

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101221\
 Data File : VN068883.D
 Acq On : 13 Oct 2021 00:27
 Operator : JC/MD
 Sample : M4159-04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 13 08:25:45 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)

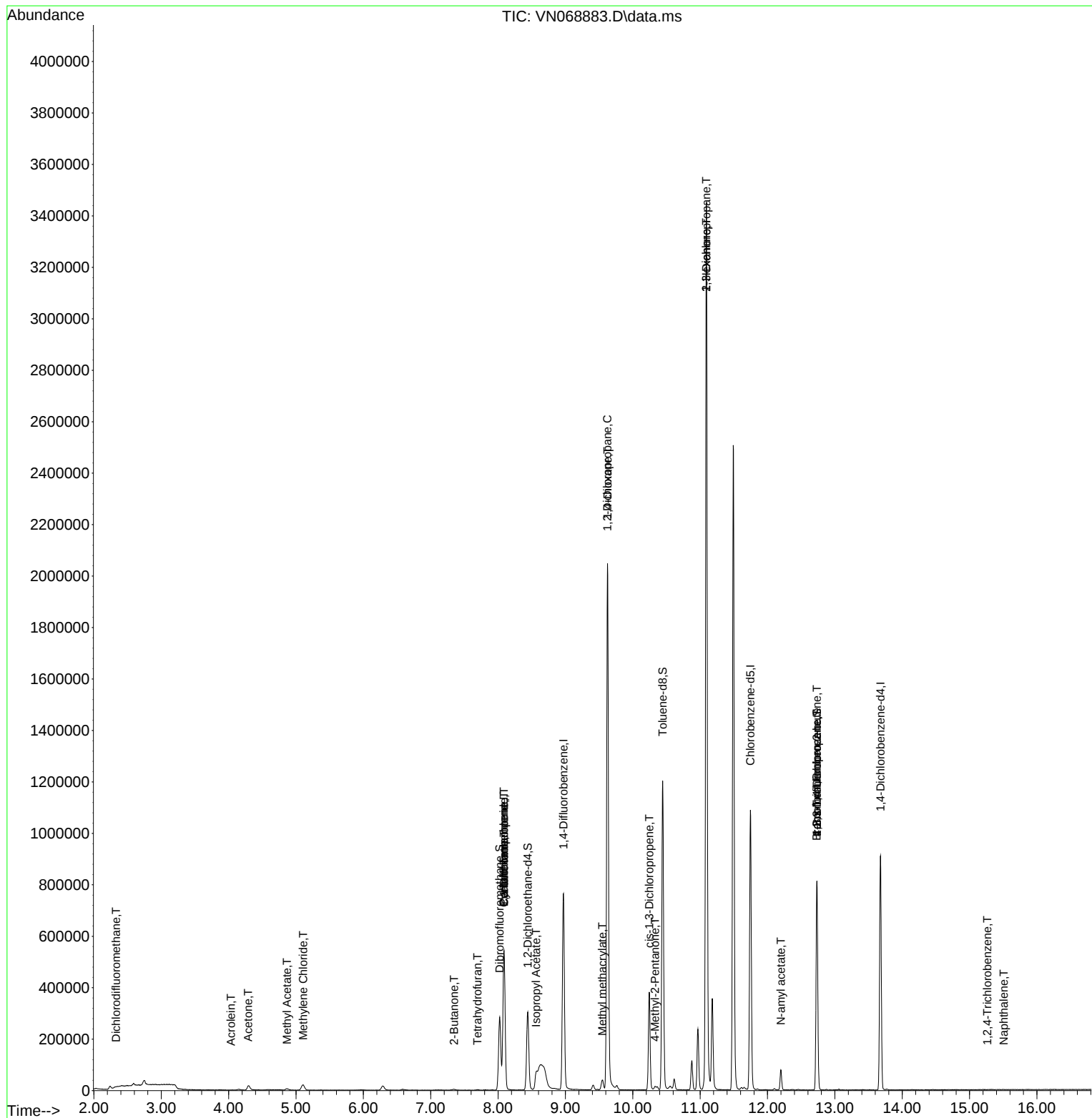
Internal Standards						
1) Pentafluorobenzene	8.088	168	427180	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	698078	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.746	117	643553	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.677	152	251629	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	255401	45.346	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	90.700%
35) Dibromofluoromethane	8.024	113	209802	51.657	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	103.320%
50) Toluene-d8	10.443	98	844073	51.941	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	103.880%
62) 4-Bromofluorobenzene	12.733	95	295858	48.255	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	96.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.327	85	79	1.258	ug/l #	42
13) Acrolein	4.036	56	156	0.343	ug/l #	66
16) Acetone	4.291	43	31615	15.042	ug/l	99
18) Methyl Acetate	4.867	43	11324	1.420	ug/l	98
20) Methylene Chloride	5.106	84	17518	3.621	ug/l	92
25) 2-Butanone	7.348	43	5675	1.786	ug/l #	88
29) Tetrahydrofuran	7.694	42	1279	0.620	ug/l #	82
31) Cyclohexane	8.086	56	9327	1.065	ug/l #	1
36) 1,1-Dichloropropene	8.088	75	32498	5.450	ug/l #	49
38) Carbon Tetrachloride	8.088	117	43085	6.579	ug/l #	16
43) Isopropyl Acetate	8.566	43	84127	7.743	ug/l #	77
45) 1,2-Dichloropropane	9.622	63	2723	0.578	ug/l #	43
48) Methyl methacrylate	9.547	41	9798	1.919	ug/l #	14
49) 1,4-Dioxane	9.625	88	234	37.902	ug/l #	1
51) 4-Methyl-2-Pentanone	10.330	43	9767	1.550	ug/l	99
54) cis-1,3-Dichloropropene	10.245	75	73530	9.362	ug/l #	57
57) 1,3-Dichloropropane	11.092	76	37554	4.945	ug/l #	42
59) 2-Hexanone	11.092	43	544316	120.473	ug/l #	50
71) Bromoform	12.731	173	1395	0.365	ug/l #	1
74) N-amyl acetate	12.197	43	24895	3.137	ug/l #	54
76) 1,2,3-Trichloropropane	12.733	75	150117	28.039	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.733	75	150117	67.081	ug/l #	12
93) 1,2,4-Trichlorobenzene	15.265	180	104	2.625	ug/l #	12
95) Naphthalene	15.507	128	825	3.877	ug/l #	69

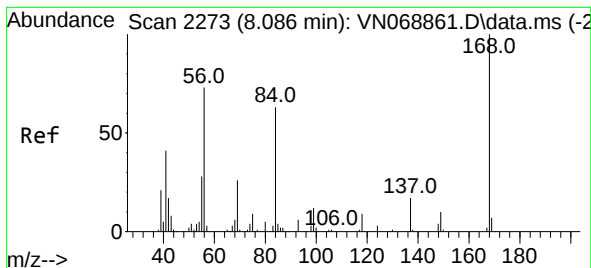
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN068883.D

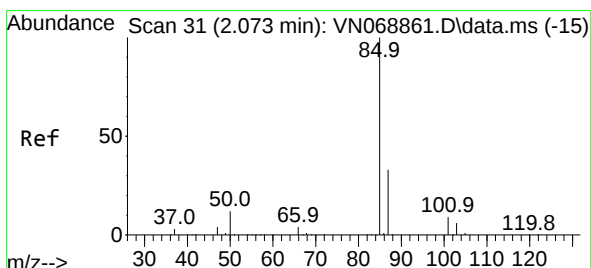
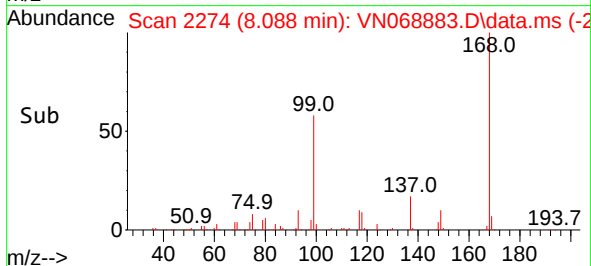
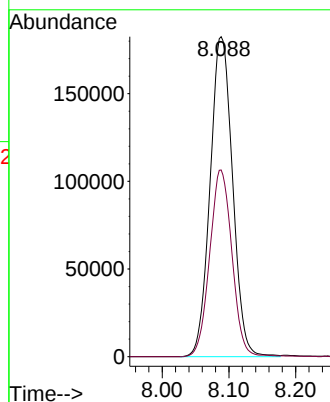
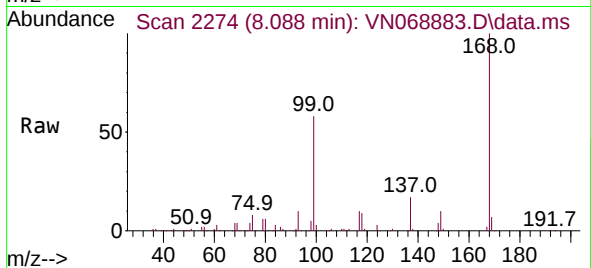
Acq: 13 Oct 2021 00:27

Tgt Ion:168 Resp: 427180

Ion Ratio Lower Upper

168 100

99 58.4 48.9 73.3



#2

Dichlorodifluoromethane

Concen: 1.258 ug/l

RT: 2.327 min Scan# 126

Delta R.T. 0.254 min

Lab File: VN068883.D

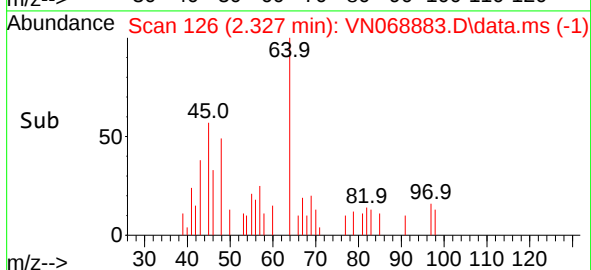
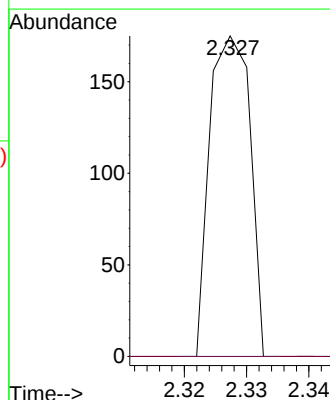
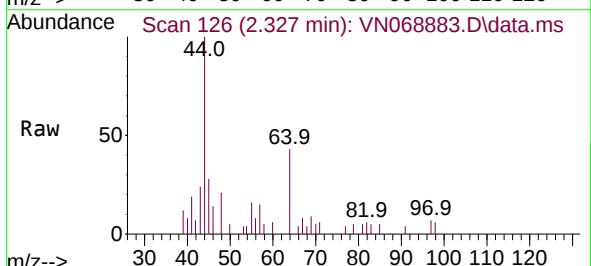
Acq: 13 Oct 2021 00:27

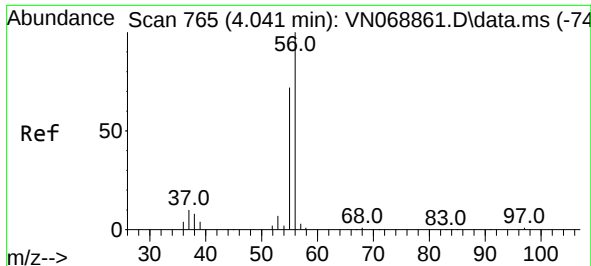
Tgt Ion: 85 Resp: 79

Ion Ratio Lower Upper

85 100

87 0.0 16.3 48.8#

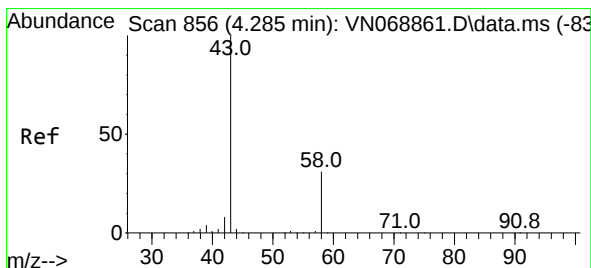
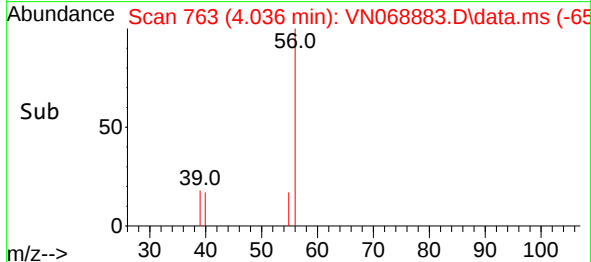
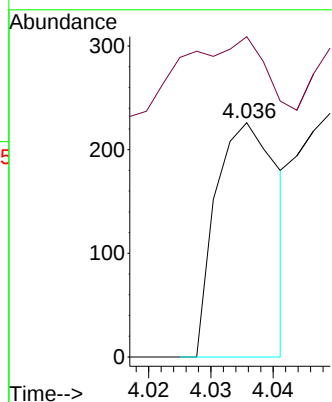
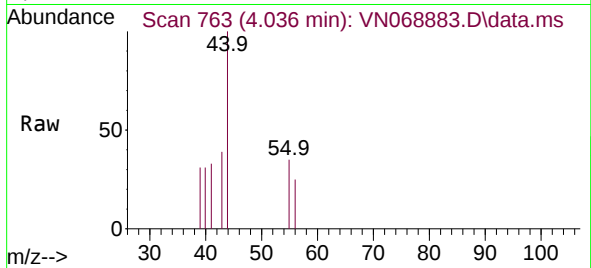




#13
Acrolein
Concen: 0.343 ug/l
RT: 4.036 min Scan# 763
Delta R.T. -0.005 min
Lab File: VN068883.D
Acq: 13 Oct 2021 00:27

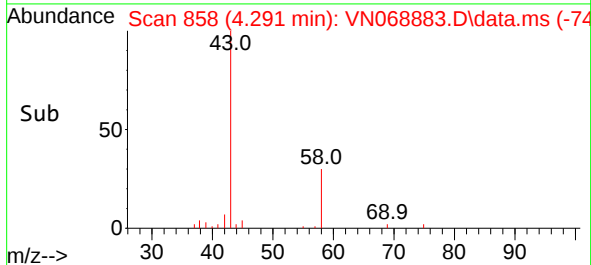
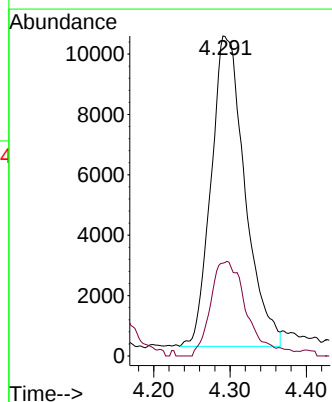
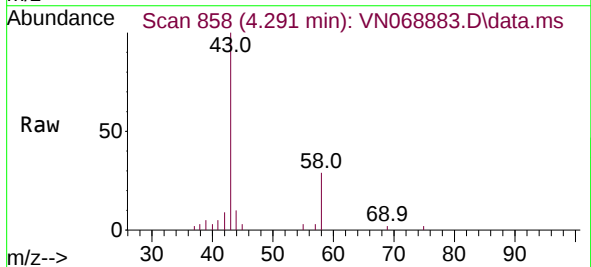
Instrument :
MSVOA_N
ClientSampled :

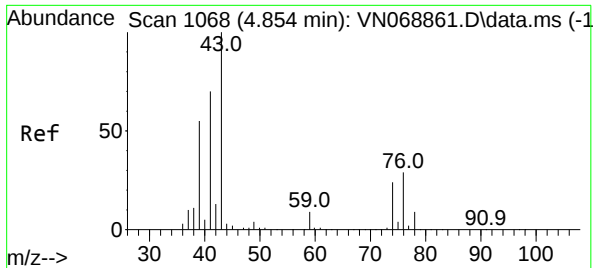
Tgt Ion: 56 Resp: 156
Ion Ratio Lower Upper
56 100
55 44.2 58.1 87.1#



#16
Acetone
Concen: 15.042 ug/l
RT: 4.291 min Scan# 858
Delta R.T. 0.005 min
Lab File: VN068883.D
Acq: 13 Oct 2021 00:27

Tgt Ion: 43 Resp: 31615
Ion Ratio Lower Upper
43 100
58 29.9 24.5 36.7

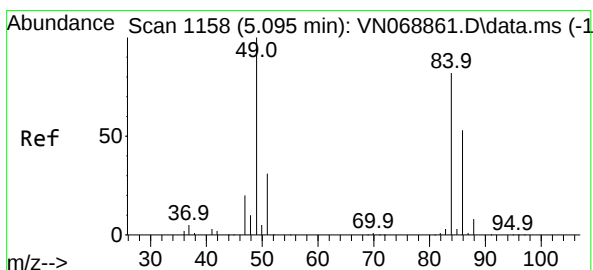
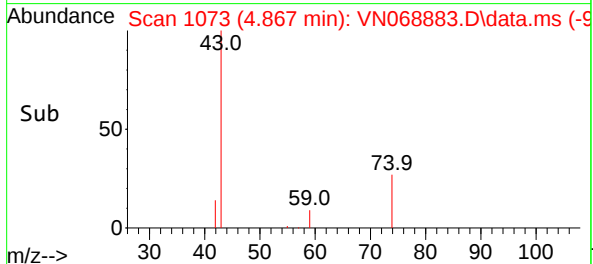
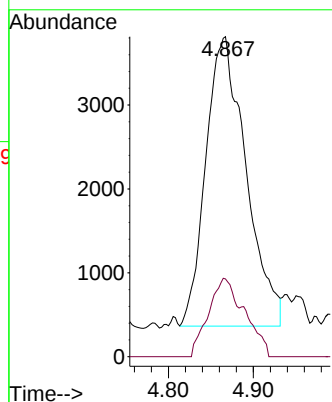
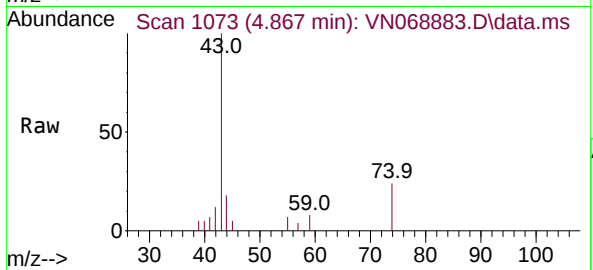




#18
Methyl Acetate
Concen: 1.420 ug/l
RT: 4.867 min Scan# 1073
Delta R.T. 0.013 min
Lab File: VN068883.D
Acq: 13 Oct 2021 00:27

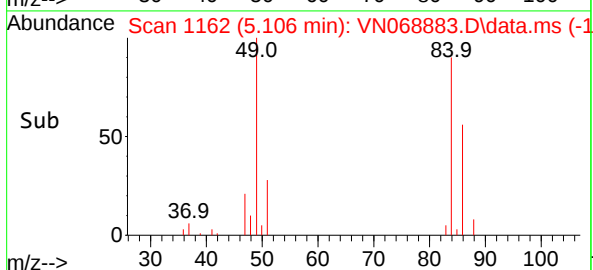
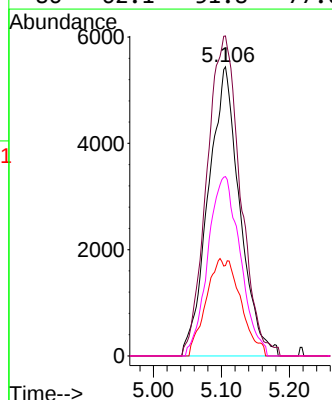
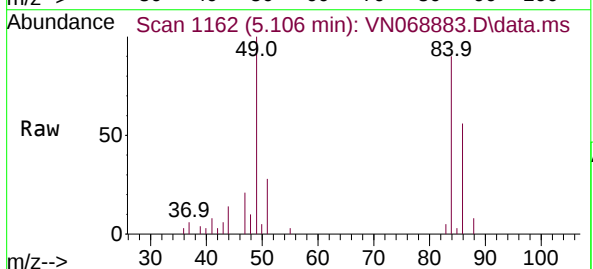
Instrument :
MSVOA_N
ClientSampled :

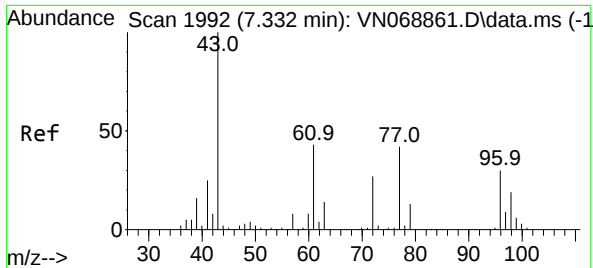
Tgt Ion: 43 Resp: 11324
Ion Ratio Lower Upper
43 100
74 24.5 18.9 28.3



#20
Methylene Chloride
Concen: 3.621 ug/l
RT: 5.106 min Scan# 1162
Delta R.T. 0.011 min
Lab File: VN068883.D
Acq: 13 Oct 2021 00:27

Tgt Ion: 84 Resp: 17518
Ion Ratio Lower Upper
84 100
49 110.7 97.6 146.4
51 31.3 30.3 45.5
86 62.1 51.8 77.6

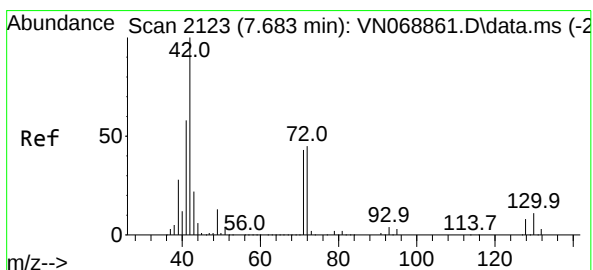
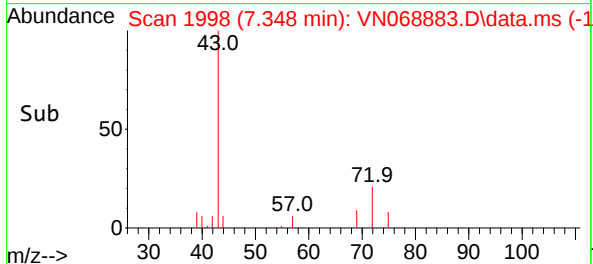
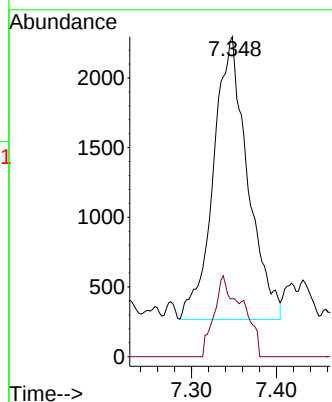
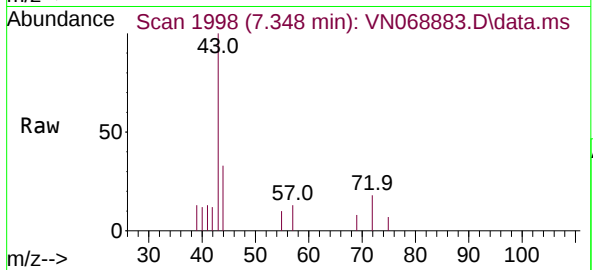




#25
2-Butanone
Concen: 1.786 ug/l
RT: 7.348 min Scan# 1998
Delta R.T. 0.016 min
Lab File: VN068883.D
Acq: 13 Oct 2021 00:27

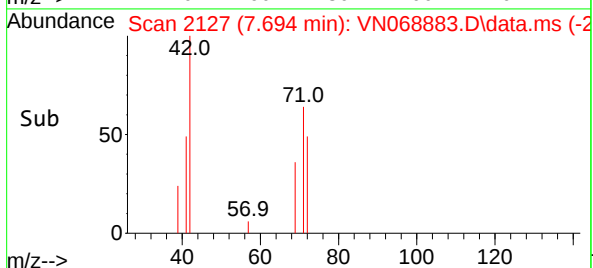
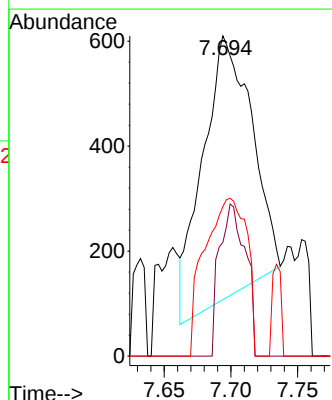
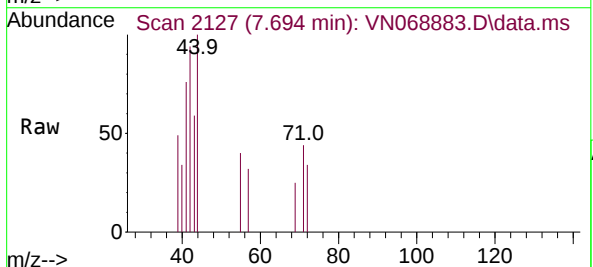
Instrument :
MSVOA_N
ClientSampled :

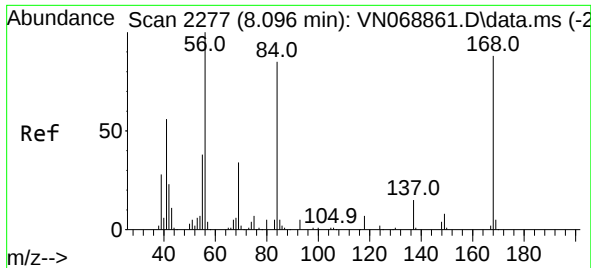
Tgt Ion: 43 Resp: 5675
Ion Ratio Lower Upper
43 100
72 20.5 21.2 31.8#



#29
Tetrahydrofuran
Concen: 0.620 ug/l
RT: 7.694 min Scan# 2127
Delta R.T. 0.011 min
Lab File: VN068883.D
Acq: 13 Oct 2021 00:27

Tgt Ion: 42 Resp: 1279
Ion Ratio Lower Upper
42 100
72 30.8 35.4 53.2#
71 51.4 33.8 50.6#

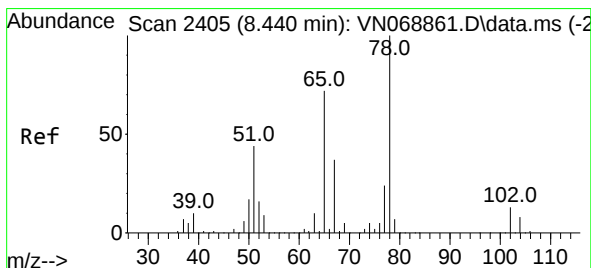
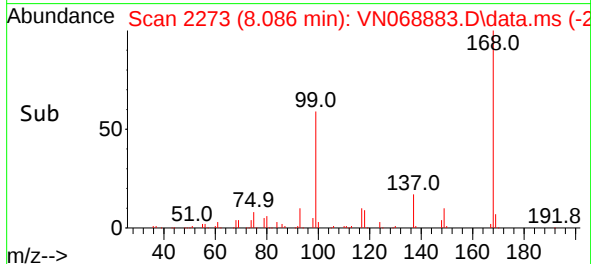
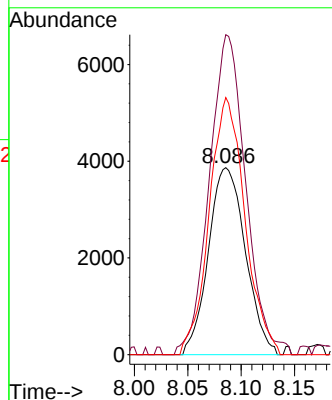
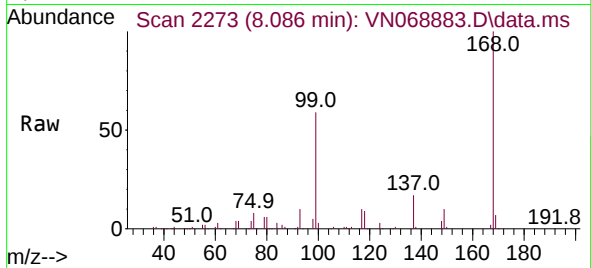




#31
Cyclohexane
Concen: 1.065 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.010 min
Lab File: VN068883.D
Acq: 13 Oct 2021 00:27

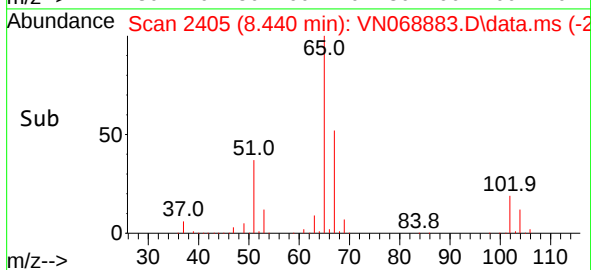
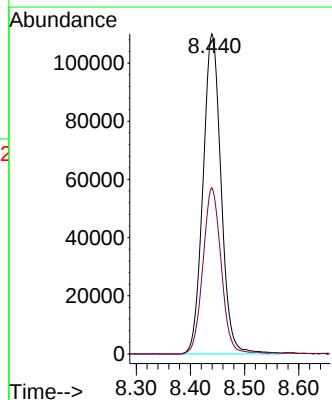
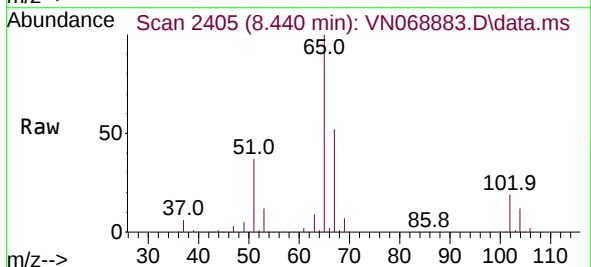
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MSVOA_N
ClientSampled :

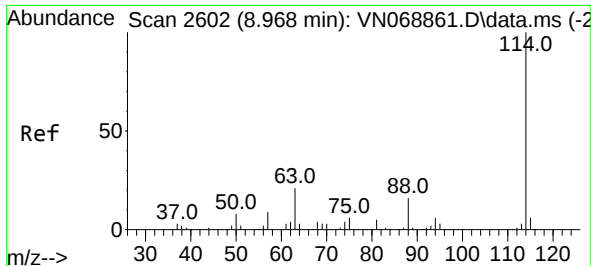
Tgt Ion: 56 Resp: 9327
Ion Ratio Lower Upper
56 100
69 166.4 26.9 40.3#
84 137.5 67.6 101.4#



#33
1,2-Dichloroethane-d4
Concen: 45.346 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN068883.D
Acq: 13 Oct 2021 00:27

Tgt Ion: 65 Resp: 255401
Ion Ratio Lower Upper
65 100
67 52.2 0.0 103.8

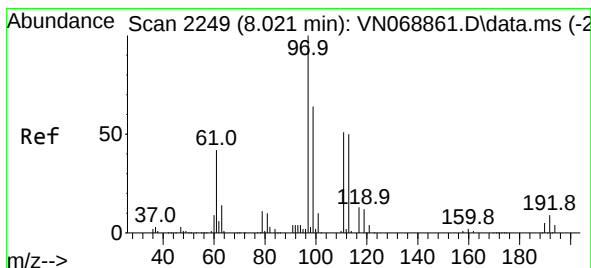
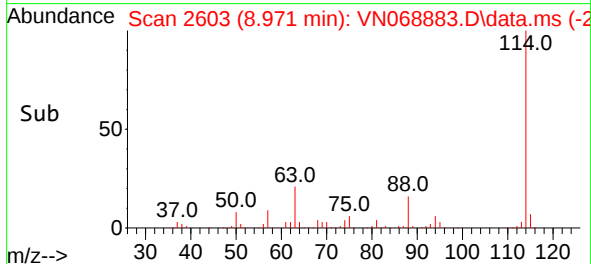
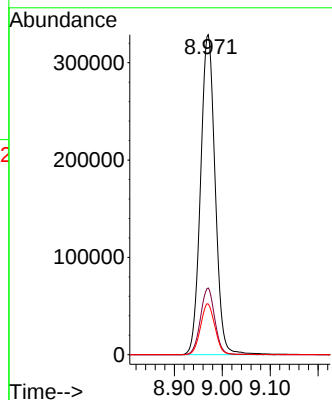
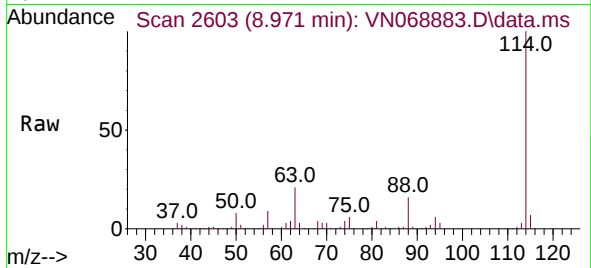




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. 0.003 min
Lab File: VN068883.D
Acq: 13 Oct 2021 00:27

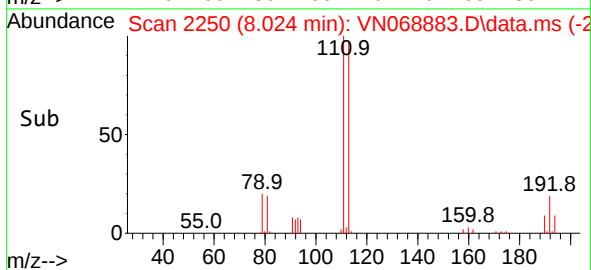
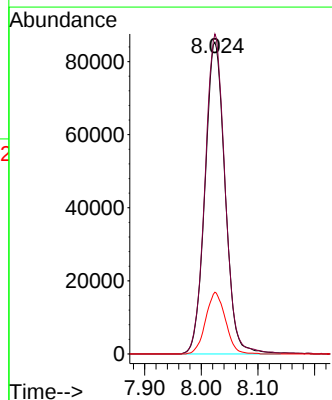
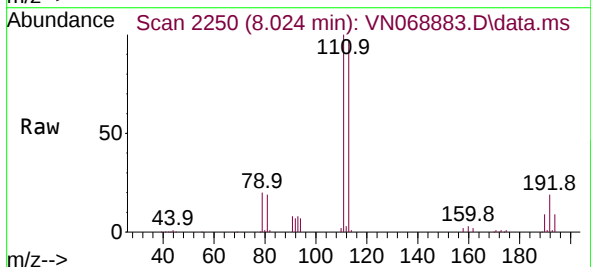
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MSVOA_N
ClientSampled :

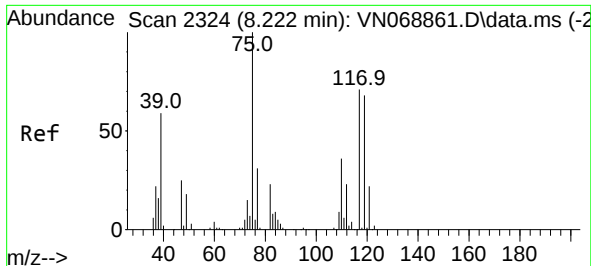
Tgt Ion:114 Resp: 698078
Ion Ratio Lower Upper
114 100
63 20.8 0.0 42.6
88 15.9 0.0 32.0



#35
Dibromofluoromethane
Concen: 51.657 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.003 min
Lab File: VN068883.D
Acq: 13 Oct 2021 00:27

Tgt Ion:113 Resp: 209802
Ion Ratio Lower Upper
113 100
111 102.1 83.2 124.8
192 19.5 15.0 22.4

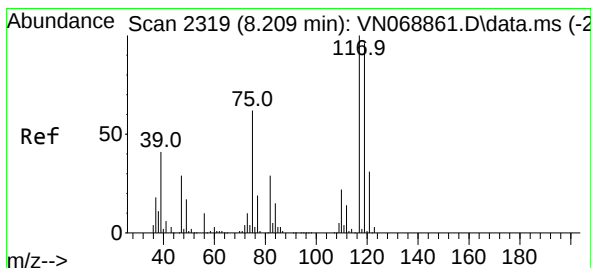
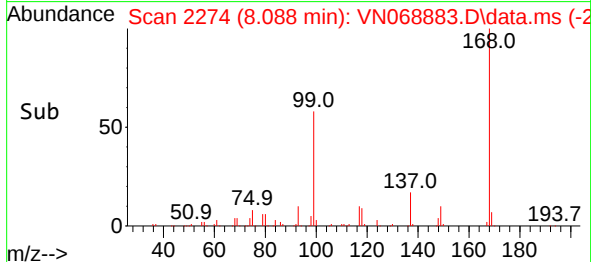
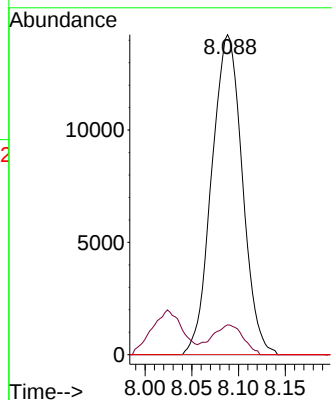
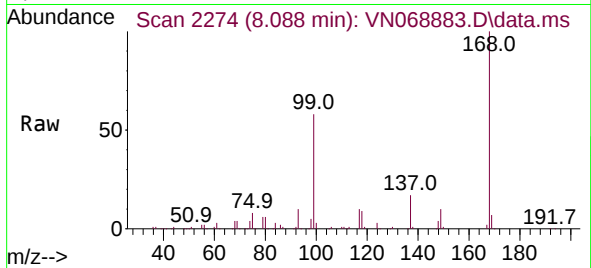




#36
 1,1-Dichloropropene
 Concen: 5.450 ug/l
 RT: 8.088 min Scan# 2274
 Delta R.T. -0.134 min
 Lab File: VN068883.D
 Acq: 13 Oct 2021 00:27

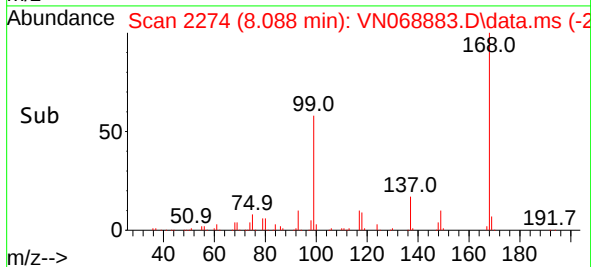
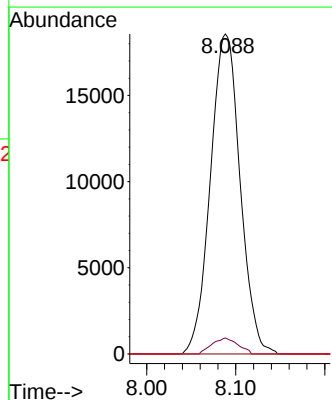
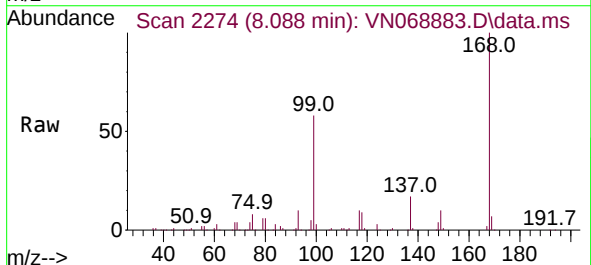
Instrument :
 MSVOA_N
 ClientSampled :

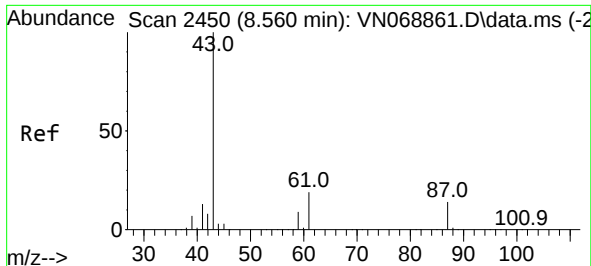
Tgt Ion: 75 Resp: 32498
 Ion Ratio Lower Upper
 75 100
 110 8.9 17.9 53.8#
 77 0.0 24.7 37.1#



#38
 Carbon Tetrachloride
 Concen: 6.579 ug/l
 RT: 8.088 min Scan# 2274
 Delta R.T. -0.121 min
 Lab File: VN068883.D
 Acq: 13 Oct 2021 00:27

Tgt Ion: 117 Resp: 43085
 Ion Ratio Lower Upper
 117 100
 119 5.0 76.9 115.3#
 121 0.0 24.6 37.0#

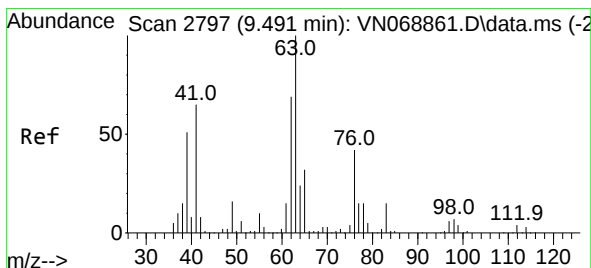
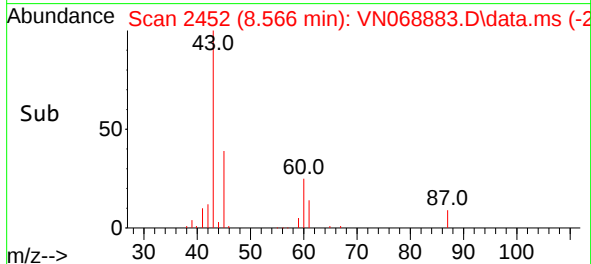
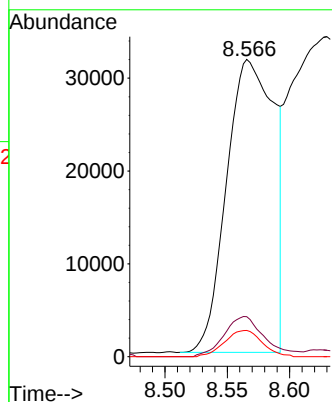
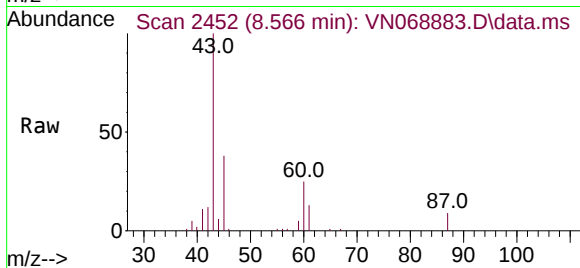




#43
Isopropyl Acetate
Concen: 7.743 ug/l
RT: 8.566 min Scan# 2452
Delta R.T. 0.005 min
Lab File: VN068883.D
Acq: 13 Oct 2021 00:27

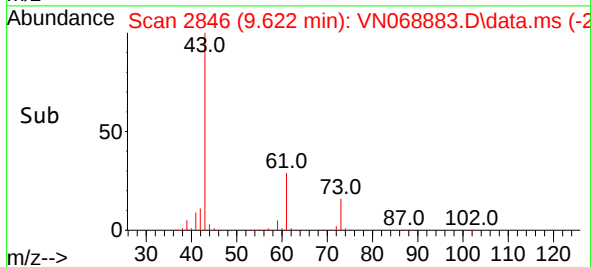
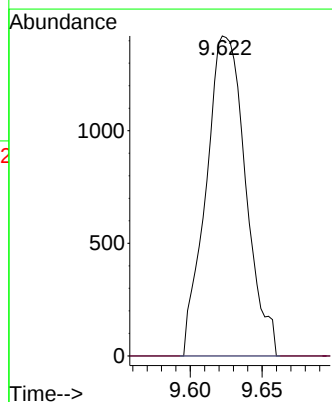
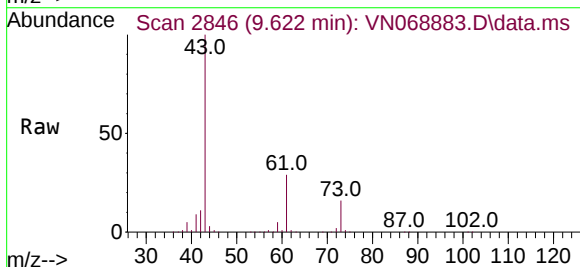
Instrument :
MSVOA_N
ClientSampled :

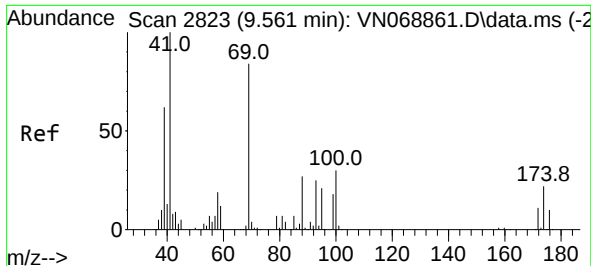
Tgt Ion: 43 Resp: 84127
Ion Ratio Lower Upper
43 100
61 11.7 20.4 30.6#
87 7.0 10.7 16.1#



#45
1,2-Dichloropropane
Concen: 0.578 ug/l
RT: 9.622 min Scan# 2846
Delta R.T. 0.131 min
Lab File: VN068883.D
Acq: 13 Oct 2021 00:27

Tgt Ion: 63 Resp: 2723
Ion Ratio Lower Upper
63 100
65 0.0 25.6 38.4#

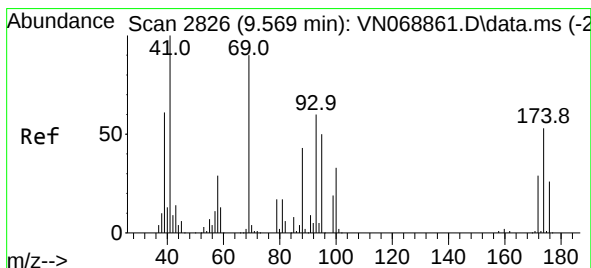
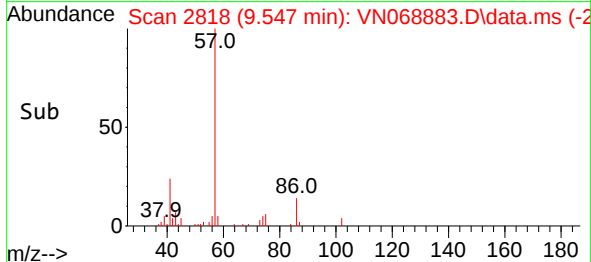
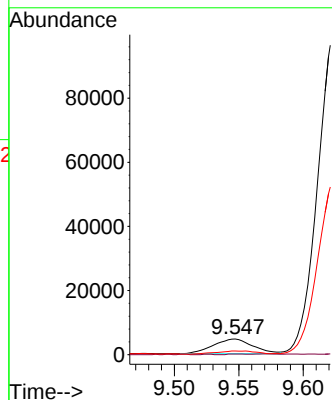
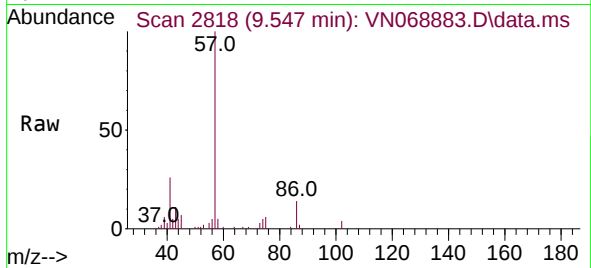




#48
Methyl methacrylate
Concen: 1.919 ug/l
RT: 9.547 min Scan# 2818
Delta R.T. -0.013 min
Lab File: VN068883.D
Acq: 13 Oct 2021 00:27

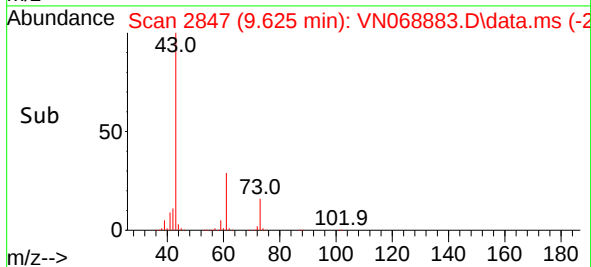
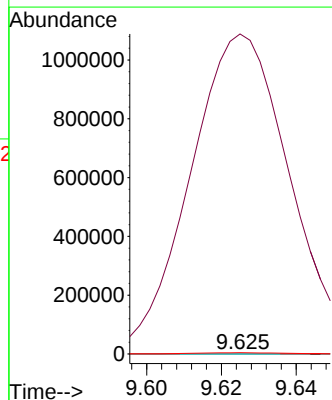
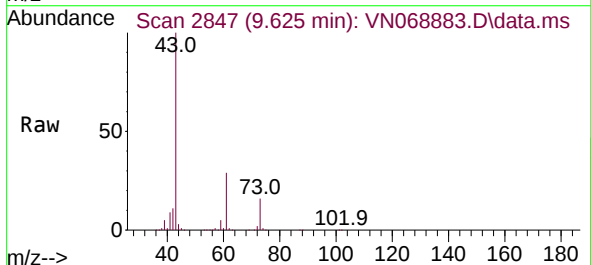
Instrument :
MSVOA_N
ClientSampled :

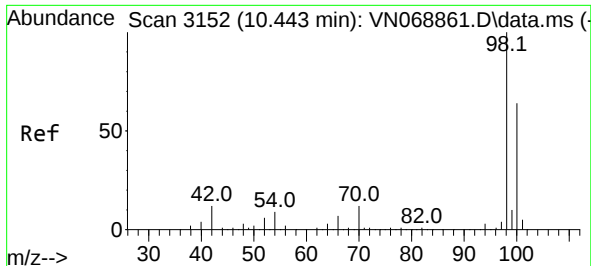
Tgt Ion: 41 Resp: 9798
Ion Ratio Lower Upper
41 100
69 2.4 66.4 99.6#
39 0.0 50.2 75.2#



#49
1,4-Dioxane
Concen: 37.902 ug/l
RT: 9.625 min Scan# 2847
Delta R.T. 0.056 min
Lab File: VN068883.D
Acq: 13 Oct 2021 00:27

Tgt Ion: 88 Resp: 234
Ion Ratio Lower Upper
88 100
43 891334.6 24.9 37.3#
58 3227.8 56.9 85.3#

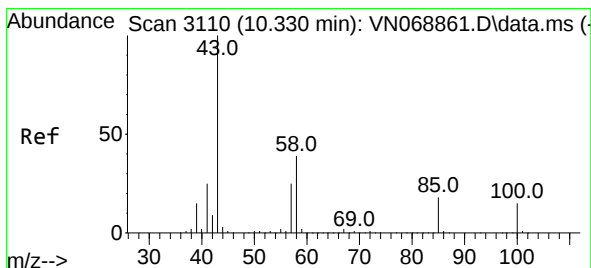
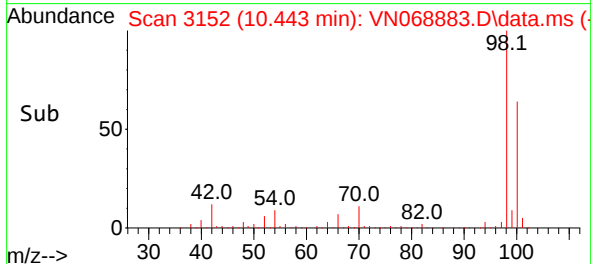
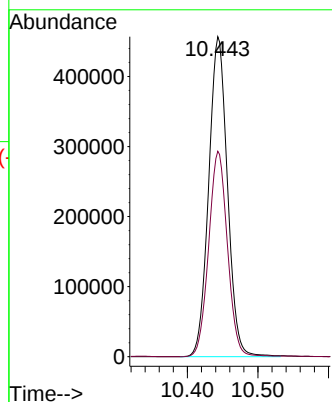
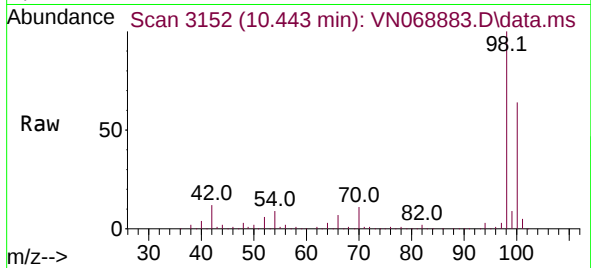




#50
Toluene-d8
Concen: 51.941 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. -0.000 min
Lab File: VN068883.D
Acq: 13 Oct 2021 00:27

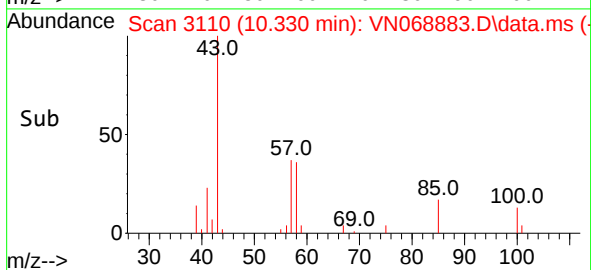
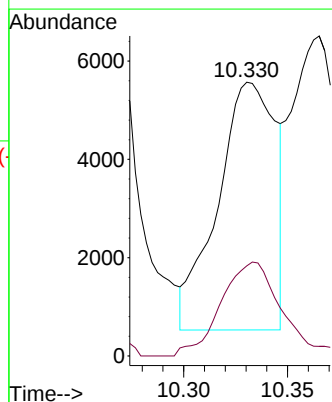
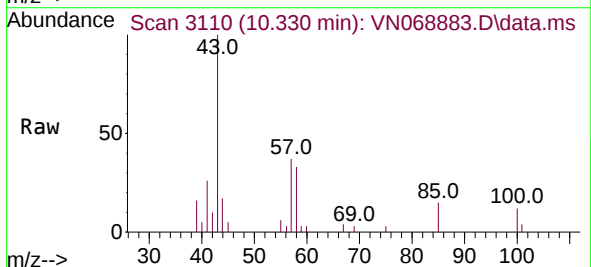
Instrument :
MSVOA_N
ClientSampled :

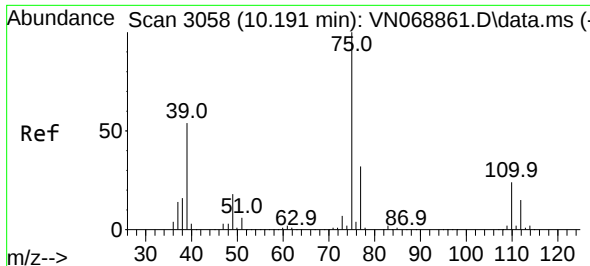
Tgt Ion: 98 Resp: 844073
Ion Ratio Lower Upper
98 100
100 64.3 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 1.550 ug/l
RT: 10.330 min Scan# 3110
Delta R.T. -0.000 min
Lab File: VN068883.D
Acq: 13 Oct 2021 00:27

Tgt Ion: 43 Resp: 9767
Ion Ratio Lower Upper
43 100
58 39.2 31.0 46.4

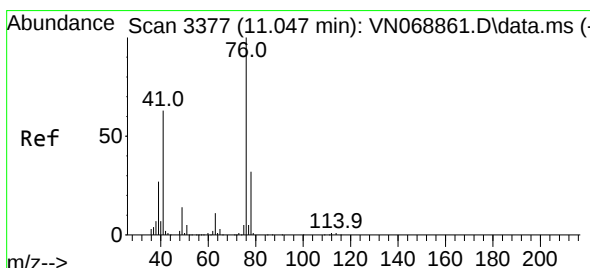
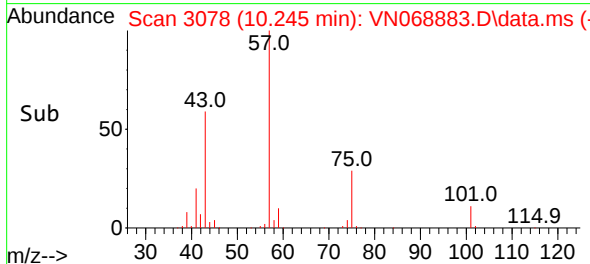
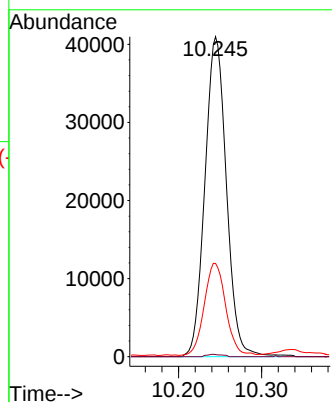
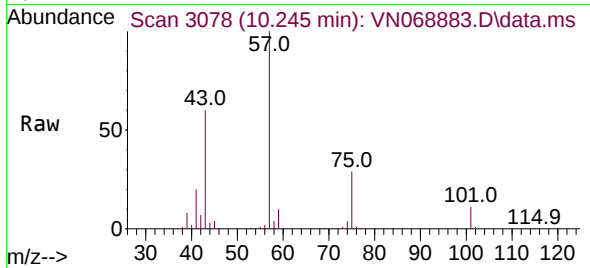




#54
 cis-1,3-Dichloropropene
 Concen: 9.362 ug/l
 RT: 10.245 min Scan# 3078
 Delta R.T. 0.054 min
 Lab File: VN068883.D
 Acq: 13 Oct 2021 00:27

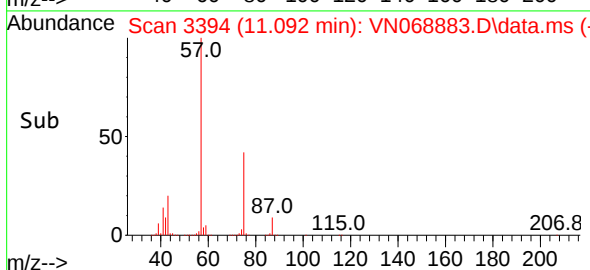
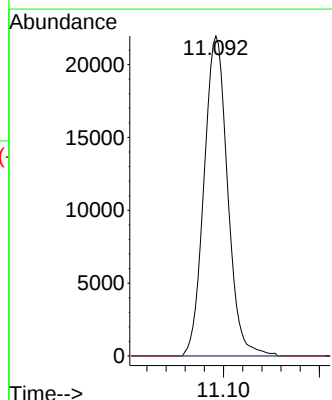
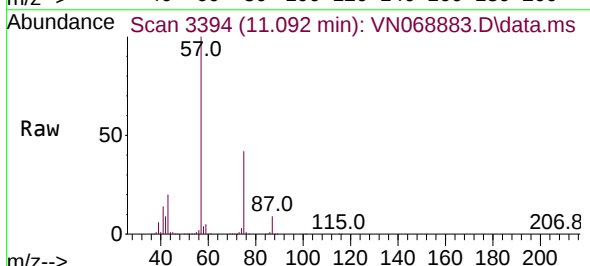
Instrument :
 MSVOA_N
 ClientSampled :

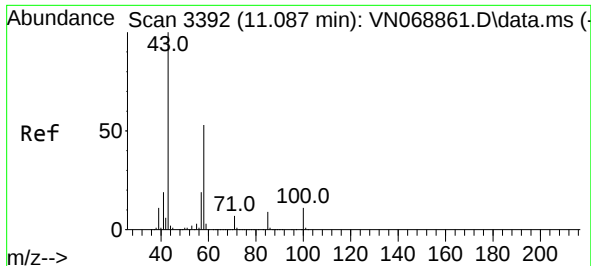
Tgt Ion: 75 Resp: 73530
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.6 38.4#
 39 28.7 42.9 64.3#



#57
 1,3-Dichloropropane
 Concen: 4.945 ug/l
 RT: 11.092 min Scan# 3394
 Delta R.T. 0.046 min
 Lab File: VN068883.D
 Acq: 13 Oct 2021 00:27

Tgt Ion: 76 Resp: 37554
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#

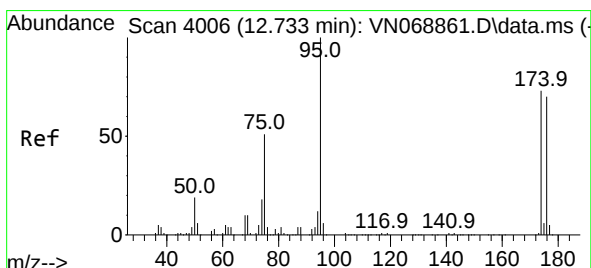
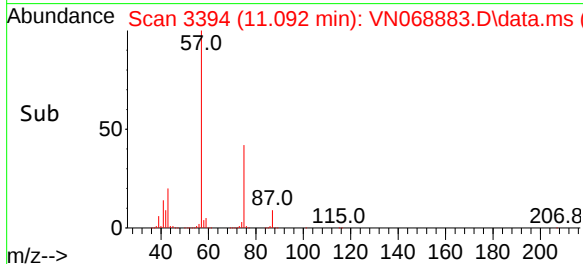
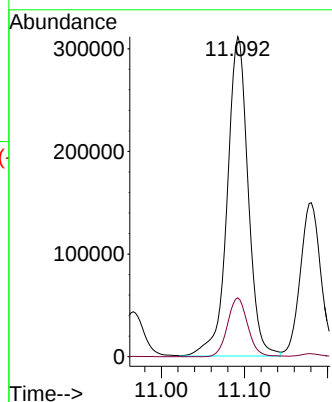
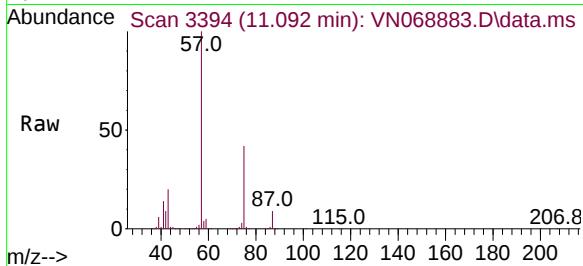




#59
2-Hexanone
Concen: 120.473 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.005 min
Lab File: VN068883.D
Acq: 13 Oct 2021 00:27

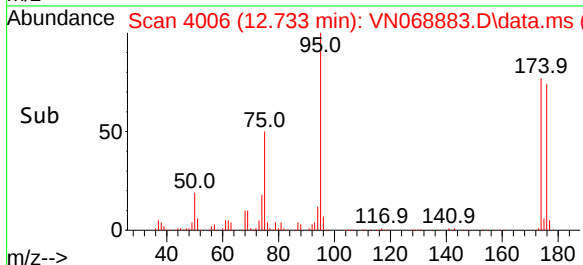
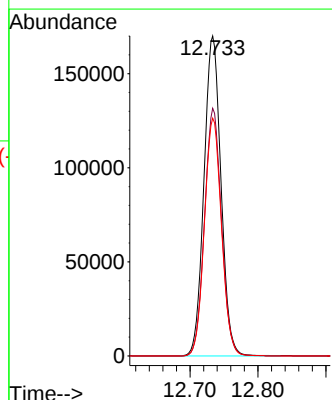
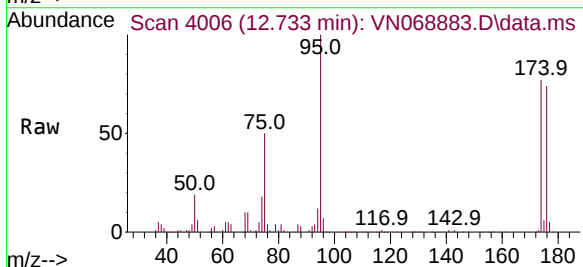
Instrument :
MSVOA_N
ClientSampled :

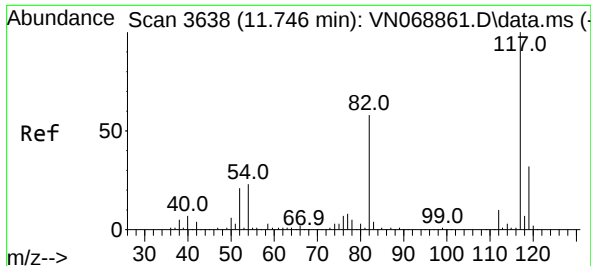
Tgt Ion: 43 Resp: 544316
Ion Ratio Lower Upper
43 100
58 17.9 26.9 80.7#



#62
4-Bromofluorobenzene
Concen: 48.255 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.000 min
Lab File: VN068883.D
Acq: 13 Oct 2021 00:27

Tgt Ion: 95 Resp: 295858
Ion Ratio Lower Upper
95 100
174 77.3 0.0 144.8
176 74.8 0.0 140.0

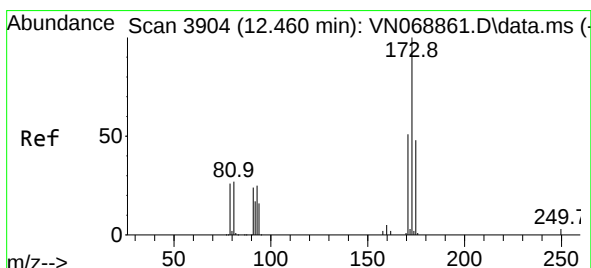
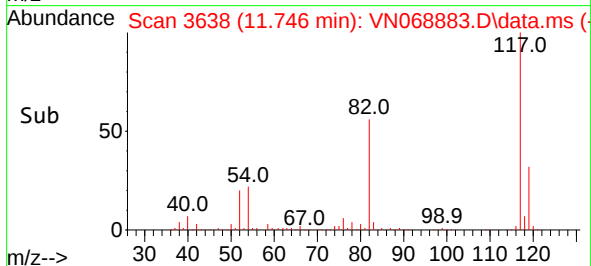
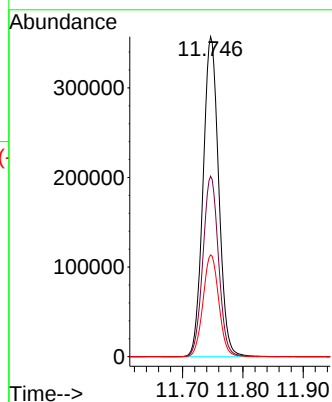
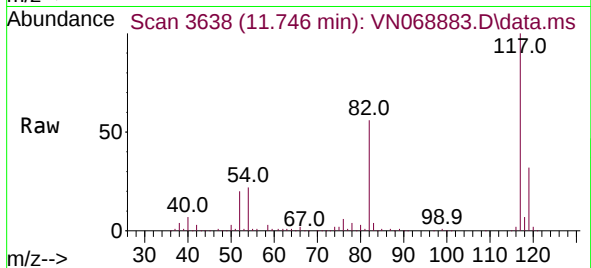




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. -0.000 min
Lab File: VN068883.D
Acq: 13 Oct 2021 00:27

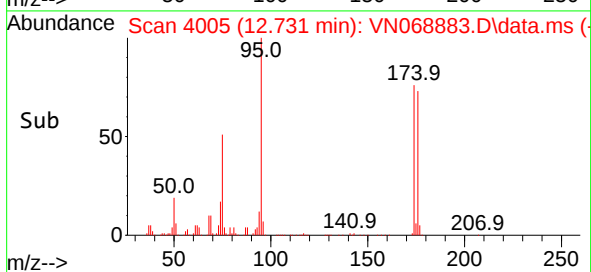
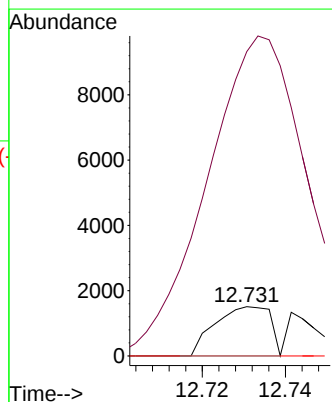
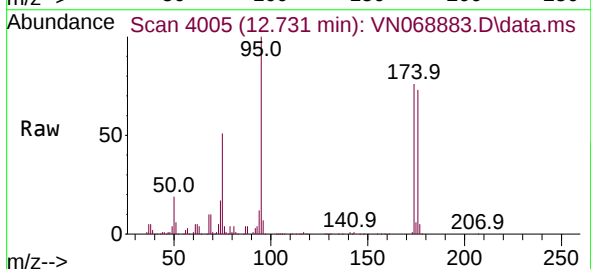
Instrument :
MSVOA_N
ClientSampled :

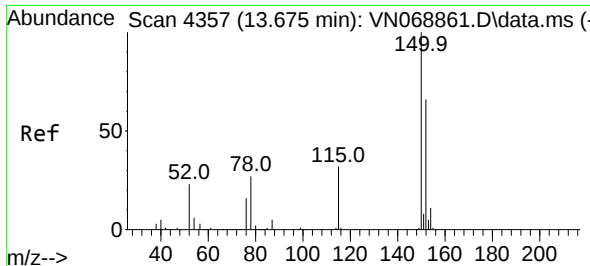
Tgt Ion:117 Resp: 643553
Ion Ratio Lower Upper
117 100
82 56.4 46.4 69.6
119 31.8 26.0 39.0



#71
Bromoform
Concen: 0.365 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.271 min
Lab File: VN068883.D
Acq: 13 Oct 2021 00:27

Tgt Ion:173 Resp: 1395
Ion Ratio Lower Upper
173 100
175 1119.1 23.8 71.5#
254 0.0 0.0 0.0

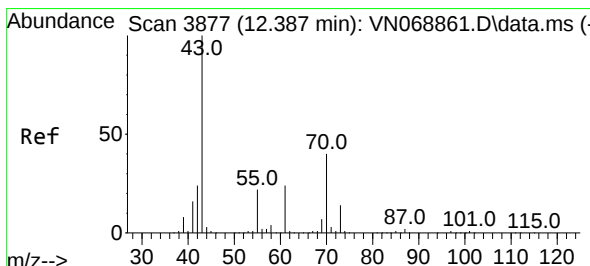
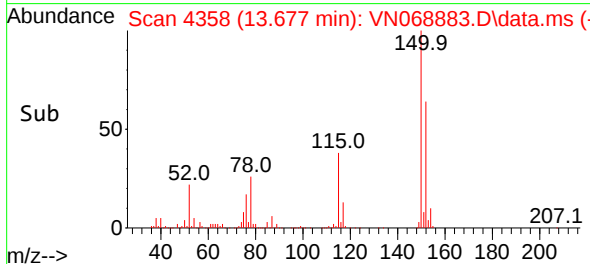
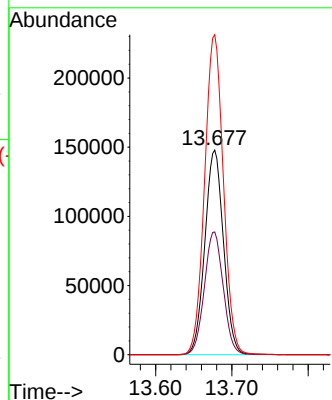
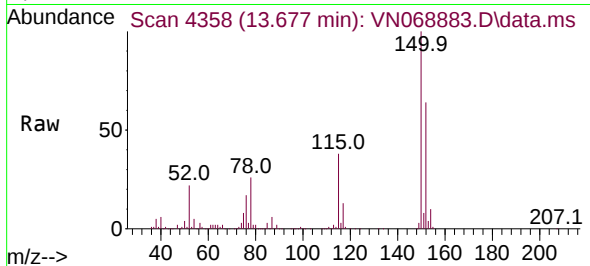




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.677 min Scan# 4358
Delta R.T. 0.003 min
Lab File: VN068883.D
Acq: 13 Oct 2021 00:27

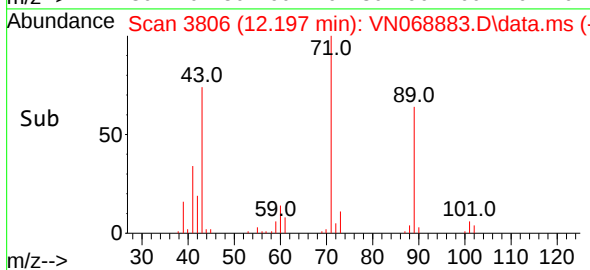
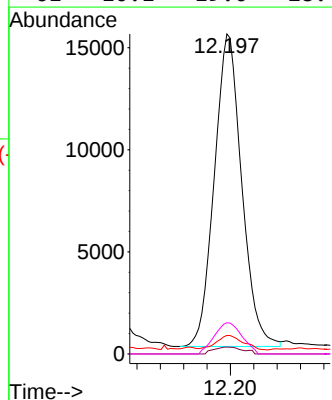
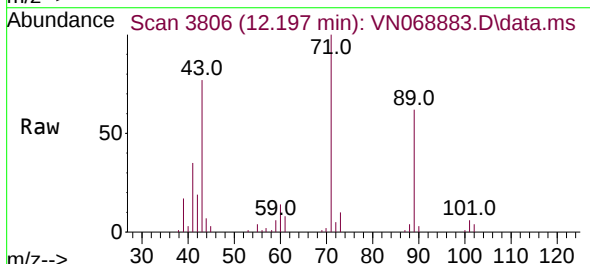
Instrument :
MSVOA_N
ClientSampled :

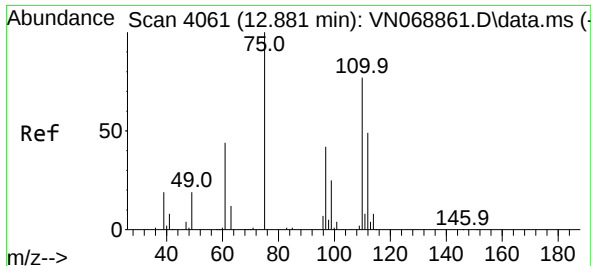
Tgt Ion:152 Resp: 251629
Ion Ratio Lower Upper
152 100
115 60.7 31.4 94.3
150 157.0 0.0 351.0



#74
N-ethyl acetate
Concen: 3.137 ug/l
RT: 12.197 min Scan# 3806
Delta R.T. -0.191 min
Lab File: VN068883.D
Acq: 13 Oct 2021 00:27

Tgt Ion: 43 Resp: 24895
Ion Ratio Lower Upper
43 100
70 2.4 32.2 48.2#
55 4.5 18.0 27.0#
61 10.1 19.0 28.4#

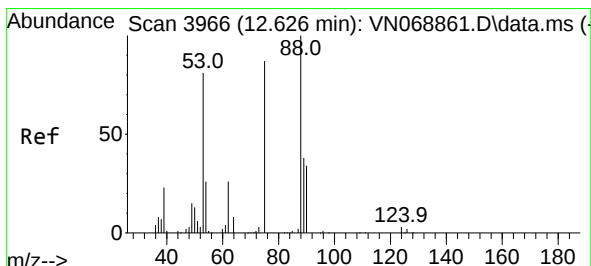
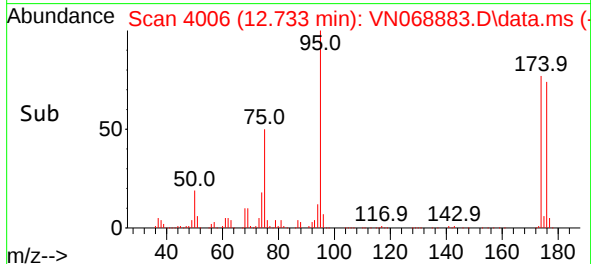
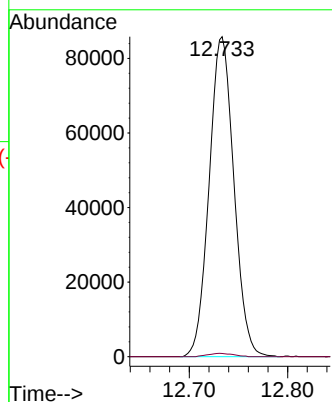
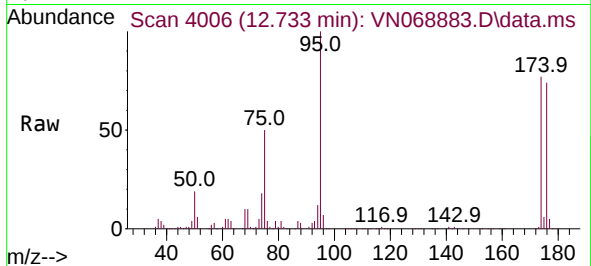




#76
1,2,3-Trichloropropane
Concen: 28.039 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.148 min
Lab File: VN068883.D
Acq: 13 Oct 2021 00:27

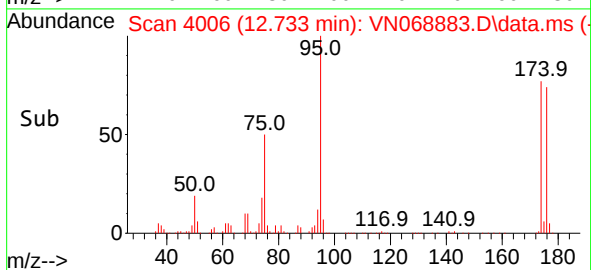
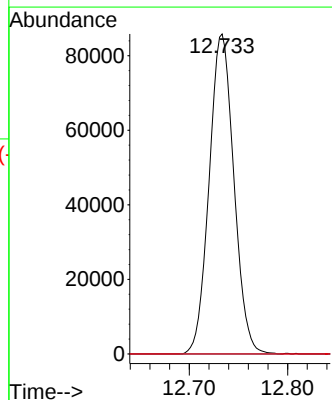
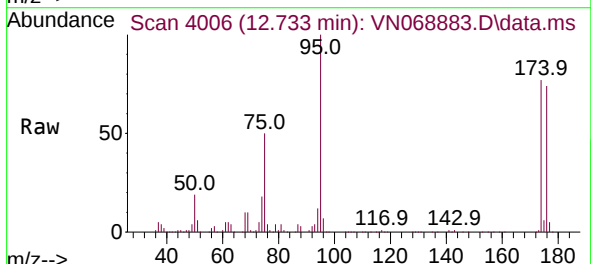
Instrument :
MSVOA_N
ClientSampled :

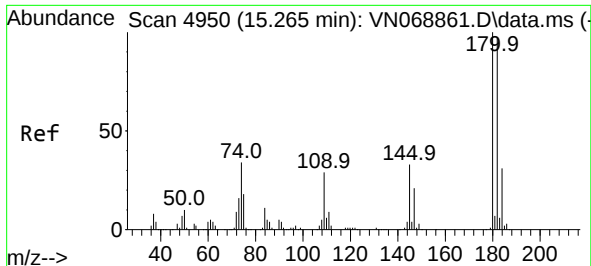
Tgt Ion: 75 Resp: 150117
Ion Ratio Lower Upper
75 100
77 1.1 96.2 288.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 67.081 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.107 min
Lab File: VN068883.D
Acq: 13 Oct 2021 00:27

Tgt Ion: 75 Resp: 150117
Ion Ratio Lower Upper
75 100
53 0.0 75.4 113.2#
89 0.0 36.9 55.3#

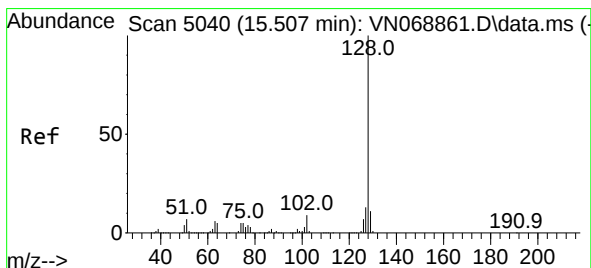
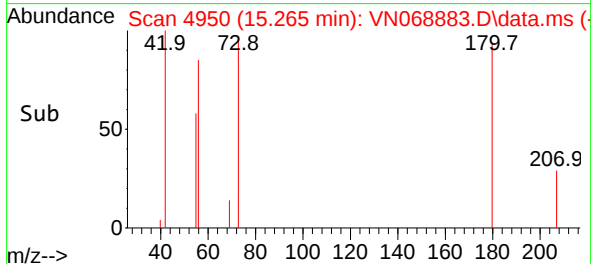
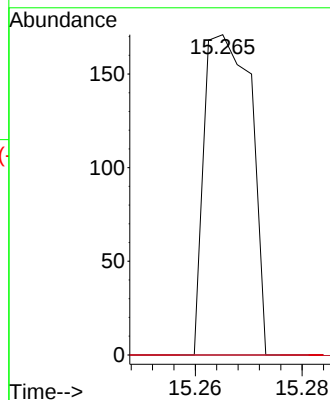
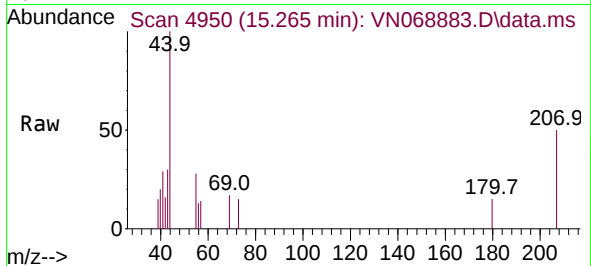




#93
1,2,4-Trichlorobenzene
Concen: 2.625 ug/l
RT: 15.265 min Scan# 4950
Delta R.T. 0.000 min
Lab File: VN068883.D
Acq: 13 Oct 2021 00:27

Instrument :
MSVOA_N
ClientSampled :

Tgt Ion:180 Resp: 104
Ion Ratio Lower Upper
180 100
182 0.0 47.9 143.7#
145 0.0 16.4 49.2#



#95
Naphthalene
Concen: 3.877 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. -0.000 min
Lab File: VN068883.D
Acq: 13 Oct 2021 00:27

Tgt Ion:128 Resp: 825
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.9 13.3#

