

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101521\
 Data File : VN068946.D
 Acq On : 15 Oct 2021 13:50
 Operator : JC/MD
 Sample : M4192-13
 Misc : 6.15g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 18 02:15:07 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)

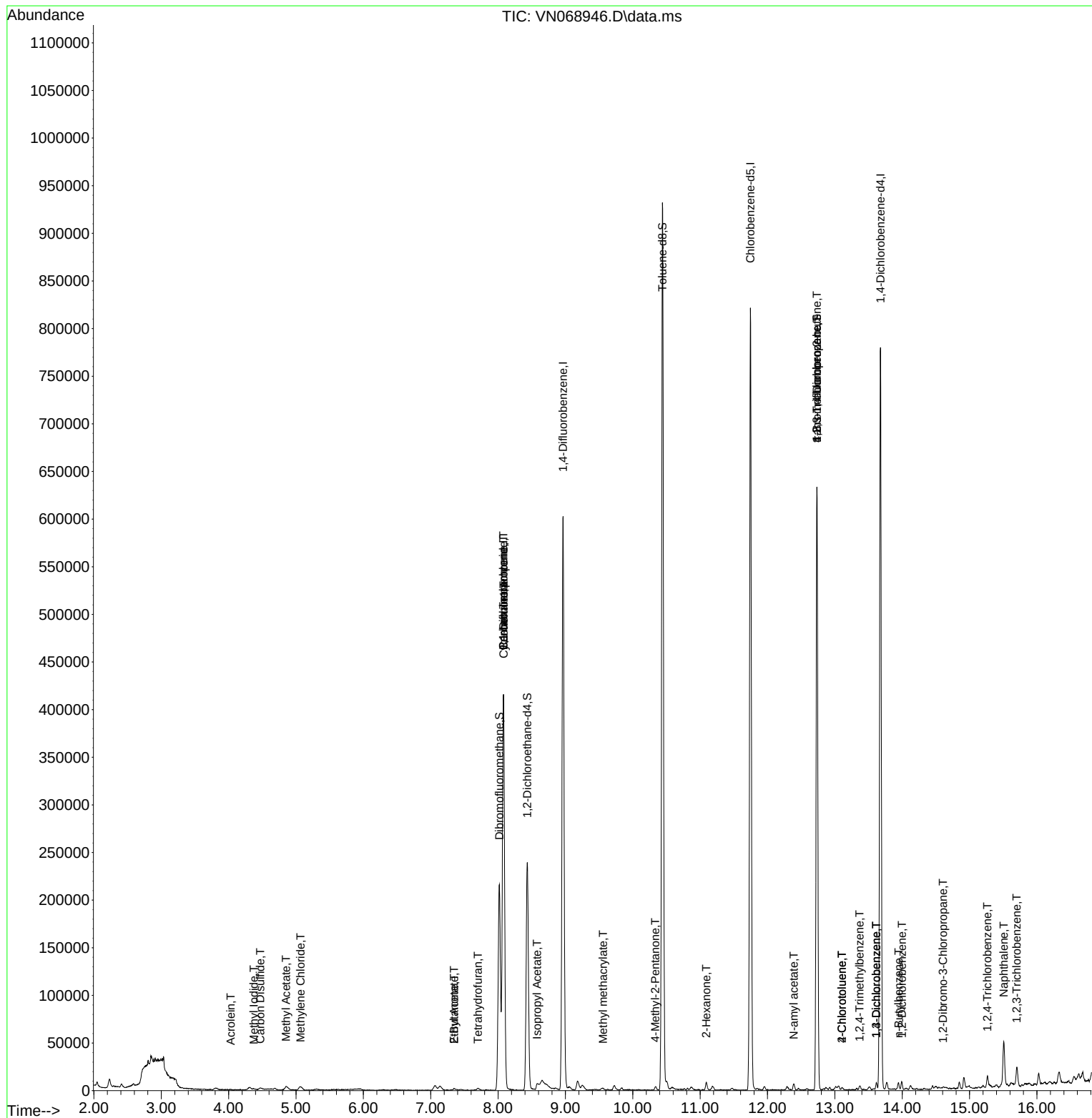
Internal Standards						
1) Pentafluorobenzene	8.080	168	315081	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.965	114	542746	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	478851	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	203594	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.434	65	202551	48.758	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	97.520%		
35) Dibromofluoromethane	8.019	113	160383	50.790	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	101.580%		
50) Toluene-d8	10.440	98	665624	52.682	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	105.360%		
62) 4-Bromofluorobenzene	12.734	95	232261	48.724	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	97.440%		
Target Compounds						Qvalue
10) Methyl Iodide	4.374	142	1200	0.281	ug/l #	59
13) Acrolein	4.031	56	220	0.655	ug/l #	78
17) Carbon Disulfide	4.470	76	4096	0.496	ug/l #	93
18) Methyl Acetate	4.851	43	4727	0.804	ug/l #	83
20) Methylene Chloride	5.066	84	3540	0.992	ug/l #	82
25) 2-Butanone	7.345	43	1683	0.718	ug/l #	87
29) Tetrahydrofuran	7.702	42	1630	1.072	ug/l #	62
31) Cyclohexane	8.083	56	7446	1.153	ug/l #	4
36) 1,1-Dichloropropene	8.080	75	25585	5.519	ug/l #	49
37) Ethyl Acetate	7.345	43	1683	0.352	ug/l #	68
38) Carbon Tetrachloride	8.080	117	32169	6.318	ug/l #	15
43) Isopropyl Acetate	8.579	43	3559	0.421	ug/l #	55
48) Methyl methacrylate	9.558	41	835	0.210	ug/l #	16
51) 4-Methyl-2-Pentanone	10.336	43	3222	0.658	ug/l #	84
59) 2-Hexanone	11.092	43	6038	1.719	ug/l	90
74) N-amyl acetate	12.390	43	3636	0.566	ug/l #	95
76) 1,2,3-Trichloropropane	12.734	75	120177	27.742	ug/l #	1
79) 2-Chlorotoluene	13.106	91	2457	0.209	ug/l	90
81) trans-1,4-Dichloro-2-b...	12.734	75	120177	66.372	ug/l #	12
82) 4-Chlorotoluene	13.106	91	2457	0.217	ug/l	91
84) 1,2,4-Trimethylbenzene	13.366	105	3164	0.233	ug/l	83
87) 1,3-Dichlorobenzene	13.616	146	1848	0.285	ug/l	90
88) 1,4-Dichlorobenzene	13.616	146	1848	0.287	ug/l	90
89) n-Butylbenzene	13.946	91	4796	0.422	ug/l	96
91) 1,2-Dichlorobenzene	13.997	146	1828	0.290	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.606	75	420	0.445	ug/l	83
93) 1,2,4-Trichlorobenzene	15.265	180	3813	3.659	ug/l #	89
95) Naphthalene	15.507	128	45057	8.217	ug/l	99
96) 1,2,3-Trichlorobenzene	15.700	180	4672	3.877	ug/l	92

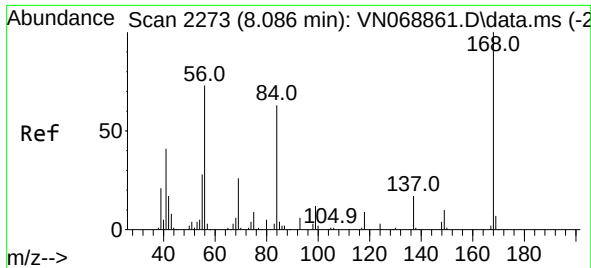
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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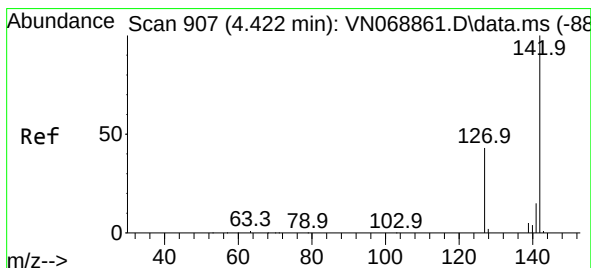
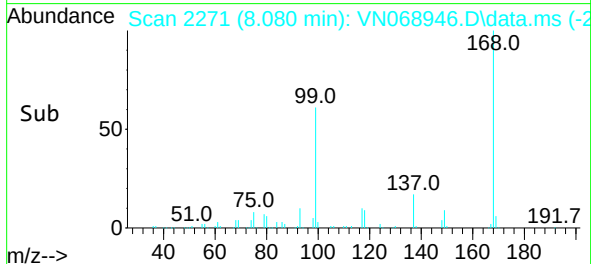
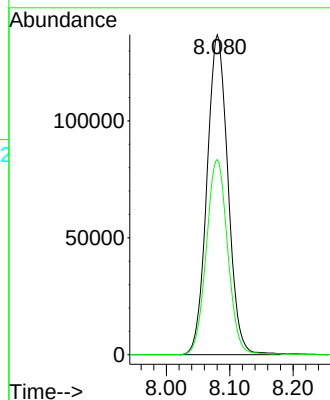
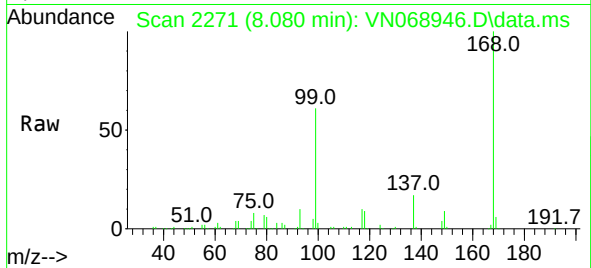




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.080 min Scan# 2271
Delta R.T. -0.006 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

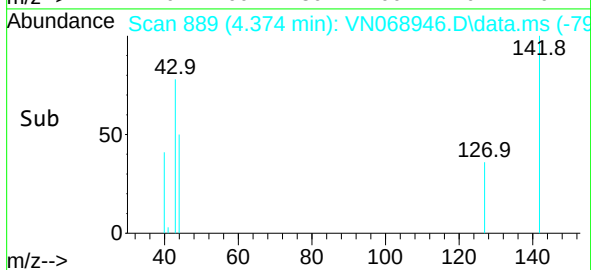
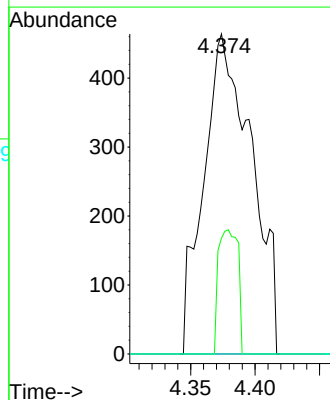
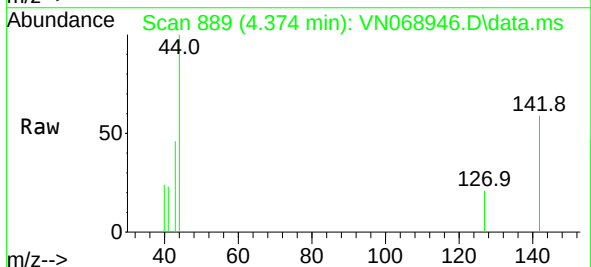
Instrument :
MSVOA_N
ClientSampled :

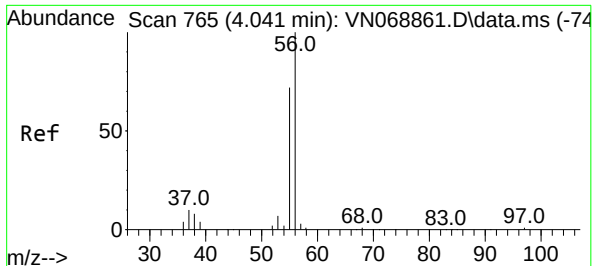
Tgt Ion:168 Resp: 315081
Ion Ratio Lower Upper
168 100
99 61.0 48.9 73.3



#10
Methyl Iodide
Concen: 0.281 ug/l
RT: 4.374 min Scan# 889
Delta R.T. -0.048 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

Tgt Ion:142 Resp: 1200
Ion Ratio Lower Upper
142 100
127 15.8 34.4 51.6#
141 0.0 11.3 16.9#

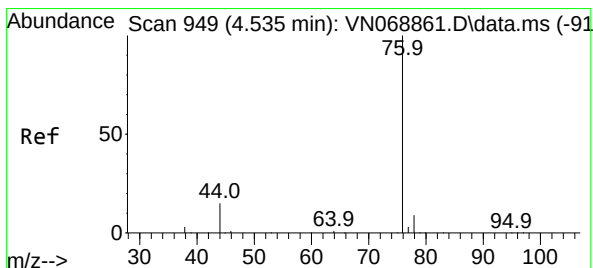
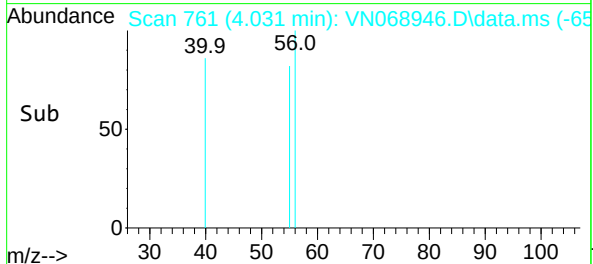
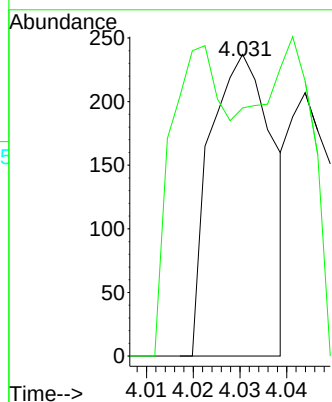
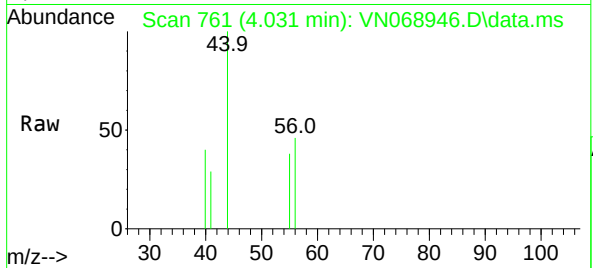




#13
Acrolein
Concen: 0.655 ug/l
RT: 4.031 min Scan# 761
Delta R.T. -0.011 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

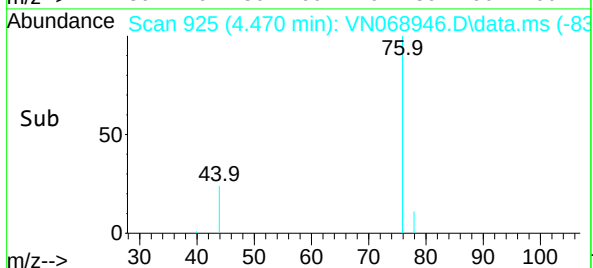
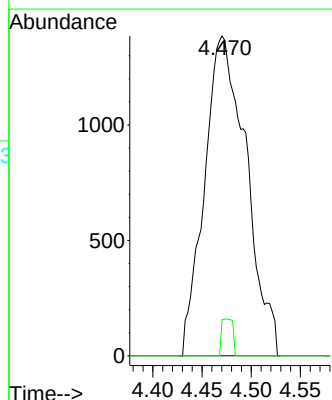
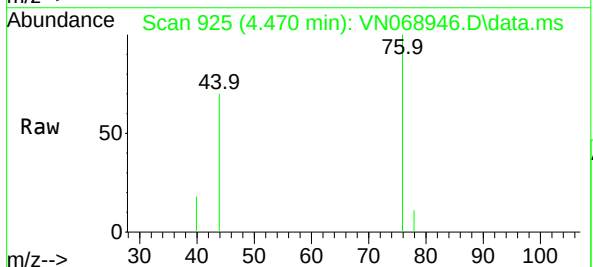
Instrument :
MSVOA_N
ClientSampled :

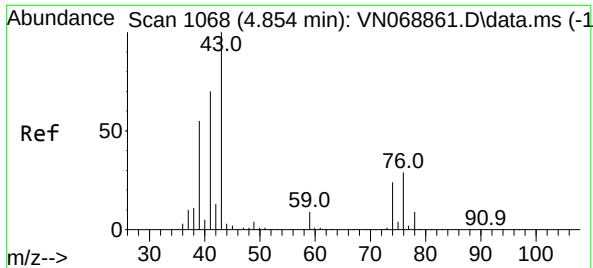
Tgt Ion: 56 Resp: 220
Ion Ratio Lower Upper
56 100
55 91.4 58.1 87.1#



#17
Carbon Disulfide
Concen: 0.496 ug/l
RT: 4.470 min Scan# 925
Delta R.T. -0.064 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

Tgt Ion: 76 Resp: 4096
Ion Ratio Lower Upper
76 100
78 11.4 7.2 10.8#

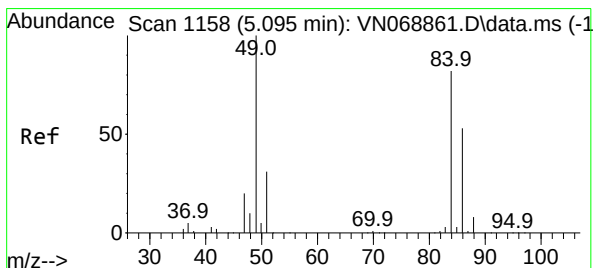
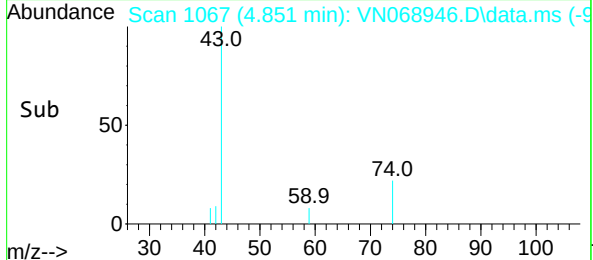
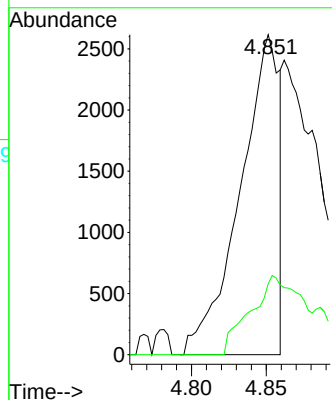
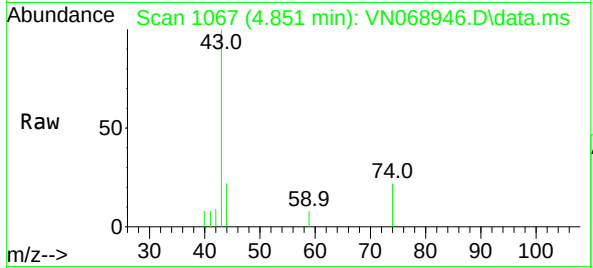




#18
Methyl Acetate
Concen: 0.804 ug/l
RT: 4.851 min Scan# 1067
Delta R.T. -0.003 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

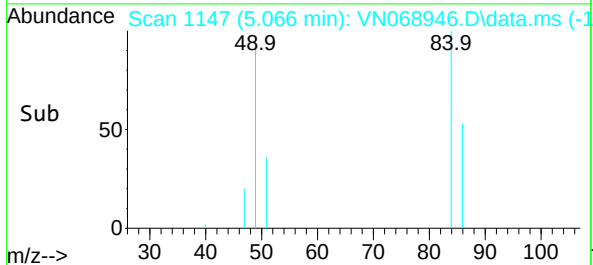
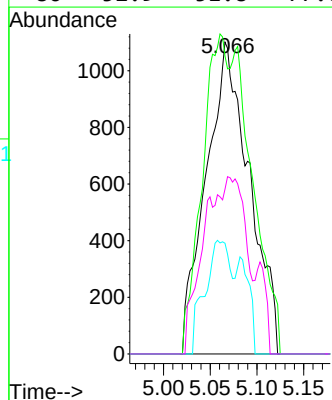
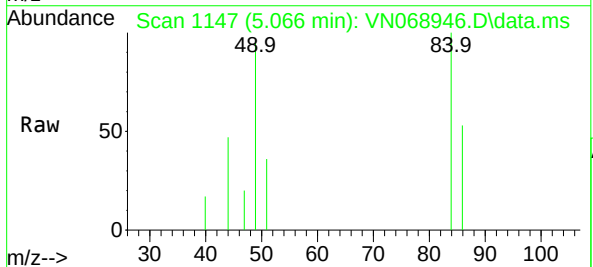
Instrument :
MSVOA_N
ClientSampled :

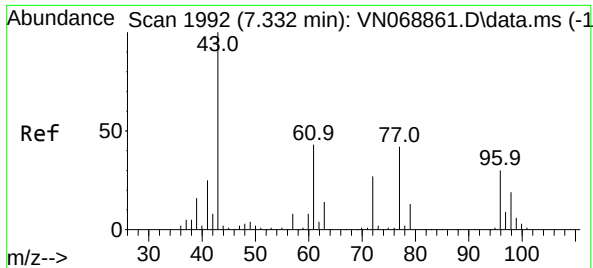
Tgt Ion: 43 Resp: 4727
Ion Ratio Lower Upper
43 100
74 31.9 18.9 28.3#



#20
Methylene Chloride
Concen: 0.992 ug/l
RT: 5.066 min Scan# 1147
Delta R.T. -0.029 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

Tgt Ion: 84 Resp: 3540
Ion Ratio Lower Upper
84 100
49 95.5 97.6 146.4#
51 35.5 30.3 45.5
86 52.9 51.8 77.6

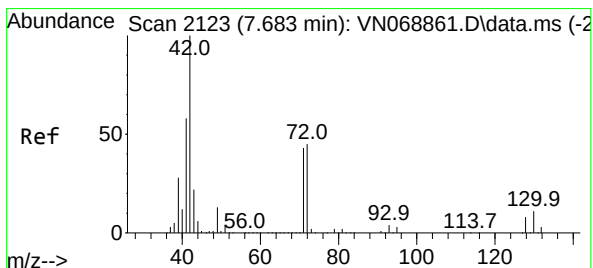
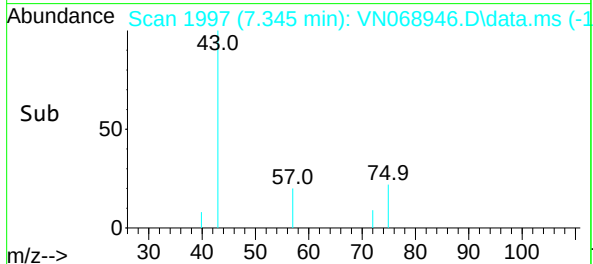
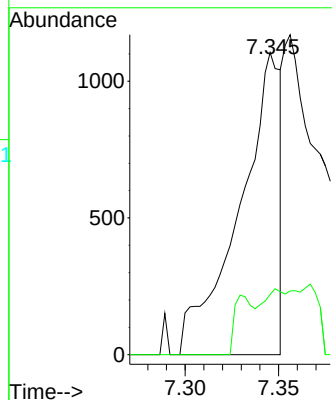
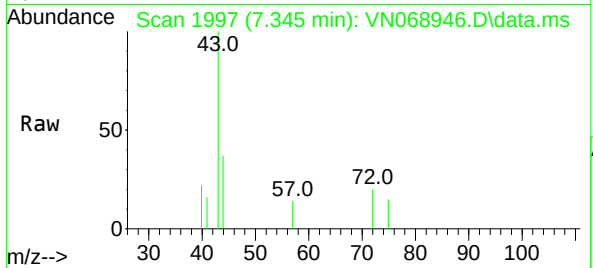




#25
2-Butanone
Concen: 0.718 ug/l
RT: 7.345 min Scan# 1997
Delta R.T. 0.013 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

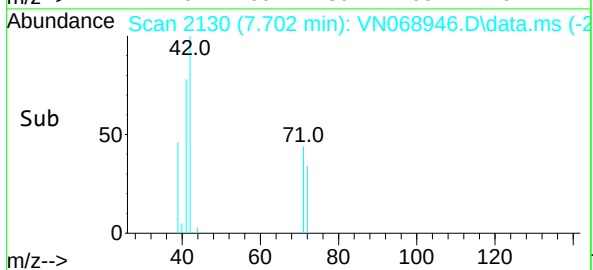
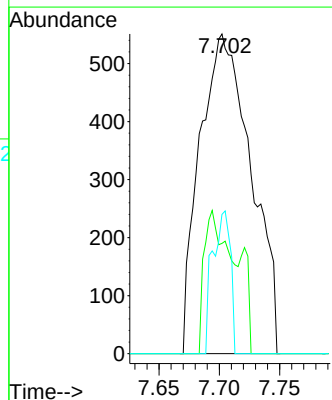
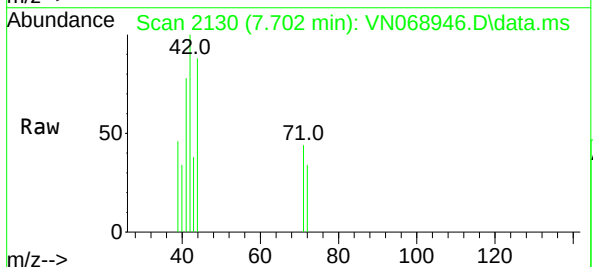
Instrument :
MSVOA_N
ClientSampled :

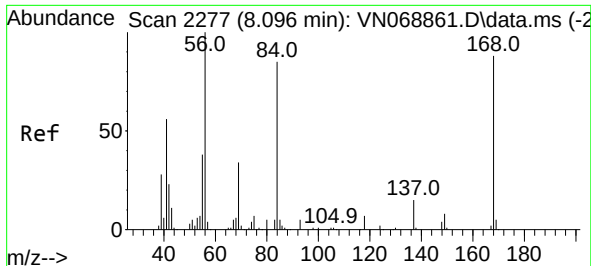
Tgt Ion: 43 Resp: 1683
Ion Ratio Lower Upper
43 100
72 19.9 21.2 31.8#



#29
Tetrahydrofuran
Concen: 1.072 ug/l
RT: 7.702 min Scan# 2130
Delta R.T. 0.019 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

Tgt Ion: 42 Resp: 1630
Ion Ratio Lower Upper
42 100
72 22.3 35.4 53.2#
71 15.5 33.8 50.6#

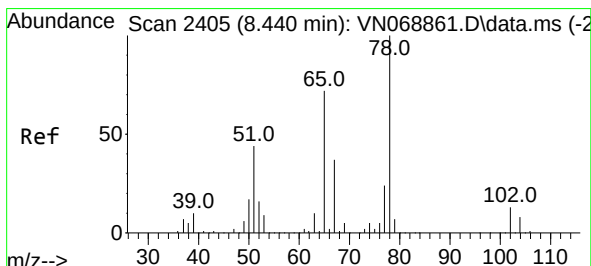
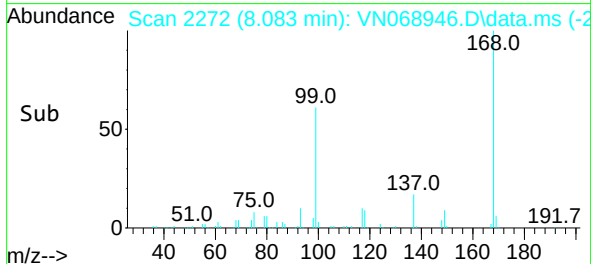
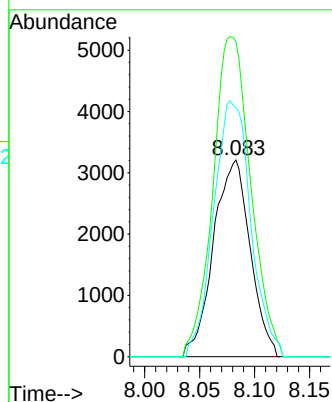
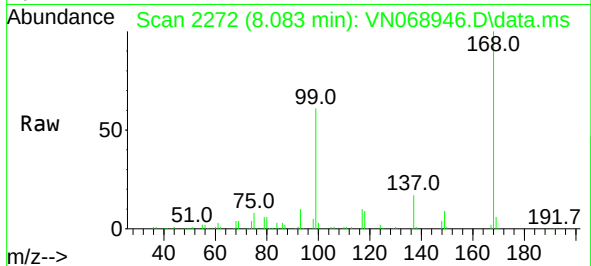




#31
Cyclohexane
Concen: 1.153 ug/l
RT: 8.083 min Scan# 2272
Delta R.T. -0.013 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

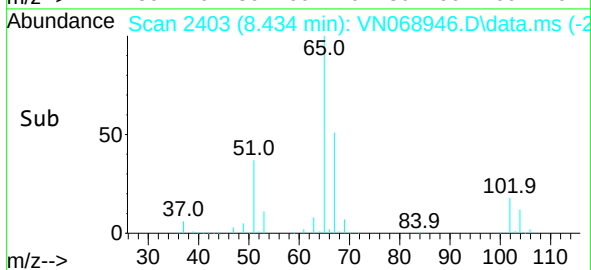
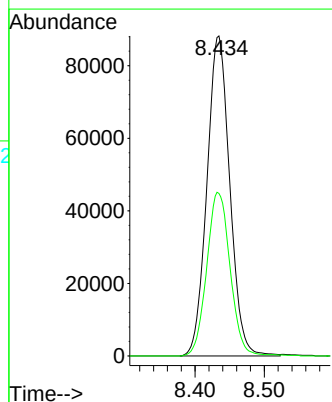
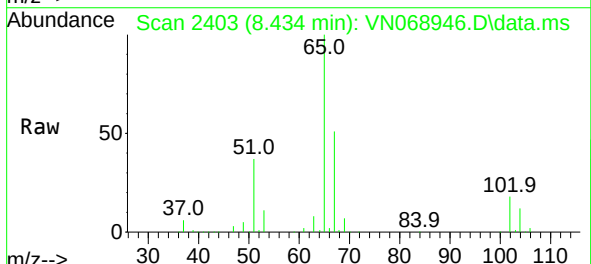
Instrument :
MSVOA_N
ClientSampled :

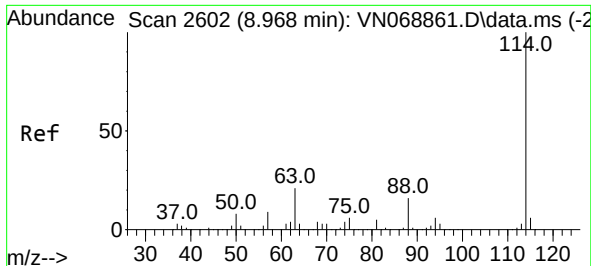
Tgt Ion: 56 Resp: 7446
Ion Ratio Lower Upper
56 100
69 160.3 26.9 40.3#
84 126.7 67.6 101.4#



#33
1,2-Dichloroethane-d4
Concen: 48.758 ug/l
RT: 8.434 min Scan# 2403
Delta R.T. -0.005 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

Tgt Ion: 65 Resp: 202551
Ion Ratio Lower Upper
65 100
67 52.1 0.0 103.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.965 min Scan# 2601

Delta R.T. -0.003 min

Lab File: VN068946.D

Acq: 15 Oct 2021 13:50

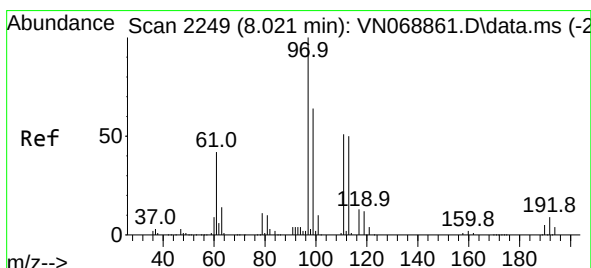
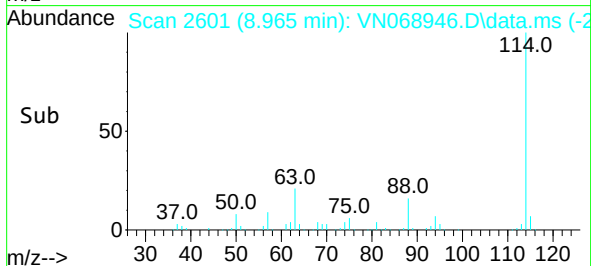
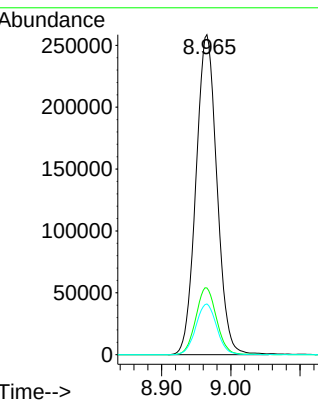
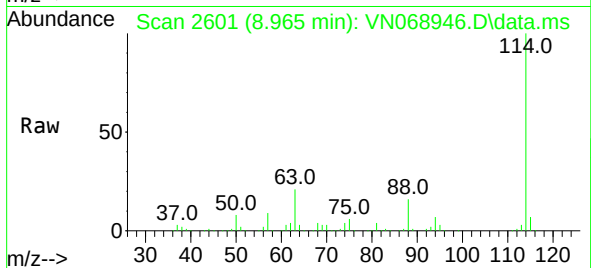
Tgt Ion:114 Resp: 542746

Ion Ratio Lower Upper

114 100

63 20.9 0.0 42.6

88 15.8 0.0 32.0



#35

Dibromofluoromethane

Concen: 50.790 ug/l

RT: 8.019 min Scan# 2248

Delta R.T. -0.003 min

Lab File: VN068946.D

Acq: 15 Oct 2021 13:50

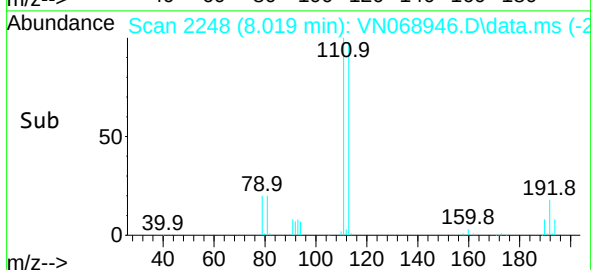
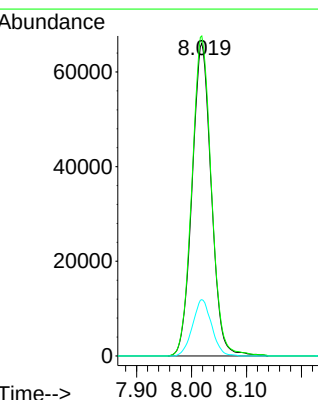
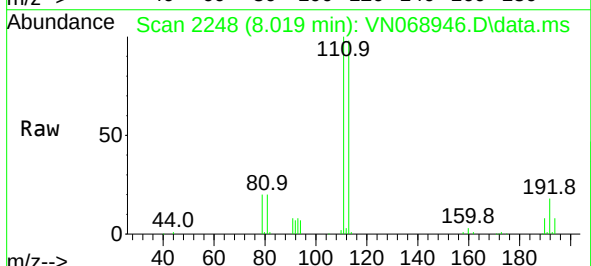
Tgt Ion:113 Resp: 160383

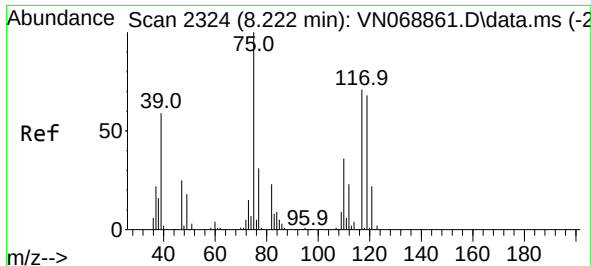
Ion Ratio Lower Upper

113 100

111 103.6 83.2 124.8

192 17.9 15.0 22.4

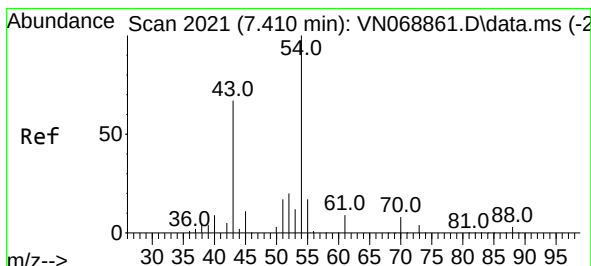
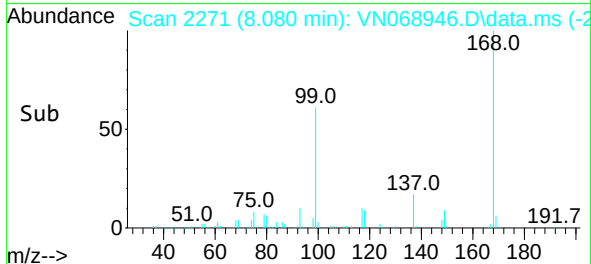
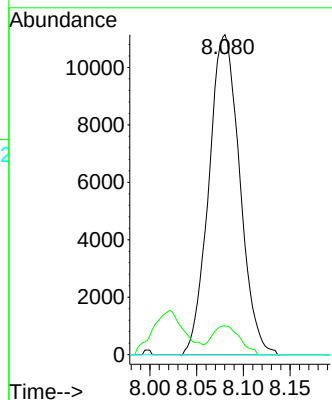
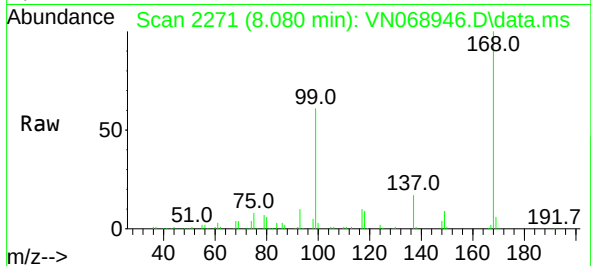




#36
1,1-Dichloropropene
Concen: 5.519 ug/l
RT: 8.080 min Scan# 2271
Delta R.T. -0.142 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

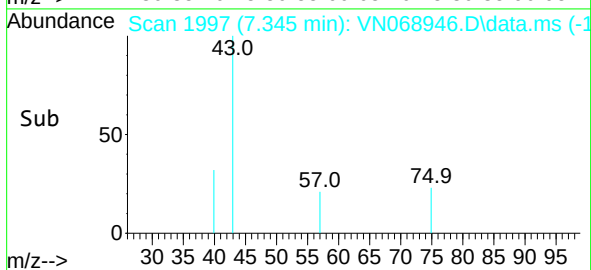
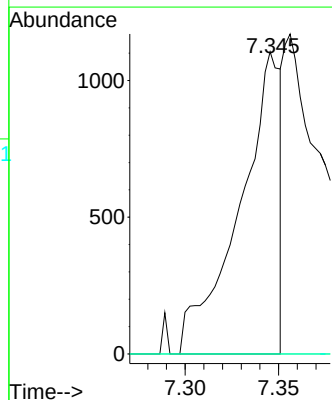
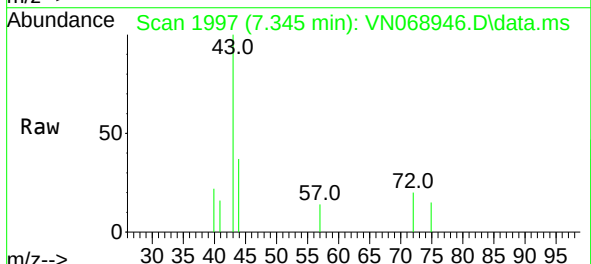
Instrument :
MSVOA_N
ClientSampled :

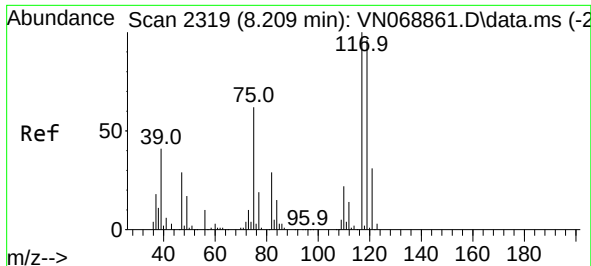
Tgt Ion: 75 Resp: 25585
Ion Ratio Lower Upper
75 100
110 8.3 17.9 53.8#
77 0.0 24.7 37.1#



#37
Ethyl Acetate
Concen: 0.352 ug/l
RT: 7.345 min Scan# 1997
Delta R.T. -0.064 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

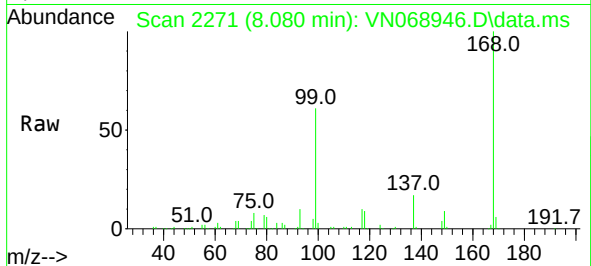
Tgt Ion: 43 Resp: 1683
Ion Ratio Lower Upper
43 100
61 0.0 11.2 16.8#
70 0.0 8.4 12.6#



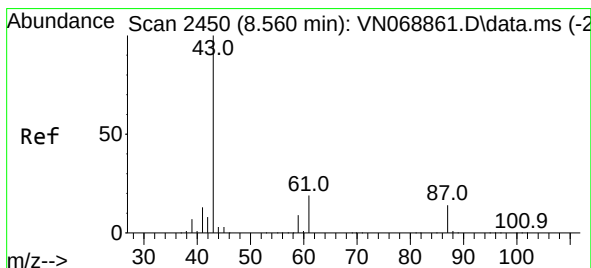
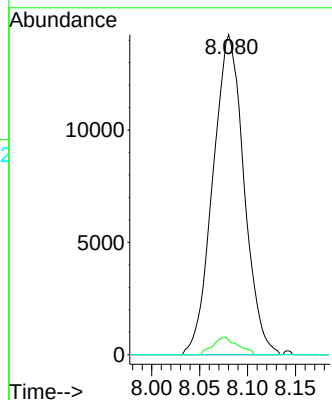
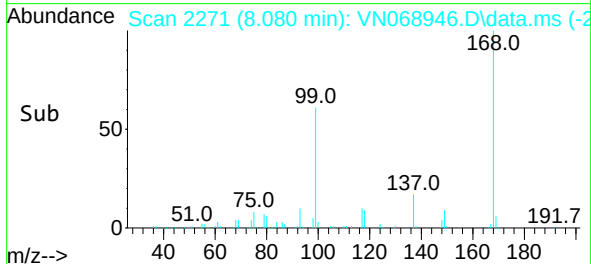


#38
Carbon Tetrachloride
Concen: 6.318 ug/l
RT: 8.080 min Scan# 2271
Delta R.T. -0.129 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

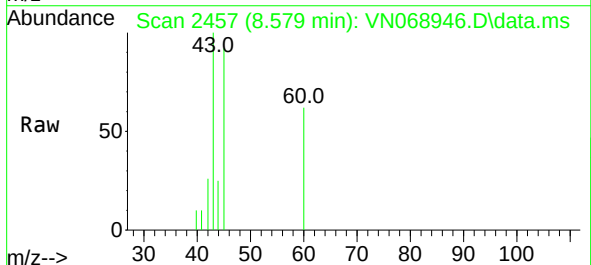
Instrument :
MSVOA_N
ClientSampled :



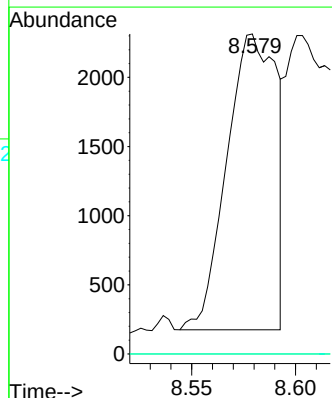
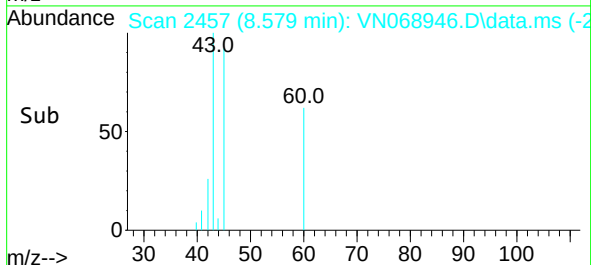
Tgt Ion:117 Resp: 32169
Ion Ratio Lower Upper
117 100
119 4.4 76.9 115.3#
121 0.0 24.6 37.0#

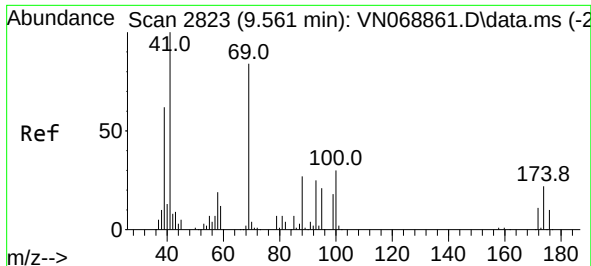


#43
Isopropyl Acetate
Concen: 0.421 ug/l
RT: 8.579 min Scan# 2457
Delta R.T. 0.019 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50



Tgt Ion: 43 Resp: 3559
Ion Ratio Lower Upper
43 100
61 0.0 20.4 30.6#
87 0.0 10.7 16.1#

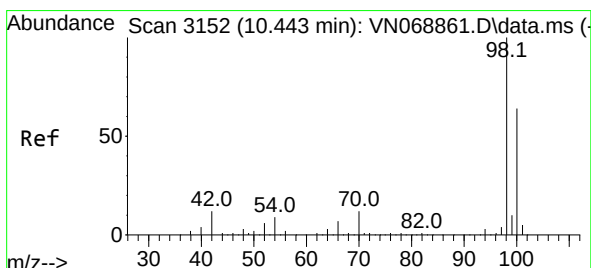
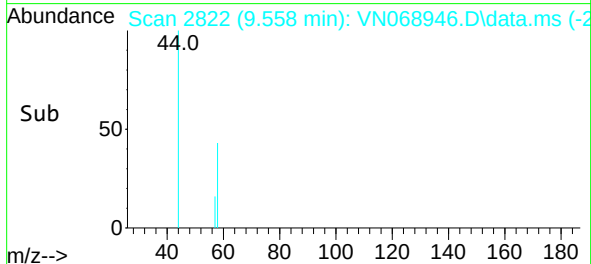
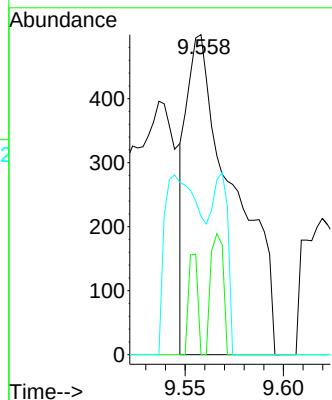
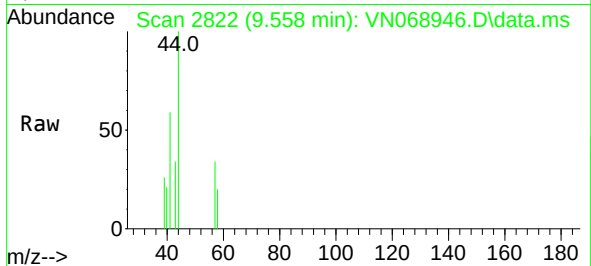




#48
Methyl methacrylate
Concen: 0.210 ug/l
RT: 9.558 min Scan# 2822
Delta R.T. -0.003 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

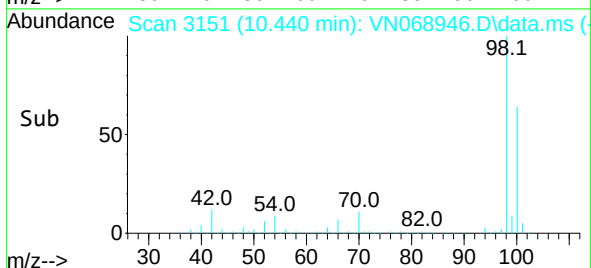
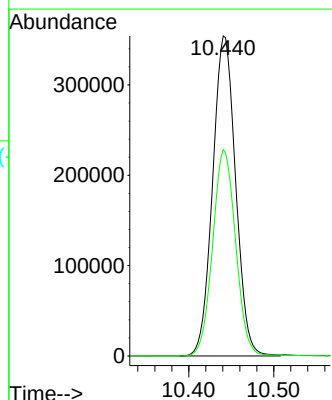
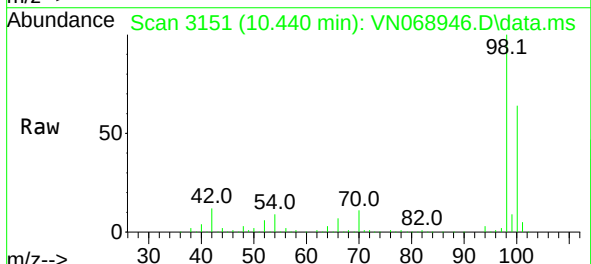
Instrument :
MSVOA_N
ClientSampled :

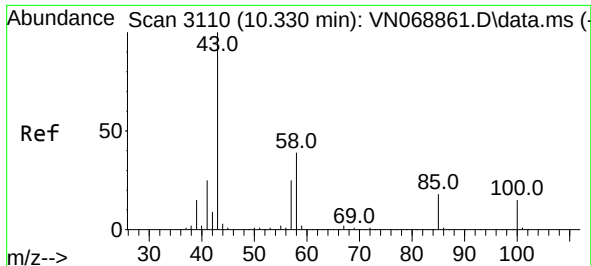
Tgt Ion: 41 Resp: 835
Ion Ratio Lower Upper
41 100
69 6.0 66.4 99.6#
39 0.0 50.2 75.2#



#50
Toluene-d8
Concen: 52.682 ug/l
RT: 10.440 min Scan# 3151
Delta R.T. -0.003 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

Tgt Ion: 98 Resp: 665624
Ion Ratio Lower Upper
98 100
100 64.4 51.5 77.3

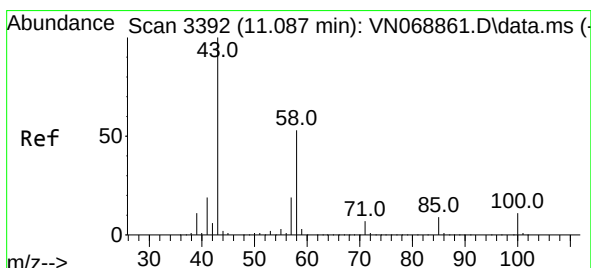
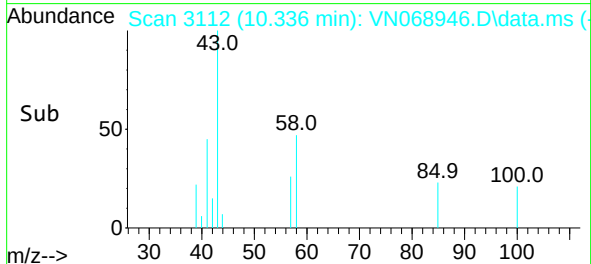
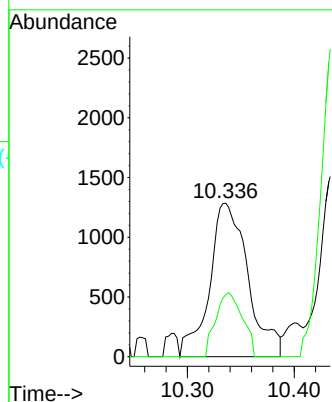
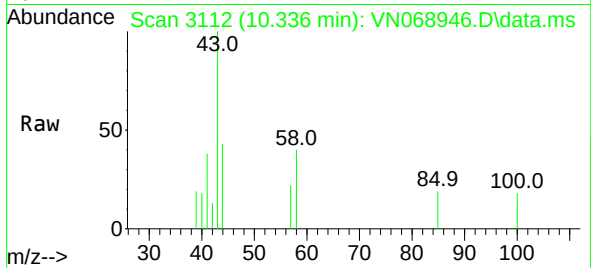




#51
4-Methyl-2-Pentanone
Concen: 0.658 ug/l
RT: 10.336 min Scan# 3112
Delta R.T. 0.005 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

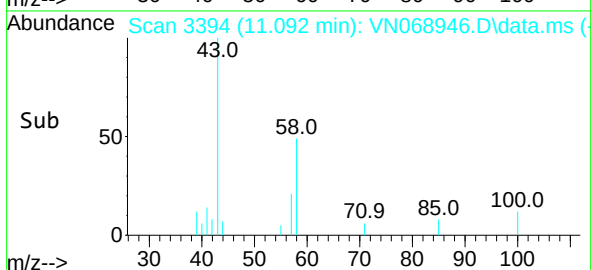
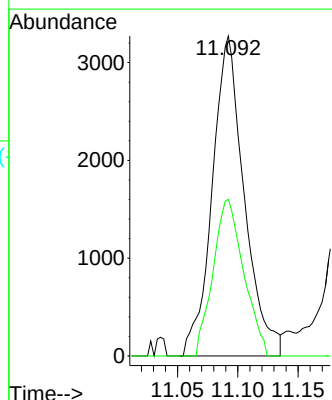
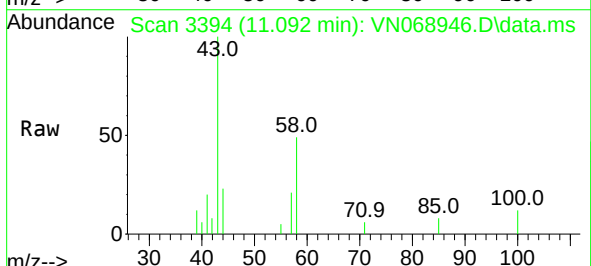
Instrument :
MSVOA_N
ClientSampled :

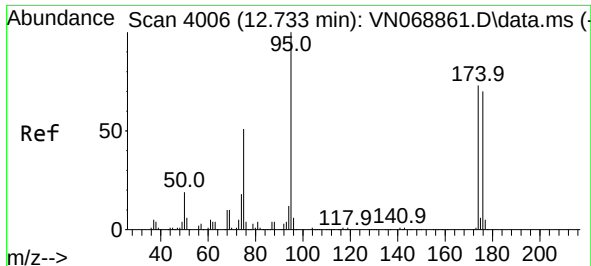
Tgt Ion: 43 Resp: 3222
Ion Ratio Lower Upper
43 100
58 28.9 31.0 46.4#



#59
2-Hexanone
Concen: 1.719 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.005 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

Tgt Ion: 43 Resp: 6038
Ion Ratio Lower Upper
43 100
58 46.7 26.9 80.7

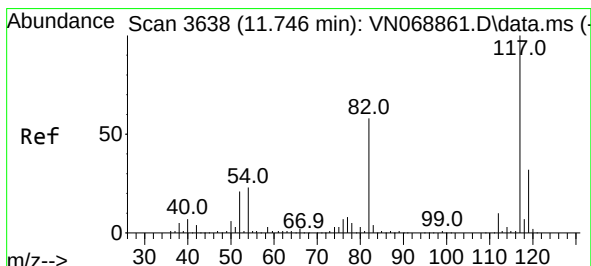
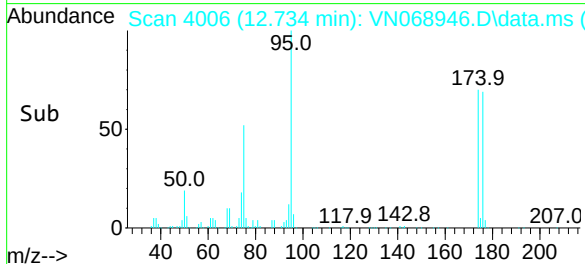
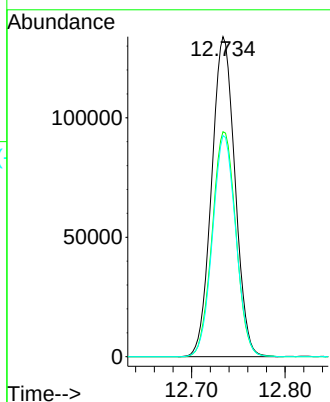
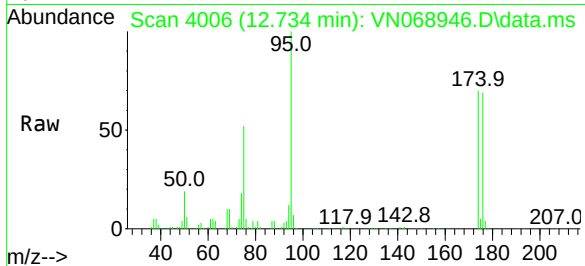




#62
4-Bromofluorobenzene
Concen: 48.724 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.000 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

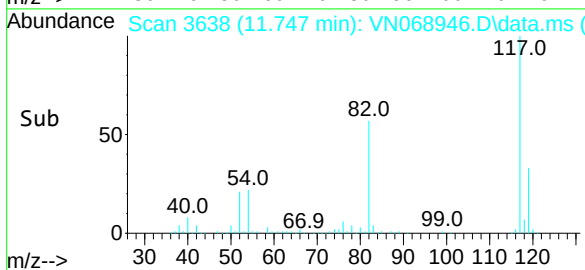
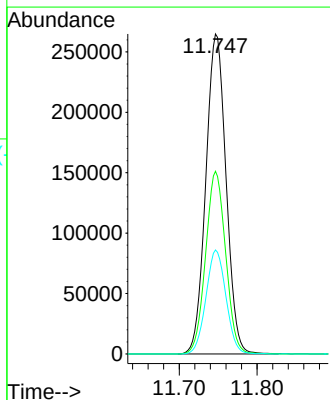
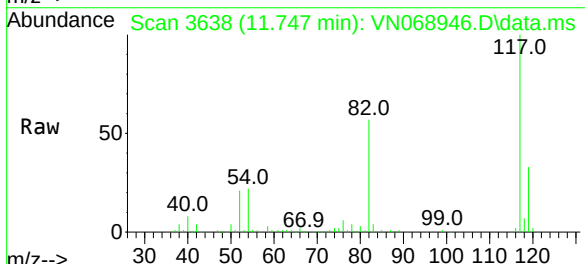
Instrument :
MSVOA_N
ClientSampled :

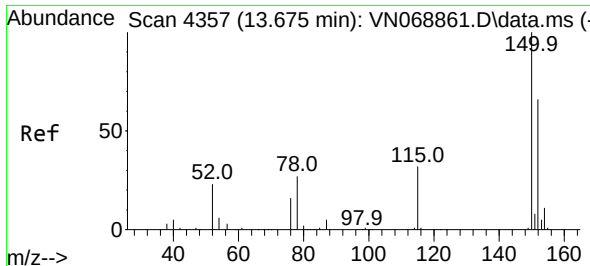
Tgt Ion: 95 Resp: 232261
Ion Ratio Lower Upper
95 100
174 71.3 0.0 144.8
176 69.2 0.0 140.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

Tgt Ion: 117 Resp: 478851
Ion Ratio Lower Upper
117 100
82 57.1 46.4 69.6
119 32.5 26.0 39.0

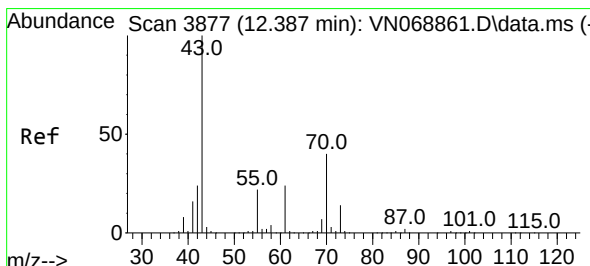
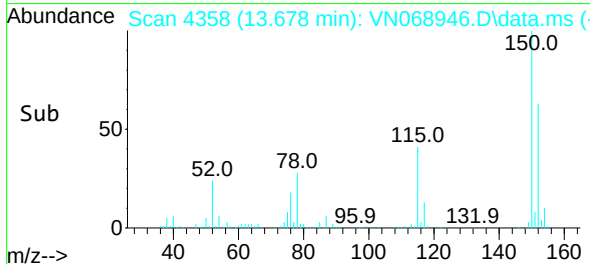
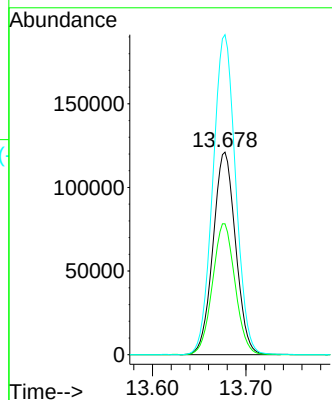
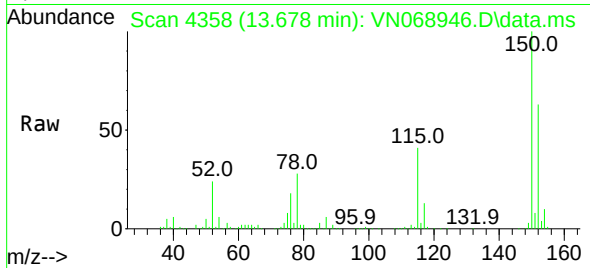




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. 0.003 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

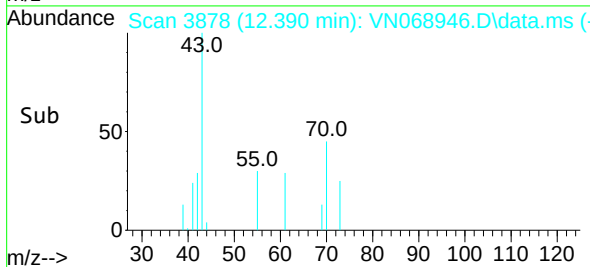
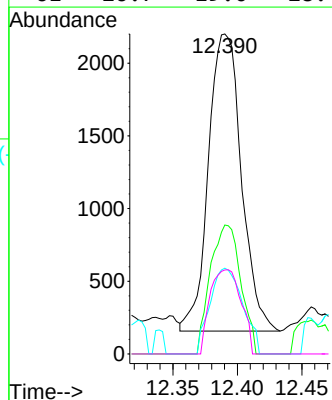
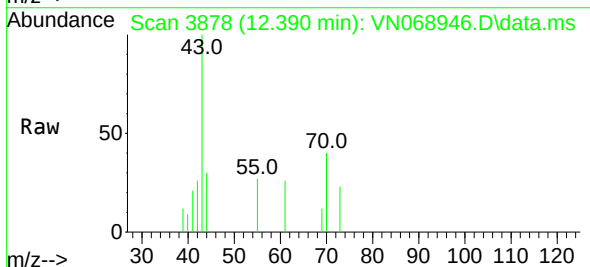
Instrument :
MSVOA_N
ClientSampled :

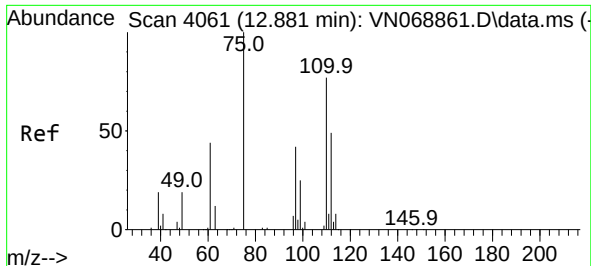
Tgt Ion:152 Resp: 203594
Ion Ratio Lower Upper
152 100
115 64.7 31.4 94.3
150 159.5 0.0 351.0



#74
N-ethyl acetate
Concen: 0.566 ug/l
RT: 12.390 min Scan# 3878
Delta R.T. 0.003 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

Tgt Ion: 43 Resp: 3636
Ion Ratio Lower Upper
43 100
70 40.0 32.2 48.2
55 28.7 18.0 27.0#
61 26.7 19.0 28.4

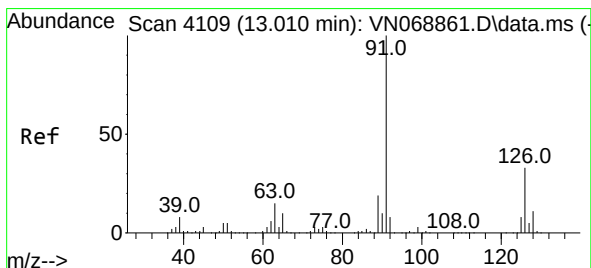
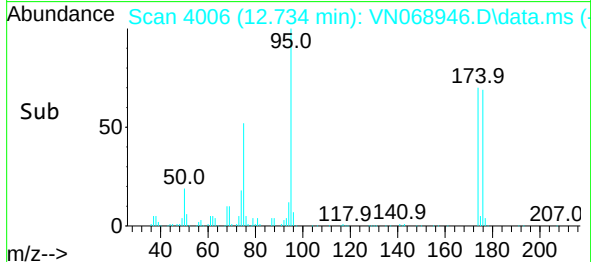
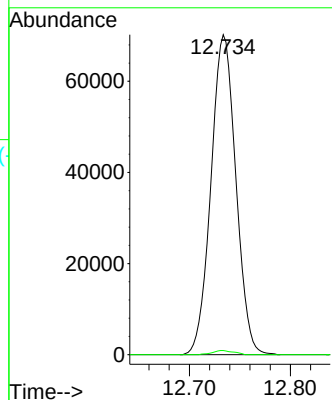
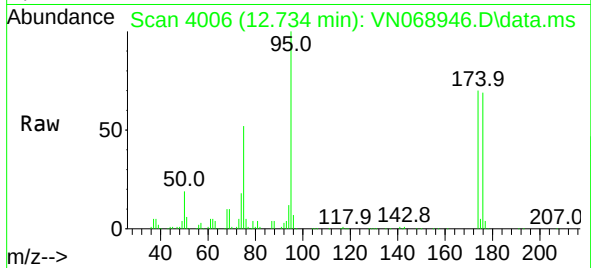




#76
1,2,3-Trichloropropane
Concen: 27.742 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.147 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

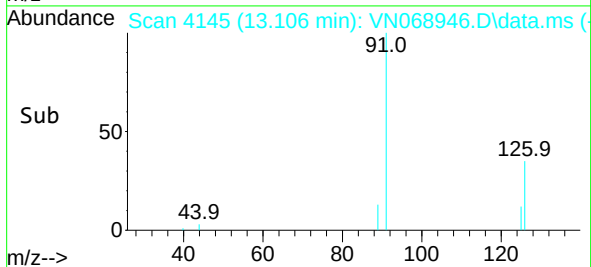
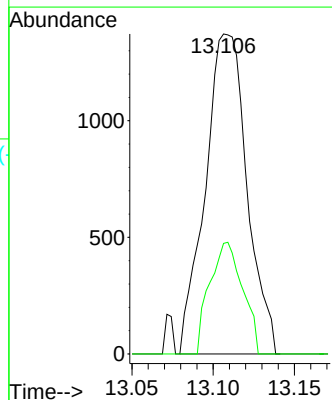
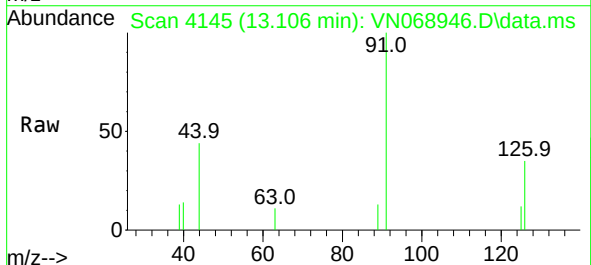
Instrument :
MSVOA_N
ClientSampled :

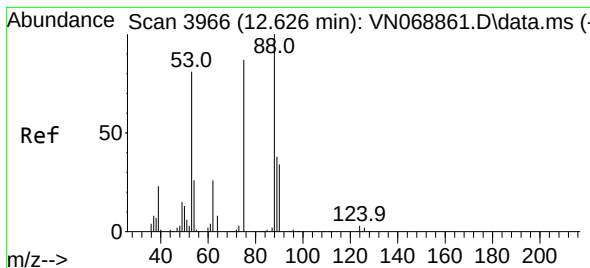
Tgt Ion: 75 Resp: 120177
Ion Ratio Lower Upper
75 100
77 1.1 96.2 288.4#



#79
2-Chlorotoluene
Concen: 0.209 ug/l
RT: 13.106 min Scan# 4145
Delta R.T. 0.097 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

Tgt Ion: 91 Resp: 2457
Ion Ratio Lower Upper
91 100
126 27.5 16.4 49.4

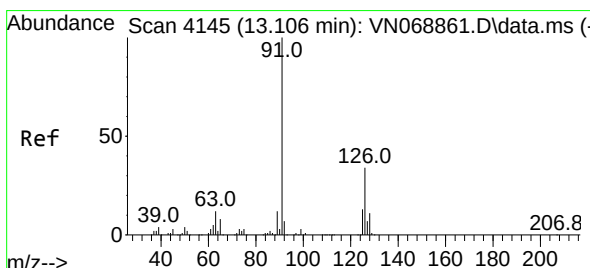
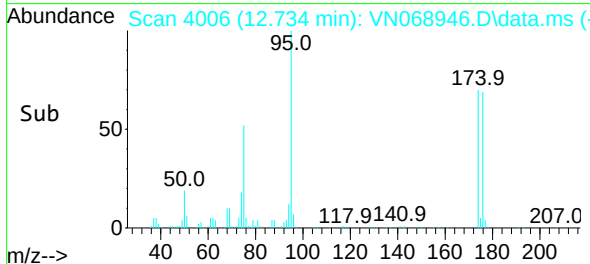
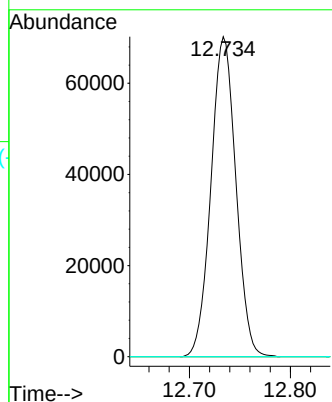
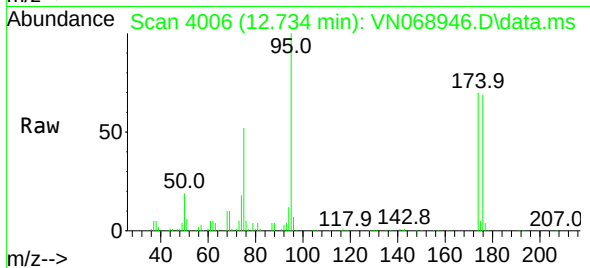




#81
trans-1,4-Dichloro-2-butene
Concen: 66.372 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.107 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

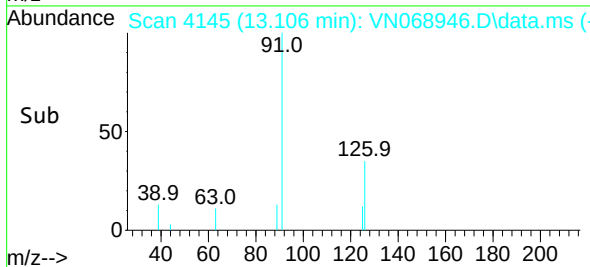
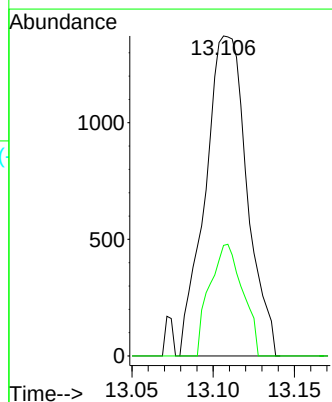
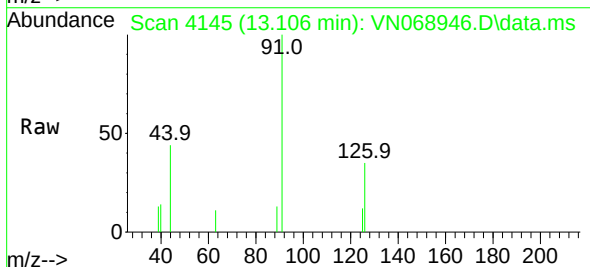
Instrument :
MSVOA_N
ClientSampled :

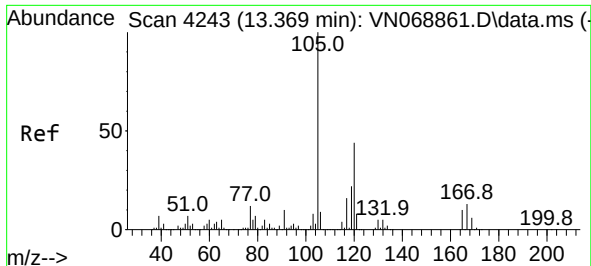
Tgt Ion: 75 Resp: 120177
Ion Ratio Lower Upper
75 100
53 0.0 75.4 113.2#
89 0.0 36.9 55.3#



#82
4-Chlorotoluene
Concen: 0.217 ug/l
RT: 13.106 min Scan# 4145
Delta R.T. 0.000 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

Tgt Ion: 91 Resp: 2457
Ion Ratio Lower Upper
91 100
126 27.5 16.3 48.8

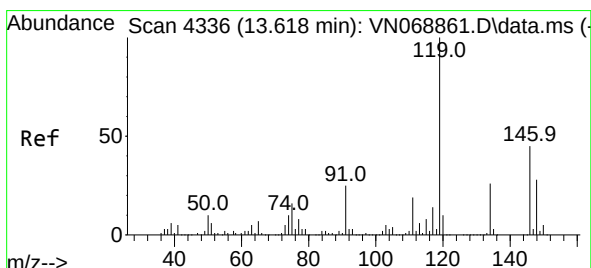
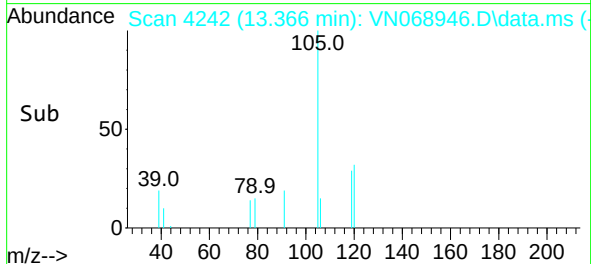
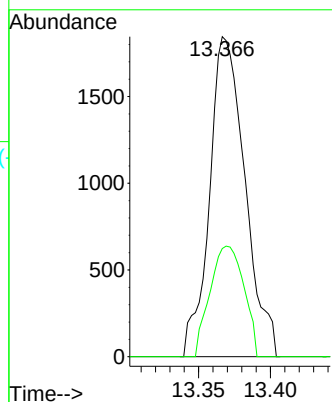
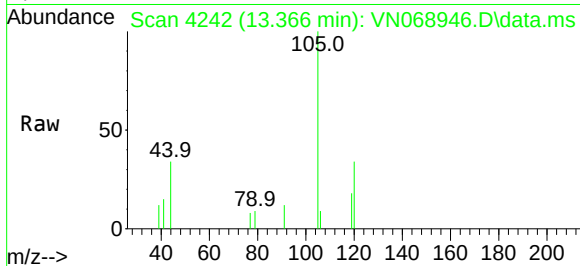




#84
1,2,4-Trimethylbenzene
Concen: 0.233 ug/l
RT: 13.366 min Scan# 4242
Delta R.T. -0.003 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

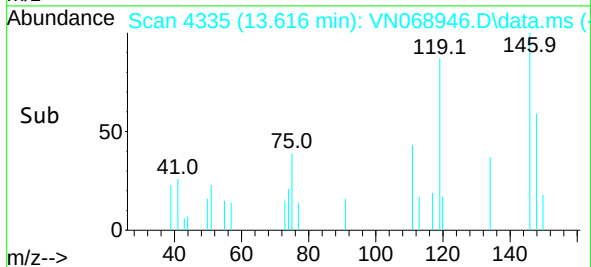
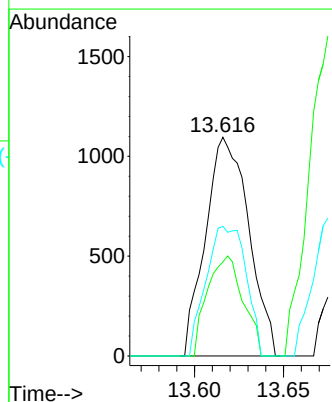
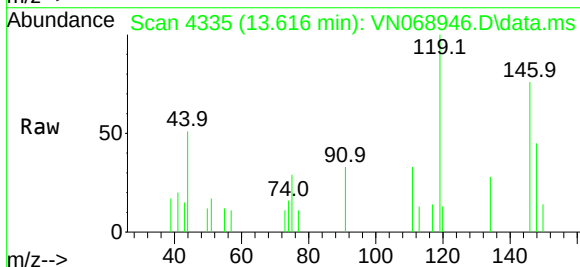
Instrument :
MSVOA_N
ClientSampled :

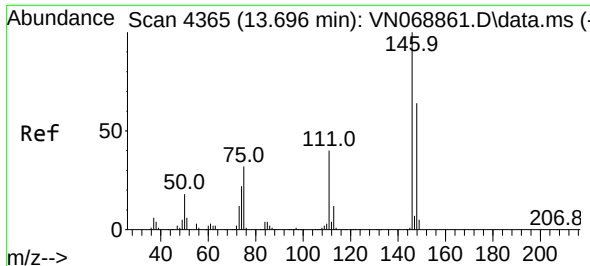
Tgt Ion:105 Resp: 3164
Ion Ratio Lower Upper
105 100
120 32.9 21.9 65.5



#87
1,3-Dichlorobenzene
Concen: 0.285 ug/l
RT: 13.616 min Scan# 4335
Delta R.T. -0.003 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

Tgt Ion:146 Resp: 1848
Ion Ratio Lower Upper
146 100
111 37.8 21.4 64.2
148 54.6 32.0 96.2

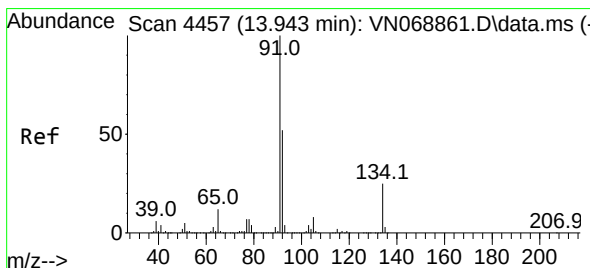
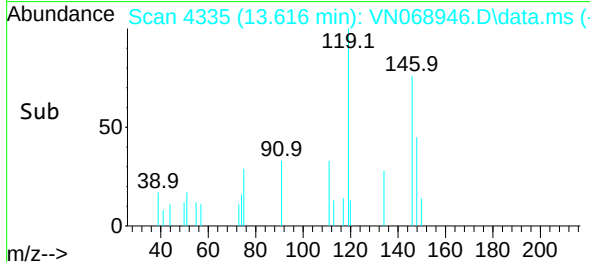
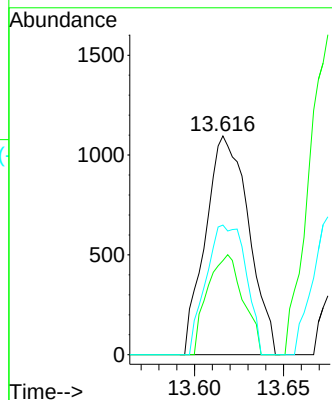
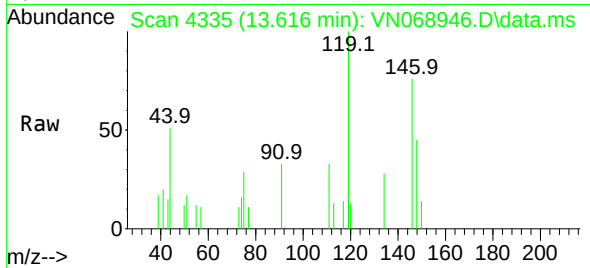




#88
1,4-Dichlorobenzene
Concen: 0.287 ug/l
RT: 13.616 min Scan# 4335
Delta R.T. -0.080 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

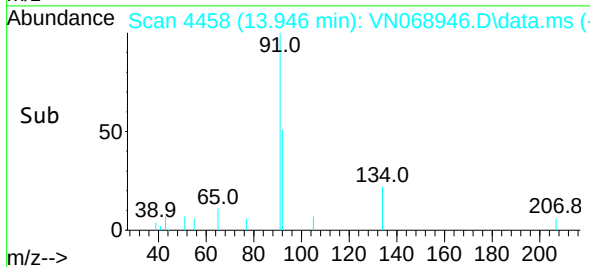
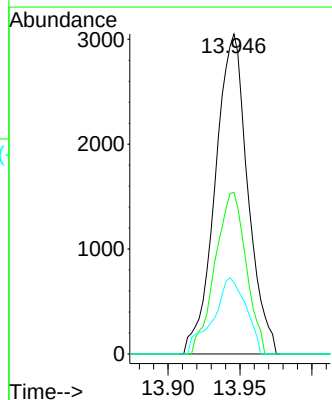
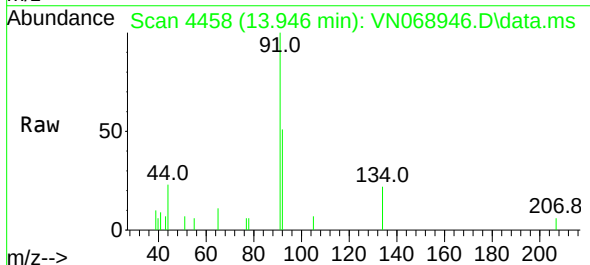
Instrument :
MSVOA_N
ClientSampled :

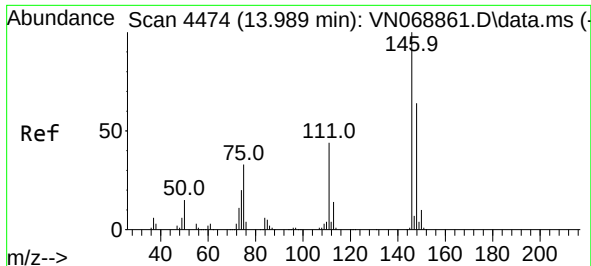
Tgt Ion:146 Resp: 1848
Ion Ratio Lower Upper
146 100
111 37.8 20.6 61.8
148 54.6 32.1 96.5



#89
n-Butylbenzene
Concen: 0.422 ug/l
RT: 13.946 min Scan# 4458
Delta R.T. 0.003 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

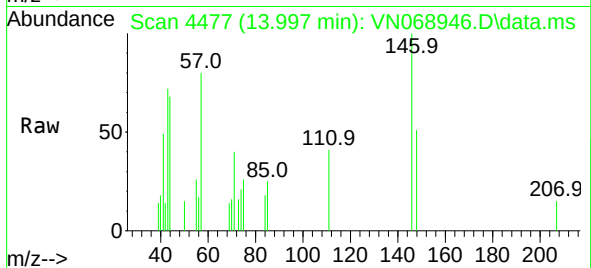
Tgt Ion: 91 Resp: 4796
Ion Ratio Lower Upper
91 100
92 48.0 26.0 78.0
134 24.1 12.5 37.5



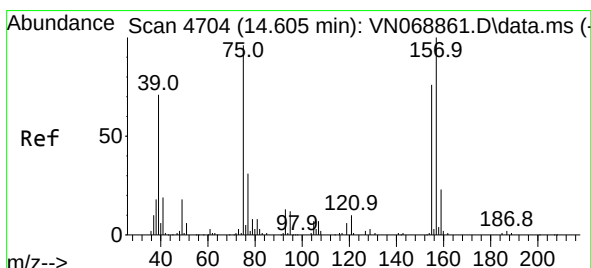
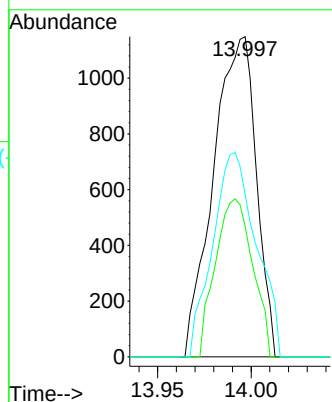
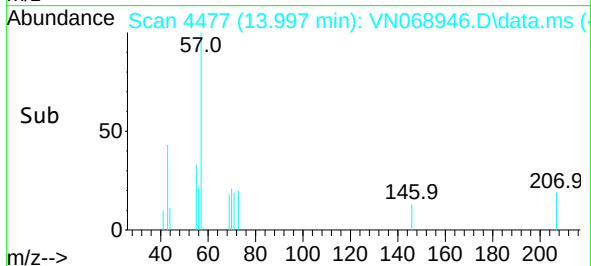


#91
1,2-Dichlorobenzene
Concen: 0.290 ug/l
RT: 13.997 min Scan# 4477
Delta R.T. 0.008 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

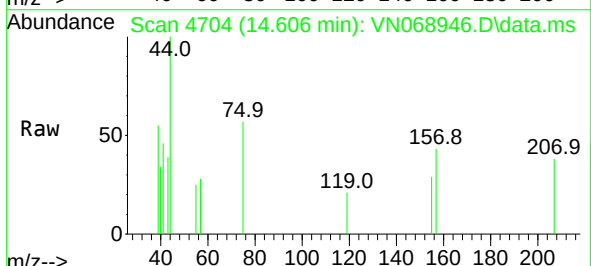
Instrument :
MSVOA_N
ClientSampled :



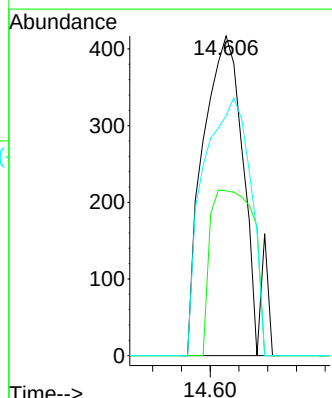
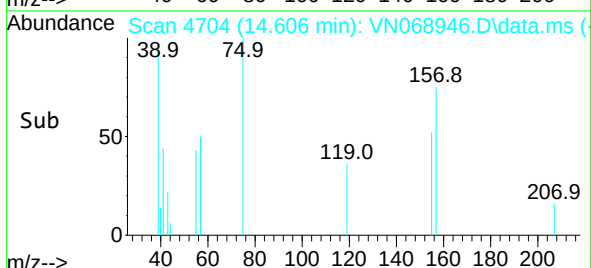
Tgt Ion:146 Resp: 1828
Ion Ratio Lower Upper
146 100
111 42.9 22.0 66.0
148 65.1 32.1 96.5

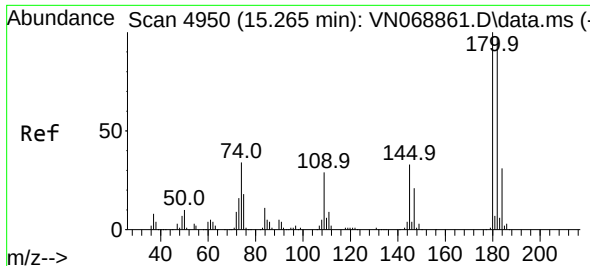


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.445 ug/l
RT: 14.606 min Scan# 4704
Delta R.T. 0.000 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50



Tgt Ion: 75 Resp: 420
Ion Ratio Lower Upper
75 100
155 53.8 38.8 116.4
157 91.2 50.2 150.6

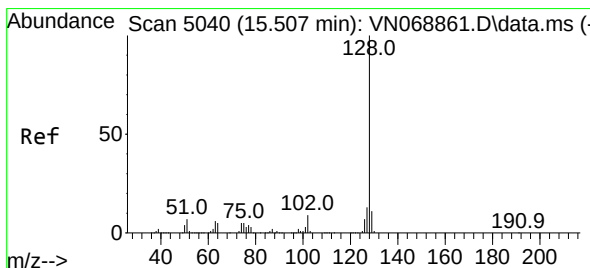
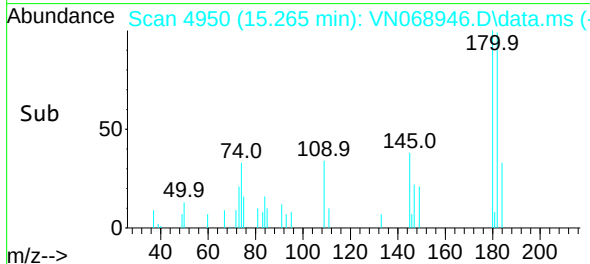
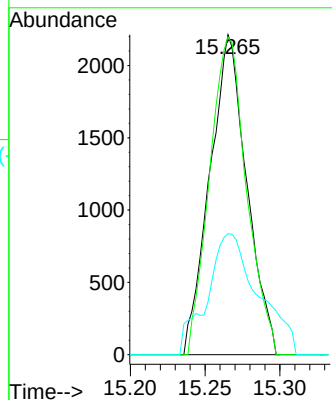
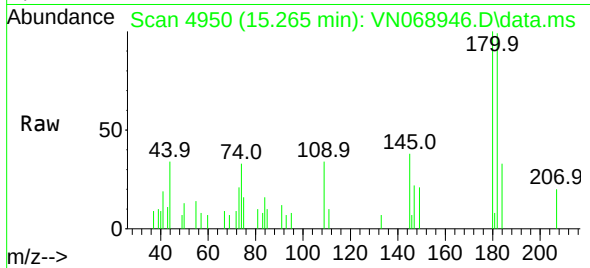




#93
1,2,4-Trichlorobenzene
Concen: 3.659 ug/l
RT: 15.265 min Scan# 4950
Delta R.T. 0.000 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

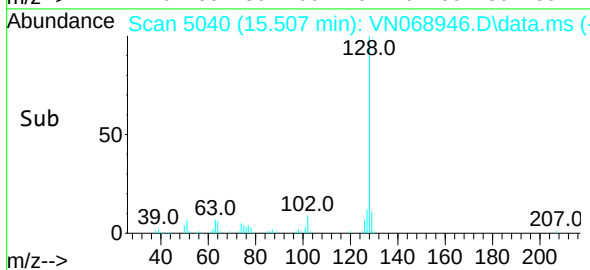
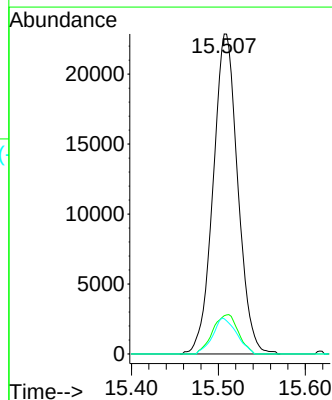
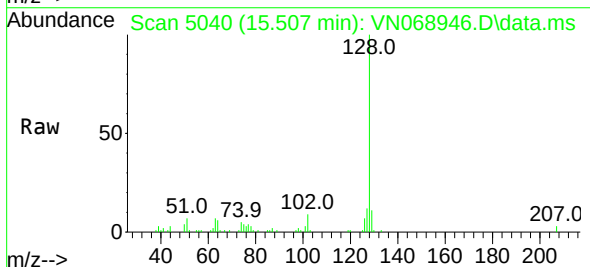
Instrument :
MSVOA_N
ClientSampled :

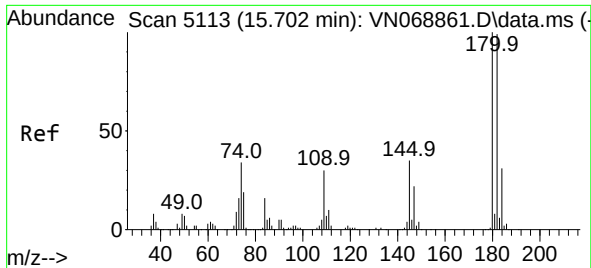
Tgt Ion:180 Resp: 3813
Ion Ratio Lower Upper
180 100
182 99.1 47.9 143.7
145 52.5 16.4 49.2#



#95
Naphthalene
Concen: 8.217 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. -0.000 min
Lab File: VN068946.D
Acq: 15 Oct 2021 13:50

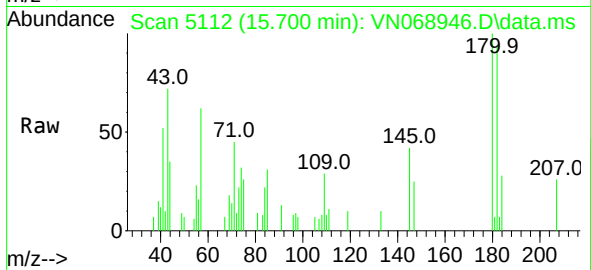
Tgt Ion:128 Resp: 45057
Ion Ratio Lower Upper
128 100
127 12.7 10.5 15.7
129 10.8 8.9 13.3





#96
 1,2,3-Trichlorobenzene
 Concen: 3.877 ug/l
 RT: 15.700 min Scan# 5112
 Delta R.T. -0.002 min
 Lab File: VN068946.D
 Acq: 15 Oct 2021 13:50

Instrument :
 MSVOA_N
 ClientSampled :



Tgt Ion:	180	Resp:	4672
Ion	Ratio	Lower	Upper
180	100		
182	100.1	48.1	144.3
145	45.5	17.4	52.2

