

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101221\
 Data File : VN068873.D
 Acq On : 12 Oct 2021 20:15
 Operator : JC/MD
 Sample : M4159-07
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 13 08:22:45 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)

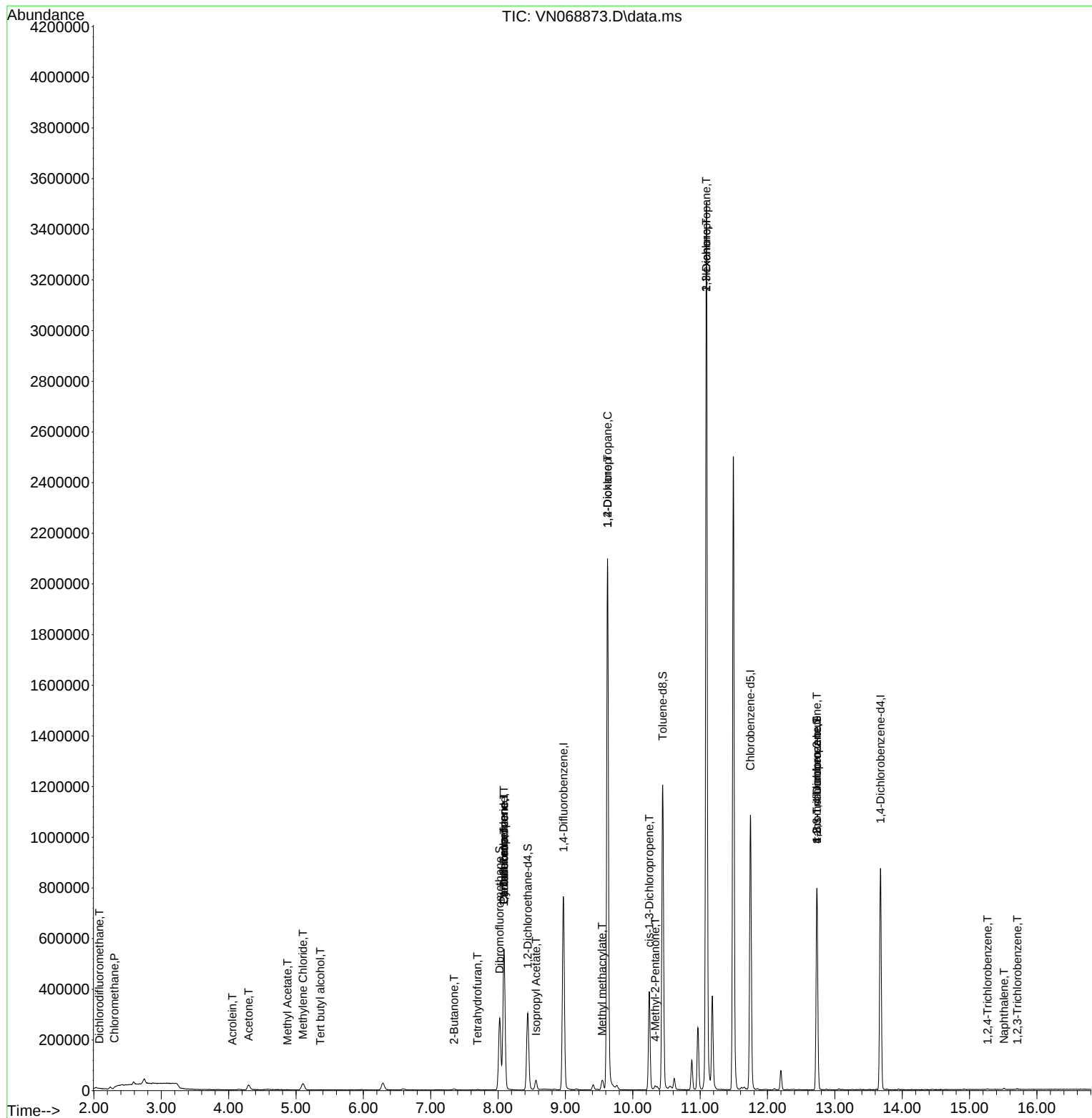
Internal Standards						
1) Pentafluorobenzene	8.088	168	428831	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	697904	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	639620	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	237138	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	253869	44.901	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	89.800%		
35) Dibromofluoromethane	8.024	113	212014	52.214	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	104.420%		
50) Toluene-d8	10.443	98	854225	52.579	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	105.160%		
62) 4-Bromofluorobenzene	12.734	95	286511	46.742	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	93.480%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.081	85	74	1.257	ug/l #	42
3) Chloromethane	2.303	50	1129	0.215	ug/l #	75
11) Tert butyl alcohol	5.361	59	251	0.243	ug/l #	85
13) Acrolein	4.057	56	551	1.206	ug/l #	64
16) Acetone	4.296	43	35901	17.015	ug/l	99
18) Methyl Acetate	4.873	43	2399	0.300	ug/l #	79
20) Methylene Chloride	5.103	84	21187	4.363	ug/l	98
25) 2-Butanone	7.345	43	6182	1.938	ug/l	100
29) Tetrahydrofuran	7.691	42	741	0.358	ug/l #	28
31) Cyclohexane	8.088	56	9993	1.137	ug/l #	7
36) 1,1-Dichloropropene	8.086	75	33147	5.560	ug/l #	50
38) Carbon Tetrachloride	8.088	117	43378	6.626	ug/l #	15
43) Isopropyl Acetate	8.563	43	44600	4.106	ug/l #	91
45) 1,2-Dichloropropane	9.628	63	2582	0.548	ug/l #	43
48) Methyl methacrylate	9.545	41	10065	1.972	ug/l #	13
49) 1,4-Dioxane	9.628	88	85	36.458	ug/l #	1
51) 4-Methyl-2-Pentanone	10.336	43	7927	1.259	ug/l #	76
54) cis-1,3-Dichloropropene	10.245	75	75771	9.649	ug/l #	57
57) 1,3-Dichloropropane	11.092	76	38788	5.109	ug/l #	42
59) 2-Hexanone	11.092	43	555607	123.003	ug/l #	50
76) 1,2,3-Trichloropropane	12.734	75	148526	29.437	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.734	75	148526	70.425	ug/l #	12
93) 1,2,4-Trichlorobenzene	15.268	180	1086	2.860	ug/l	88
95) Naphthalene	15.509	128	4700	4.206	ug/l	98
96) 1,2,3-Trichlorobenzene	15.708	180	1080	2.784	ug/l	92

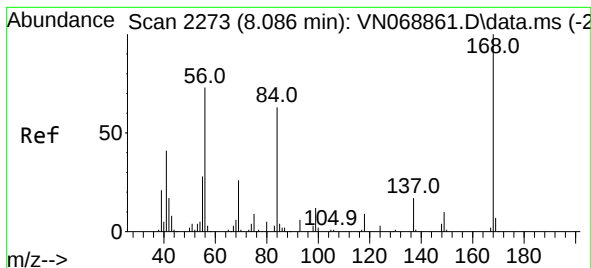
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN068873.D

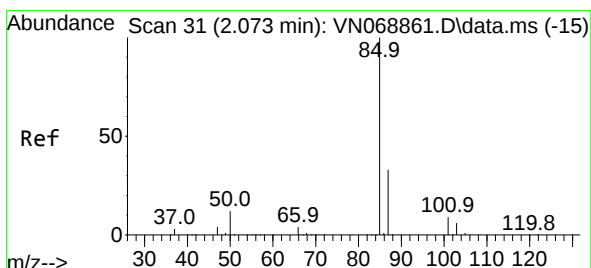
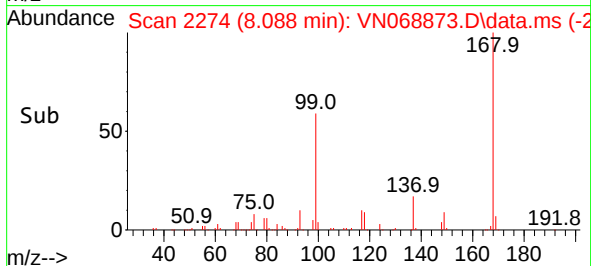
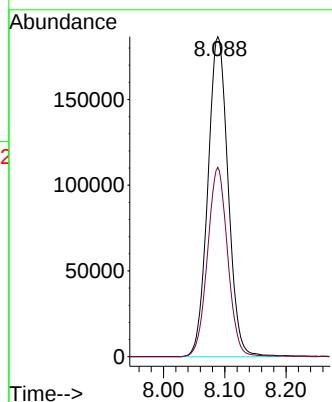
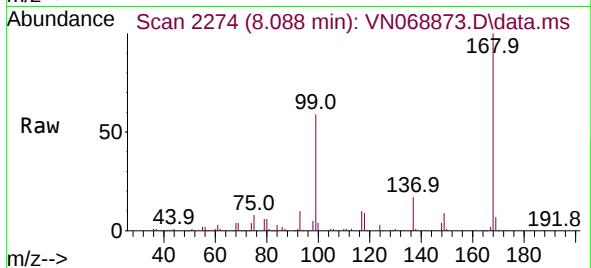
Acq: 12 Oct 2021 20:15

Tgt Ion: 168 Resp: 428831

Ion Ratio Lower Upper

168 100

99 59.2 48.9 73.3



#2

Dichlorodifluoromethane

Concen: 1.257 ug/l

RT: 2.081 min Scan# 34

Delta R.T. 0.008 min

Lab File: VN068873.D

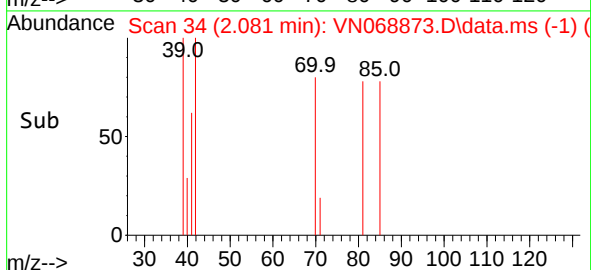
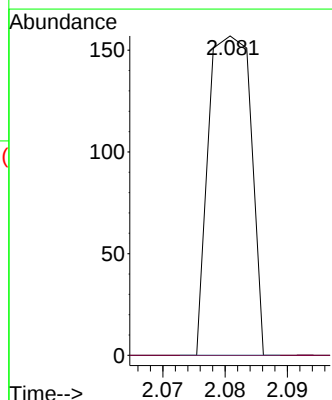
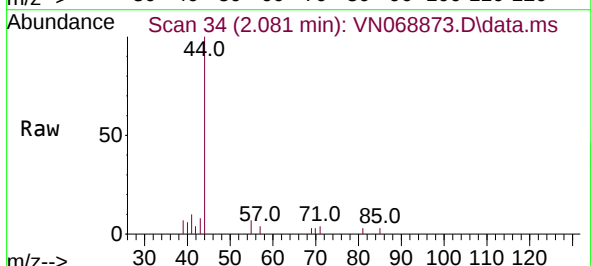
Acq: 12 Oct 2021 20:15

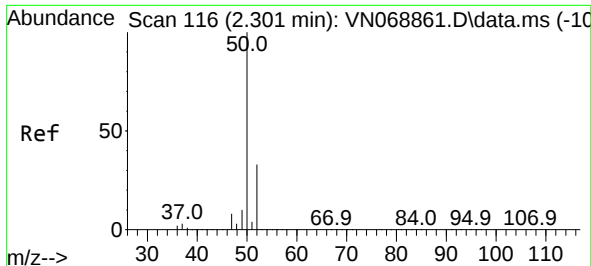
Tgt Ion: 85 Resp: 74

Ion Ratio Lower Upper

85 100

87 0.0 16.3 48.8#

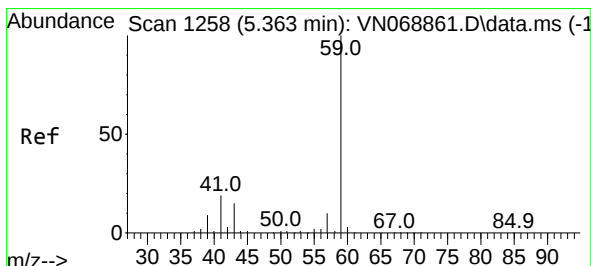
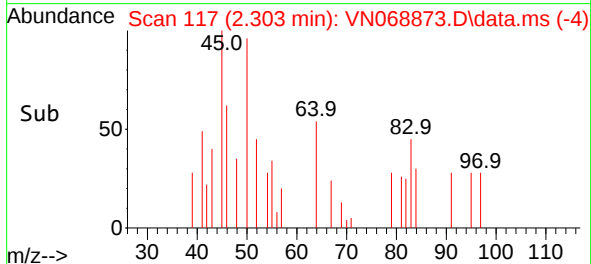
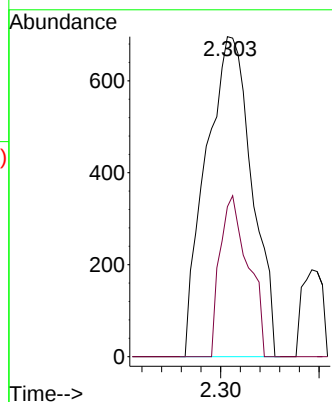
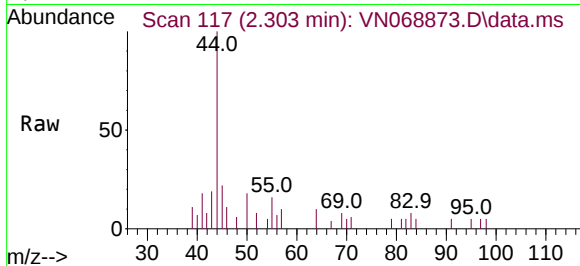




#3
Chloromethane
Concen: 0.215 ug/l
RT: 2.303 min Scan# 117
Delta R.T. 0.003 min
Lab File: VN068873.D
Acq: 12 Oct 2021 20:15

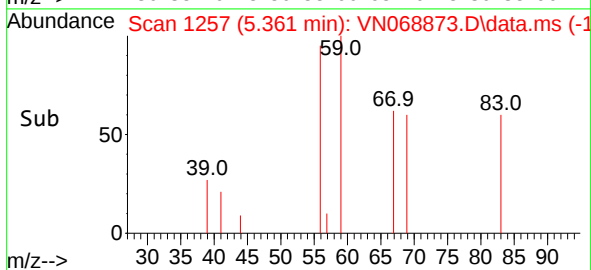
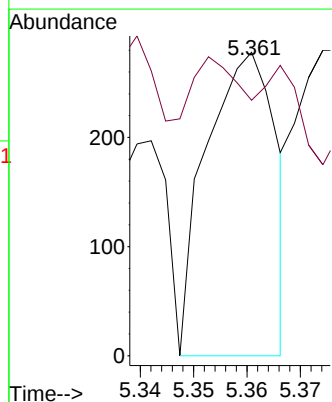
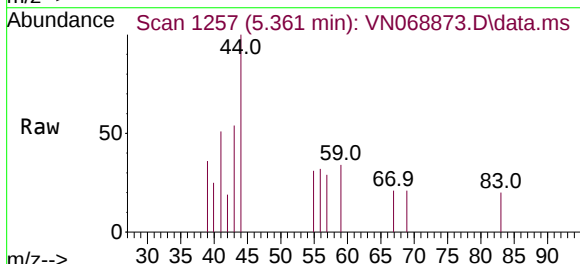
Instrument :
MSVOA_N
ClientSampled :

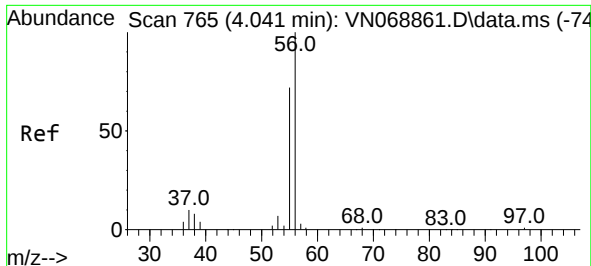
Tgt Ion: 50 Resp: 1129
Ion Ratio Lower Upper
50 100
52 46.8 26.3 39.5#



#11
Tert butyl alcohol
Concen: 0.243 ug/l
RT: 5.361 min Scan# 1257
Delta R.T. -0.003 min
Lab File: VN068873.D
Acq: 12 Oct 2021 20:15

Tgt Ion: 59 Resp: 251
Ion Ratio Lower Upper
59 100
57 15.9 8.3 12.5#

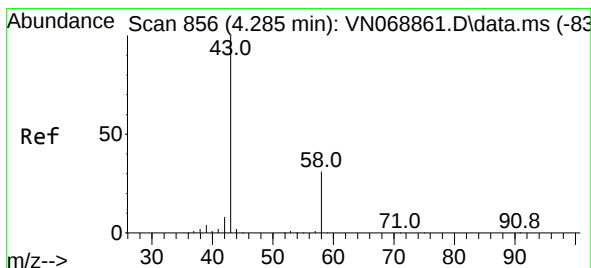
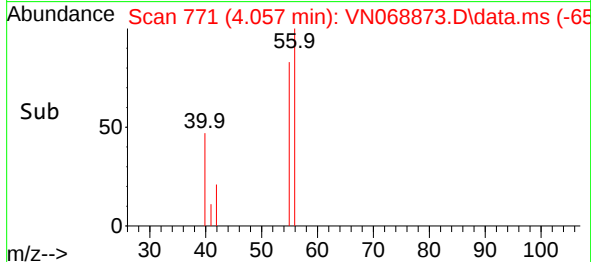
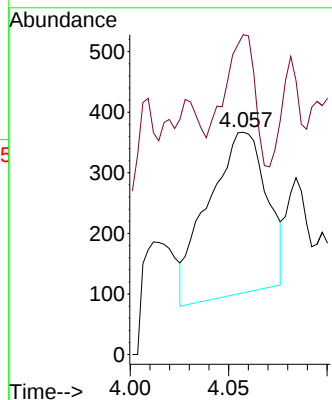
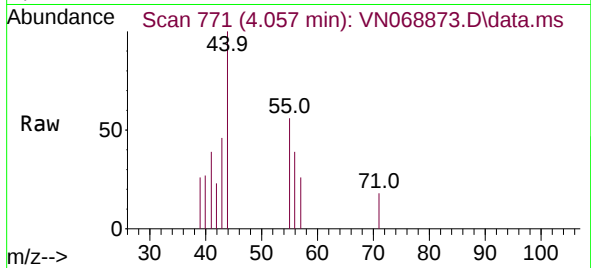




#13
Acrolein
Concen: 1.206 ug/l
RT: 4.057 min Scan# 771
Delta R.T. 0.016 min
Lab File: VN068873.D
Acq: 12 Oct 2021 20:15

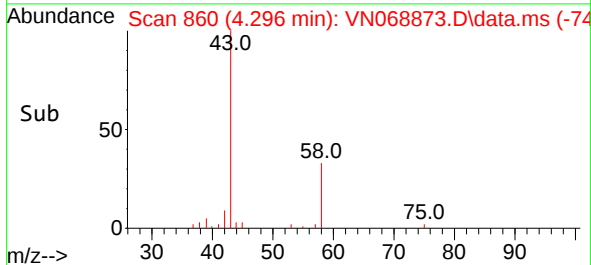
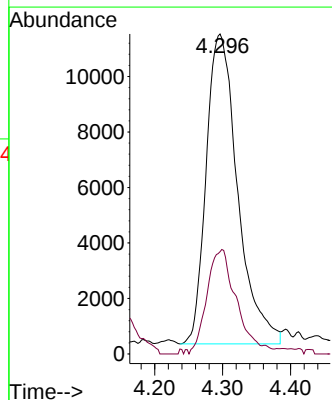
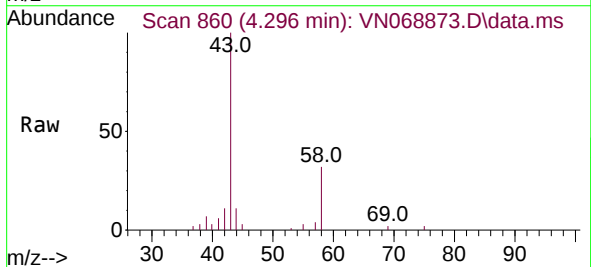
Instrument :
MSVOA_N
ClientSampled :

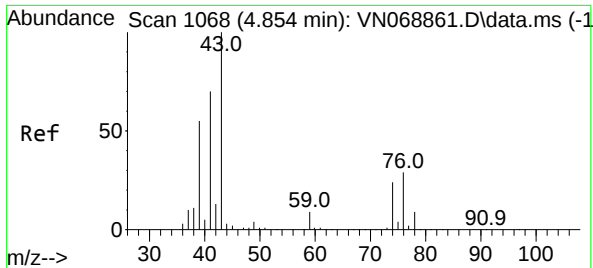
Tgt Ion: 56 Resp: 551
Ion Ratio Lower Upper
56 100
55 42.3 58.1 87.1#



#16
Acetone
Concen: 17.015 ug/l
RT: 4.296 min Scan# 860
Delta R.T. 0.011 min
Lab File: VN068873.D
Acq: 12 Oct 2021 20:15

Tgt Ion: 43 Resp: 35901
Ion Ratio Lower Upper
43 100
58 31.4 24.5 36.7

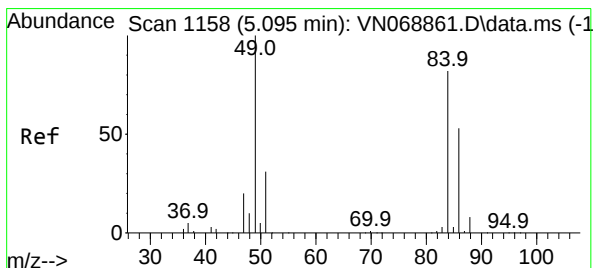
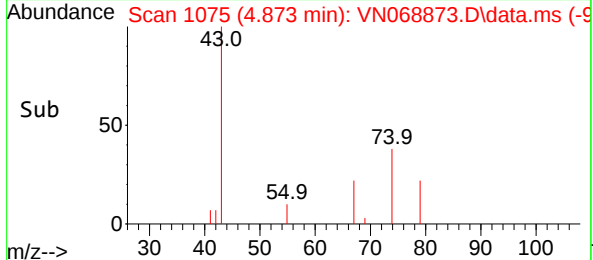
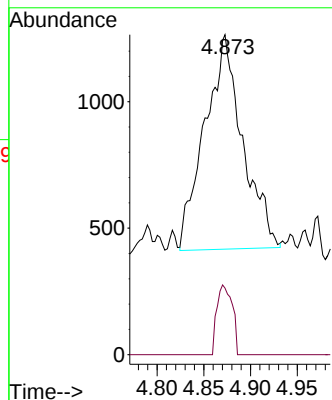
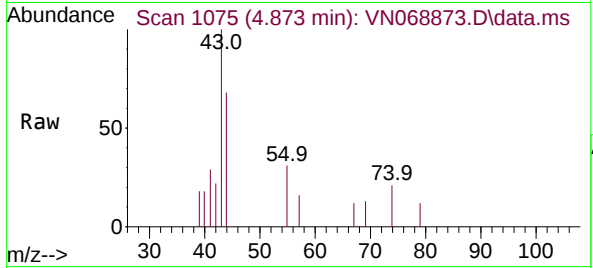




#18
Methyl Acetate
Concen: 0.300 ug/l
RT: 4.873 min Scan# 1075
Delta R.T. 0.019 min
Lab File: VN068873.D
Acq: 12 Oct 2021 20:15

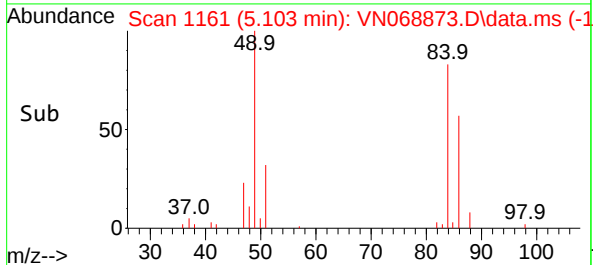
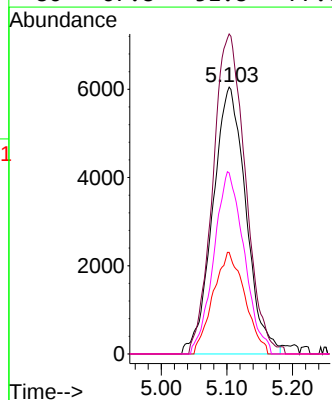
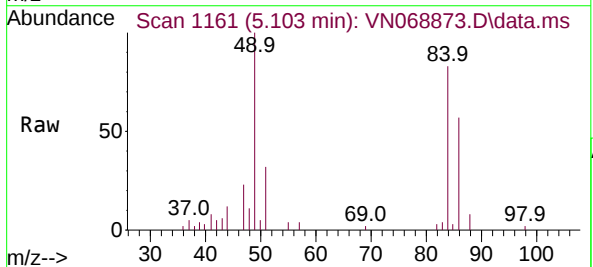
Instrument :
MSVOA_N
ClientSampled :

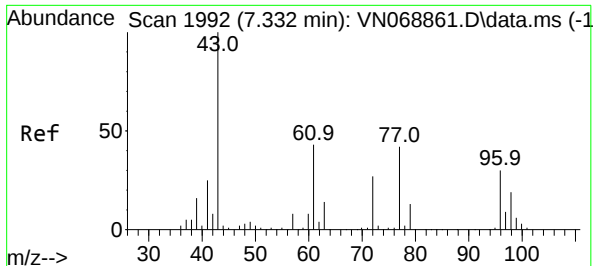
Tgt Ion: 43 Resp: 2399
Ion Ratio Lower Upper
43 100
74 13.1 18.9 28.3#



#20
Methylene Chloride
Concen: 4.363 ug/l
RT: 5.103 min Scan# 1161
Delta R.T. 0.008 min
Lab File: VN068873.D
Acq: 12 Oct 2021 20:15

Tgt Ion: 84 Resp: 21187
Ion Ratio Lower Upper
84 100
49 119.9 97.6 146.4
51 38.1 30.3 45.5
86 67.8 51.8 77.6





#25

2-Butanone

Concen: 1.938 ug/l

RT: 7.345 min Scan# 1997

Delta R.T. 0.014 min

Lab File: VN068873.D

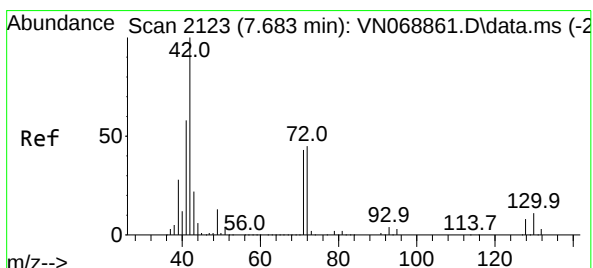
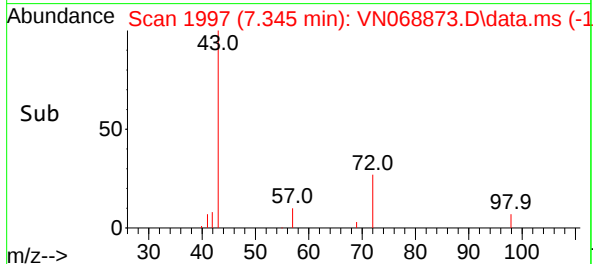
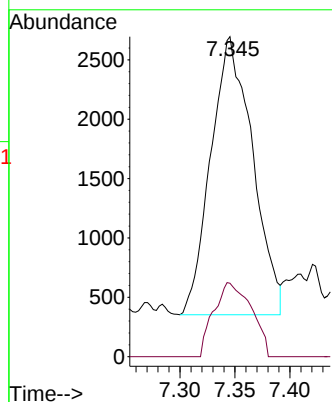
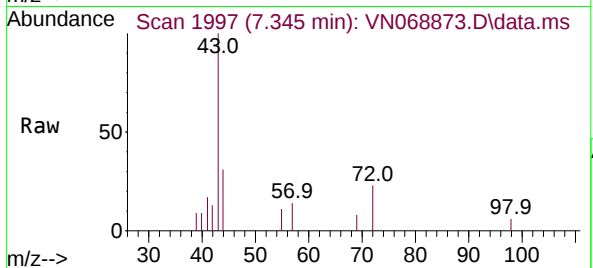
Acq: 12 Oct 2021 20:15

Tgt Ion: 43 Resp: 6182

Ion Ratio Lower Upper

43 100

72 26.4 21.2 31.8



#29

Tetrahydrofuran

Concen: 0.358 ug/l

RT: 7.691 min Scan# 2126

Delta R.T. 0.008 min

Lab File: VN068873.D

Acq: 12 Oct 2021 20:15

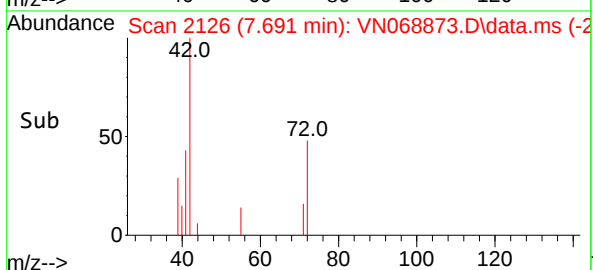
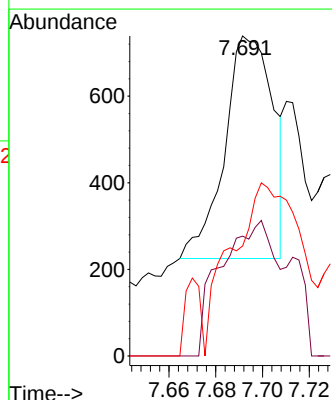
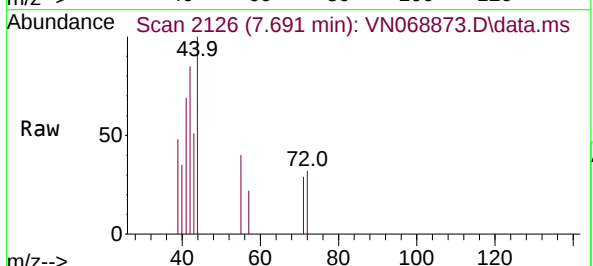
Tgt Ion: 42 Resp: 741

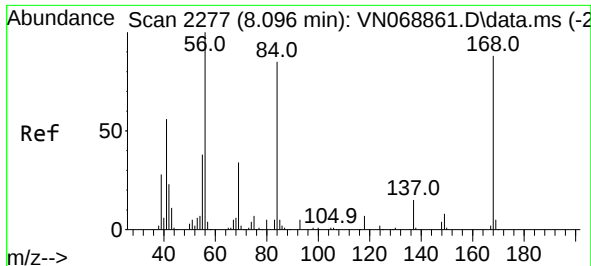
Ion Ratio Lower Upper

42 100

72 68.2 35.4 53.2#

71 110.8 33.8 50.6#

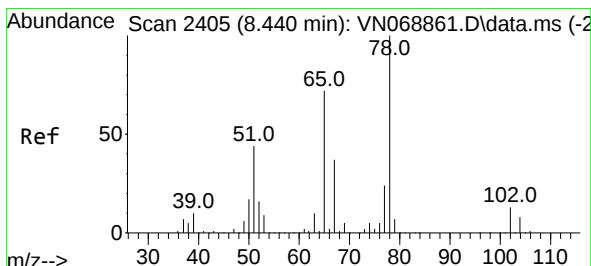
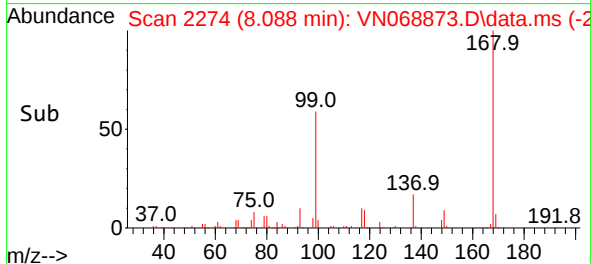
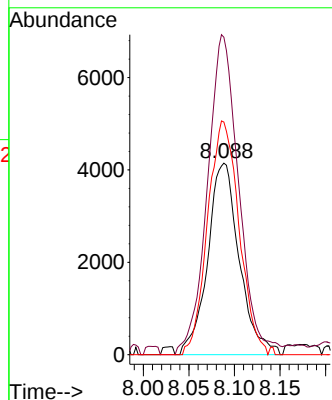
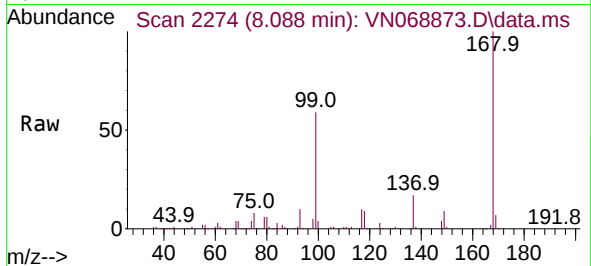




#31
Cyclohexane
Concen: 1.137 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.008 min
Lab File: VN068873.D
Acq: 12 Oct 2021 20:15

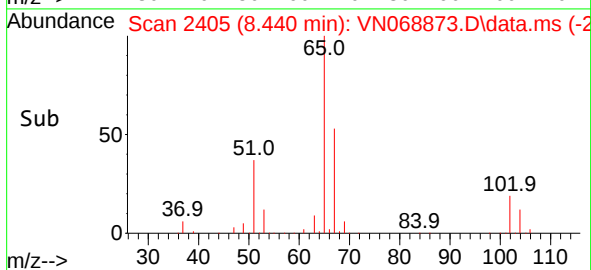
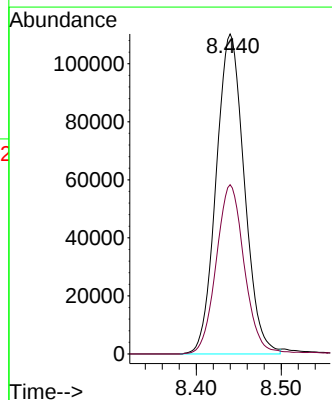
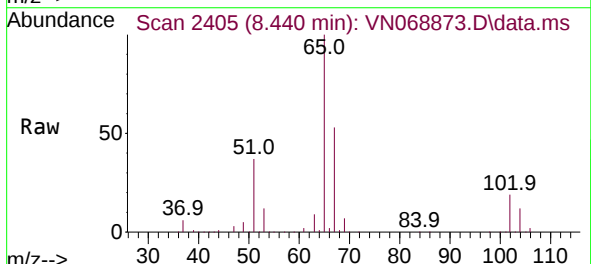
Instrument :
MSVOA_N
ClientSampled :

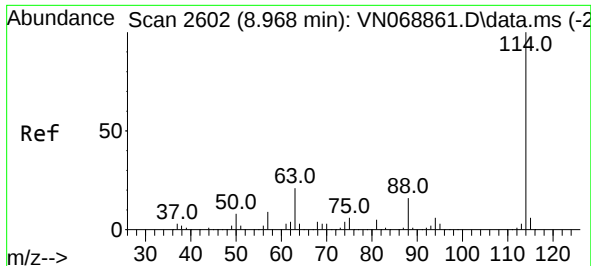
Tgt Ion: 56 Resp: 9993
Ion Ratio Lower Upper
56 100
69 161.2 26.9 40.3#
84 121.5 67.6 101.4#



#33
1,2-Dichloroethane-d4
Concen: 44.901 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.000 min
Lab File: VN068873.D
Acq: 12 Oct 2021 20:15

Tgt Ion: 65 Resp: 253869
Ion Ratio Lower Upper
65 100
67 52.7 0.0 103.8

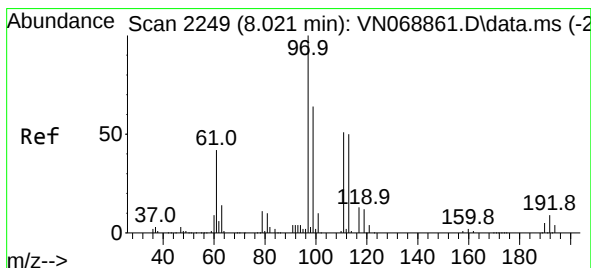
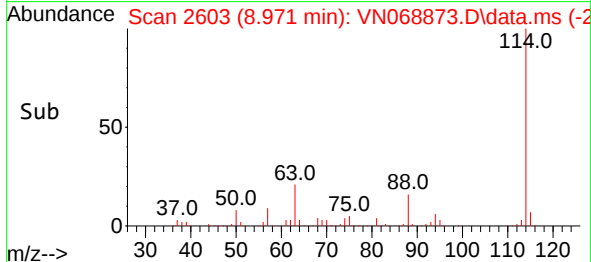
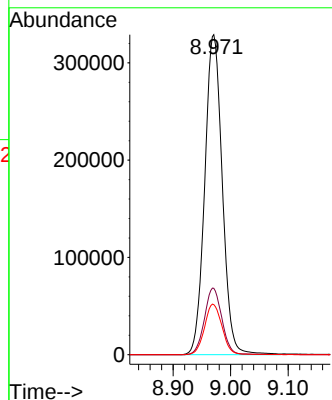
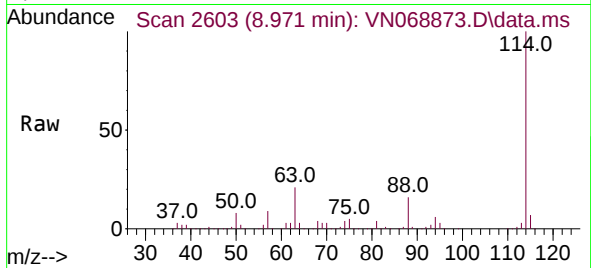




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. 0.003 min
Lab File: VN068873.D
Acq: 12 Oct 2021 20:15

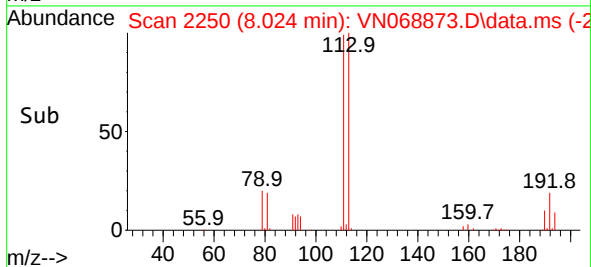
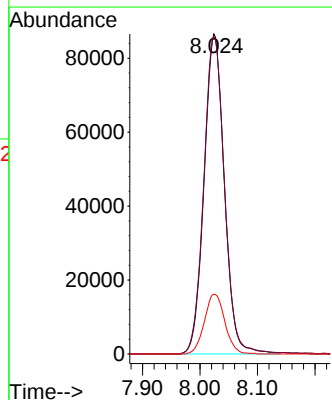
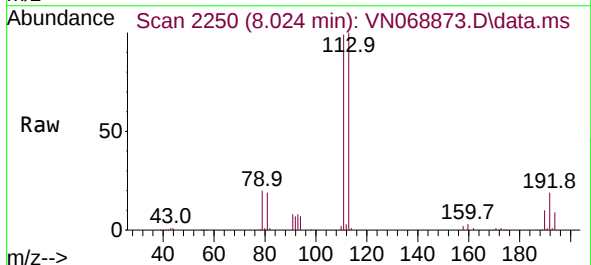
Instrument :
MSVOA_N
ClientSampled :

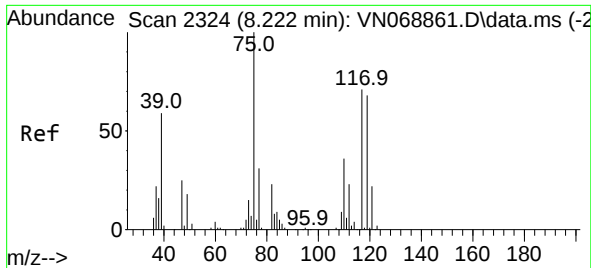
Tgt Ion:114 Resp: 697904
Ion Ratio Lower Upper
114 100
63 20.8 0.0 42.6
88 15.7 0.0 32.0



#35
Dibromofluoromethane
Concen: 52.214 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.003 min
Lab File: VN068873.D
Acq: 12 Oct 2021 20:15

Tgt Ion:113 Resp: 212014
Ion Ratio Lower Upper
113 100
111 101.5 83.2 124.8
192 18.8 15.0 22.4

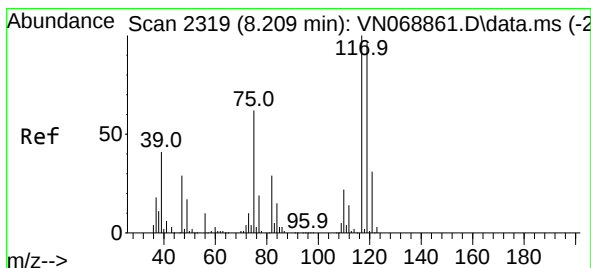
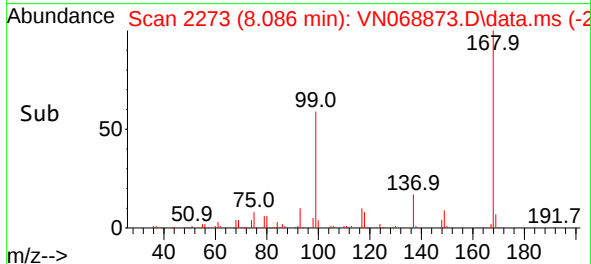
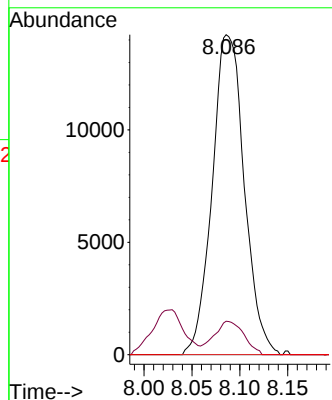
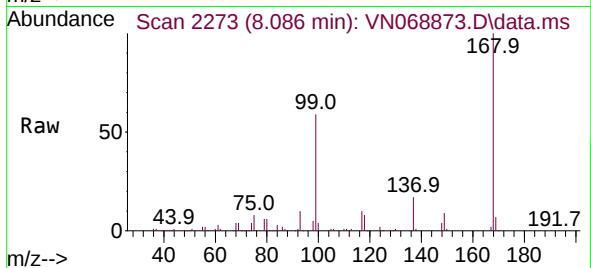




#36
1,1-Dichloropropene
Concen: 5.560 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.137 min
Lab File: VN068873.D
Acq: 12 Oct 2021 20:15

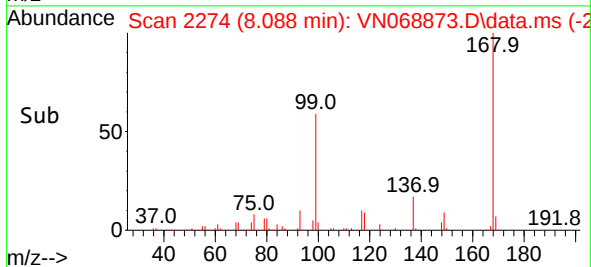
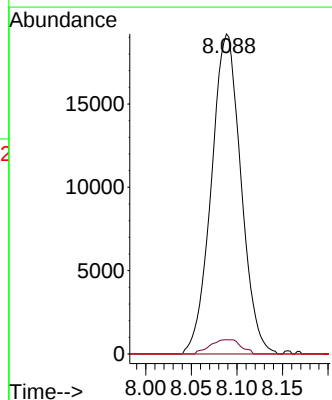
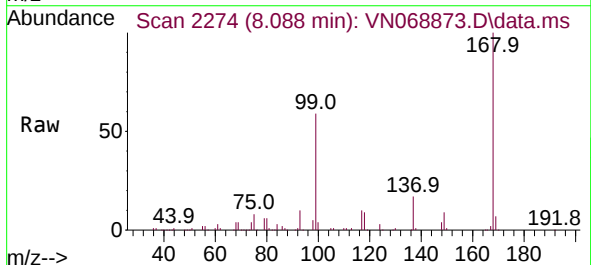
Instrument :
MSVOA_N
ClientSampled :

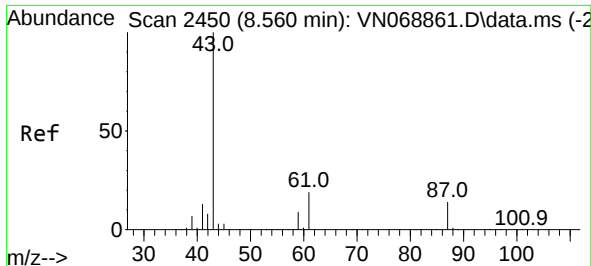
Tgt Ion: 75 Resp: 33147
Ion Ratio Lower Upper
75 100
110 9.8 17.9 53.8#
77 0.0 24.7 37.1#



#38
Carbon Tetrachloride
Concen: 6.626 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.121 min
Lab File: VN068873.D
Acq: 12 Oct 2021 20:15

Tgt Ion: 117 Resp: 43378
Ion Ratio Lower Upper
117 100
119 4.4 76.9 115.3#
121 0.0 24.6 37.0#

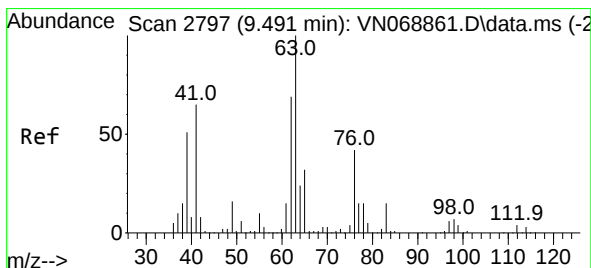
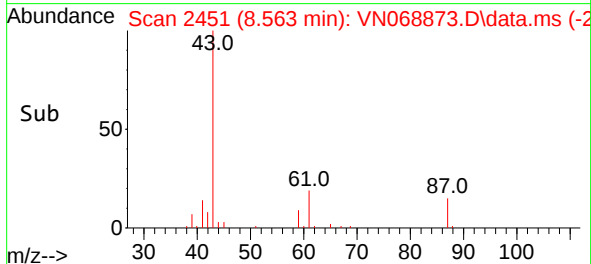
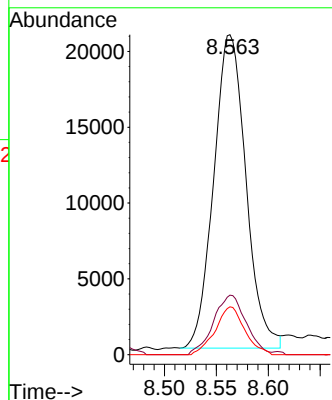
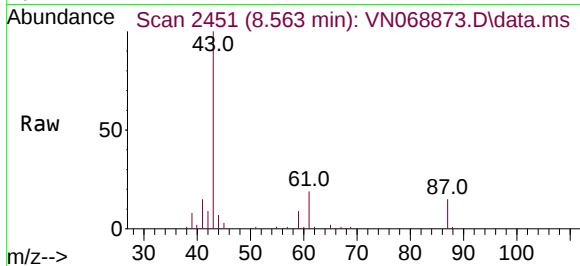




#43
Isopropyl Acetate
Concen: 4.106 ug/l
RT: 8.563 min Scan# 2451
Delta R.T. 0.003 min
Lab File: VN068873.D
Acq: 12 Oct 2021 20:15

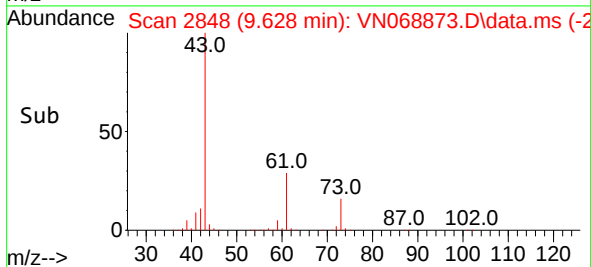
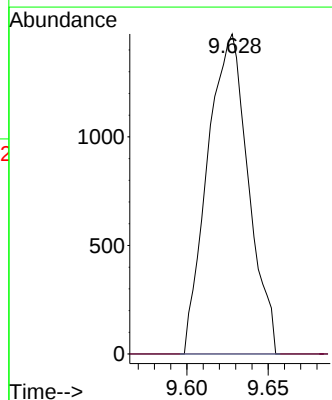
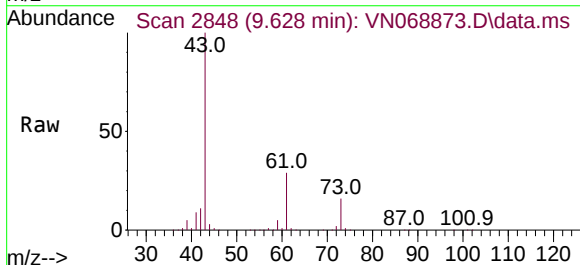
Instrument :
MSVOA_N
ClientSampled :

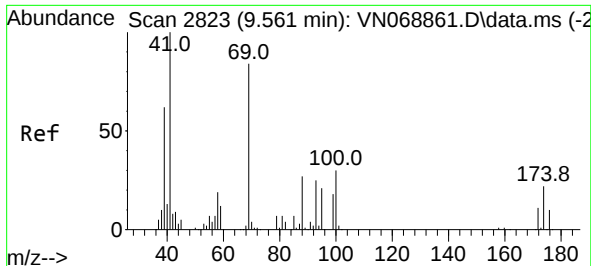
Tgt Ion: 43 Resp: 44600
Ion Ratio Lower Upper
43 100
61 19.2 20.4 30.6#
87 14.0 10.7 16.1



#45
1,2-Dichloropropane
Concen: 0.548 ug/l
RT: 9.628 min Scan# 2848
Delta R.T. 0.137 min
Lab File: VN068873.D
Acq: 12 Oct 2021 20:15

Tgt Ion: 63 Resp: 2582
Ion Ratio Lower Upper
63 100
65 0.0 25.6 38.4#

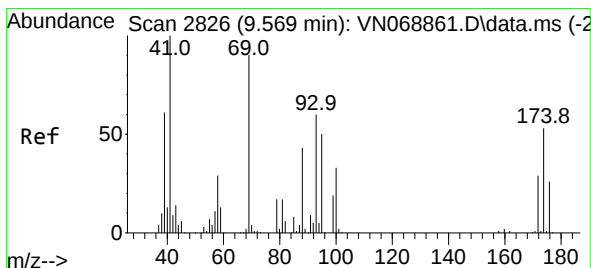
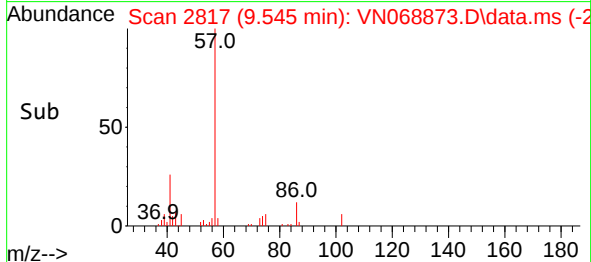
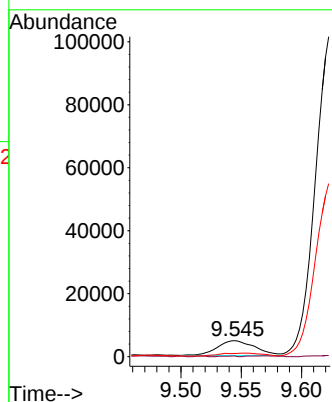
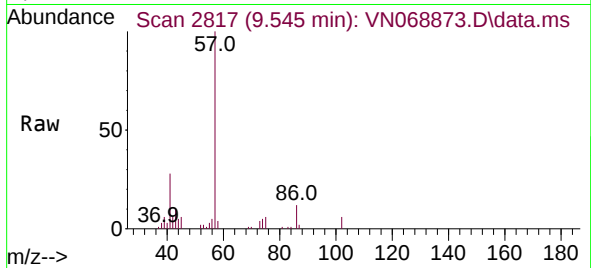




#48
Methyl methacrylate
Concen: 1.972 ug/l
RT: 9.545 min Scan# 2817
Delta R.T. -0.016 min
Lab File: VN068873.D
Acq: 12 Oct 2021 20:15

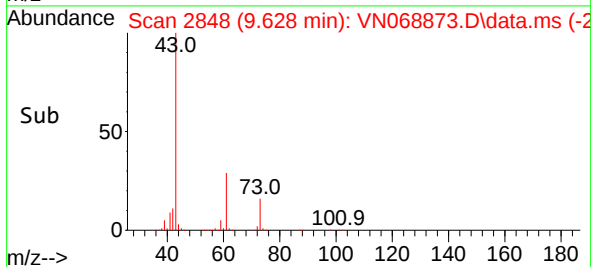
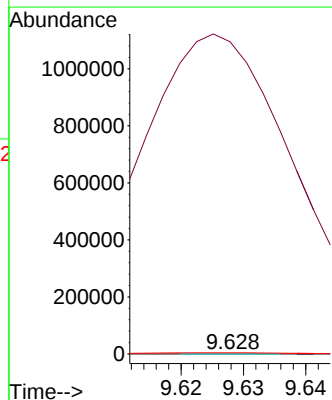
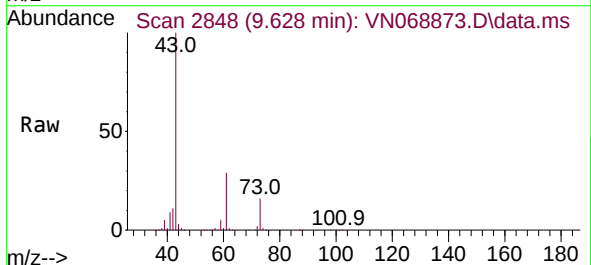
Instrument :
MSVOA_N
ClientSampled :

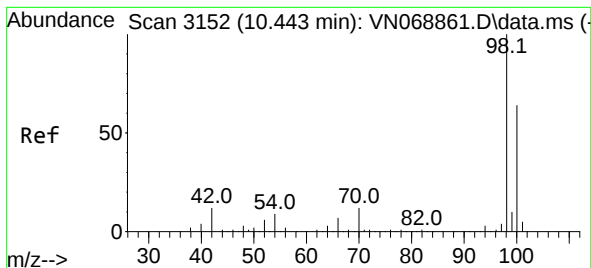
Tgt Ion: 41 Resp: 10065
Ion Ratio Lower Upper
41 100
69 0.8 66.4 99.6#
39 0.0 50.2 75.2#



#49
1,4-Dioxane
Concen: 36.458 ug/l
RT: 9.628 min Scan# 2848
Delta R.T. 0.059 min
Lab File: VN068873.D
Acq: 12 Oct 2021 20:15

Tgt Ion: 88 Resp: 85
Ion Ratio Lower Upper
88 100
43 2544327.1 24.9 37.3#
58 9431.8 56.9 85.3#

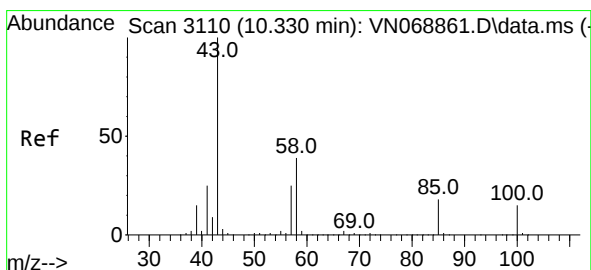
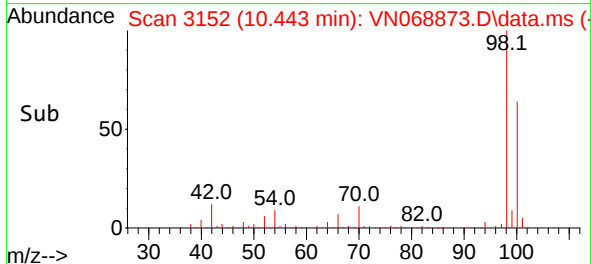
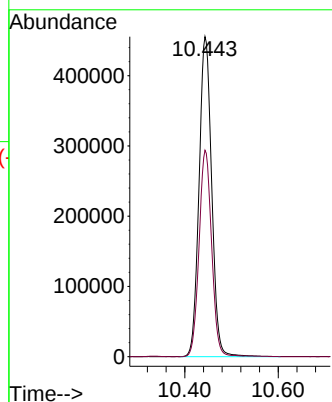
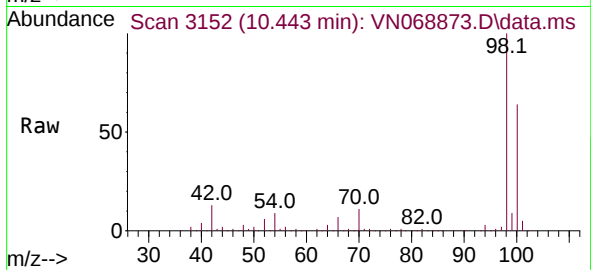




#50
Toluene-d8
Concen: 52.579 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN068873.D
Acq: 12 Oct 2021 20:15

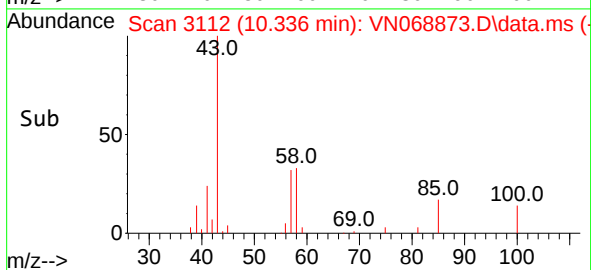
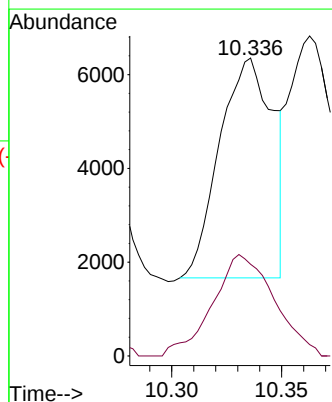
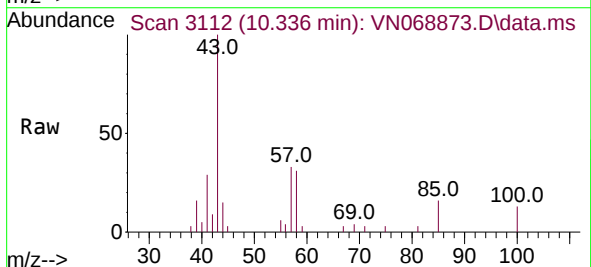
Instrument :
MSVOA_N
ClientSampled :

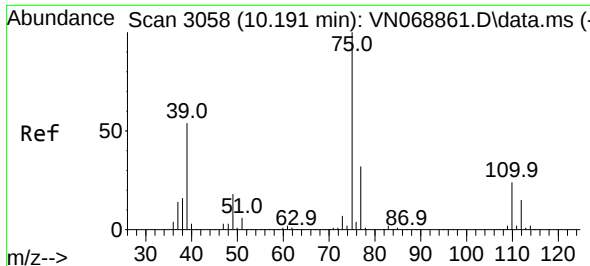
Tgt Ion: 98 Resp: 854225
Ion Ratio Lower Upper
98 100
100 64.1 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 1.259 ug/l
RT: 10.336 min Scan# 3112
Delta R.T. 0.005 min
Lab File: VN068873.D
Acq: 12 Oct 2021 20:15

Tgt Ion: 43 Resp: 7927
Ion Ratio Lower Upper
43 100
58 53.1 31.0 46.4#

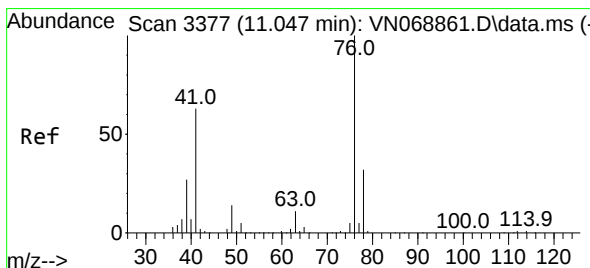
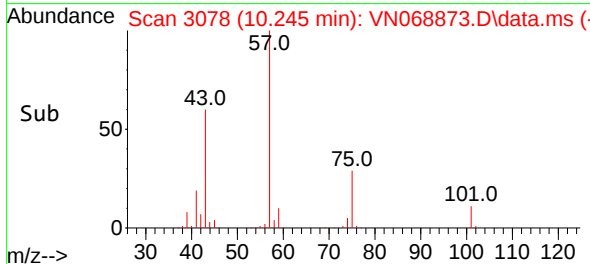
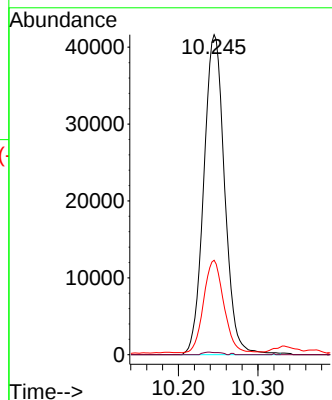
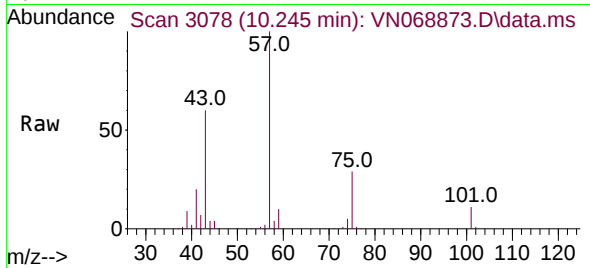




#54
 cis-1,3-Dichloropropene
 Concen: 9.649 ug/l
 RT: 10.245 min Scan# 3078
 Delta R.T. 0.054 min
 Lab File: VN068873.D
 Acq: 12 Oct 2021 20:15

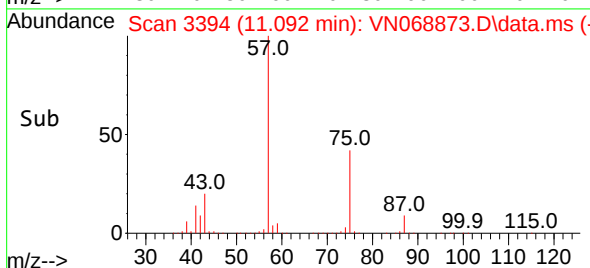
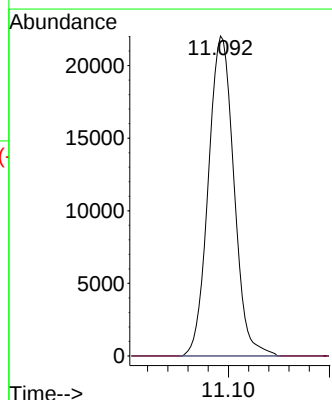
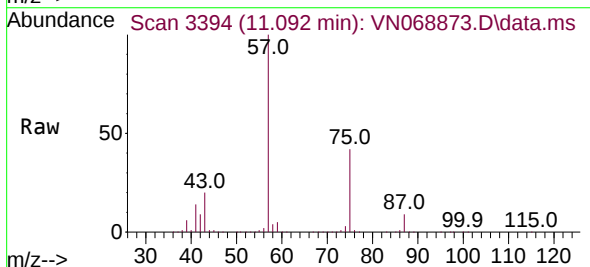
Instrument :
 MSVOA_N
 ClientSampled :

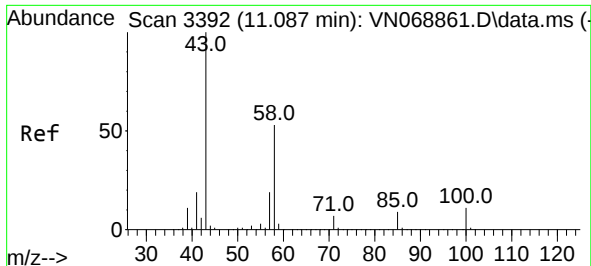
Tgt Ion: 75 Resp: 75771
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.6 38.4#
 39 28.9 42.9 64.3#



#57
 1,3-Dichloropropane
 Concen: 5.109 ug/l
 RT: 11.092 min Scan# 3394
 Delta R.T. 0.046 min
 Lab File: VN068873.D
 Acq: 12 Oct 2021 20:15

Tgt Ion: 76 Resp: 38788
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#

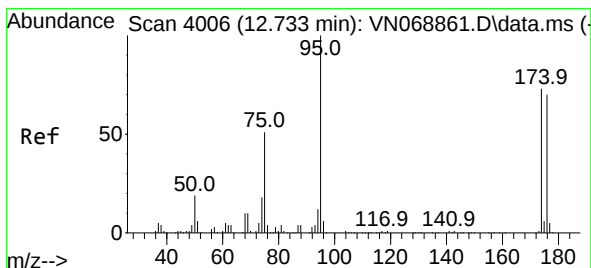
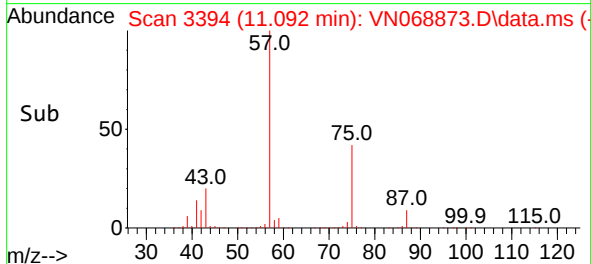
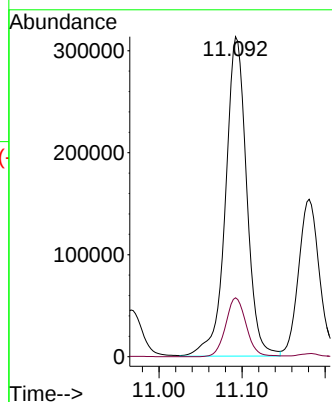
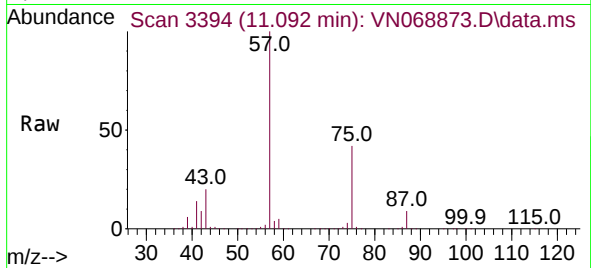




#59
2-Hexanone
Concen: 123.003 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.005 min
Lab File: VN068873.D
Acq: 12 Oct 2021 20:15

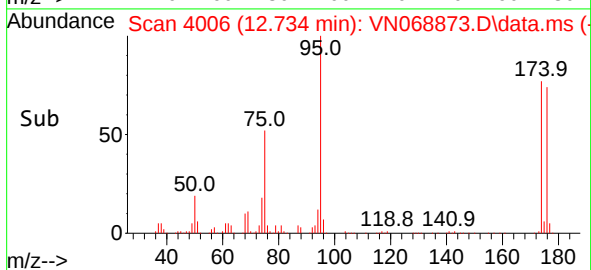
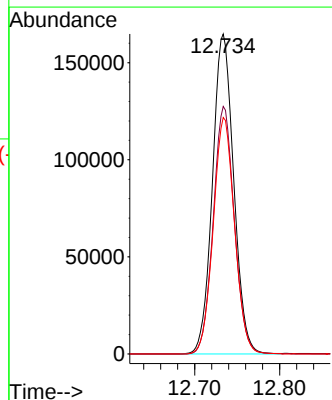
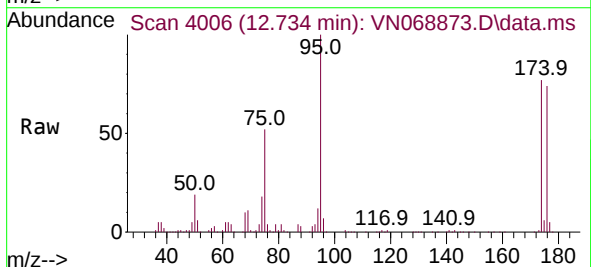
Instrument :
MSVOA_N
ClientSampled :

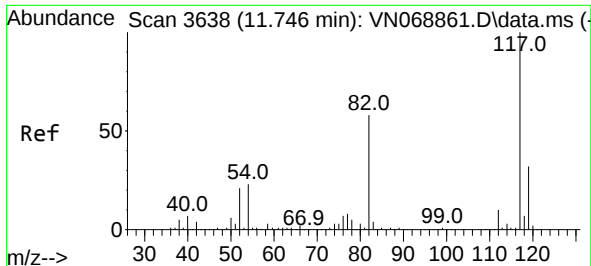
Tgt Ion: 43 Resp: 555607
Ion Ratio Lower Upper
43 100
58 18.0 26.9 80.7#



#62
4-Bromofluorobenzene
Concen: 46.742 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.000 min
Lab File: VN068873.D
Acq: 12 Oct 2021 20:15

Tgt Ion: 95 Resp: 286511
Ion Ratio Lower Upper
95 100
174 76.7 0.0 144.8
176 74.0 0.0 140.0

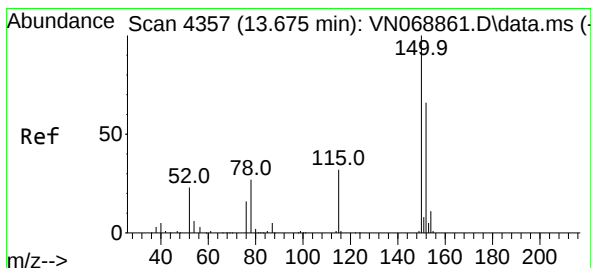
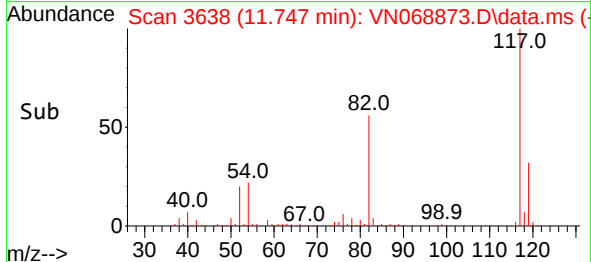
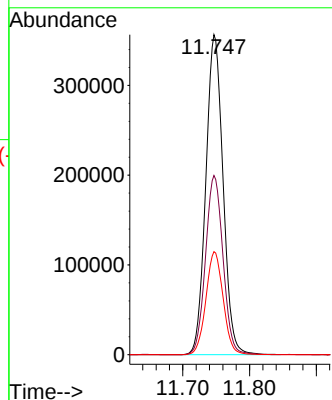
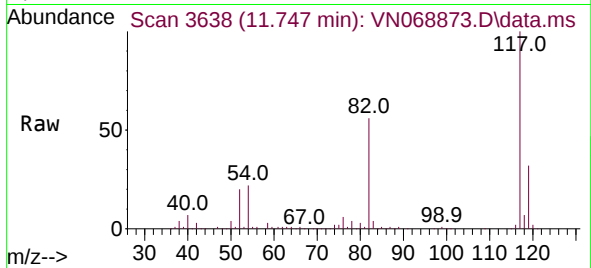




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN068873.D
Acq: 12 Oct 2021 20:15

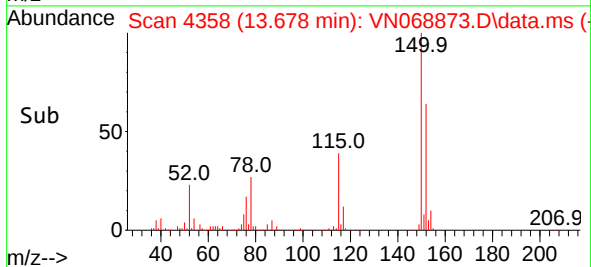
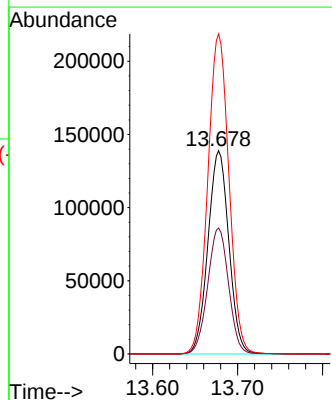
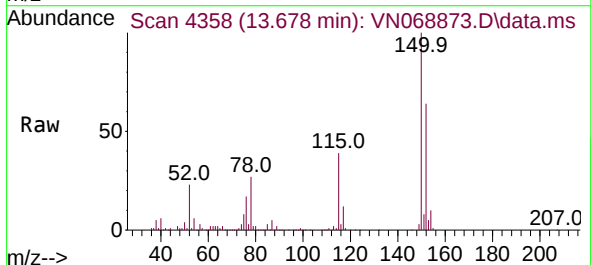
Instrument :
MSVOA_N
ClientSampleId :

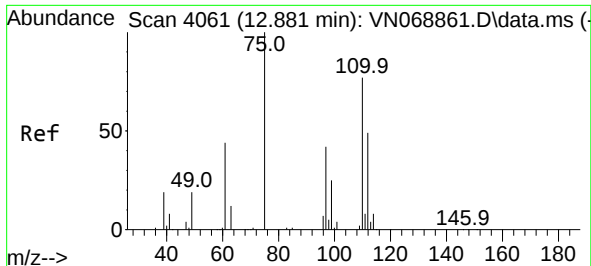
Tgt Ion:117 Resp: 639620
Ion Ratio Lower Upper
117 100
82 56.0 46.4 69.6
119 32.2 26.0 39.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. 0.003 min
Lab File: VN068873.D
Acq: 12 Oct 2021 20:15

Tgt Ion:152 Resp: 237138
Ion Ratio Lower Upper
152 100
115 62.0 31.4 94.3
150 159.4 0.0 351.0

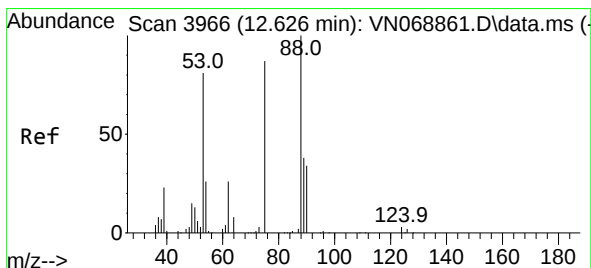
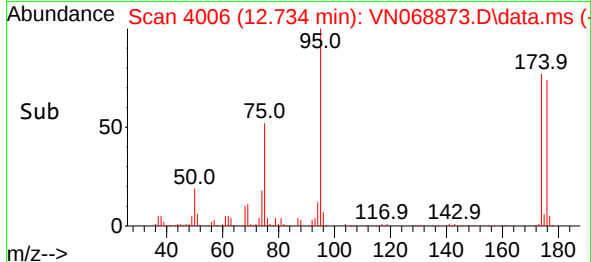
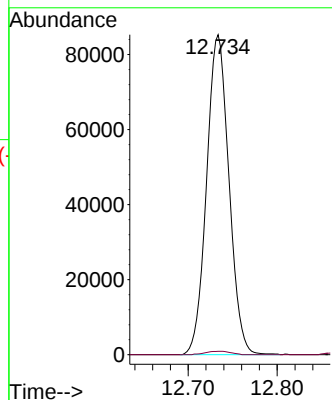
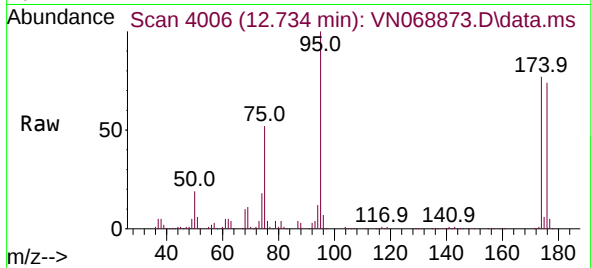




#76
1,2,3-Trichloropropane
Concen: 29.437 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.147 min
Lab File: VN068873.D
Acq: 12 Oct 2021 20:15

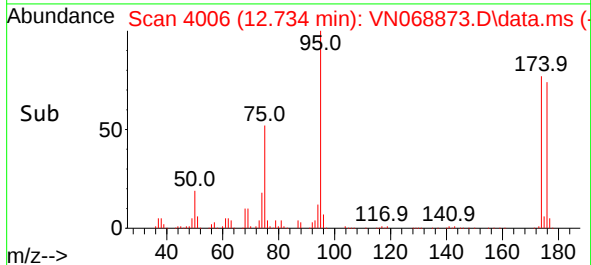
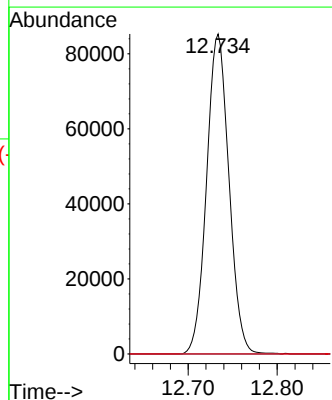
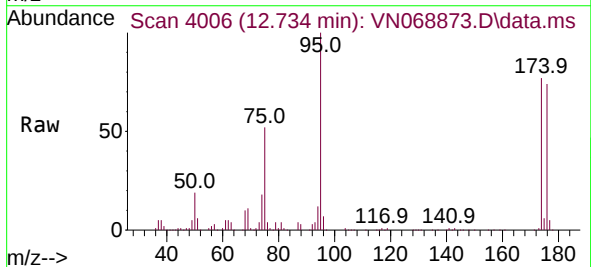
Instrument :
MSVOA_N
ClientSampled :

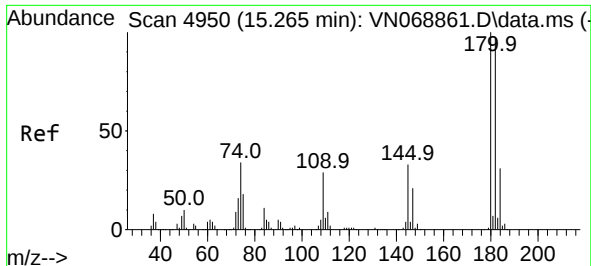
Tgt Ion: 75 Resp: 148526
Ion Ratio Lower Upper
75 100
77 1.2 96.2 288.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 70.425 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.107 min
Lab File: VN068873.D
Acq: 12 Oct 2021 20:15

Tgt Ion: 75 Resp: 148526
Ion Ratio Lower Upper
75 100
53 0.0 75.4 113.2#
89 0.0 36.9 55.3#

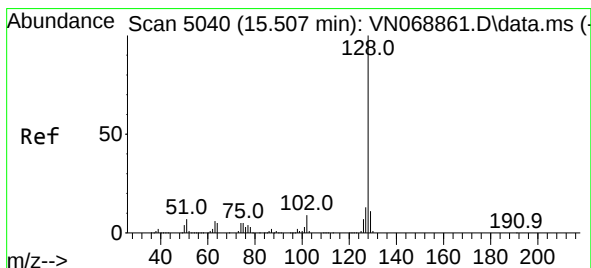
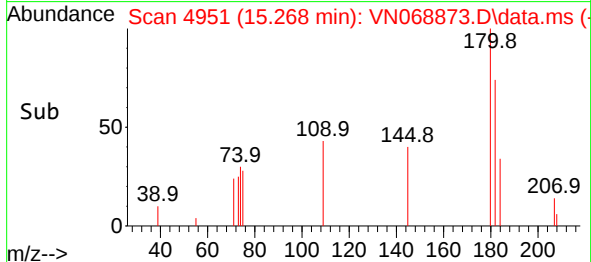
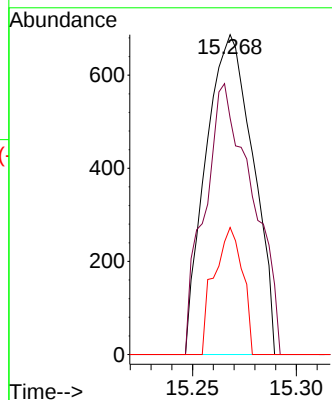
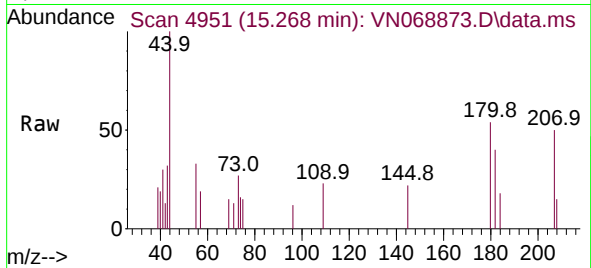




#93
1,2,4-Trichlorobenzene
Concen: 2.860 ug/l
RT: 15.268 min Scan# 4951
Delta R.T. 0.003 min
Lab File: VN068873.D
Acq: 12 Oct 2021 20:15

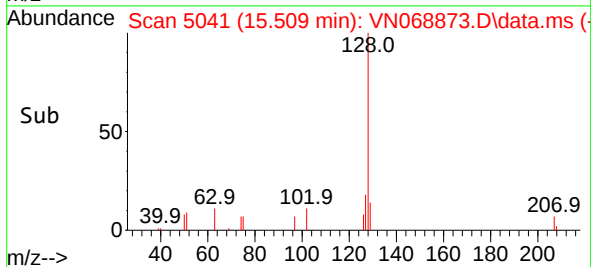
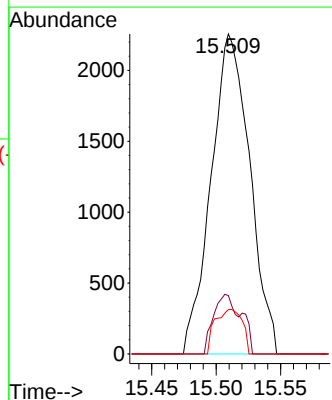
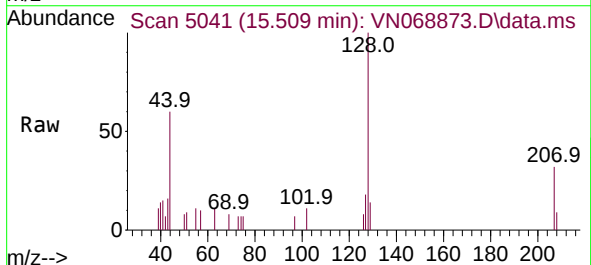
Instrument :
MSVOA_N
ClientSampleId :

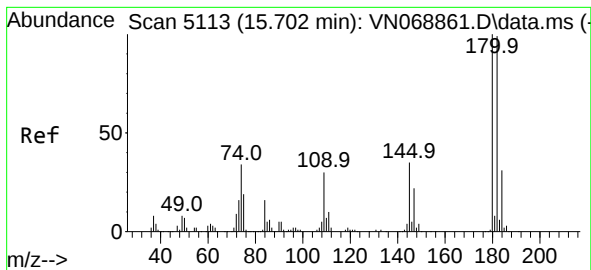
Tgt Ion:180 Resp: 1086
Ion Ratio Lower Upper
180 100
182 85.6 47.9 143.7
145 23.8 16.4 49.2



#95
Naphthalene
Concen: 4.206 ug/l
RT: 15.509 min Scan# 5041
Delta R.T. 0.002 min
Lab File: VN068873.D
Acq: 12 Oct 2021 20:15

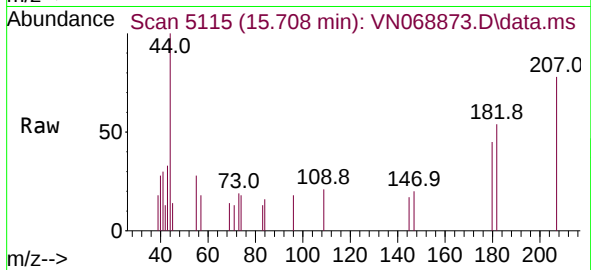
Tgt Ion:128 Resp: 4700
Ion Ratio Lower Upper
128 100
127 13.3 10.5 15.7
129 9.8 8.9 13.3





#96
 1,2,3-Trichlorobenzene
 Concen: 2.784 ug/l
 RT: 15.708 min Scan# 5115
 Delta R.T. 0.006 min
 Lab File: VN068873.D
 Acq: 12 Oct 2021 20:15

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	1080
Ion	Ratio	Lower	Upper
180	100		
182	90.6	48.1	144.3
145	26.7	17.4	52.2

