

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101221\
 Data File : VN068879.D
 Acq On : 12 Oct 2021 22:47
 Operator : JC/MD
 Sample : M4159-15
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 13 08:24:31 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)

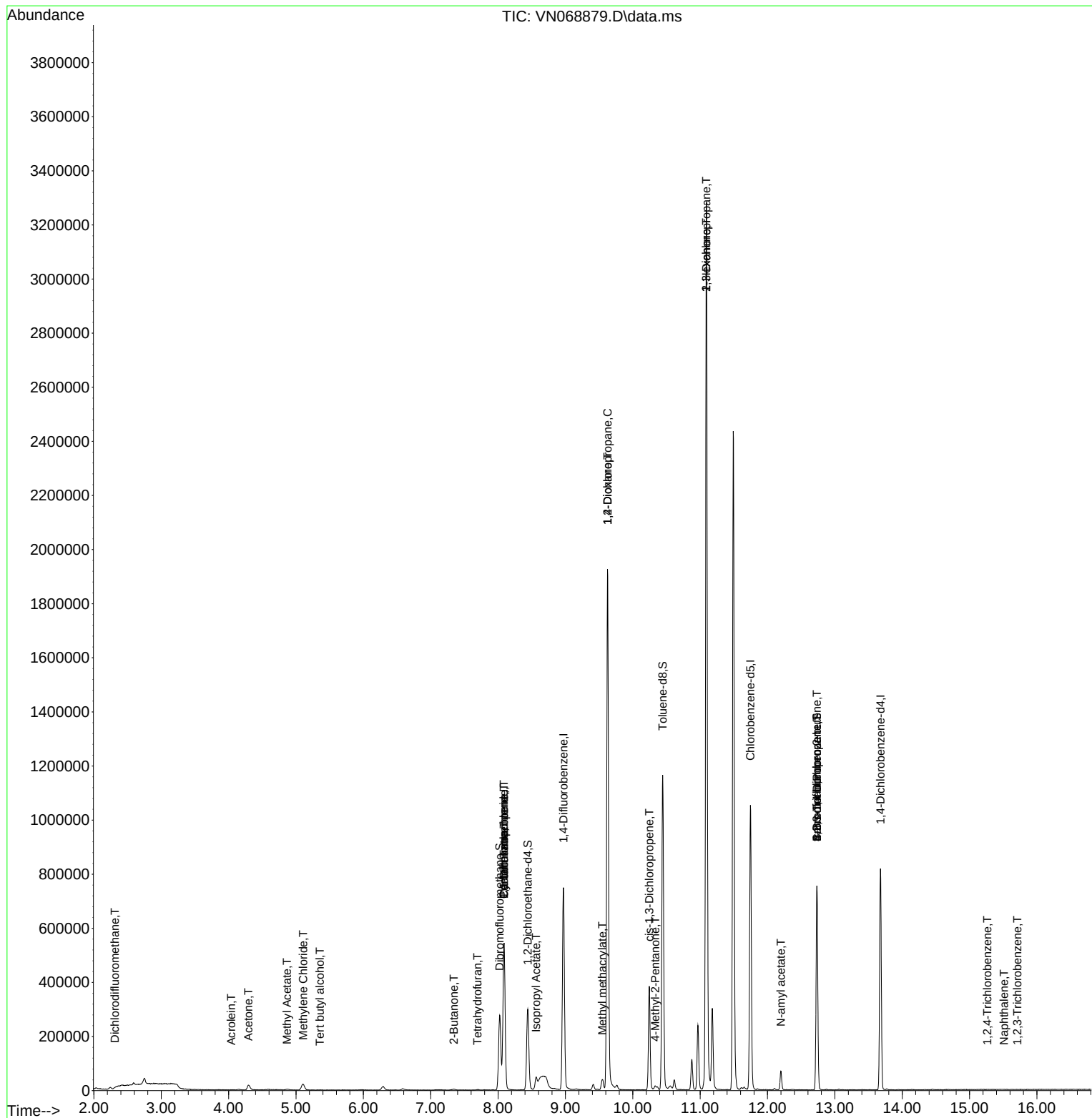
Internal Standards						
1) Pentafluorobenzene	8.088	168	420224	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	687044	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.746	117	621648	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.677	152	225943	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	250508	45.214	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 90.420%			
35) Dibromofluoromethane	8.024	113	205832	51.493	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 102.980%			
50) Toluene-d8	10.443	98	831093	51.964	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 103.920%			
62) 4-Bromofluorobenzene	12.733	95	273647	45.349	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 90.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.311	85	53	1.253	ug/l #	42
11) Tert butyl alcohol	5.355	59	279	0.276	ug/l #	1
13) Acrolein	4.038	56	133	0.297	ug/l #	34
16) Acetone	4.293	43	33490	16.197	ug/l	99
18) Methyl Acetate	4.867	43	6643	0.847	ug/l	93
20) Methylene Chloride	5.106	84	18851	3.961	ug/l	91
25) 2-Butanone	7.343	43	5627	1.800	ug/l	93
29) Tetrahydrofuran	7.694	42	413	0.204	ug/l #	23
31) Cyclohexane	8.088	56	9709	1.127	ug/l #	1
36) 1,1-Dichloropropene	8.088	75	32550	5.547	ug/l #	50
38) Carbon Tetrachloride	8.088	117	42141	6.538	ug/l #	16
43) Isopropyl Acetate	8.566	43	54763	5.121	ug/l #	85
45) 1,2-Dichloropropane	9.625	63	2426	0.523	ug/l #	43
48) Methyl methacrylate	9.547	41	9822	1.955	ug/l #	13
49) 1,4-Dioxane	9.625	88	160	37.209	ug/l #	1
51) 4-Methyl-2-Pentanone	10.333	43	7968	1.285	ug/l #	85
54) cis-1,3-Dichloropropene	10.245	75	73691	9.533	ug/l #	59
57) 1,3-Dichloropropane	11.092	76	36392	4.869	ug/l #	42
59) 2-Hexanone	11.092	43	522916	117.595	ug/l #	50
71) Bromoform	12.733	173	2085	0.565	ug/l #	1
74) N-amyl acetate	12.197	43	22269	3.125	ug/l #	54
76) 1,2,3-Trichloropropane	12.733	75	139425	29.002	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.733	75	139425	69.386	ug/l #	12
93) 1,2,4-Trichlorobenzene	15.265	180	245	2.663	ug/l #	59
95) Naphthalene	15.512	128	1240	3.921	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.708	180	148	2.553	ug/l #	25

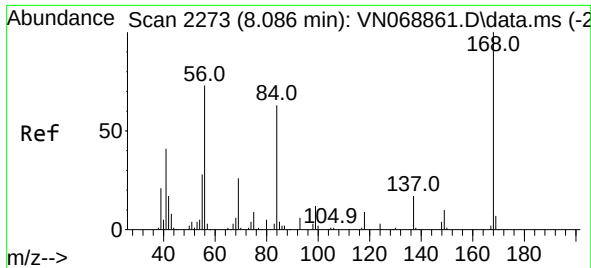
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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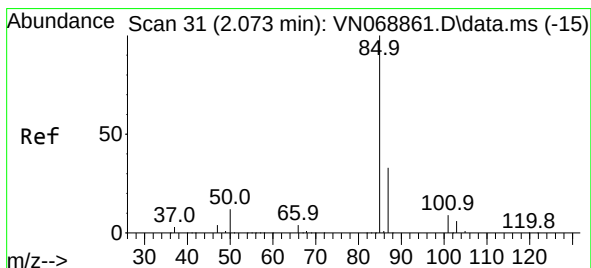
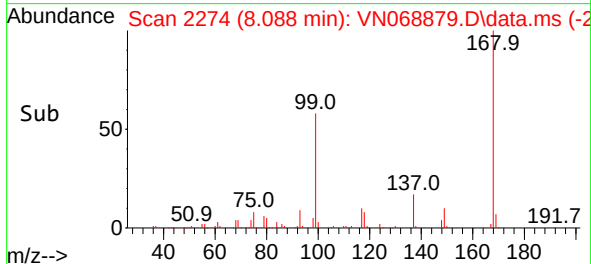
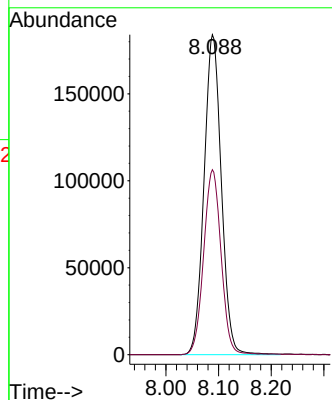
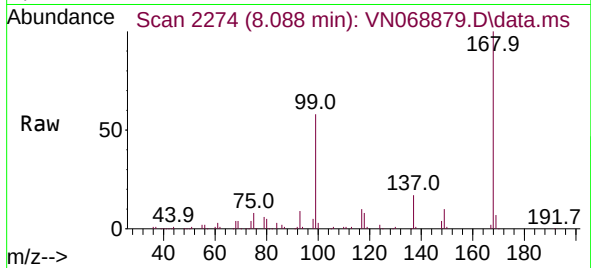




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. 0.002 min
Lab File: VN068879.D
Acq: 12 Oct 2021 22:47

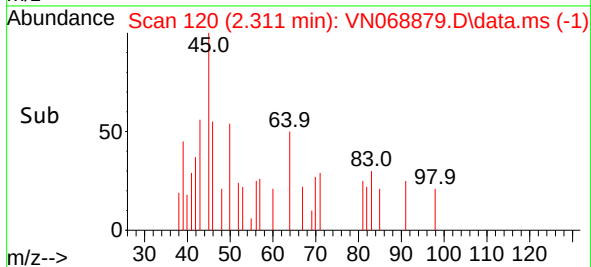
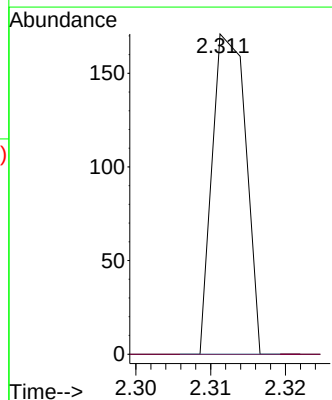
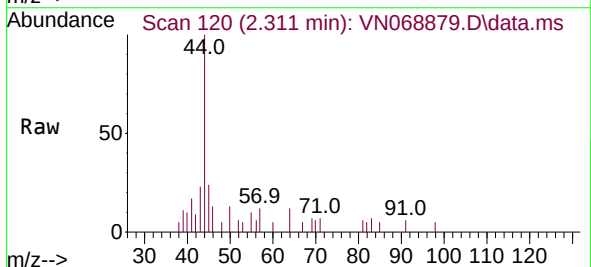
Instrument :
MSVOA_N
ClientSampled :

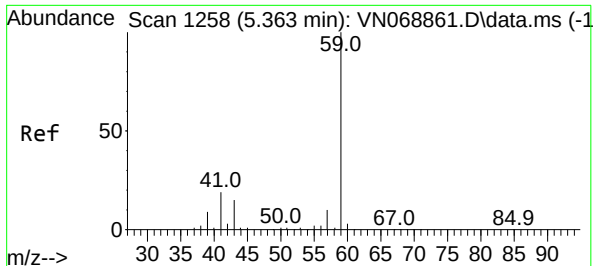
Tgt Ion:168 Resp: 420224
Ion Ratio Lower Upper
168 100
99 57.8 48.9 73.3



#2
Dichlorodifluoromethane
Concen: 1.253 ug/l
RT: 2.311 min Scan# 120
Delta R.T. 0.238 min
Lab File: VN068879.D
Acq: 12 Oct 2021 22:47

Tgt Ion: 85 Resp: 53
Ion Ratio Lower Upper
85 100
87 0.0 16.3 48.8#



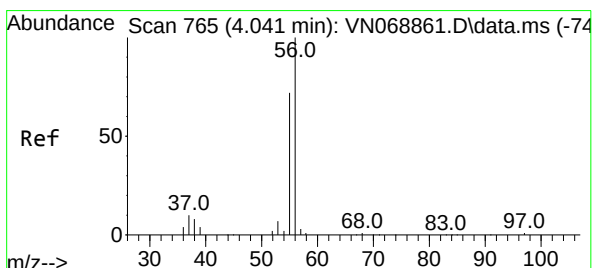
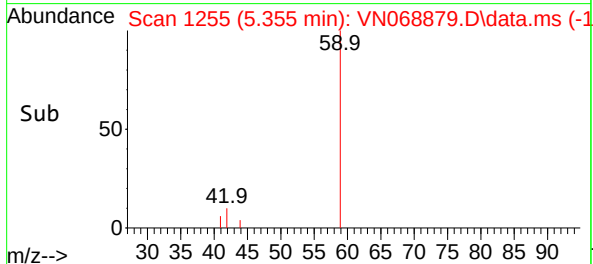
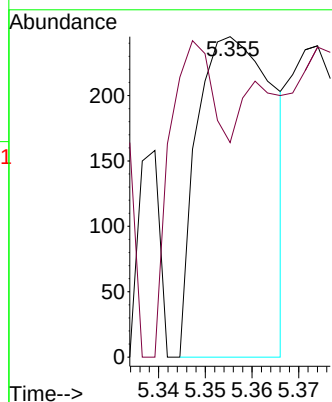
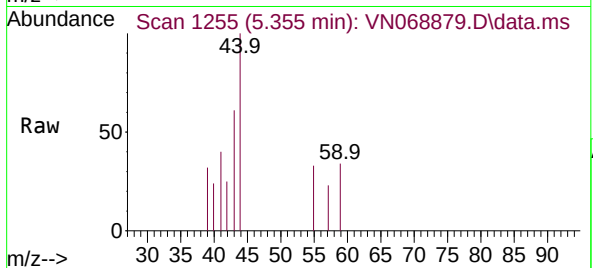


#11

Tert butyl alcohol
Concen: 0.276 ug/l
RT: 5.355 min Scan# 1255
Delta R.T. -0.008 min
Lab File: VN068879.D
Acq: 12 Oct 2021 22:47

Instrument :
MSVOA_N
ClientSampled :

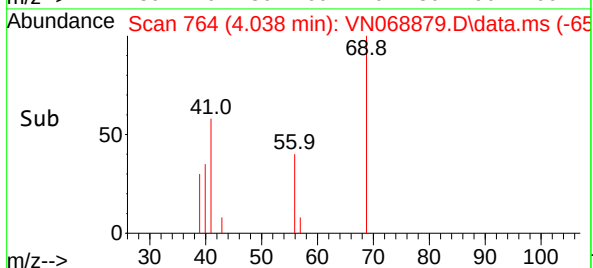
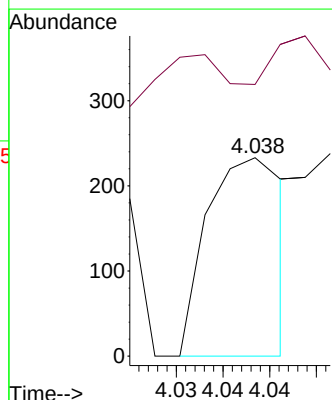
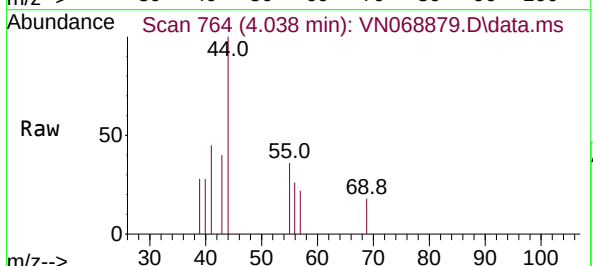
Tgt Ion: 59 Resp: 279
Ion Ratio Lower Upper
59 100
57 69.2 8.3 12.5#

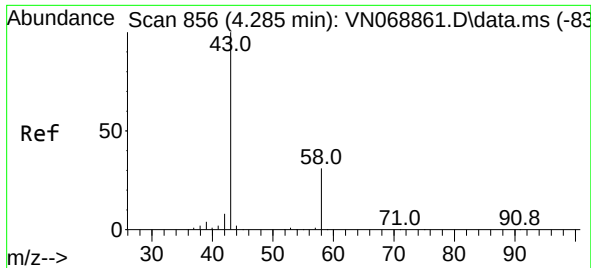


#13

Acrolein
Concen: 0.297 ug/l
RT: 4.038 min Scan# 764
Delta R.T. -0.003 min
Lab File: VN068879.D
Acq: 12 Oct 2021 22:47

Tgt Ion: 56 Resp: 133
Ion Ratio Lower Upper
56 100
55 17.3 58.1 87.1#

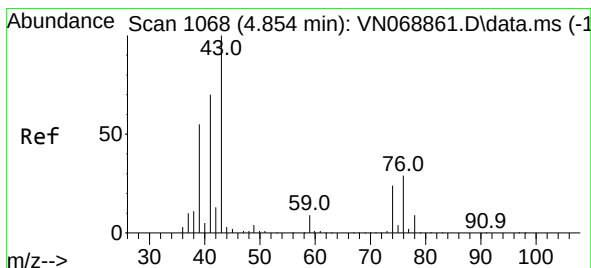
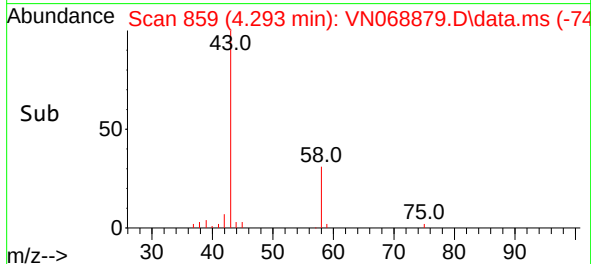
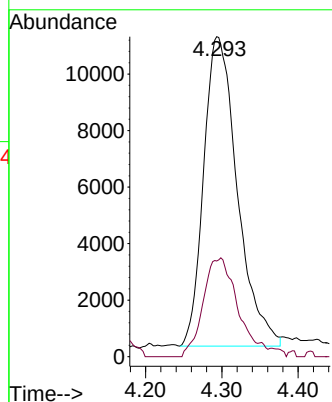
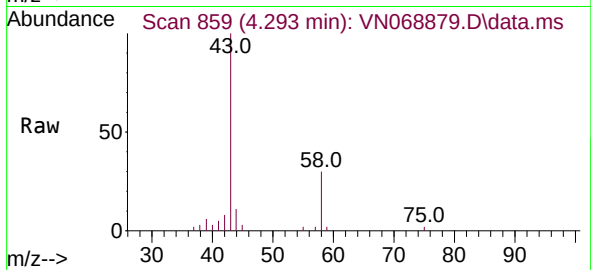




#16
Acetone
Concen: 16.197 ug/l
RT: 4.293 min Scan# 859
Delta R.T. 0.008 min
Lab File: VN068879.D
Acq: 12 Oct 2021 22:47

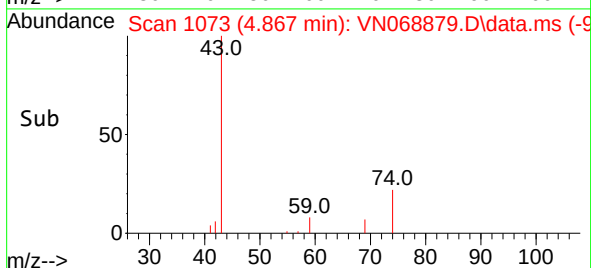
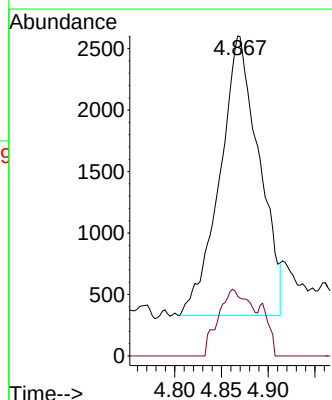
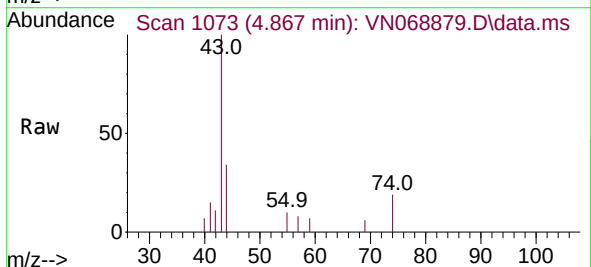
Instrument :
MSVOA_N
ClientSampled :

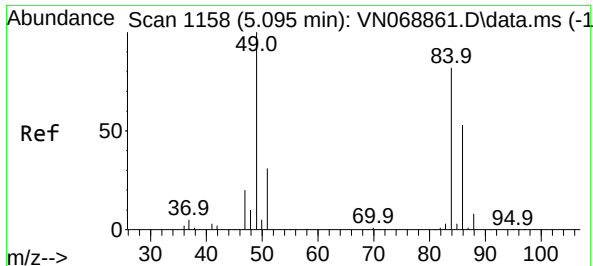
Tgt Ion: 43 Resp: 33490
Ion Ratio Lower Upper
43 100
58 30.9 24.5 36.7



#18
Methyl Acetate
Concen: 0.847 ug/l
RT: 4.867 min Scan# 1073
Delta R.T. 0.013 min
Lab File: VN068879.D
Acq: 12 Oct 2021 22:47

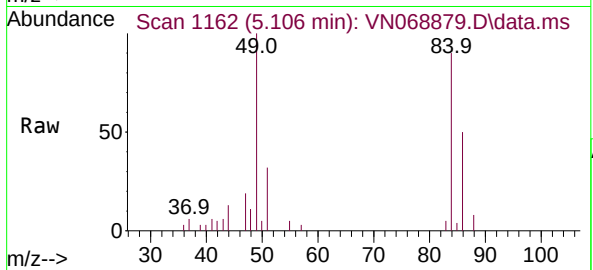
Tgt Ion: 43 Resp: 6643
Ion Ratio Lower Upper
43 100
74 20.0 18.9 28.3



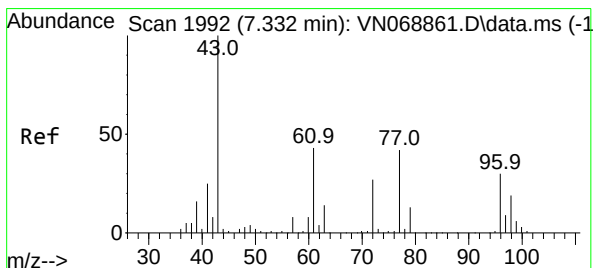
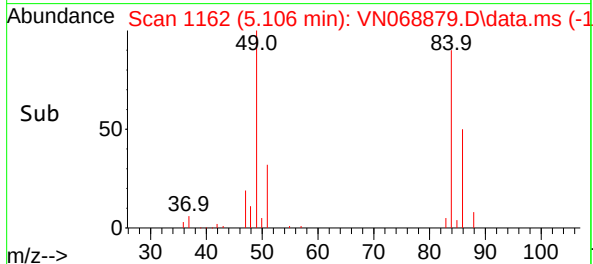
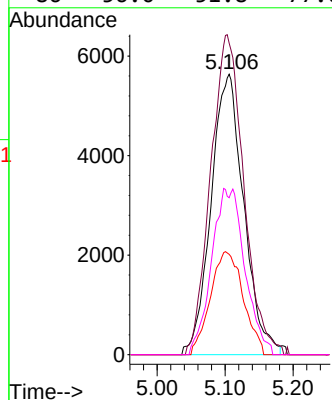


#20
Methylene Chloride
Concen: 3.961 ug/l
RT: 5.106 min Scan# 1162
Delta R.T. 0.011 min
Lab File: VN068879.D
Acq: 12 Oct 2021 22:47

Instrument :
MSVOA_N
ClientSampleId :

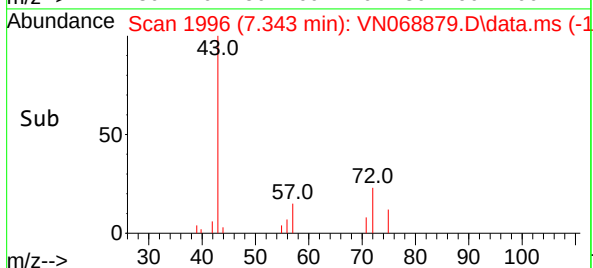
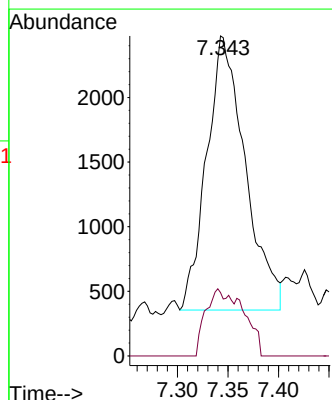
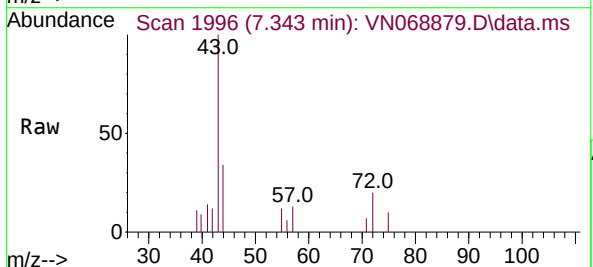


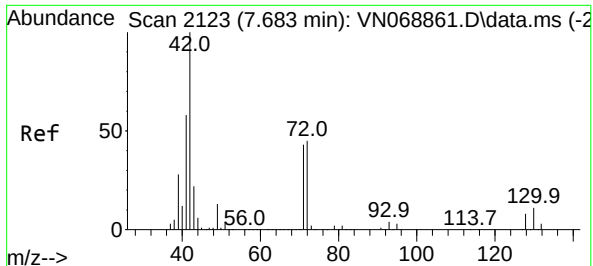
Tgt Ion:	84	Resp:	18851
Ion	Ratio	Lower	Upper
84	100		
49	111.1	97.6	146.4
51	35.8	30.3	45.5
86	56.0	51.8	77.6



#25
2-Butanone
Concen: 1.800 ug/l
RT: 7.343 min Scan# 1996
Delta R.T. 0.011 min
Lab File: VN068879.D
Acq: 12 Oct 2021 22:47

Tgt Ion:	43	Resp:	5627
Ion	Ratio	Lower	Upper
43	100		
72	23.1	21.2	31.8





#29

Tetrahydrofuran

Concen: 0.204 ug/l

RT: 7.694 min Scan# 2127

Delta R.T. 0.011 min

Lab File: VN068879.D

Acq: 12 Oct 2021 22:47

Tgt Ion: 42 Resp: 413

Ion Ratio Lower Upper

42 100

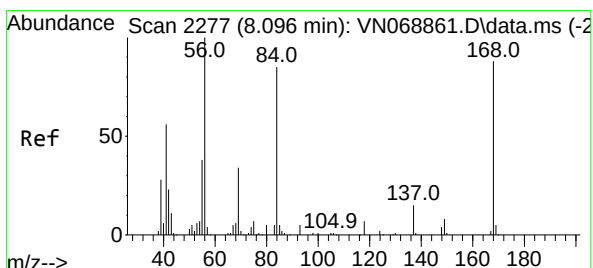
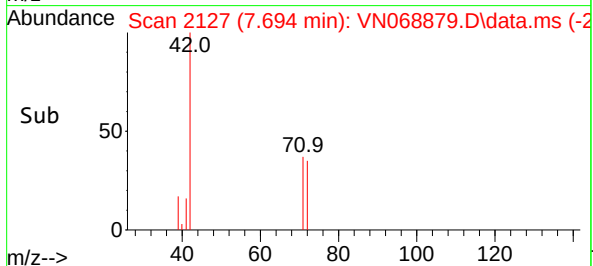
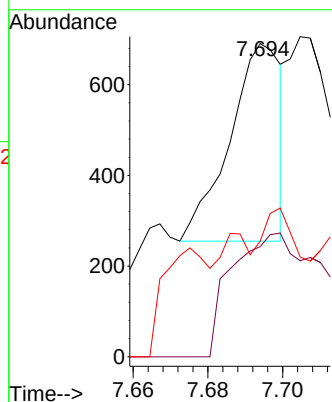
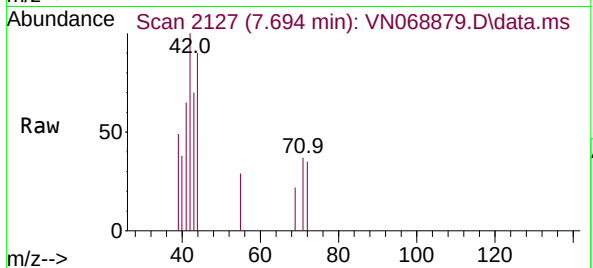
72 122.5 35.4 53.2#

71 21.8 33.8 50.6#

Instrument :

MSVOA_N

ClientSampled :



#31

Cyclohexane

Concen: 1.127 ug/l

RT: 8.088 min Scan# 2274

Delta R.T. -0.008 min

Lab File: VN068879.D

Acq: 12 Oct 2021 22:47

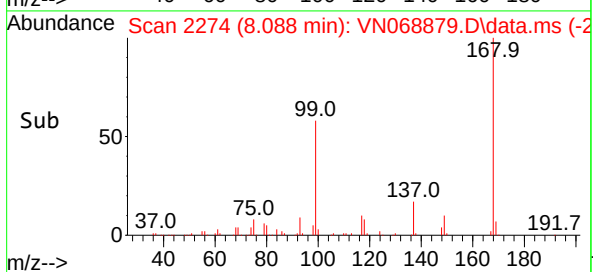
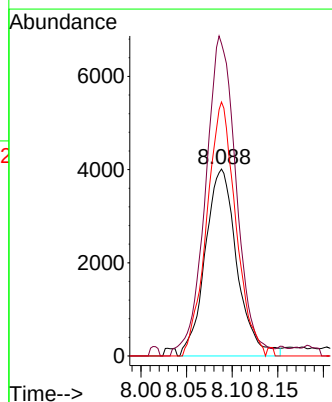
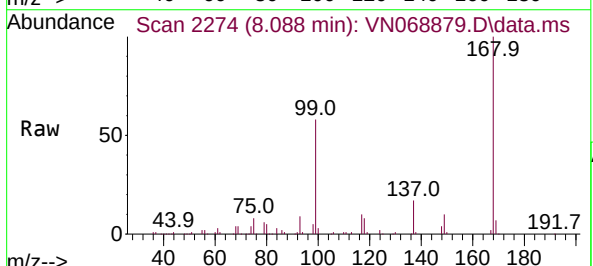
Tgt Ion: 56 Resp: 9709

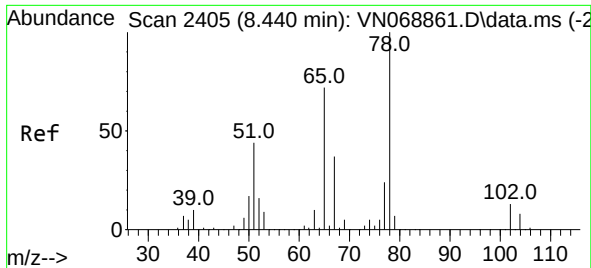
Ion Ratio Lower Upper

56 100

69 162.0 26.9 40.3#

84 135.9 67.6 101.4#

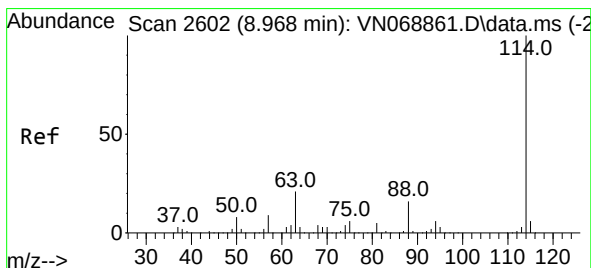
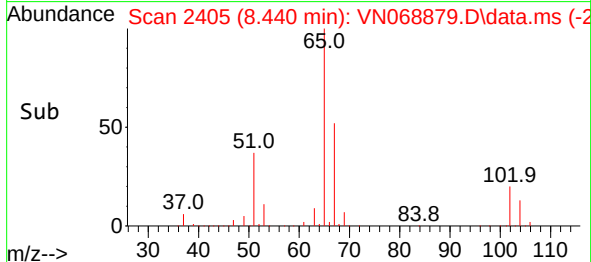
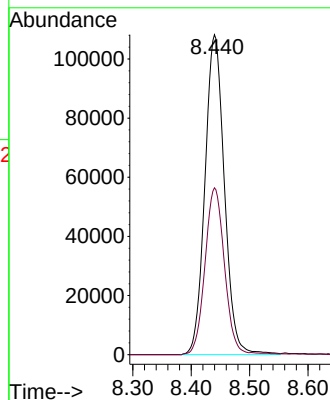
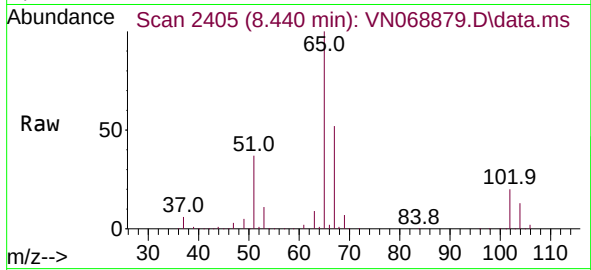




#33
 1,2-Dichloroethane-d4
 Concen: 45.214 ug/l
 RT: 8.440 min Scan# 2405
 Delta R.T. -0.000 min
 Lab File: VN068879.D
 Acq: 12 Oct 2021 22:47

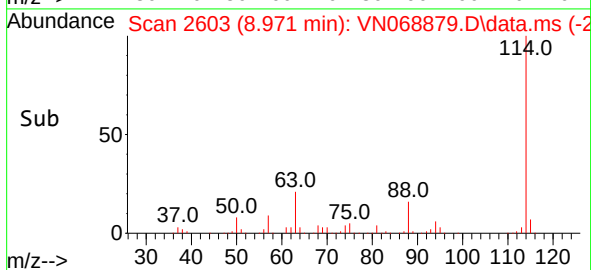
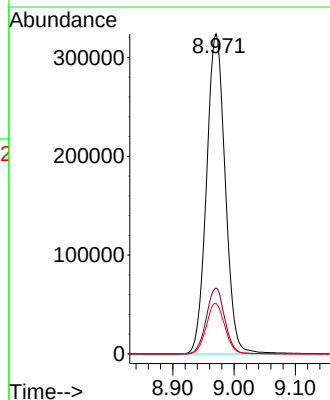
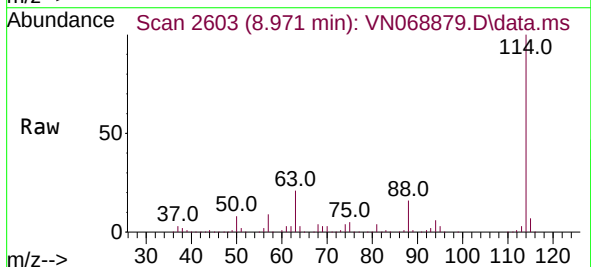
Instrument :
 MSVOA_N
 ClientSampleId :

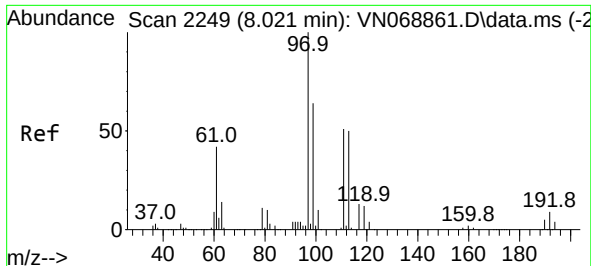
Tgt Ion: 65 Resp: 250508
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.971 min Scan# 2603
 Delta R.T. 0.003 min
 Lab File: VN068879.D
 Acq: 12 Oct 2021 22:47

Tgt Ion: 114 Resp: 687044
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 42.6
 88 15.8 0.0 32.0

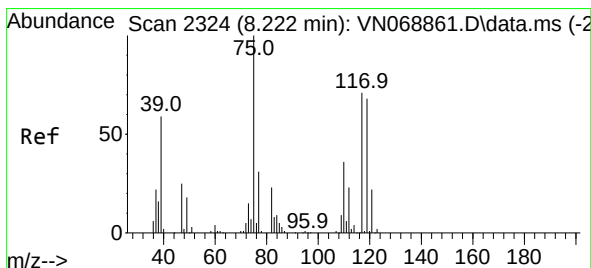
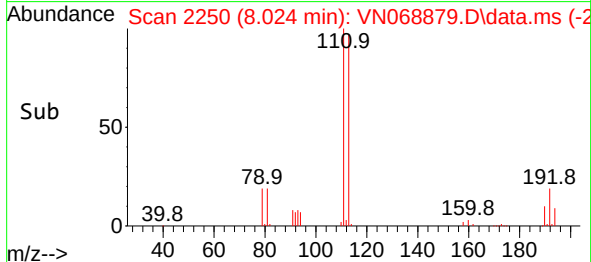
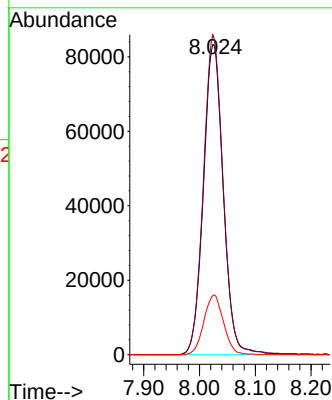
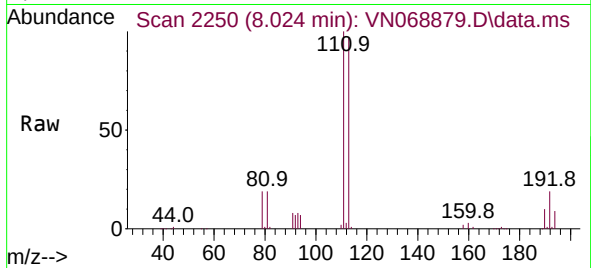




#35
Dibromofluoromethane
Concen: 51.493 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.003 min
Lab File: VN068879.D
Acq: 12 Oct 2021 22:47

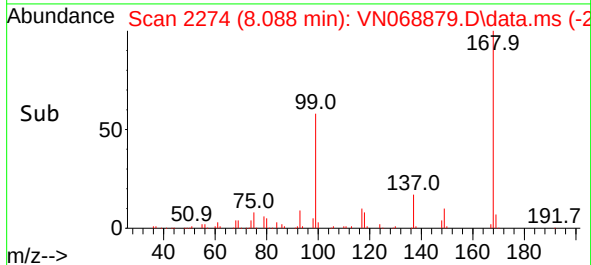
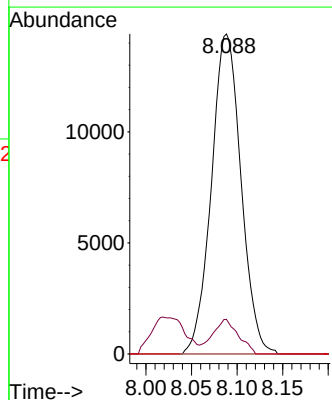
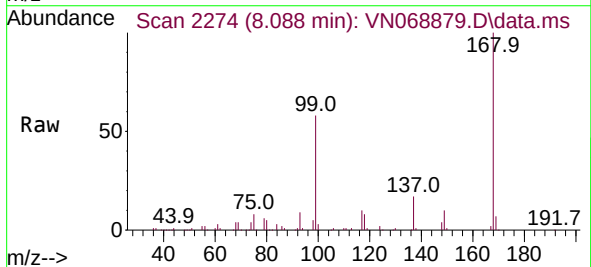
Instrument :
MSVOA_N
ClientSampled :

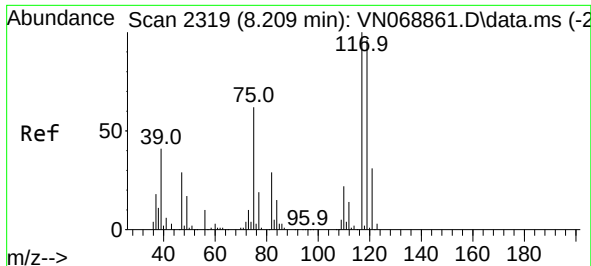
Tgt Ion:113 Resp: 205832
Ion Ratio Lower Upper
113 100
111 102.1 83.2 124.8
192 19.1 15.0 22.4



#36
1,1-Dichloropropene
Concen: 5.547 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.134 min
Lab File: VN068879.D
Acq: 12 Oct 2021 22:47

Tgt Ion: 75 Resp: 32550
Ion Ratio Lower Upper
75 100
110 9.5 17.9 53.8#
77 0.0 24.7 37.1#

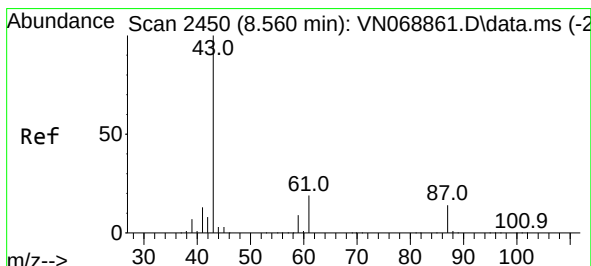
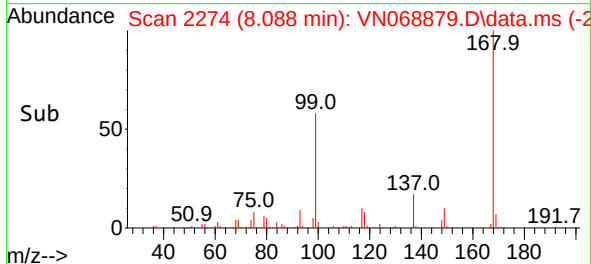
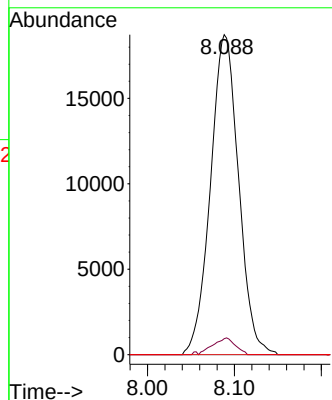
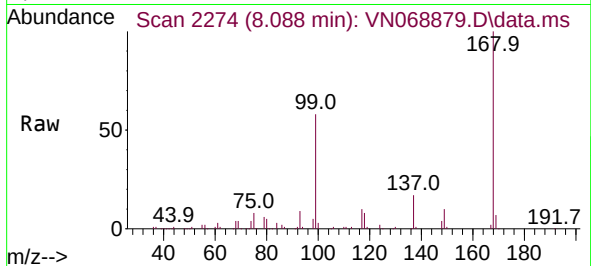




#38
Carbon Tetrachloride
Concen: 6.538 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.121 min
Lab File: VN068879.D
Acq: 12 Oct 2021 22:47

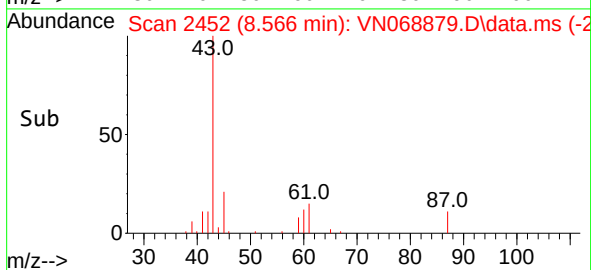
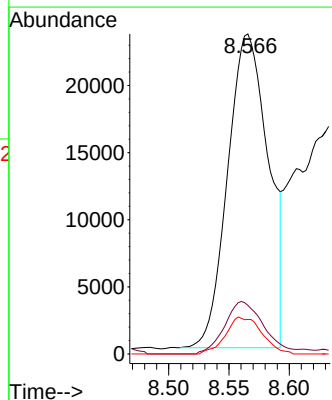
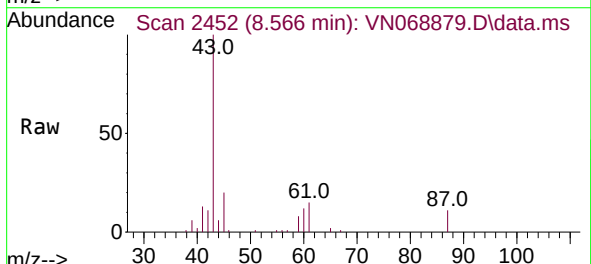
Instrument :
MSVOA_N
ClientSampled :

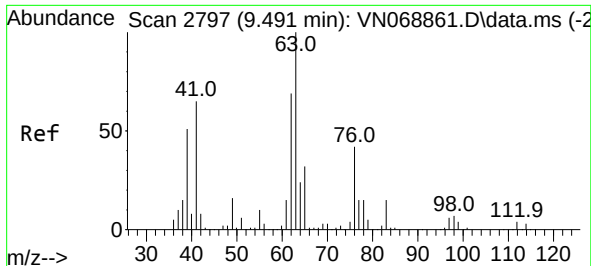
Tgt Ion:117 Resp: 42141
Ion Ratio Lower Upper
117 100
119 5.0 76.9 115.3#
121 0.0 24.6 37.0#



#43
Isopropyl Acetate
Concen: 5.121 ug/l
RT: 8.566 min Scan# 2452
Delta R.T. 0.005 min
Lab File: VN068879.D
Acq: 12 Oct 2021 22:47

Tgt Ion: 43 Resp: 54763
Ion Ratio Lower Upper
43 100
61 16.1 20.4 30.6#
87 10.5 10.7 16.1#

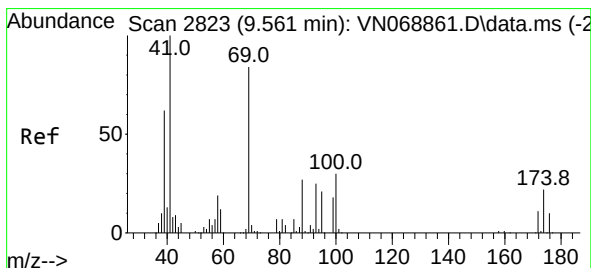
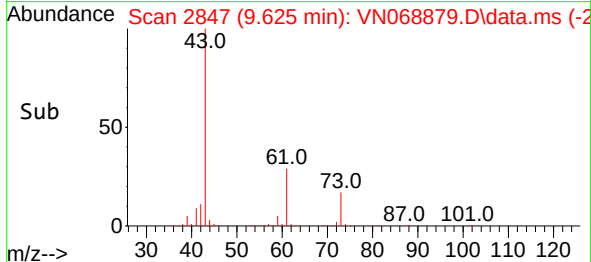
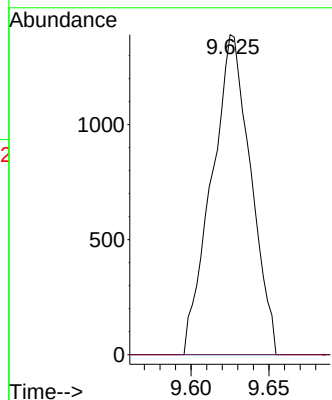
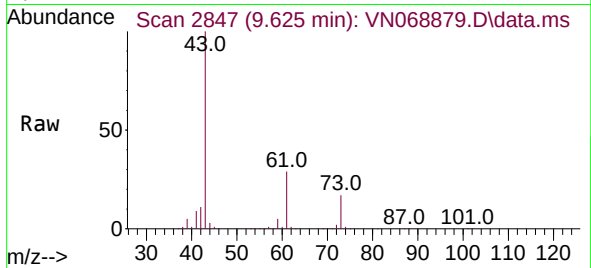




#45
1,2-Dichloropropane
Concen: 0.523 ug/l
RT: 9.625 min Scan# 2847
Delta R.T. 0.134 min
Lab File: VN068879.D
Acq: 12 Oct 2021 22:47

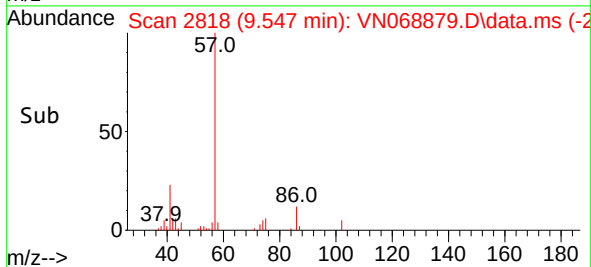
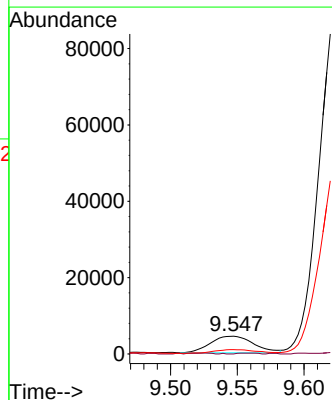
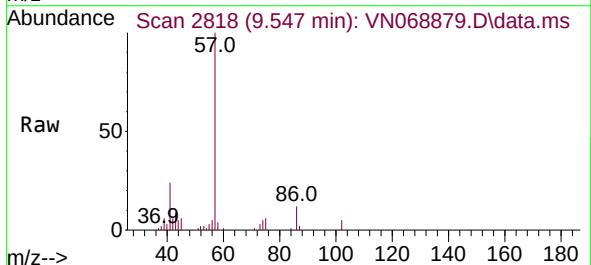
Instrument :
MSVOA_N
ClientSampled :

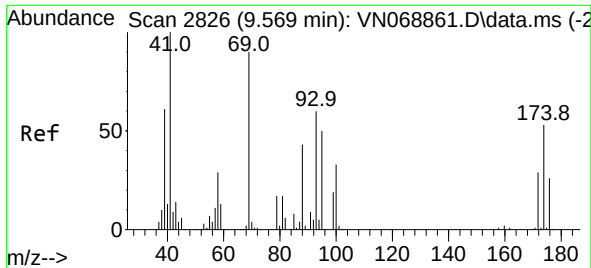
Tgt Ion: 63 Resp: 2426
Ion Ratio Lower Upper
63 100
65 0.0 25.6 38.4#



#48
Methyl methacrylate
Concen: 1.955 ug/l
RT: 9.547 min Scan# 2818
Delta R.T. -0.013 min
Lab File: VN068879.D
Acq: 12 Oct 2021 22:47

Tgt Ion: 41 Resp: 9822
Ion Ratio Lower Upper
41 100
69 0.2 66.4 99.6#
39 0.0 50.2 75.2#

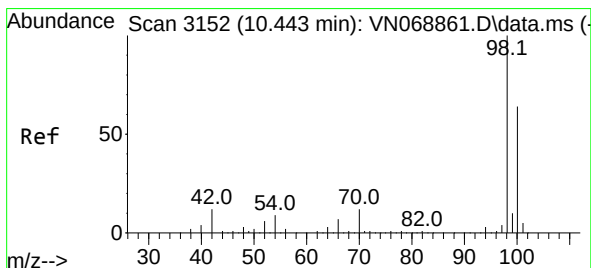
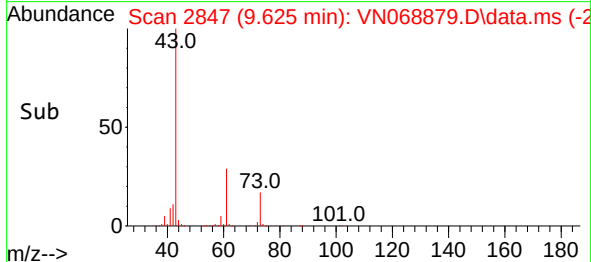
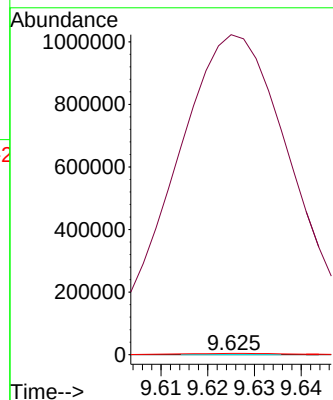
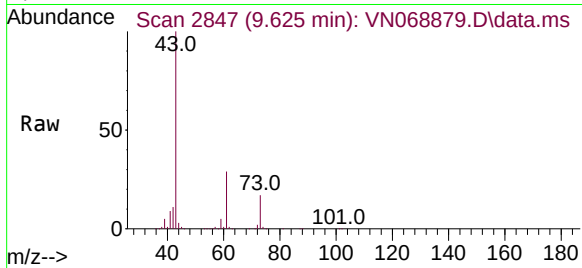




#49
1,4-Dioxane
Concen: 37.209 ug/l
RT: 9.625 min Scan# 2847
Delta R.T. 0.056 min
Lab File: VN068879.D
Acq: 12 Oct 2021 22:47

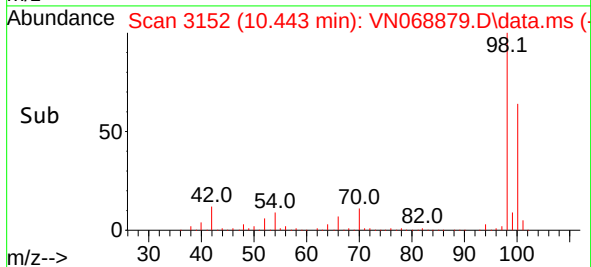
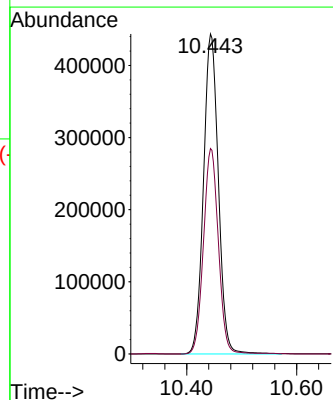
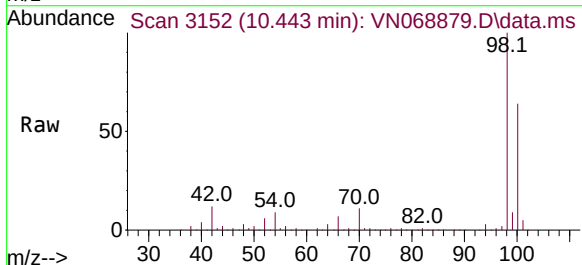
Instrument :
MSVOA_N
ClientSampleId :

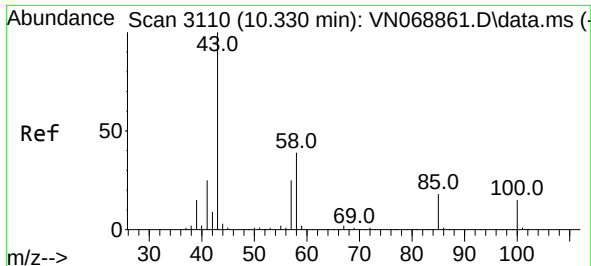
Tgt Ion: 88 Resp: 160
Ion Ratio Lower Upper
88 100
43 1212765.6 24.9 37.3#
58 4695.6 56.9 85.3#



#50
Toluene-d8
Concen: 51.964 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. -0.000 min
Lab File: VN068879.D
Acq: 12 Oct 2021 22:47

Tgt Ion: 98 Resp: 831093
Ion Ratio Lower Upper
98 100
100 64.2 51.5 77.3

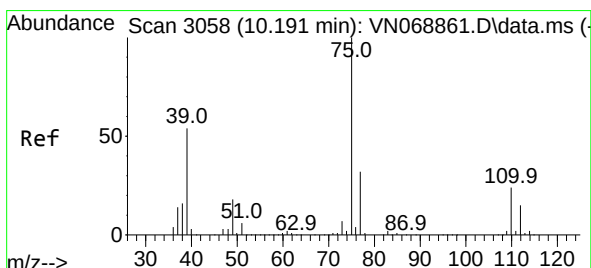
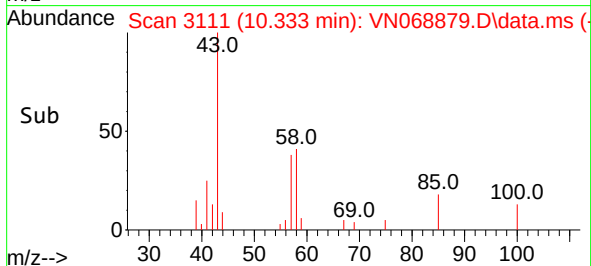
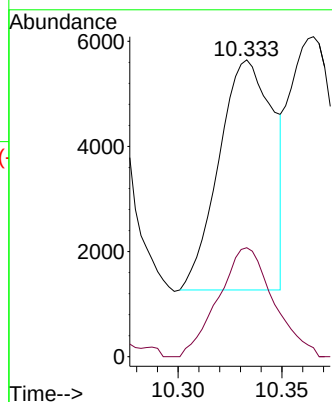
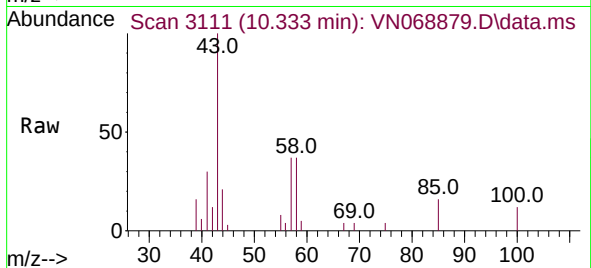




#51
4-Methyl-2-Pentanone
Concen: 1.285 ug/l
RT: 10.333 min Scan# 3111
Delta R.T. 0.003 min
Lab File: VN068879.D
Acq: 12 Oct 2021 22:47

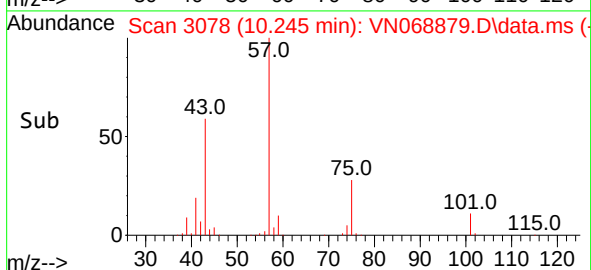
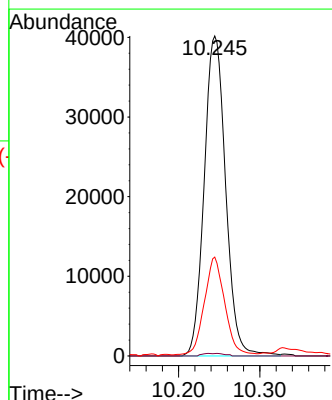
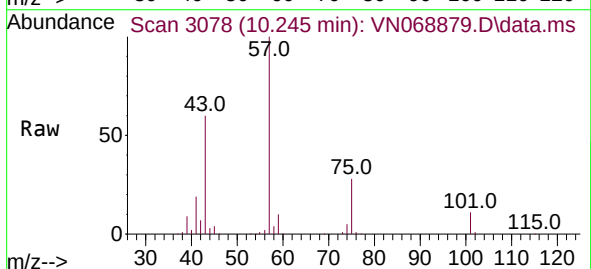
Instrument :
MSVOA_N
ClientSampled :

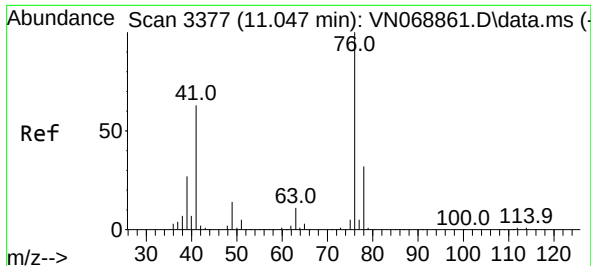
Tgt Ion: 43 Resp: 7968
Ion Ratio Lower Upper
43 100
58 47.9 31.0 46.4#



#54
cis-1,3-Dichloropropene
Concen: 9.533 ug/l
RT: 10.245 min Scan# 3078
Delta R.T. 0.054 min
Lab File: VN068879.D
Acq: 12 Oct 2021 22:47

Tgt Ion: 75 Resp: 73691
Ion Ratio Lower Upper
75 100
77 0.7 25.6 38.4#
39 30.4 42.9 64.3#

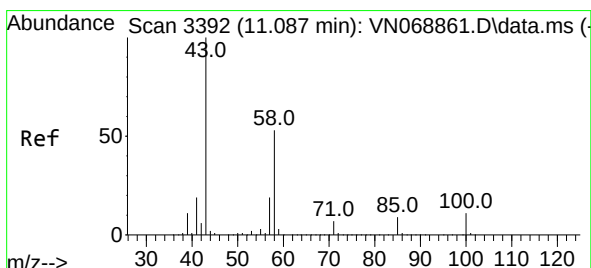
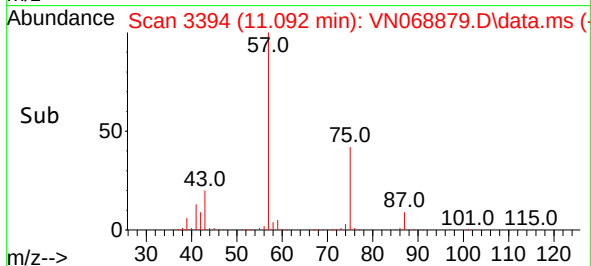
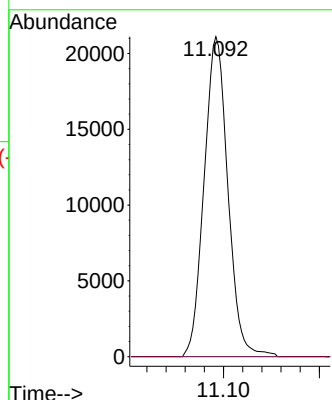
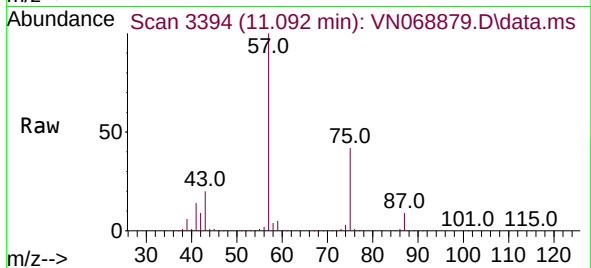




#57
1,3-Dichloropropane
Concen: 4.869 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.046 min
Lab File: VN068879.D
Acq: 12 Oct 2021 22:47

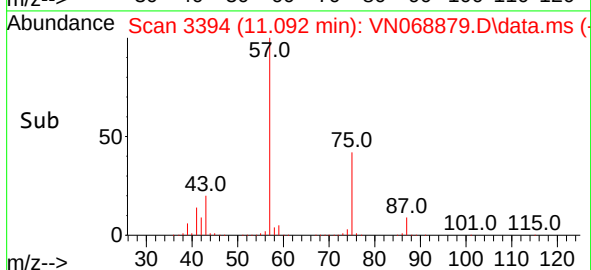
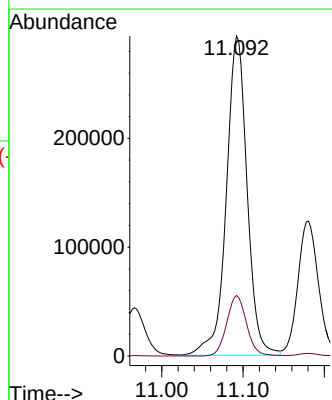
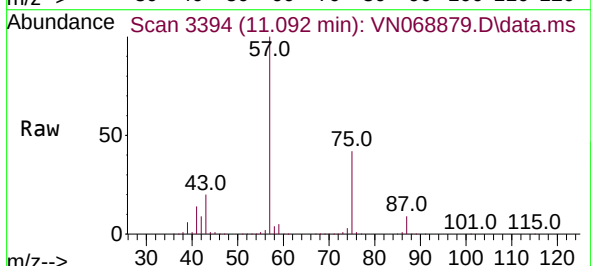
Instrument :
MSVOA_N
ClientSampleId :

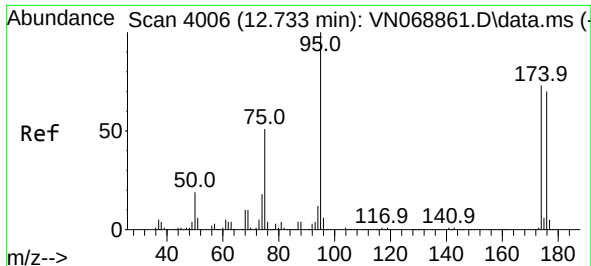
Tgt Ion: 76 Resp: 36392
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.8#



#59
2-Hexanone
Concen: 117.595 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.005 min
Lab File: VN068879.D
Acq: 12 Oct 2021 22:47

Tgt Ion: 43 Resp: 522916
Ion Ratio Lower Upper
43 100
58 18.1 26.9 80.7#

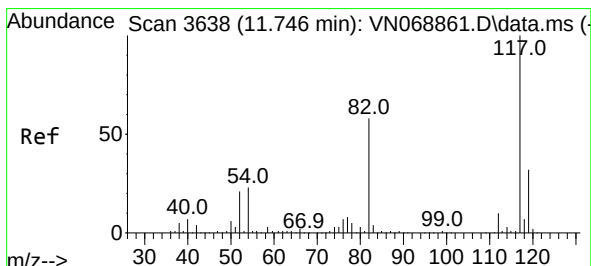
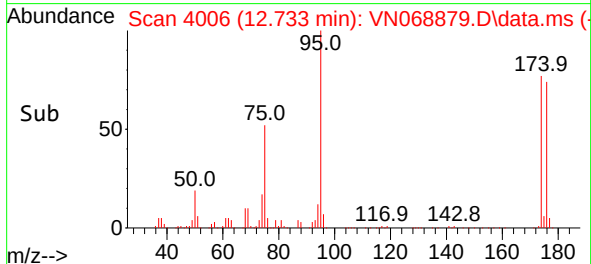
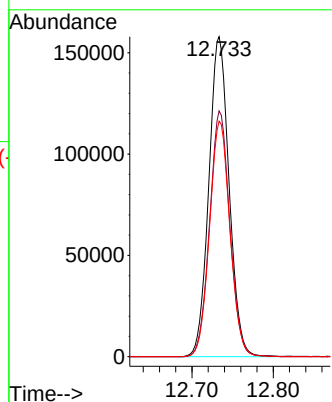
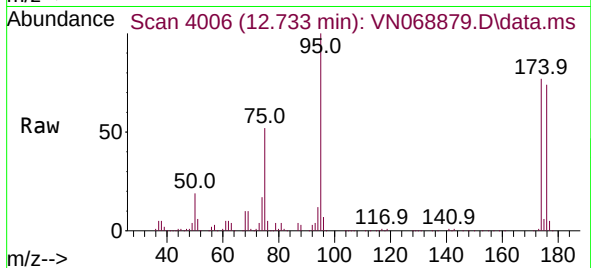




#62
4-Bromofluorobenzene
Concen: 45.349 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.000 min
Lab File: VN068879.D
Acq: 12 Oct 2021 22:47

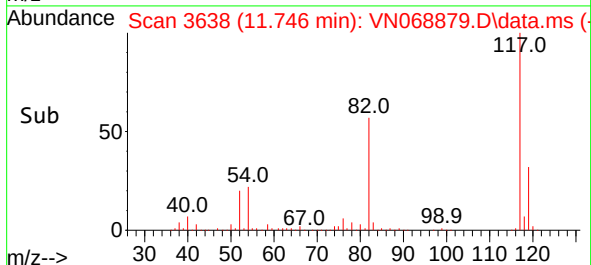
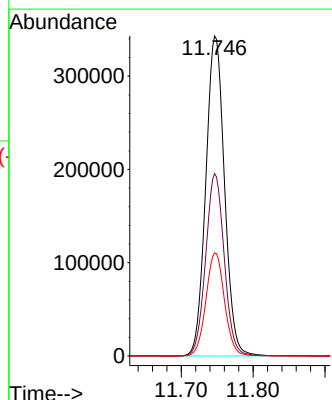
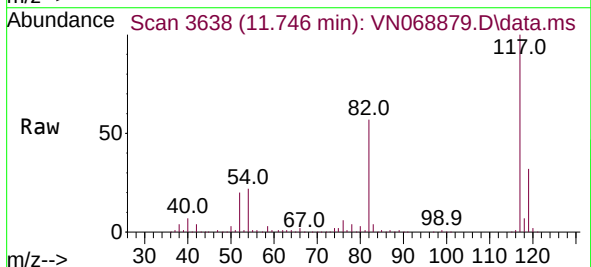
Instrument :
MSVOA_N
ClientSampleId :

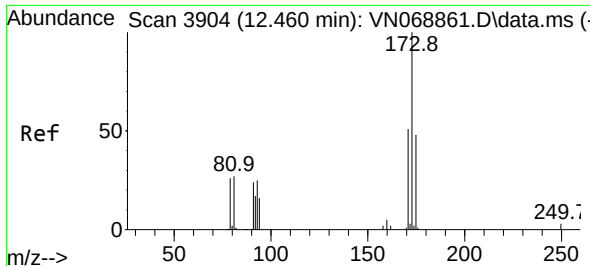
Tgt Ion: 95 Resp: 273647
Ion Ratio Lower Upper
95 100
174 76.7 0.0 144.8
176 74.0 0.0 140.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. -0.000 min
Lab File: VN068879.D
Acq: 12 Oct 2021 22:47

Tgt Ion: 117 Resp: 621648
Ion Ratio Lower Upper
117 100
82 57.0 46.4 69.6
119 32.2 26.0 39.0

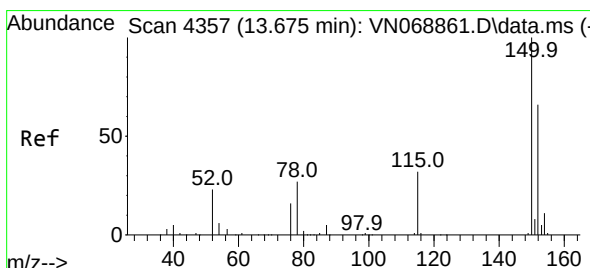
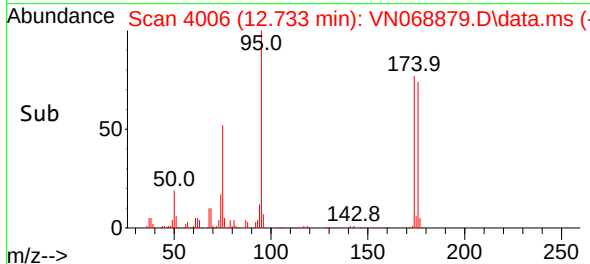
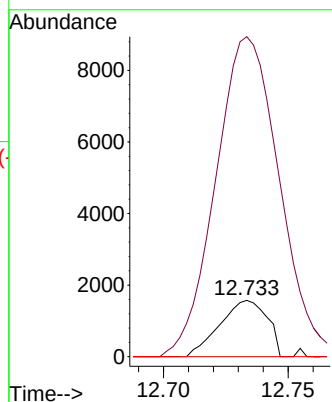
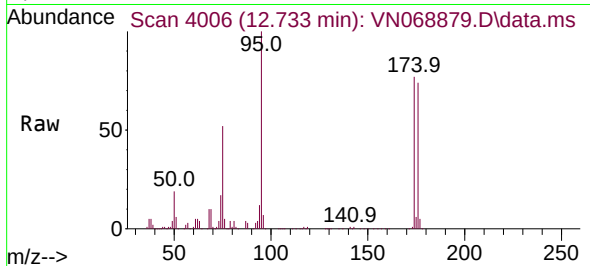




#71
Bromoform
Concen: 0.565 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.274 min
Lab File: VN068879.D
Acq: 12 Oct 2021 22:47

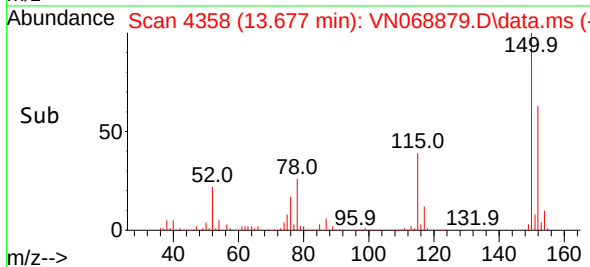
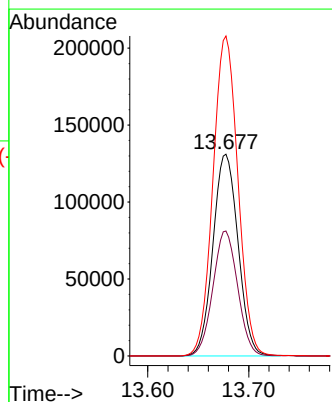
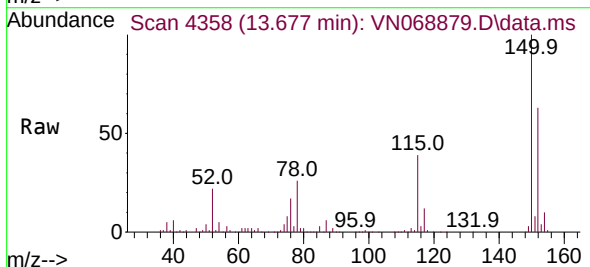
Instrument :
MSVOA_N
ClientSampleId :

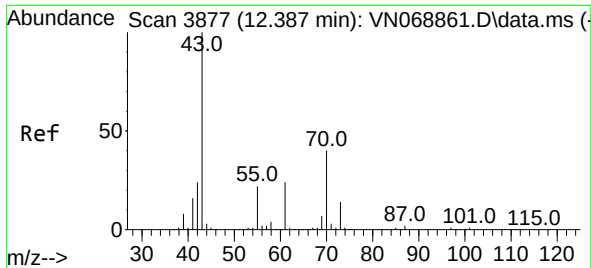
Tgt Ion:173 Resp: 2085
Ion Ratio Lower Upper
173 100
175 700.5 23.8 71.5#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.677 min Scan# 4358
Delta R.T. 0.003 min
Lab File: VN068879.D
Acq: 12 Oct 2021 22:47

Tgt Ion:152 Resp: 225943
Ion Ratio Lower Upper
152 100
115 61.2 31.4 94.3
150 157.9 0.0 351.0

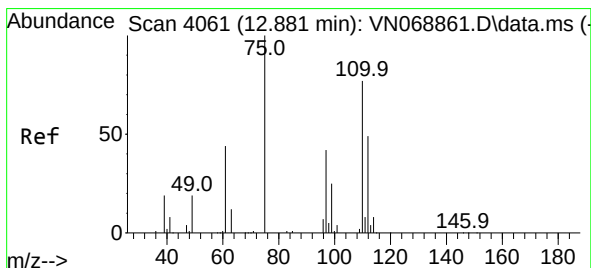
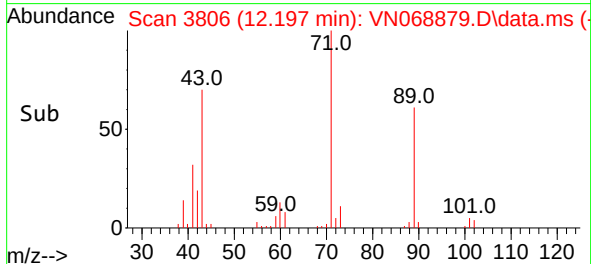
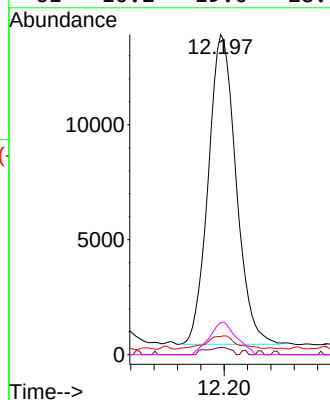
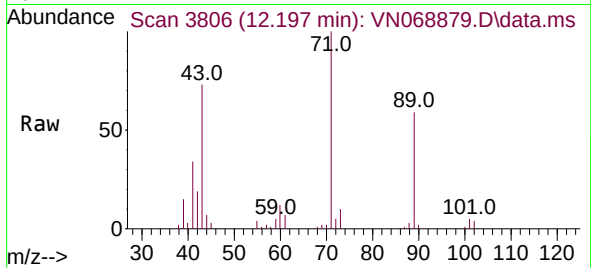




#74
N-amy1 acetate
Concen: 3.125 ug/l
RT: 12.197 min Scan# 3806
Delta R.T. -0.191 min
Lab File: VN068879.D
Acq: 12 Oct 2021 22:47

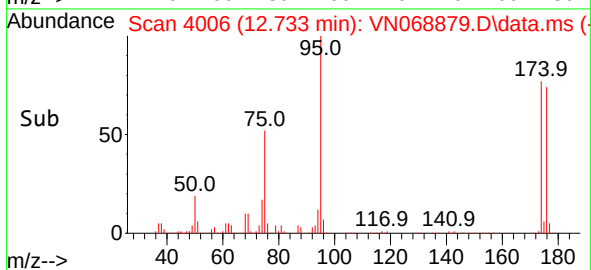
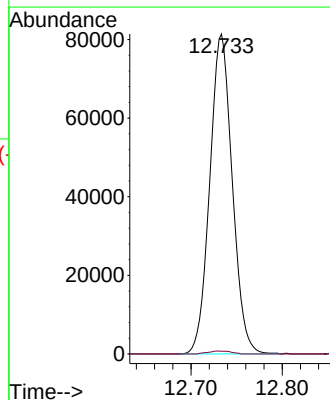
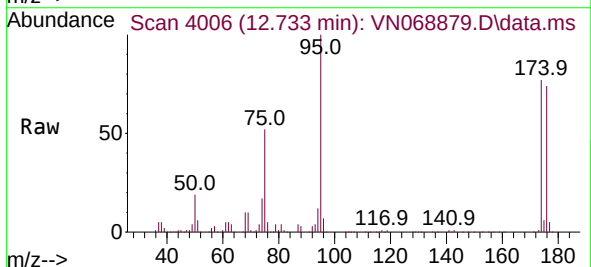
Instrument :
MSVOA_N
ClientSampleId :

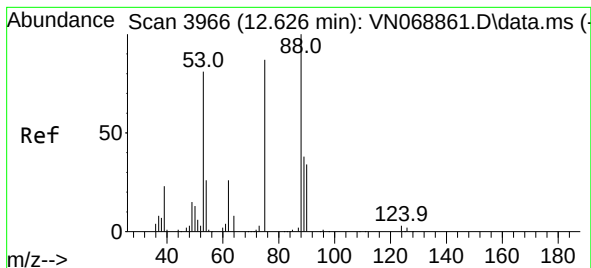
Tgt Ion:	43	Resp:	22269
Ion	Ratio	Lower	Upper
43	100		
70	2.1	32.2	48.2#
55	4.8	18.0	27.0#
61	10.2	19.0	28.4#



#76
1,2,3-Trichloropropane
Concen: 29.002 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.148 min
Lab File: VN068879.D
Acq: 12 Oct 2021 22:47

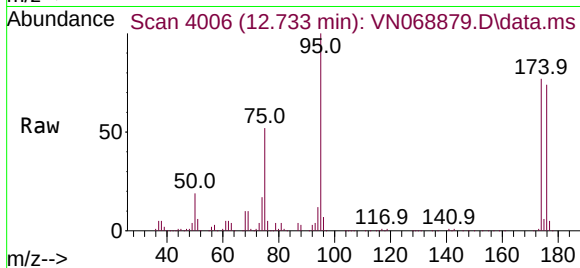
Tgt Ion:	75	Resp:	139425
Ion	Ratio	Lower	Upper
75	100		
77	0.9	96.2	288.4#



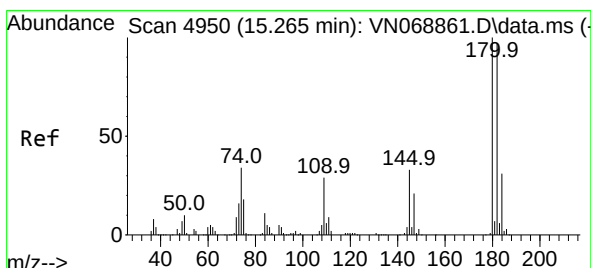
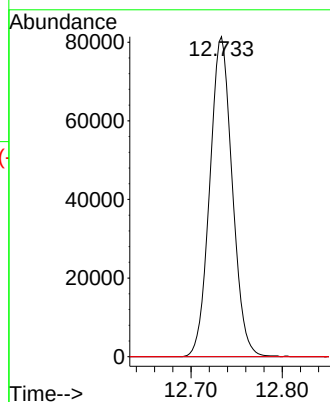
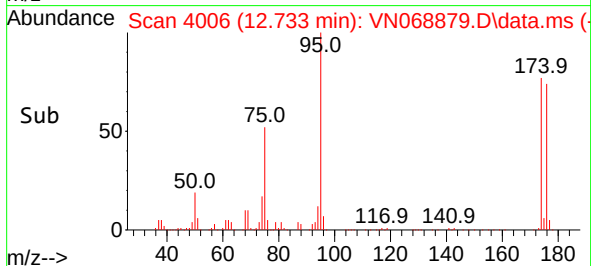


#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.386 ug/l
 RT: 12.733 min Scan# 4006
 Delta R.T. 0.107 min
 Lab File: VN068879.D
 Acq: 12 Oct 2021 22:47

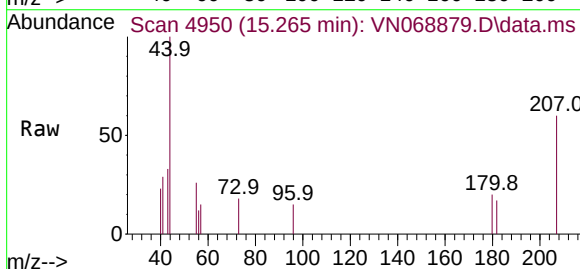
Instrument :
 MSVOA_N
 ClientSampleId :



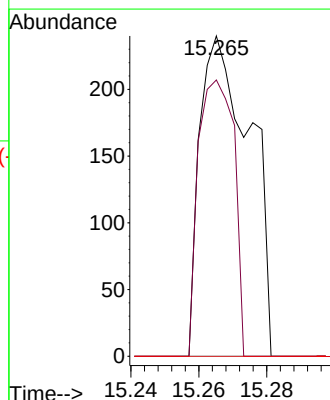
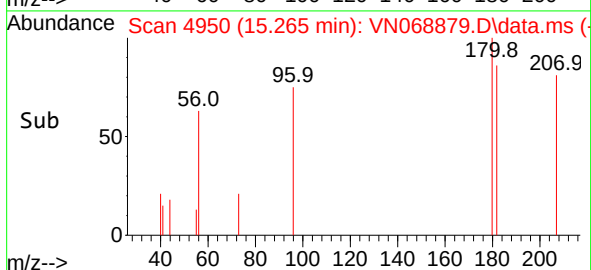
Tgt Ion: 75 Resp: 139425
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.4 113.2#
 89 0.0 36.9 55.3#

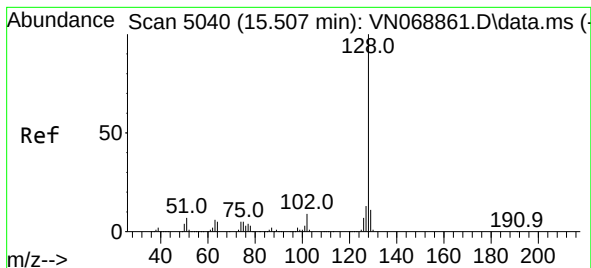


#93
 1,2,4-Trichlorobenzene
 Concen: 2.663 ug/l
 RT: 15.265 min Scan# 4950
 Delta R.T. 0.000 min
 Lab File: VN068879.D
 Acq: 12 Oct 2021 22:47



Tgt Ion: 180 Resp: 245
 Ion Ratio Lower Upper
 180 100
 182 61.2 47.9 143.7
 145 0.0 16.4 49.2#

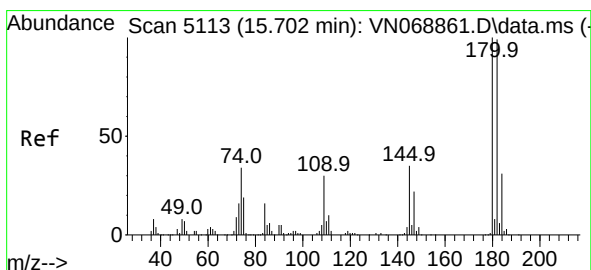
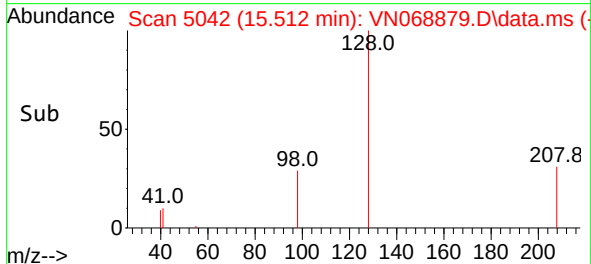
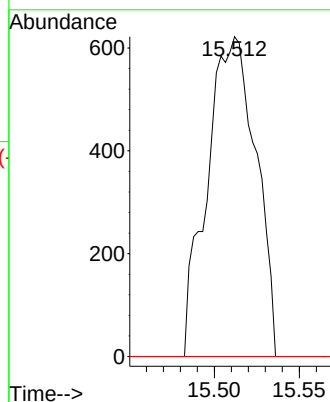
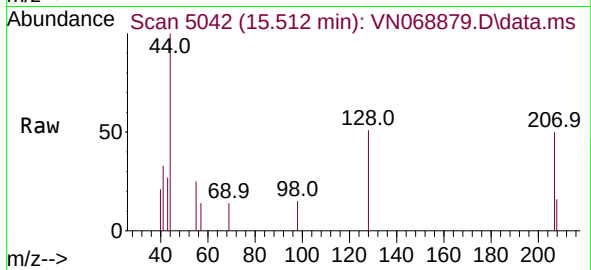




#95
Naphthalene
Concen: 3.921 ug/l
RT: 15.512 min Scan# 5042
Delta R.T. 0.005 min
Lab File: VN068879.D
Acq: 12 Oct 2021 22:47

Instrument :
MSVOA_N
ClientSampled :

Tgt Ion:128 Resp: 1240
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: 2.553 ug/l
RT: 15.708 min Scan# 5115
Delta R.T. 0.006 min
Lab File: VN068879.D
Acq: 12 Oct 2021 22:47

Tgt Ion:180 Resp: 148
Ion Ratio Lower Upper
180 100
182 17.6 48.1 144.3#
145 0.0 17.4 52.2#

