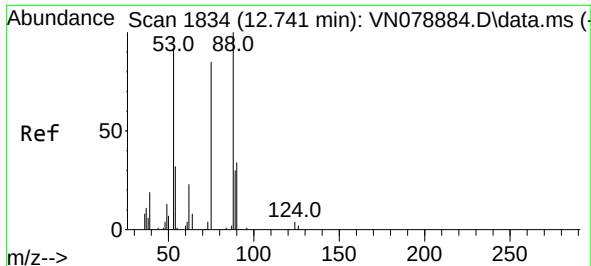
Tgt Ion: 43	Resp: 2105
Ion Ratio	Lower Upper
43 100	
70 0.0	43.4 65.2#
55 2.8	21.4 32.0#
61 0.0	22.8 34.2#



#76
1,2,3-Trichloropropane
Concen: 30.288 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN079321.D
Acq: 21 Sep 2023 13:23

Tgt Ion: 75	Resp: 63348
Ion Ratio	Lower Upper
75 100	
77 1.3	84.5 253.5#

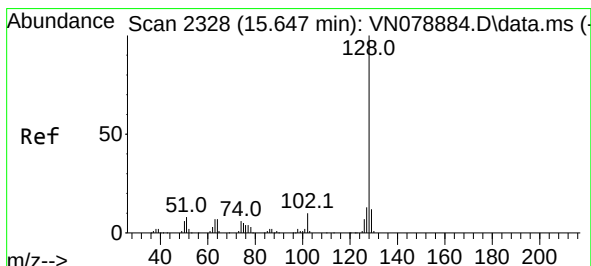
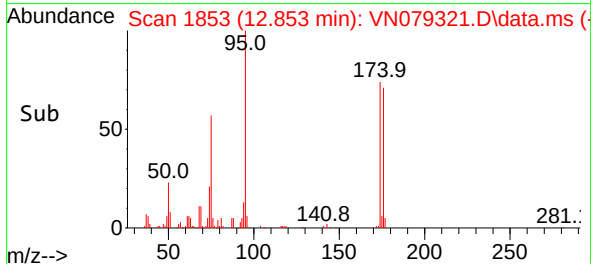
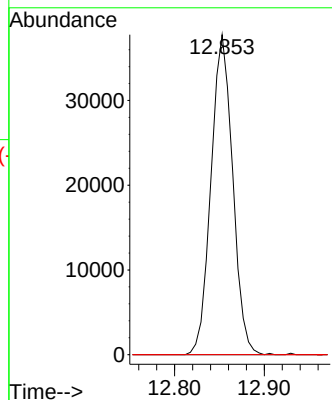
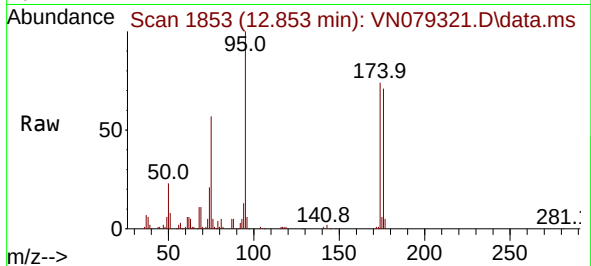




#81
trans-1,4-Dichloro-2-butene
Concen: 83.269 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN079321.D
Acq: 21 Sep 2023 13:23

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 63348
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#



#95
Naphthalene
Concen: 0.272 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.006 min
Lab File: VN079321.D
Acq: 21 Sep 2023 13:23

Tgt Ion:128 Resp: 840
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 0.0 8.7 13.1#

