

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101221\
 Data File : VN068878.D
 Acq On : 12 Oct 2021 22:21
 Operator : JC/MD
 Sample : M4159-14
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 13 08:24:14 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N101221W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 13 05:44:40 2021
 Response via : Initial Calibration

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

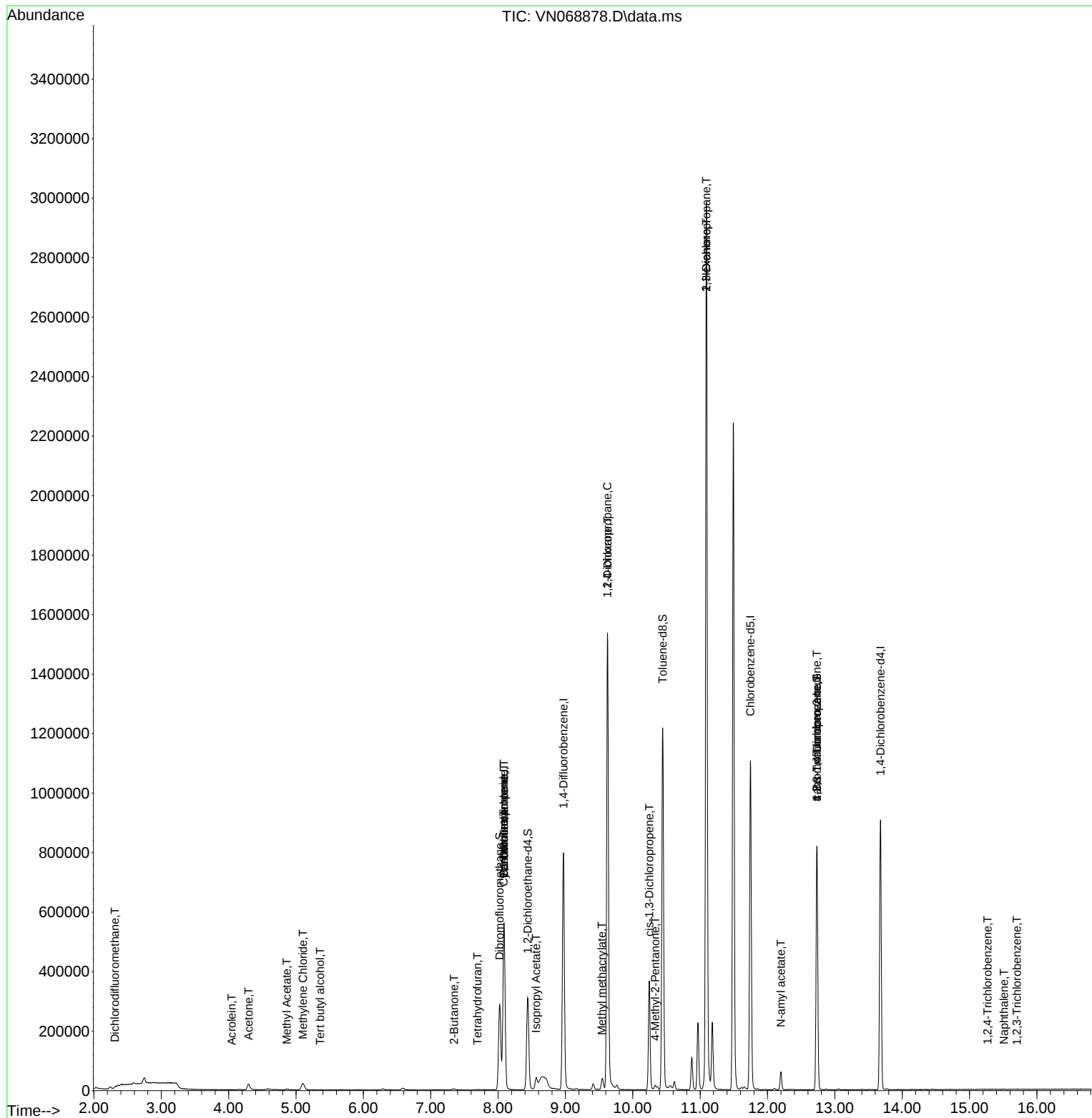
Internal Standards						
1) Pentafluorobenzene	8.088	168	438431	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	715082	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	659342	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	252772	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	263469	45.578	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	91.160%		
35) Dibromofluoromethane	8.024	113	215858	51.884	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	103.760%		
50) Toluene-d8	10.443	98	870722	52.307	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	104.620%		
62) 4-Bromofluorobenzene	12.734	95	300291	47.813	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	95.620%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.309	85	251	1.288	ug/l #	42
11) Tert butyl alcohol	5.358	59	218	0.206	ug/l #	72
13) Acrolein	4.044	56	406	0.869	ug/l #	22
16) Acetone	4.296	43	34572	16.026	ug/l	99
18) Methyl Acetate	4.865	43	6364	0.778	ug/l #	58
20) Methylene Chloride	5.103	84	18847	3.796	ug/l	97
25) 2-Butanone	7.348	43	5328	1.633	ug/l	99
29) Tetrahydrofuran	7.694	42	631	0.298	ug/l #	87
31) Cyclohexane	8.083	56	10209	1.136	ug/l #	3
36) 1,1-Dichloropropene	8.088	75	33782	5.531	ug/l #	50
38) Carbon Tetrachloride	8.088	117	43433	6.475	ug/l #	15
43) Isopropyl Acetate	8.566	43	50656	4.551	ug/l #	83
45) 1,2-Dichloropropane	9.623	63	2113	0.438	ug/l #	43
48) Methyl methacrylate	9.542	41	9924	1.898	ug/l #	15
49) 1,4-Dioxane	9.625	88	88	36.466	ug/l #	1
51) 4-Methyl-2-Pentanone	10.333	43	8168	1.266	ug/l	88
54) cis-1,3-Dichloropropene	10.245	75	69926	8.691	ug/l #	56
57) 1,3-Dichloropropane	11.092	76	33324	4.284	ug/l #	43
59) 2-Hexanone	11.092	43	478442	103.375	ug/l #	50
74) N-amyl acetate	12.197	43	19607	2.460	ug/l #	55
76) 1,2,3-Trichloropropane	12.734	75	153696	28.577	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.734	75	153696	68.369	ug/l #	12
93) 1,2,4-Trichlorobenzene	15.268	180	305	2.670	ug/l #	75
95) Naphthalene	15.509	128	1545	3.933	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.703	180	183	2.557	ug/l #	75

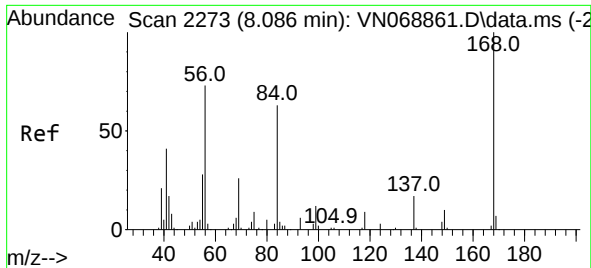
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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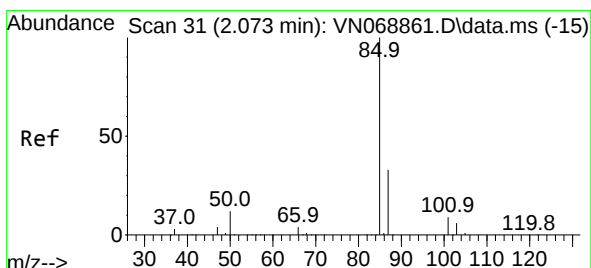
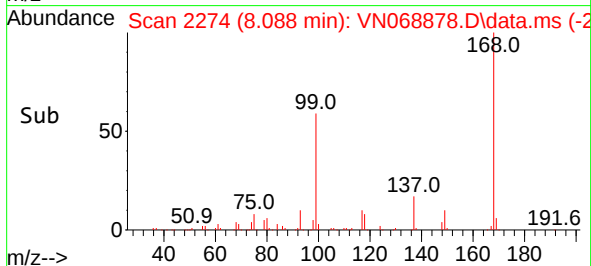
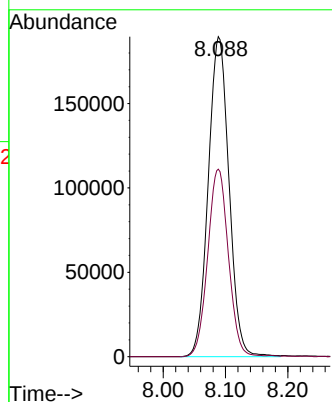
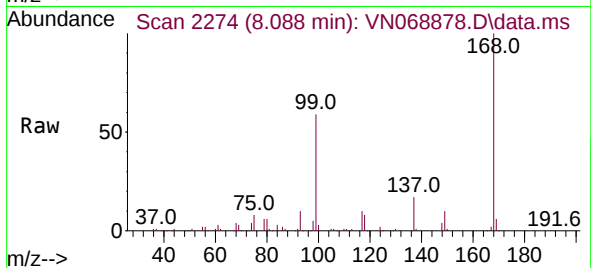




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. 0.002 min
Lab File: VN068878.D
Acq: 12 Oct 2021 22:21

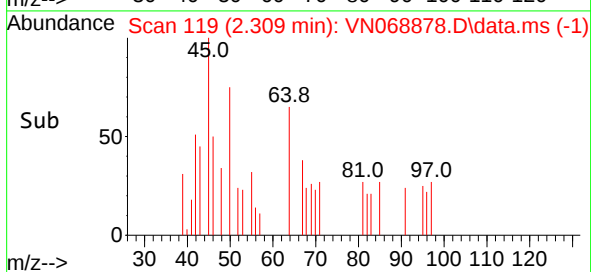
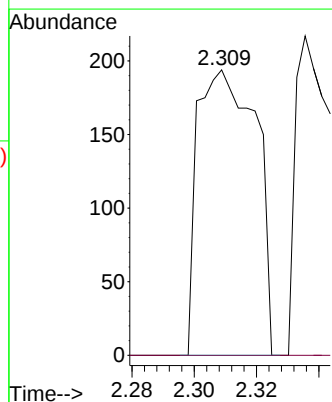
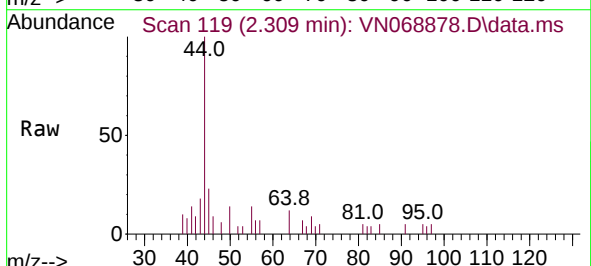
Instrument :
MSVOA_N
ClientSampled :

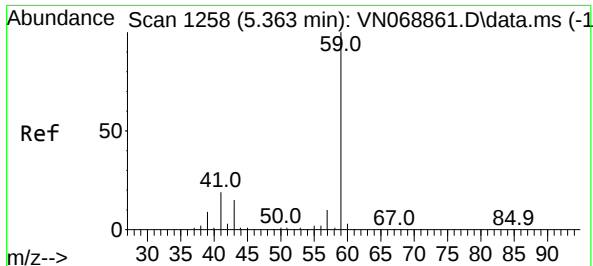
Tgt Ion:168 Resp: 438431
Ion Ratio Lower Upper
168 100
99 58.6 48.9 73.3



#2
Dichlorodifluoromethane
Concen: 1.288 ug/l
RT: 2.309 min Scan# 119
Delta R.T. 0.236 min
Lab File: VN068878.D
Acq: 12 Oct 2021 22:21

Tgt Ion: 85 Resp: 251
Ion Ratio Lower Upper
85 100
87 0.0 16.3 48.8#



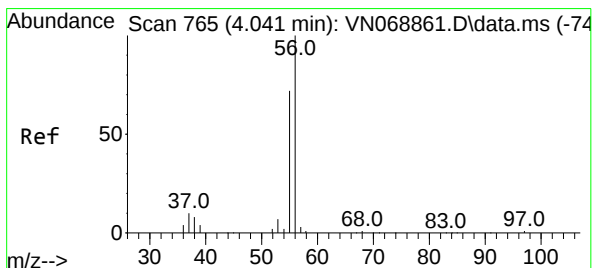
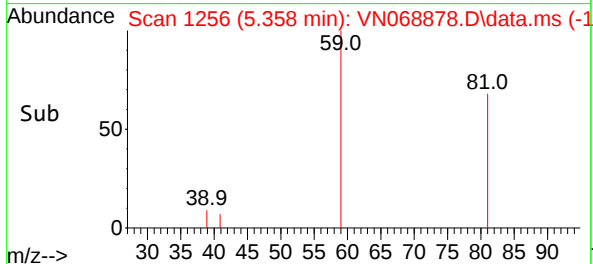
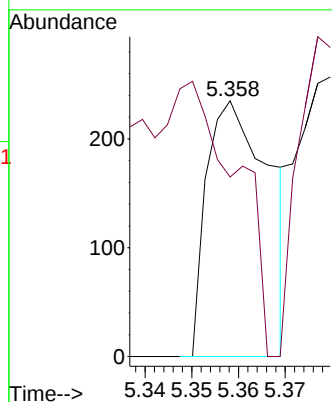
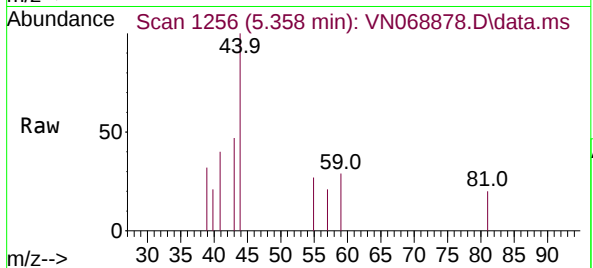


#11

Tert butyl alcohol
Concen: 0.206 ug/l
RT: 5.358 min Scan# 1256
Delta R.T. -0.005 min
Lab File: VN068878.D
Acq: 12 Oct 2021 22:21

Instrument :
MSVOA_N
ClientSampled :

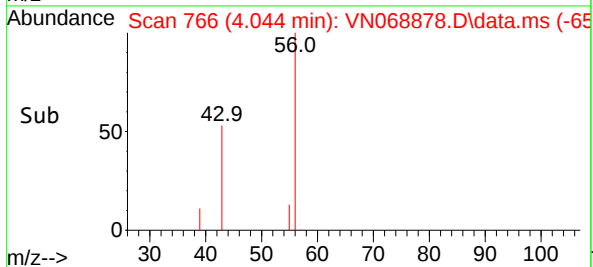
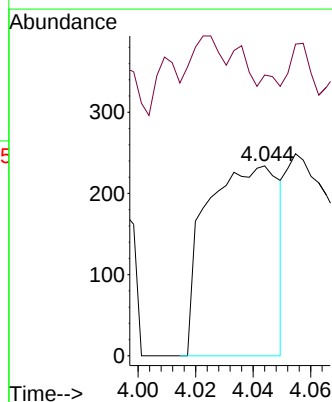
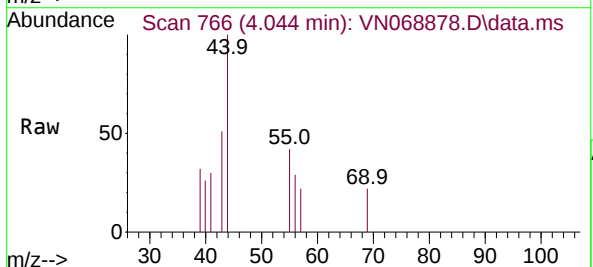
Tgt Ion: 59 Resp: 218
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

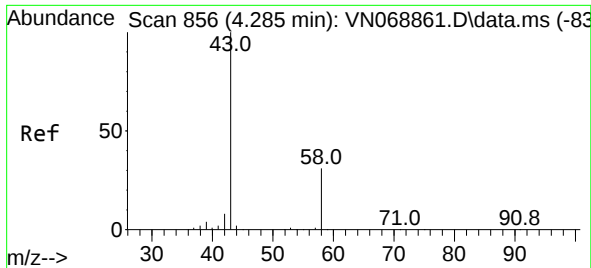


#13

Acrolein
Concen: 0.869 ug/l
RT: 4.044 min Scan# 766
Delta R.T. 0.003 min
Lab File: VN068878.D
Acq: 12 Oct 2021 22:21

Tgt Ion: 56 Resp: 406
Ion Ratio Lower Upper
56 100
55 7.1 58.1 87.1#

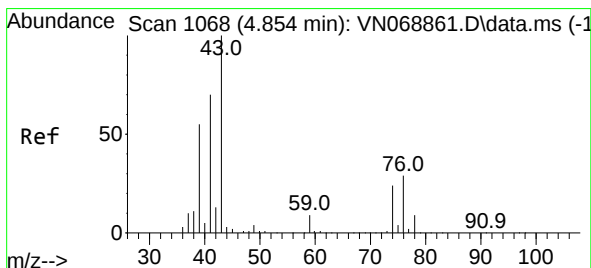
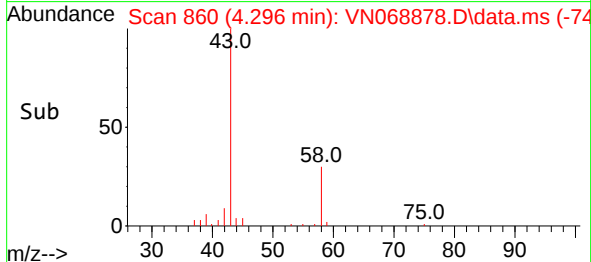
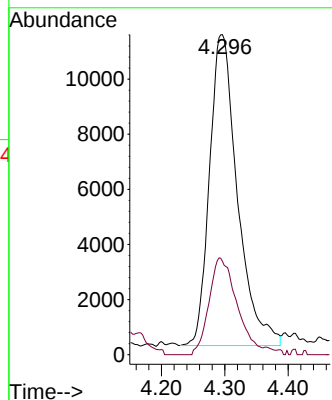
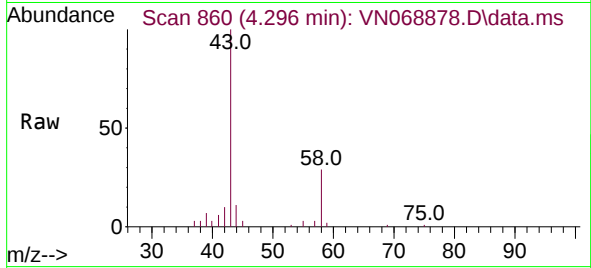




#16
Acetone
Concen: 16.026 ug/l
RT: 4.296 min Scan# 860
Delta R.T. 0.011 min
Lab File: VN068878.D
Acq: 12 Oct 2021 22:21

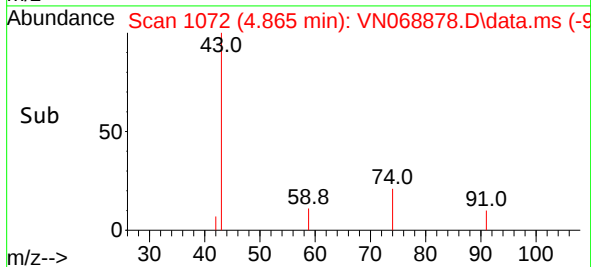
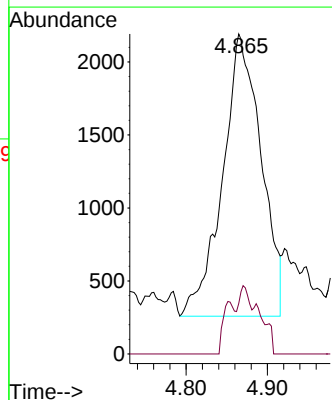
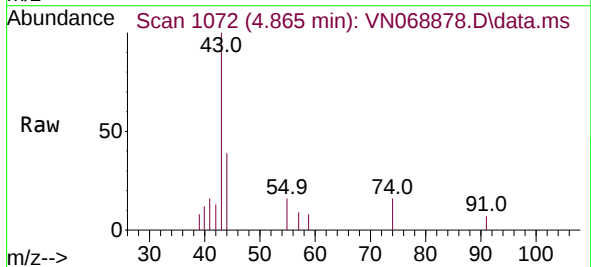
Instrument :
MSVOA_N
ClientSampled :

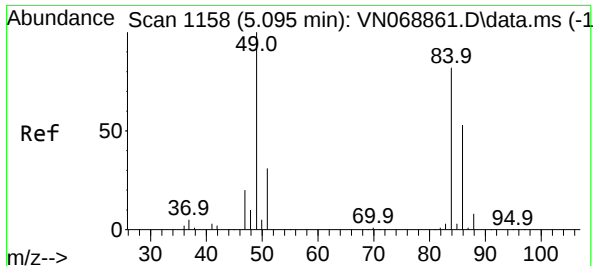
Tgt Ion: 43 Resp: 34572
Ion Ratio Lower Upper
43 100
58 30.1 24.5 36.7



#18
Methyl Acetate
Concen: 0.778 ug/l
RT: 4.865 min Scan# 1072
Delta R.T. 0.011 min
Lab File: VN068878.D
Acq: 12 Oct 2021 22:21

Tgt Ion: 43 Resp: 6364
Ion Ratio Lower Upper
43 100
74 2.9 18.9 28.3#

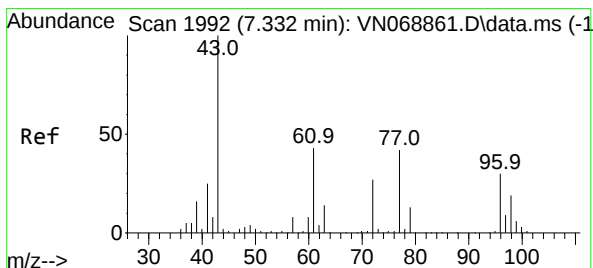
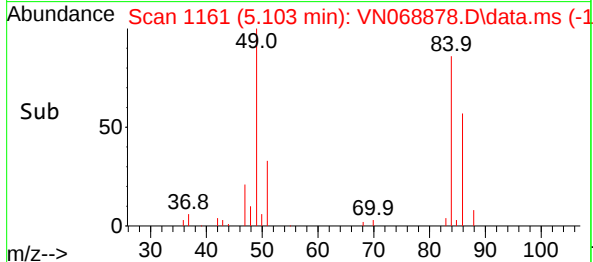
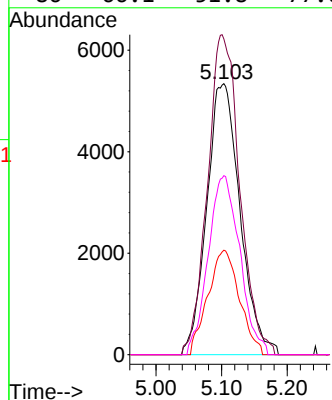
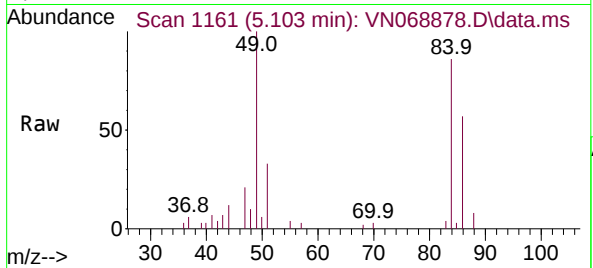




#20
Methylene Chloride
Concen: 3.796 ug/l
RT: 5.103 min Scan# 1161
Delta R.T. 0.008 min
Lab File: VN068878.D
Acq: 12 Oct 2021 22:21

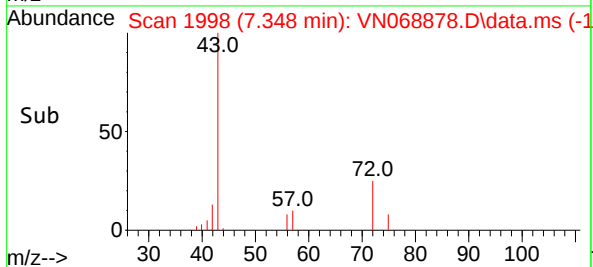
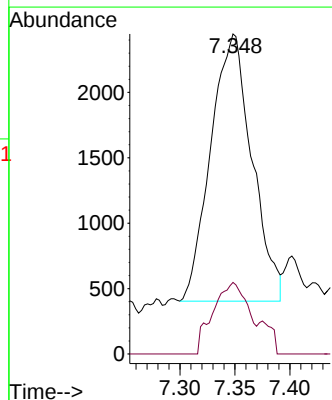
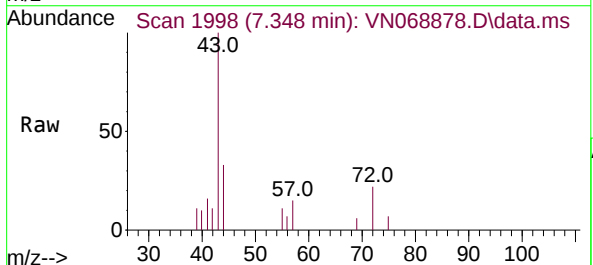
Instrument :
MSVOA_N
ClientSampled :

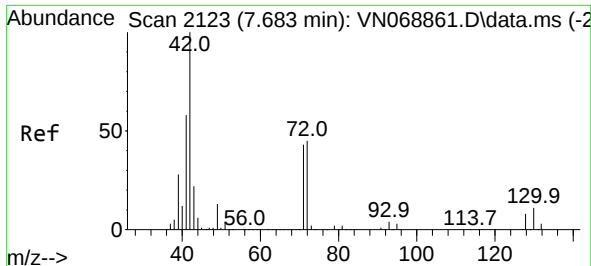
Tgt Ion:	84	Resp:	18847
Ion	Ratio	Lower	Upper
84	100		
49	116.5	97.6	146.4
51	38.6	30.3	45.5
86	66.1	51.8	77.6



#25
2-Butanone
Concen: 1.633 ug/l
RT: 7.348 min Scan# 1998
Delta R.T. 0.016 min
Lab File: VN068878.D
Acq: 12 Oct 2021 22:21

Tgt Ion:	43	Resp:	5328
Ion	Ratio	Lower	Upper
43	100		
72	26.8	21.2	31.8





#29

Tetrahydrofuran

Concen: 0.298 ug/l

RT: 7.694 min Scan# 2127

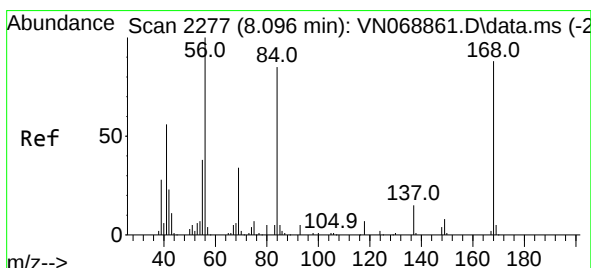
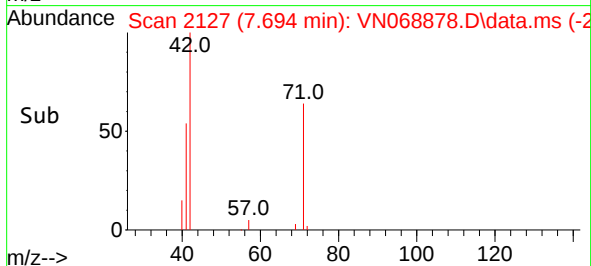
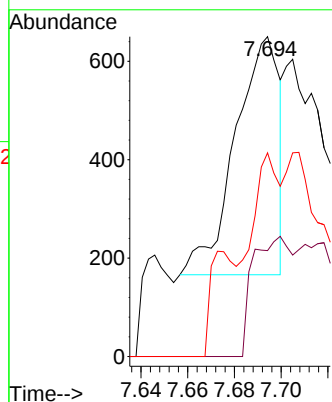
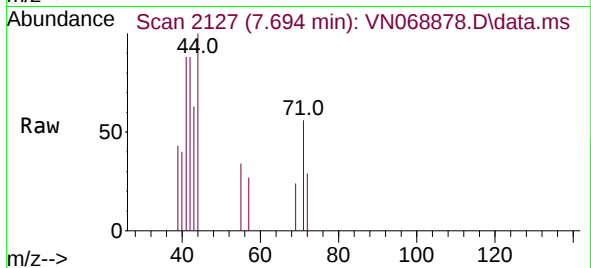
Delta R.T. 0.011 min

Lab File: VN068878.D

Acq: 12 Oct 2021 22:21

Tgt Ion: 42	Resp: 631
Ion Ratio	Lower Upper
42 100	
72 44.1	35.4 53.2
71 26.0	33.8 50.6#

Instrument :
MSVOA_N
ClientSampled :



#31

Cyclohexane

Concen: 1.136 ug/l

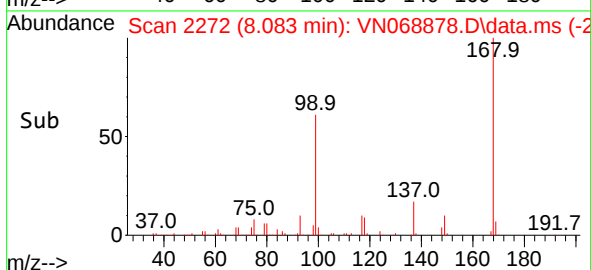
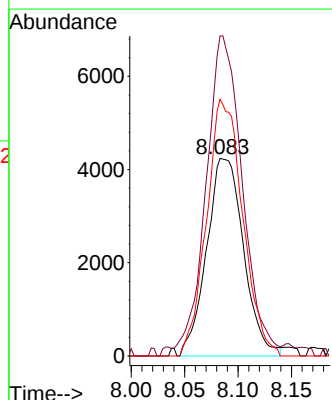
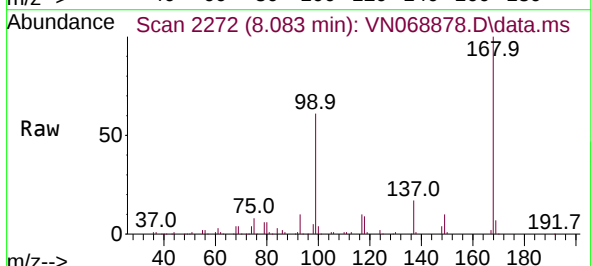
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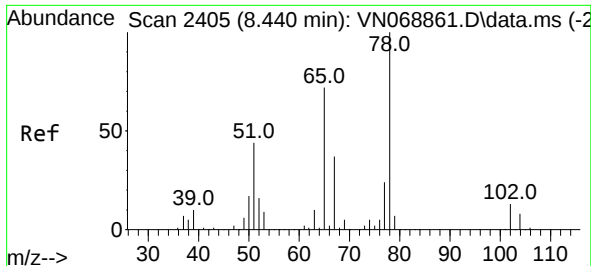
Delta R.T. -0.013 min

Lab File: VN068878.D

Acq: 12 Oct 2021 22:21

Tgt Ion: 56	Resp: 10209
Ion Ratio	Lower Upper
56 100	
69 157.3	26.9 40.3#
84 129.9	67.6 101.4#

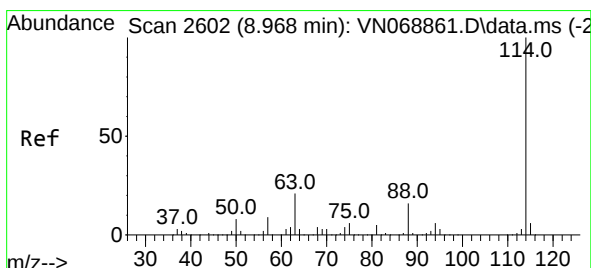
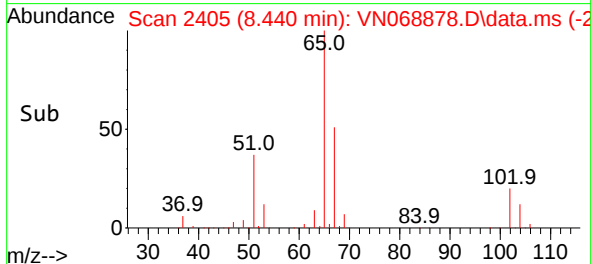
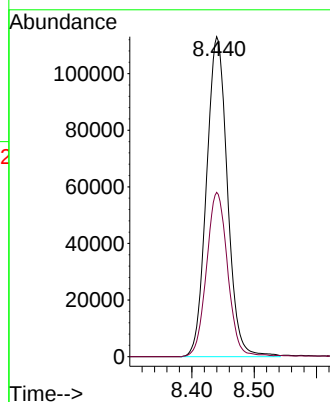
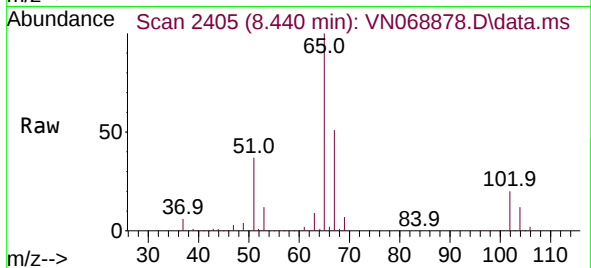




#33
 1,2-Dichloroethane-d4
 Concen: 45.578 ug/l
 RT: 8.440 min Scan# 2405
 Delta R.T. 0.000 min
 Lab File: VN068878.D
 Acq: 12 Oct 2021 22:21

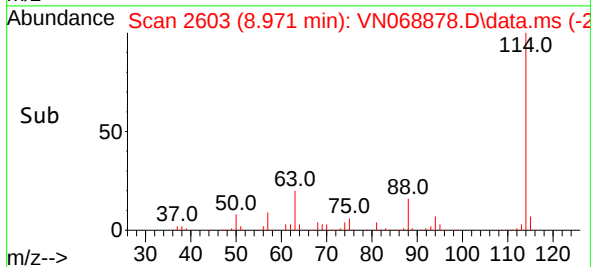
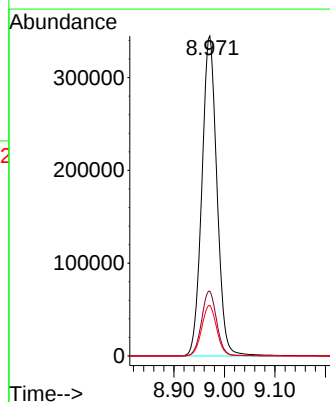
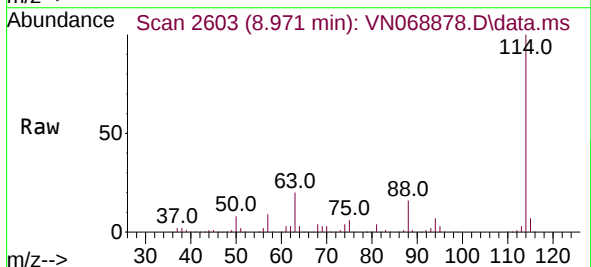
Instrument :
 MSVOA_N
 ClientSampled :

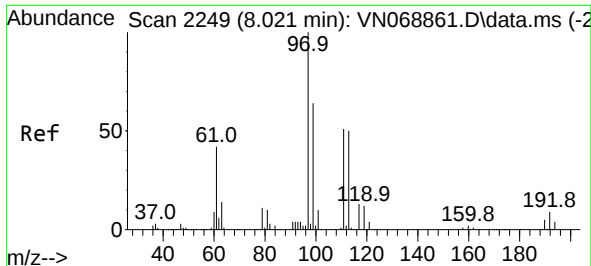
Tgt Ion: 65 Resp: 263469
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.971 min Scan# 2603
 Delta R.T. 0.003 min
 Lab File: VN068878.D
 Acq: 12 Oct 2021 22:21

Tgt Ion: 114 Resp: 715082
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 42.6
 88 15.8 0.0 32.0

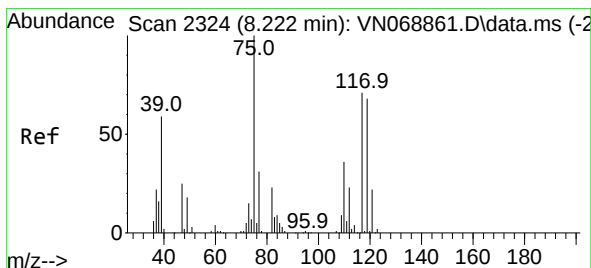
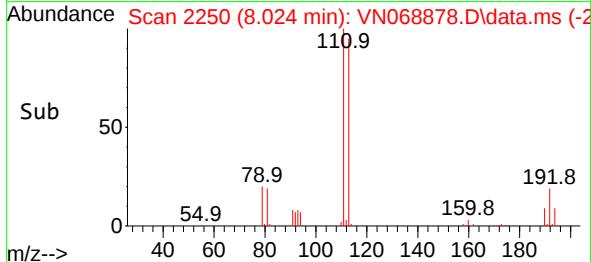
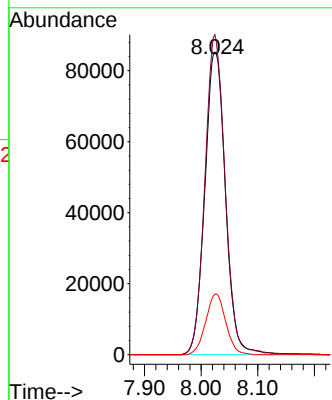
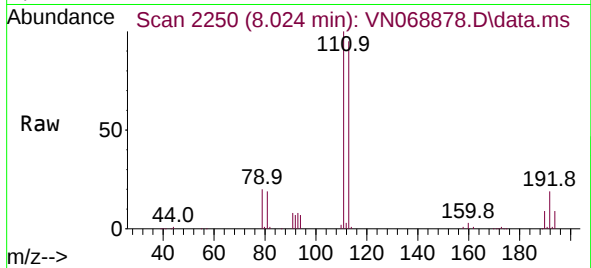




#35
Dibromofluoromethane
Concen: 51.884 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.003 min
Lab File: VN068878.D
Acq: 12 Oct 2021 22:21

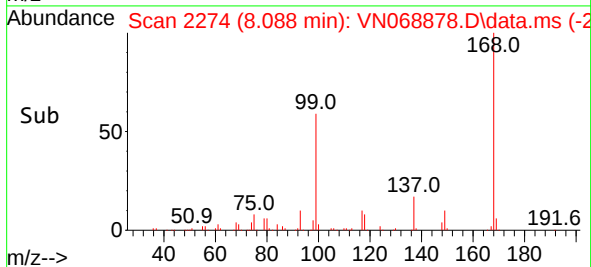
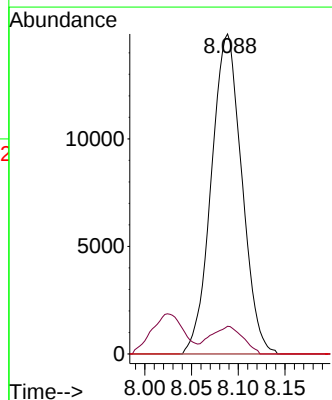
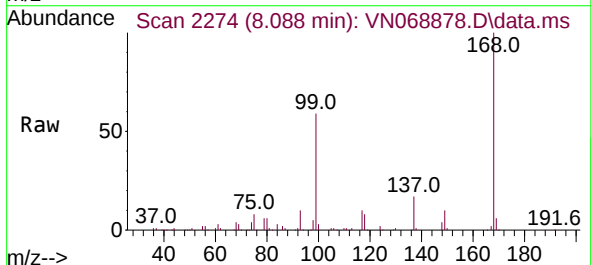
Instrument :
MSVOA_N
ClientSampled :

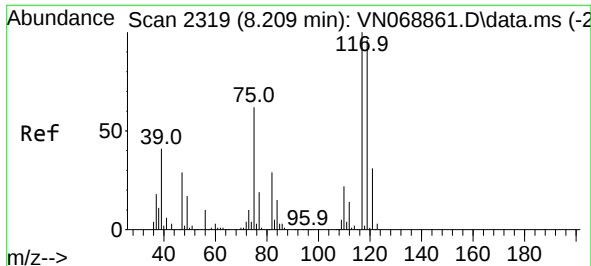
Tgt Ion:113 Resp: 215858
Ion Ratio Lower Upper
113 100
111 103.3 83.2 124.8
192 19.5 15.0 22.4



#36
1,1-Dichloropropene
Concen: 5.531 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.134 min
Lab File: VN068878.D
Acq: 12 Oct 2021 22:21

Tgt Ion: 75 Resp: 33782
Ion Ratio Lower Upper
75 100
110 9.3 17.9 53.8#
77 0.0 24.7 37.1#

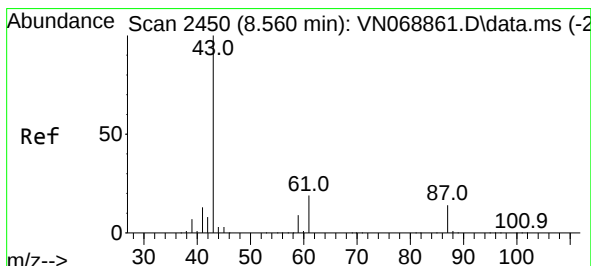
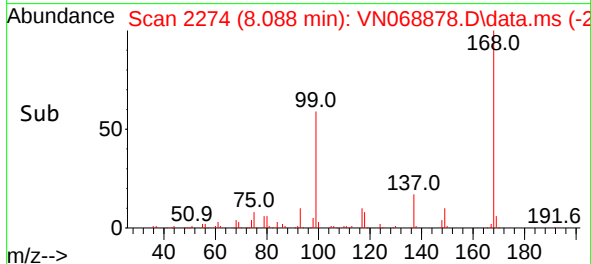
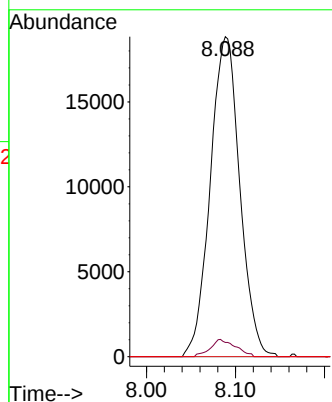
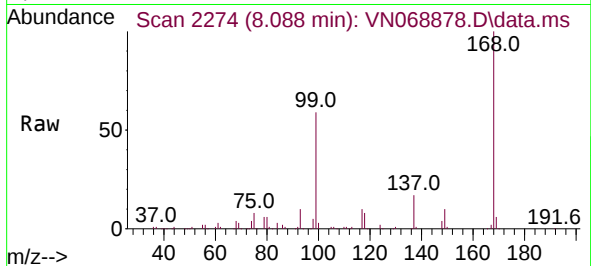




#38
Carbon Tetrachloride
Concen: 6.475 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.121 min
Lab File: VN068878.D
Acq: 12 Oct 2021 22:21

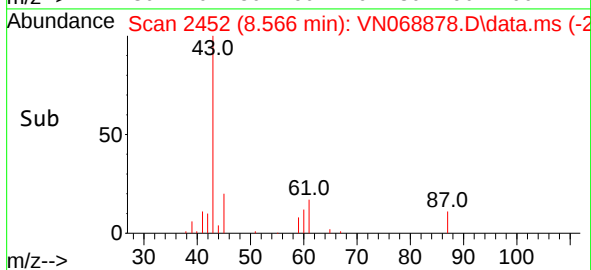
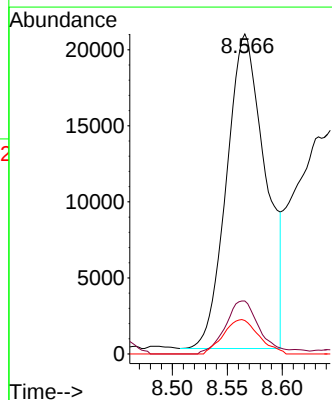
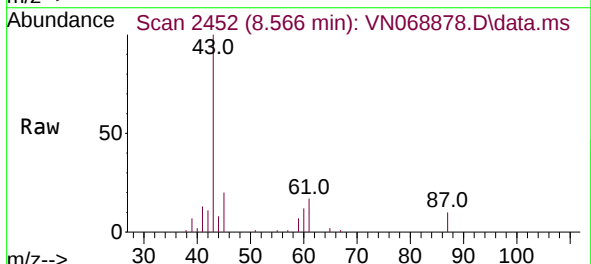
Instrument :
MSVOA_N
ClientSampled :

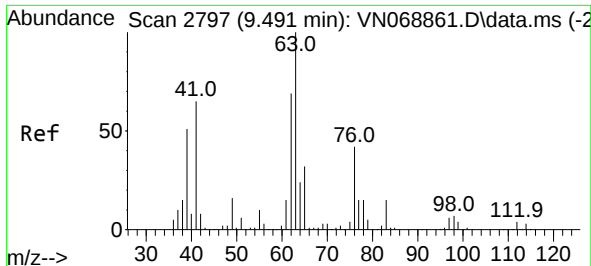
Tgt Ion:117 Resp: 43433
Ion Ratio Lower Upper
117 100
119 4.4 76.9 115.3#
121 0.0 24.6 37.0#



#43
Isopropyl Acetate
Concen: 4.551 ug/l
RT: 8.566 min Scan# 2452
Delta R.T. 0.006 min
Lab File: VN068878.D
Acq: 12 Oct 2021 22:21

Tgt Ion: 43 Resp: 50656
Ion Ratio Lower Upper
43 100
61 14.7 20.4 30.6#
87 10.0 10.7 16.1#



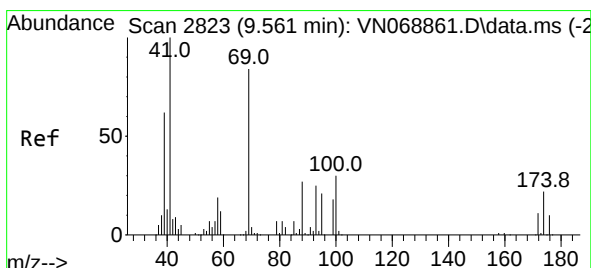
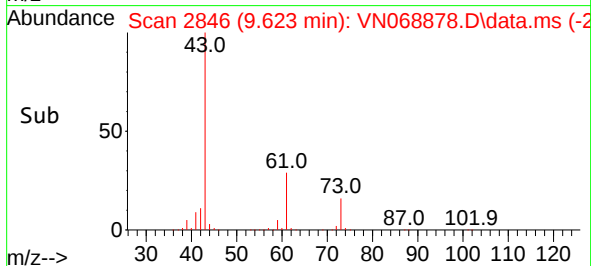
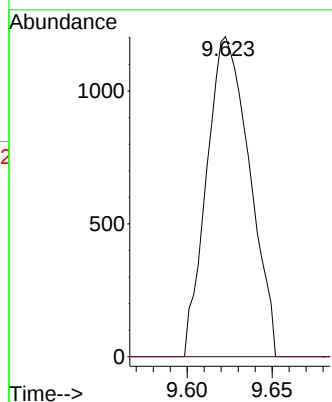
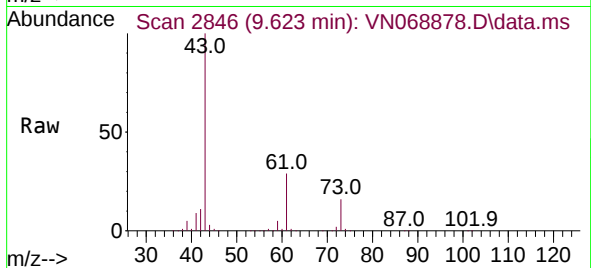


#45

1,2-Dichloropropane
Concen: 0.438 ug/l
RT: 9.623 min Scan# 2846
Delta R.T. 0.132 min
Lab File: VN068878.D
Acq: 12 Oct 2021 22:21

Instrument :
MSVOA_N
ClientSampled :

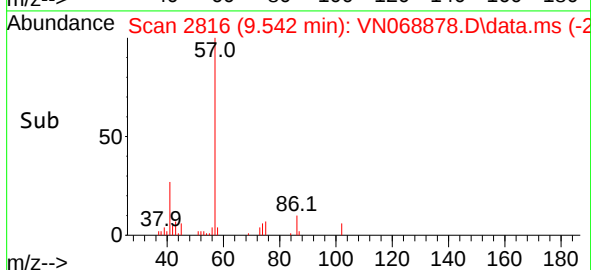
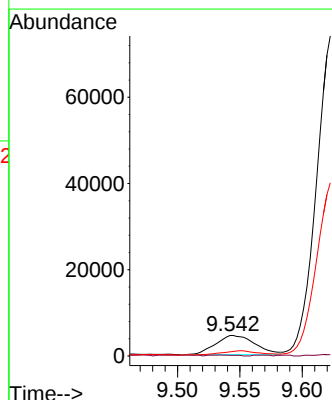
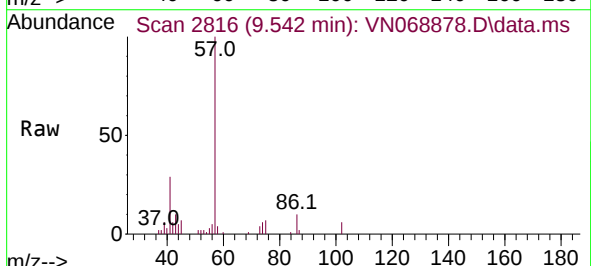
Tgt Ion: 63 Resp: 2113
Ion Ratio Lower Upper
63 100
65 0.0 25.6 38.4#

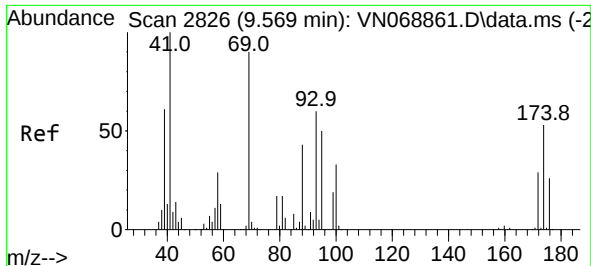


#48

Methyl methacrylate
Concen: 1.898 ug/l
RT: 9.542 min Scan# 2816
Delta R.T. -0.019 min
Lab File: VN068878.D
Acq: 12 Oct 2021 22:21

Tgt Ion: 41 Resp: 9924
Ion Ratio Lower Upper
41 100
69 3.2 66.4 99.6#
39 0.0 50.2 75.2#





#49

1,4-Dioxane

Concen: 36.466 ug/l

RT: 9.625 min Scan# 2847

Delta R.T. 0.056 min

Lab File: VN068878.D

Acq: 12 Oct 2021 22:21

Tgt Ion: 88 Resp: 88

Ion Ratio Lower Upper

88 100

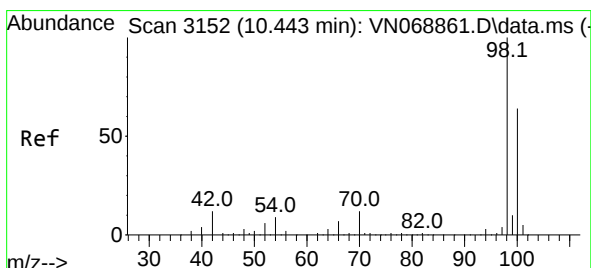
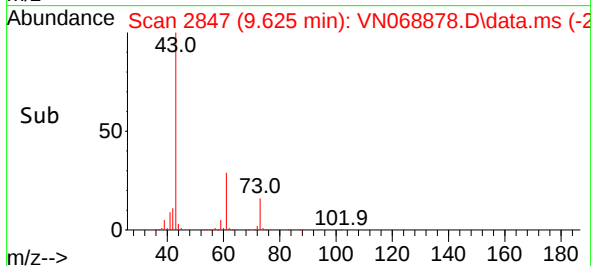
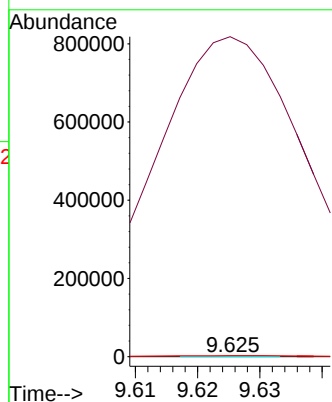
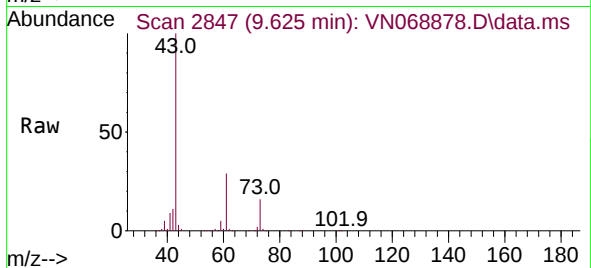
43 1796534.1 24.9 37.3#

58 6648.9 56.9 85.3#

Instrument :

MSVOA_N

ClientSampled :



#50

Toluene-d8

Concen: 52.307 ug/l

RT: 10.443 min Scan# 3152

Delta R.T. 0.000 min

Lab File: VN068878.D

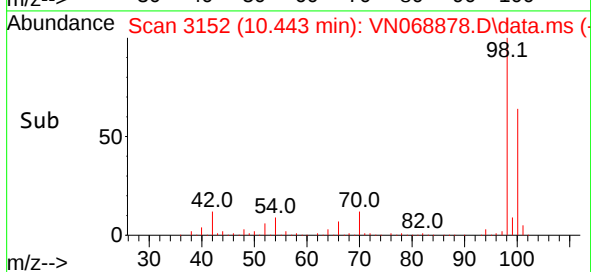
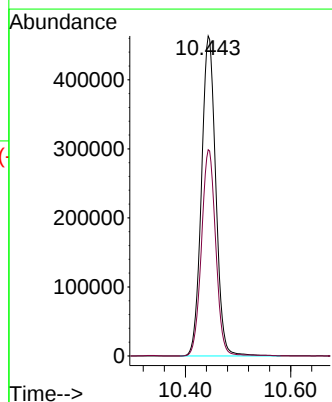
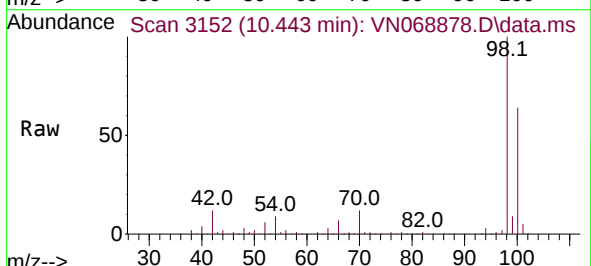
Acq: 12 Oct 2021 22:21

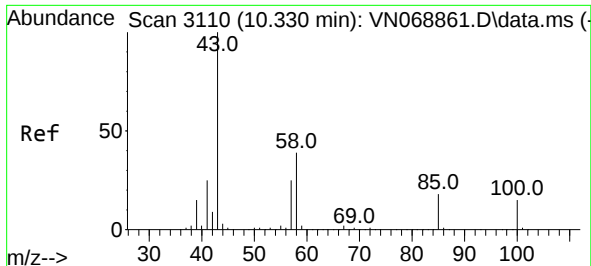
Tgt Ion: 98 Resp: 870722

Ion Ratio Lower Upper

98 100

100 64.5 51.5 77.3

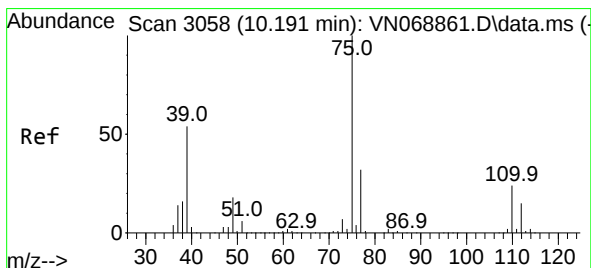
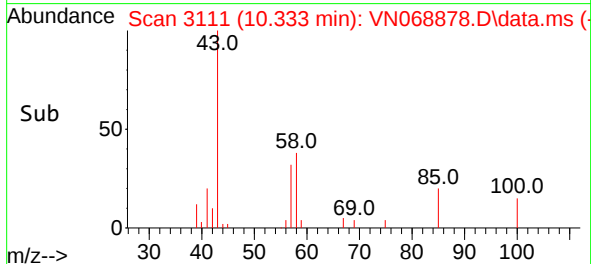
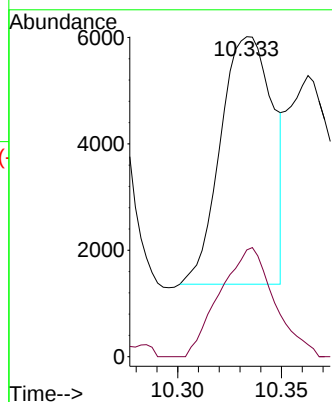
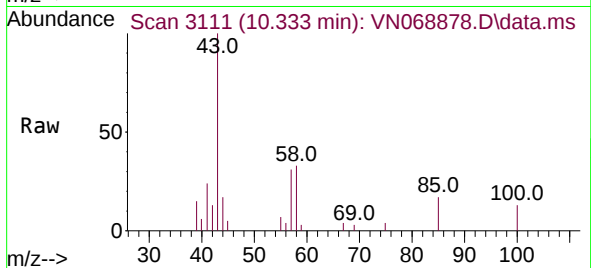




#51
4-Methyl-2-Pentanone
Concen: 1.266 ug/l
RT: 10.333 min Scan# 3111
Delta R.T. 0.003 min
Lab File: VN068878.D
Acq: 12 Oct 2021 22:21

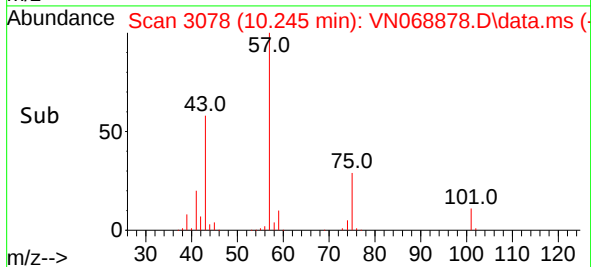
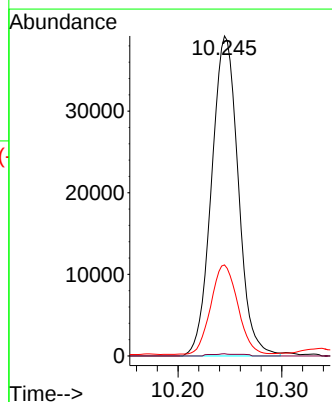
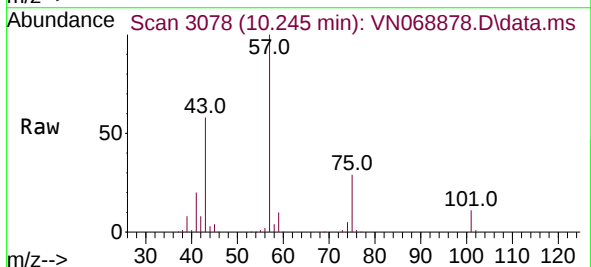
Instrument :
MSVOA_N
ClientSampleId :

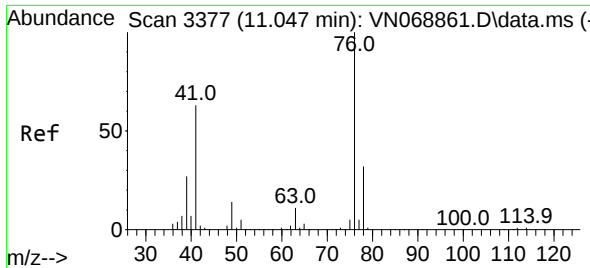
Tgt Ion: 43 Resp: 8168
Ion Ratio Lower Upper
43 100
58 45.8 31.0 46.4



#54
cis-1,3-Dichloropropene
Concen: 8.691 ug/l
RT: 10.245 min Scan# 3078
Delta R.T. 0.054 min
Lab File: VN068878.D
Acq: 12 Oct 2021 22:21

Tgt Ion: 75 Resp: 69926
Ion Ratio Lower Upper
75 100
77 0.7 25.6 38.4#
39 27.9 42.9 64.3#

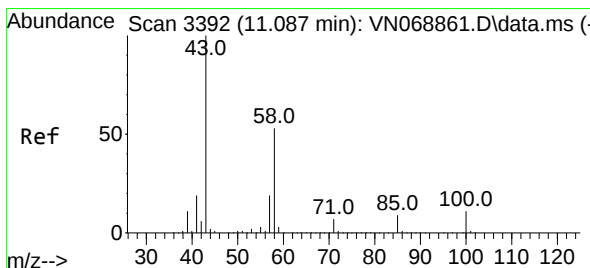
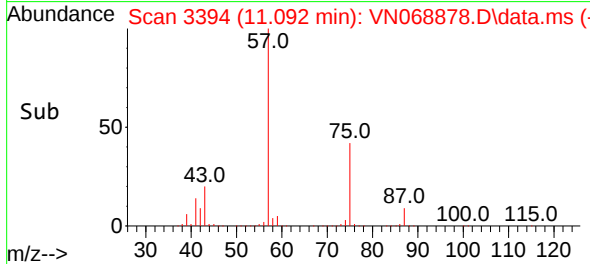
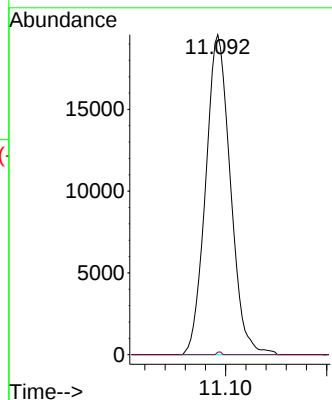
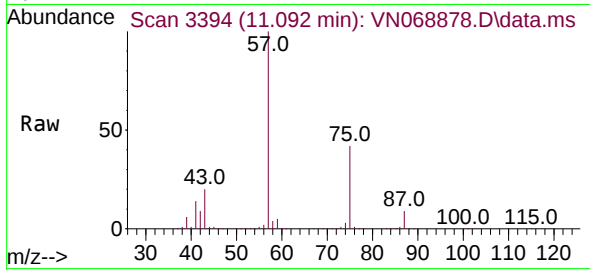




#57
1,3-Dichloropropane
Concen: 4.284 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.046 min
Lab File: VN068878.D
Acq: 12 Oct 2021 22:21

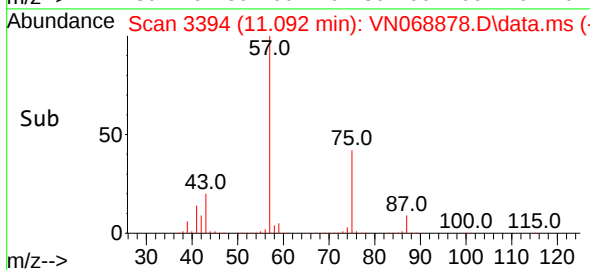
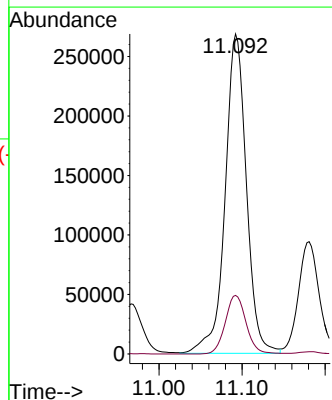
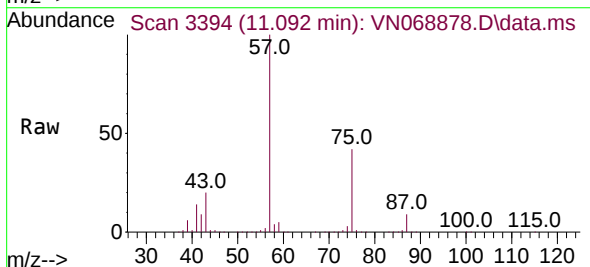
Instrument :
MSVOA_N
ClientSampled :

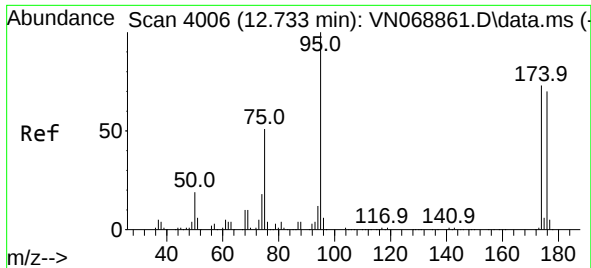
Tgt Ion: 76 Resp: 33324
Ion Ratio Lower Upper
76 100
78 0.2 25.8 38.8#



#59
2-Hexanone
Concen: 103.375 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.006 min
Lab File: VN068878.D
Acq: 12 Oct 2021 22:21

Tgt Ion: 43 Resp: 478442
Ion Ratio Lower Upper
43 100
58 18.0 26.9 80.7#

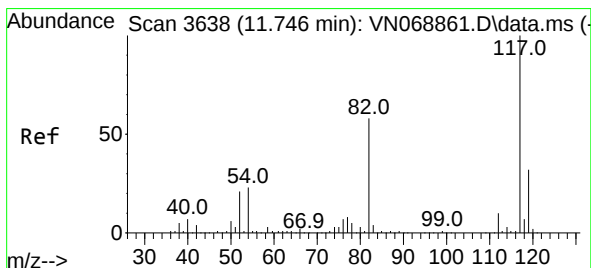
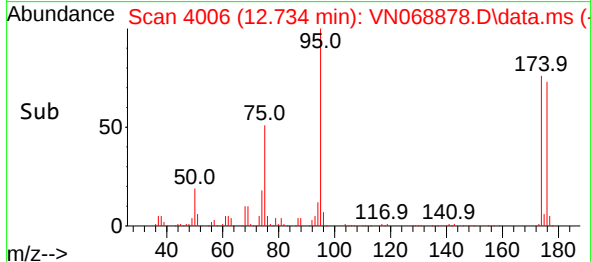
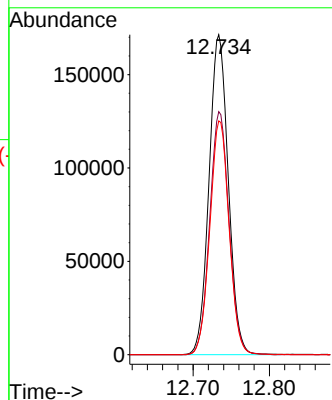
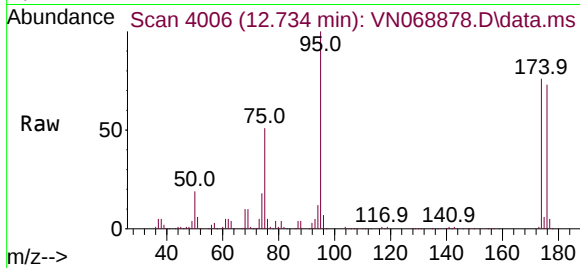




#62
4-Bromofluorobenzene
Concen: 47.813 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.000 min
Lab File: VN068878.D
Acq: 12 Oct 2021 22:21

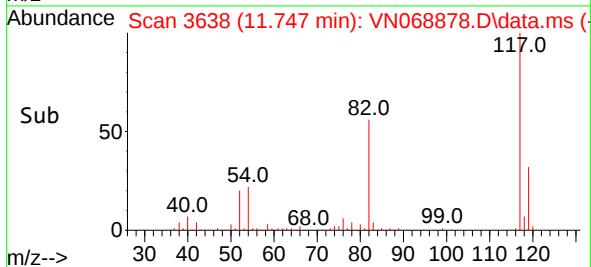
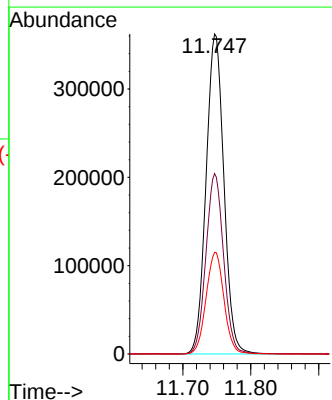
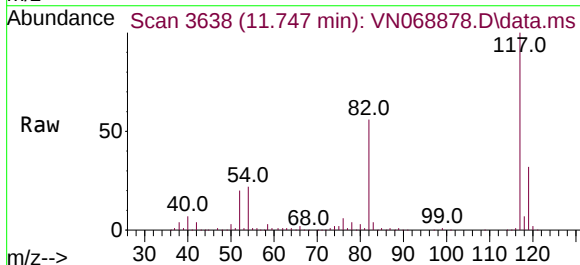
Instrument :
MSVOA_N
ClientSampled :

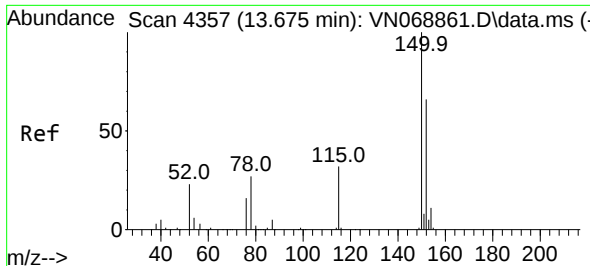
Tgt Ion: 95 Resp: 300291
Ion Ratio Lower Upper
95 100
174 76.3 0.0 144.8
176 73.1 0.0 140.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN068878.D
Acq: 12 Oct 2021 22:21

Tgt Ion: 117 Resp: 659342
Ion Ratio Lower Upper
117 100
82 56.4 46.4 69.6
119 31.8 26.0 39.0

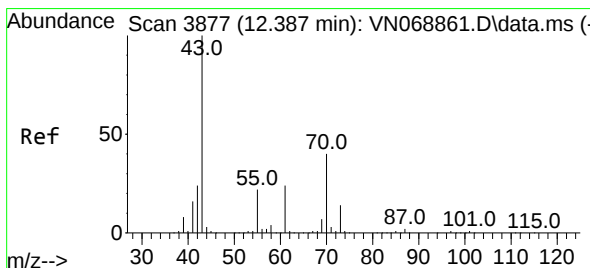
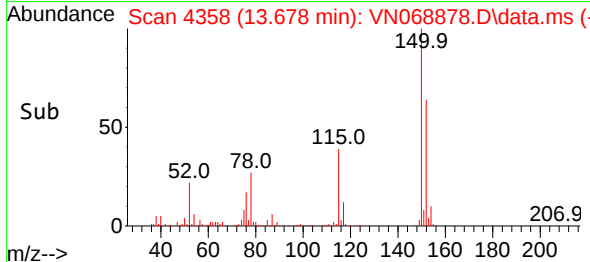
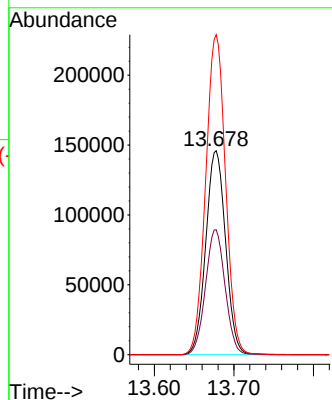
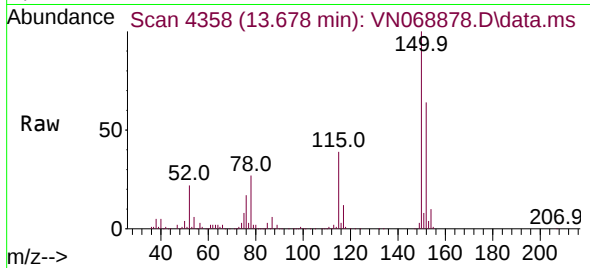




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. 0.003 min
Lab File: VN068878.D
Acq: 12 Oct 2021 22:21

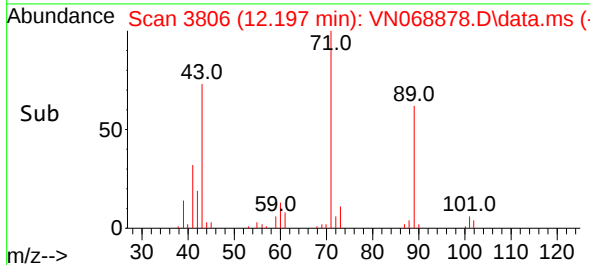
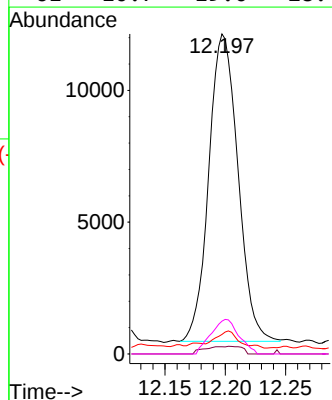
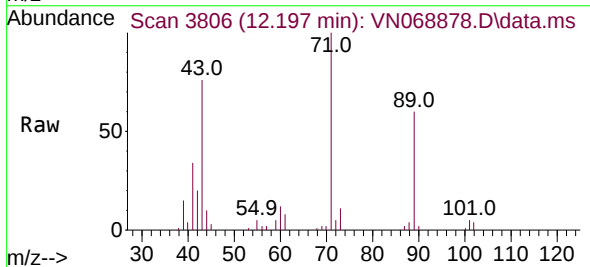
Instrument :
MSVOA_N
ClientSampled :

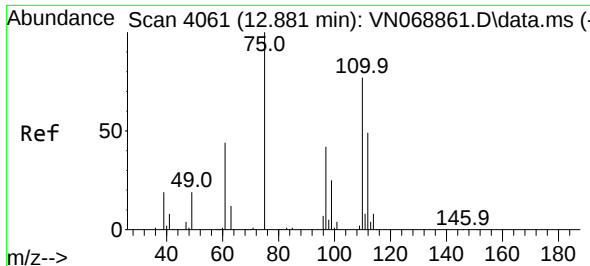
Tgt Ion:152 Resp: 252772
Ion Ratio Lower Upper
152 100
115 60.7 31.4 94.3
150 157.0 0.0 351.0



#74
N-ethyl acetate
Concen: 2.460 ug/l
RT: 12.197 min Scan# 3806
Delta R.T. -0.190 min
Lab File: VN068878.D
Acq: 12 Oct 2021 22:21

Tgt Ion: 43 Resp: 19607
Ion Ratio Lower Upper
43 100
70 3.1 32.2 48.2#
55 4.4 18.0 27.0#
61 10.7 19.0 28.4#

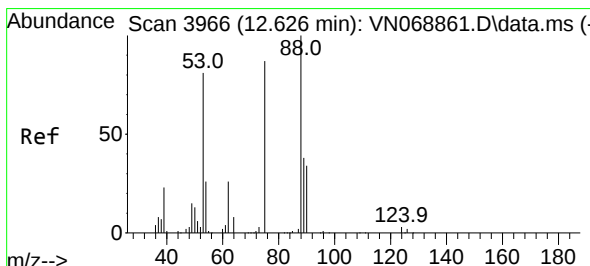
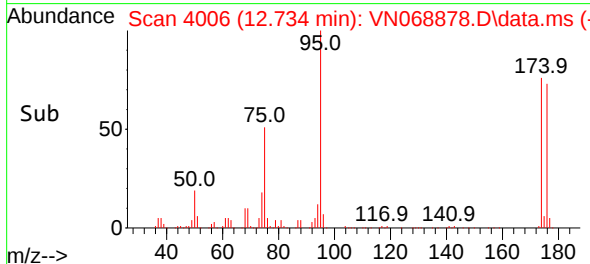
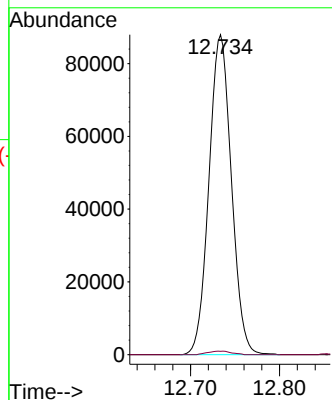
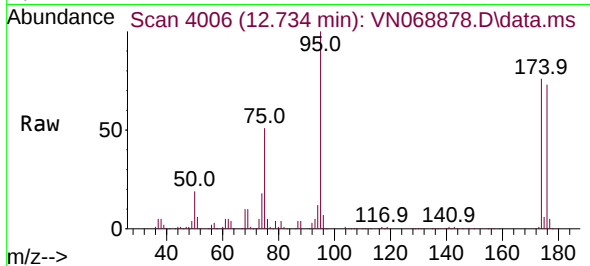




#76
1,2,3-Trichloropropane
Concen: 28.577 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.147 min
Lab File: VN068878.D
Acq: 12 Oct 2021 22:21

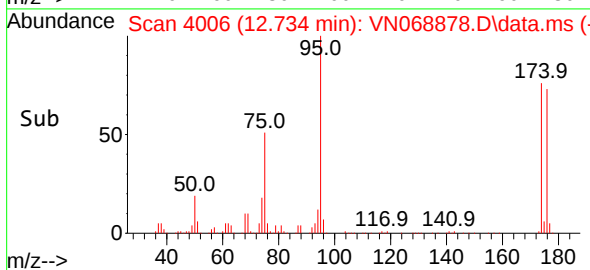
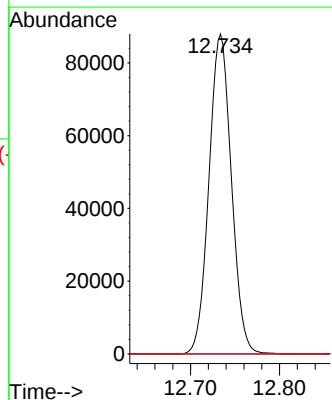
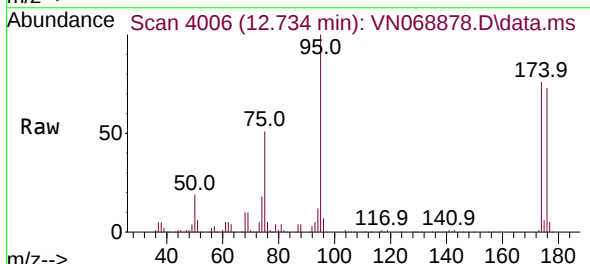
Instrument :
MSVOA_N
ClientSampled :

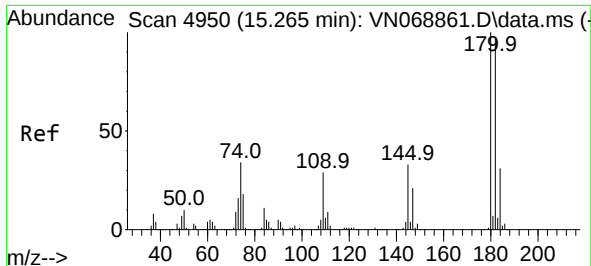
Tgt Ion: 75 Resp: 153696
Ion Ratio Lower Upper
75 100
77 1.2 96.2 288.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 68.369 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.107 min
Lab File: VN068878.D
Acq: 12 Oct 2021 22:21

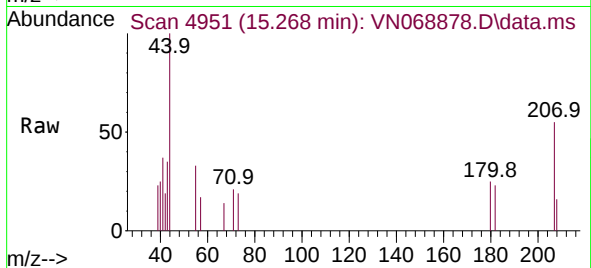
Tgt Ion: 75 Resp: 153696
Ion Ratio Lower Upper
75 100
53 0.0 75.4 113.2#
89 0.0 36.9 55.3#



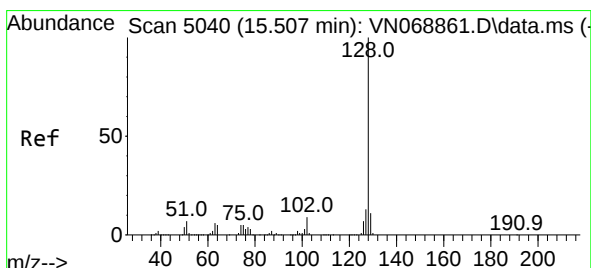
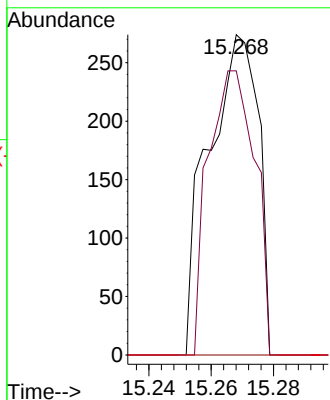
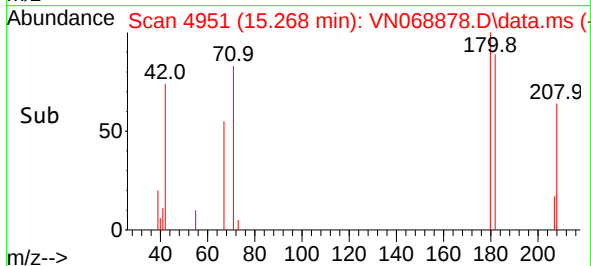


#93
1,2,4-Trichlorobenzene
Concen: 2.670 ug/l
RT: 15.268 min Scan# 4951
Delta R.T. 0.003 min
Lab File: VN068878.D
Acq: 12 Oct 2021 22:21

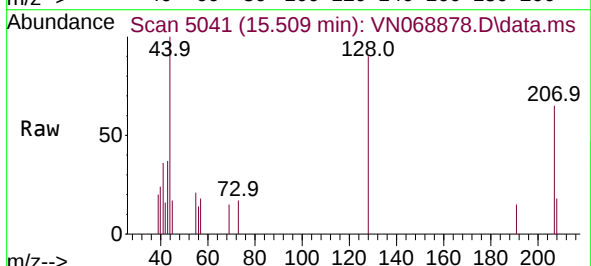
Instrument :
MSVOA_N
ClientSampled :



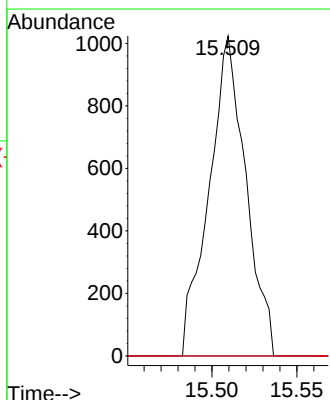
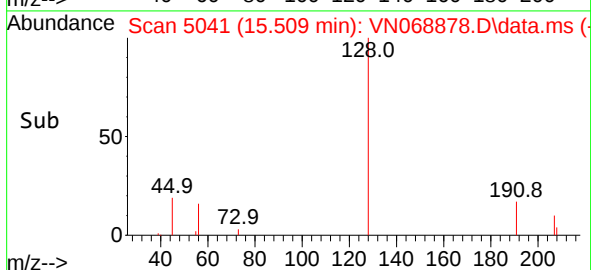
Tgt Ion:180 Resp: 305
Ion Ratio Lower Upper
180 100
182 82.3 47.9 143.7
145 0.0 16.4 49.2#

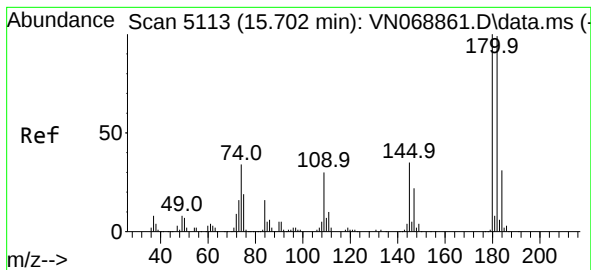


#95
Naphthalene
Concen: 3.933 ug/l
RT: 15.509 min Scan# 5041
Delta R.T. 0.002 min
Lab File: VN068878.D
Acq: 12 Oct 2021 22:21



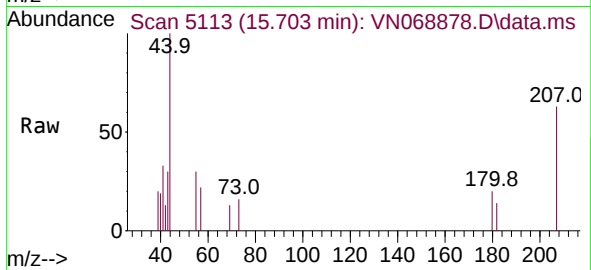
Tgt Ion:128 Resp: 1545
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.9 13.3#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.557 ug/l
 RT: 15.703 min Scan# 5113
 Delta R.T. 0.001 min
 Lab File: VN068878.D
 Acq: 12 Oct 2021 22:21

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	183
Ion	Ratio	Lower	Upper
180	100		
182	108.7	48.1	144.3
145	0.0	17.4	52.2#

