

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102721\
 Data File : VN069225.D
 Acq On : 27 Oct 2021 18:03
 Operator : JC/MD
 Sample : M4338-06
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 28 05:22:24 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)

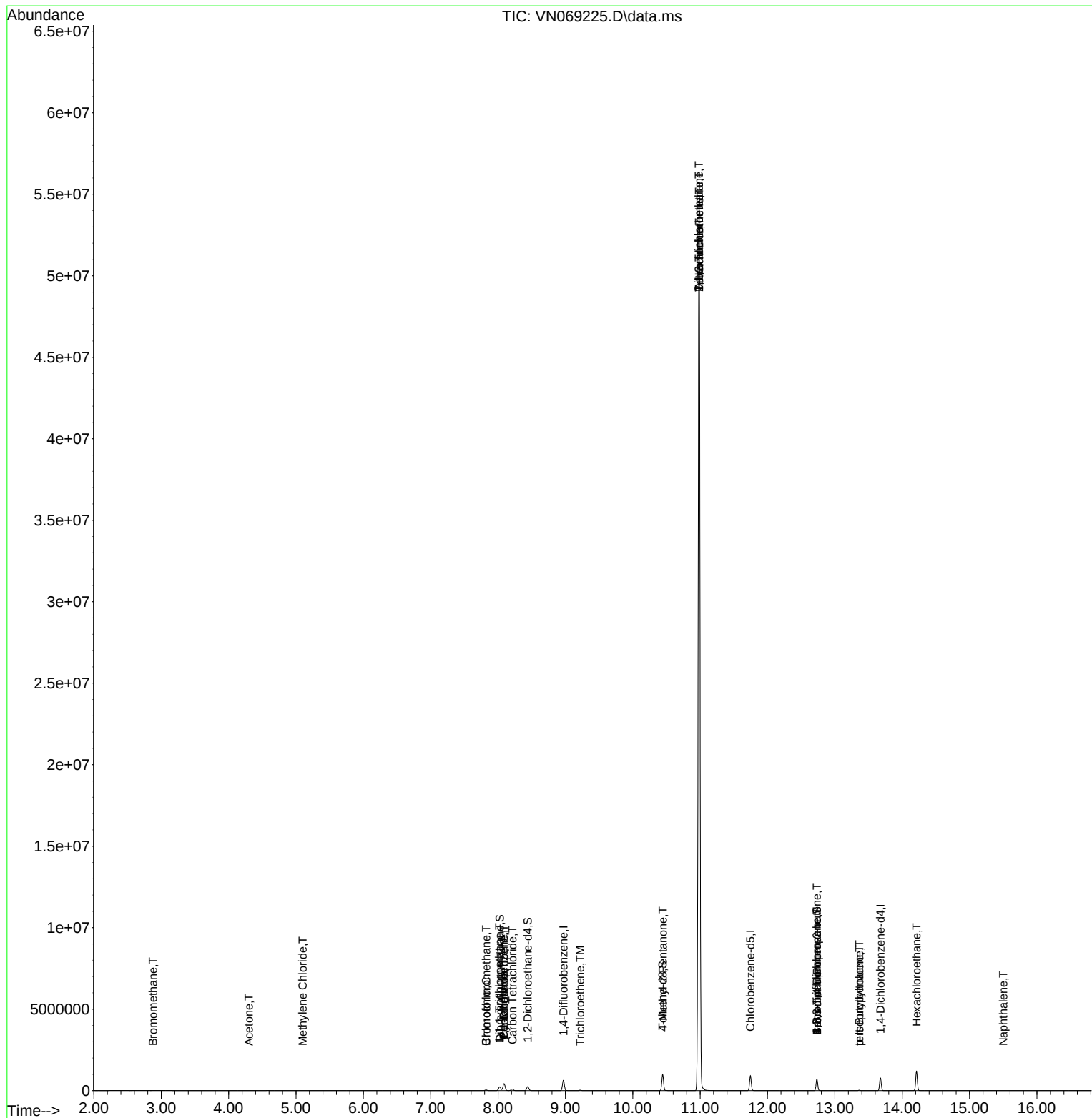
Internal Standards						
1) Pentafluorobenzene	8.088	168	323229	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	571829	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	543691	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	212207	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	215178	50.492	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	= 100.980%	
35) Dibromofluoromethane	8.027	113	165524	49.752	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	= 99.500%	
50) Toluene-d8	10.443	98	709493	53.299	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	= 106.600%	
62) 4-Bromofluorobenzene	12.734	95	258908	51.551	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	= 103.100%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.877	94	537	0.243	ug/l	88
16) Acetone	4.299	43	1133	0.712	ug/l	97
20) Methylene Chloride	5.098	84	888	0.243	ug/l #	49
28) Bromochloromethane	7.823	49	3134	1.094	ug/l #	14
30) Chloroform	7.823	83	40515	6.077	ug/l	96
31) Cyclohexane	8.088	56	7510	1.133	ug/l #	2
32) 1,1,1-Trichloroethane	8.019	97	8769	1.411	ug/l #	50
36) 1,1-Dichloropropene	8.086	75	26225	5.369	ug/l #	50
38) Carbon Tetrachloride	8.212	117	70222	13.091	ug/l	98
44) Trichloroethene	9.218	130	11173	3.002	ug/l	95
51) 4-Methyl-2-Pentanone	10.449	43	3169	0.614	ug/l #	1
55) 1,1,2-Trichloroethane	10.982	97	122446	32.456	ug/l #	2
59) 2-Hexanone	10.985	43	1632	0.441	ug/l #	1
60) Dibromochloromethane	10.982	129	12969150	3045.525	ug/l #	10
64) Tetrachloroethene	10.985	164	12605408	3599.083	ug/l	96
71) Bromoform	12.736	173	1097	0.340	ug/l #	1
76) 1,2,3-Trichloropropane	12.734	75	137144	30.374	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.734	75	137144	72.668	ug/l #	12
83) tert-Butylbenzene	13.364	119	4643	0.363	ug/l #	37
86) p-Isopropyltoluene	13.364	119	4643	0.326	ug/l #	73
90) Hexachloroethane	14.211	117	232138	77.677	ug/l	99
95) Naphthalene	15.501	128	180	3.829	ug/l #	69

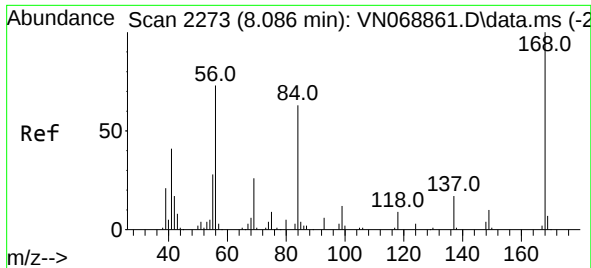
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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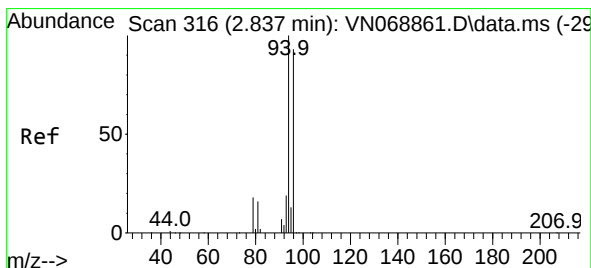
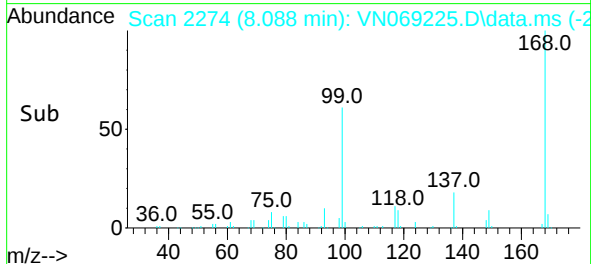
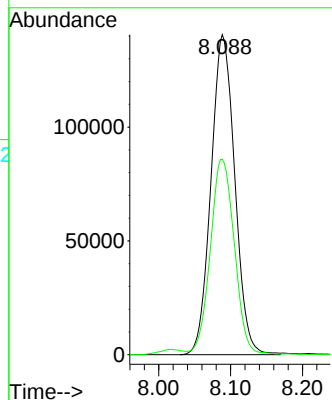
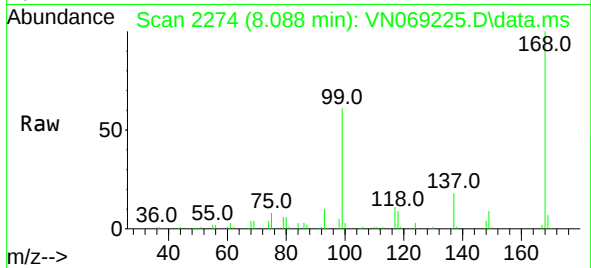




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. 0.002 min
Lab File: VN069225.D
Acq: 27 Oct 2021 18:03

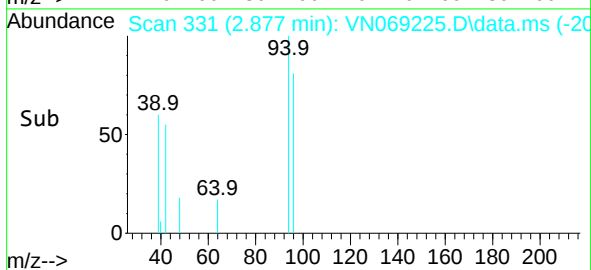
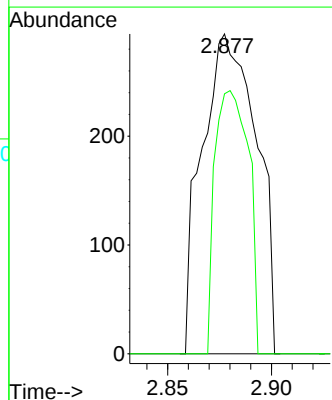
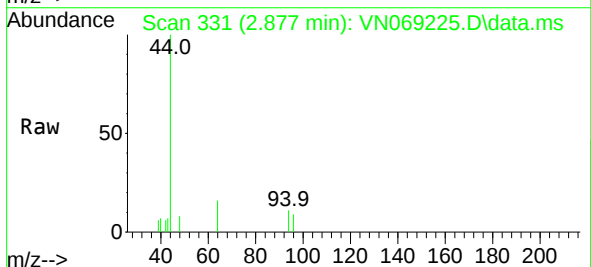
Instrument :
MSVOA_N
ClientSampled :

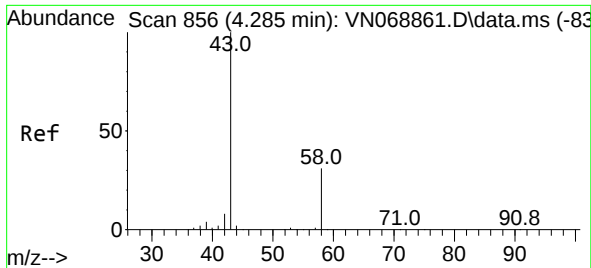
Tgt Ion:168 Resp: 323229
Ion Ratio Lower Upper
168 100
99 60.9 48.9 73.3



#5
Bromomethane
Concen: 0.243 ug/l
RT: 2.877 min Scan# 331
Delta R.T. 0.040 min
Lab File: VN069225.D
Acq: 27 Oct 2021 18:03

Tgt Ion: 94 Resp: 537
Ion Ratio Lower Upper
94 100
96 81.3 74.2 111.4

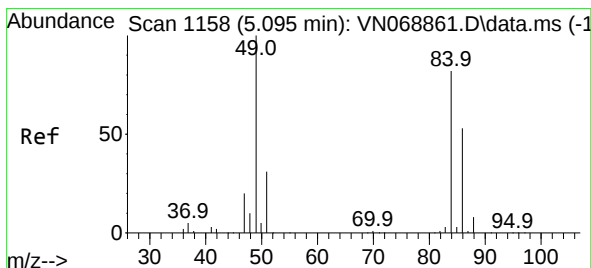
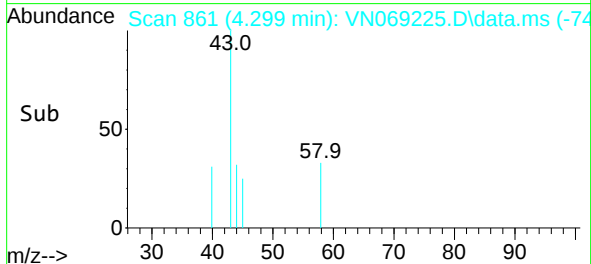
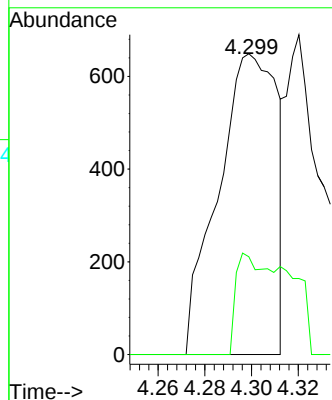
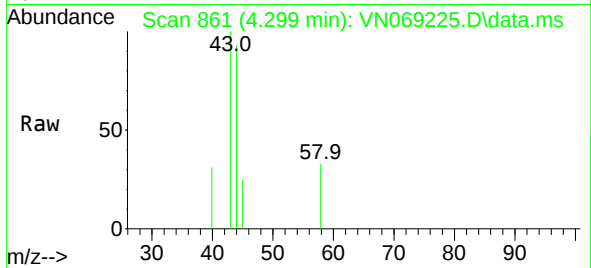




#16
Acetone
Concen: 0.712 ug/l
RT: 4.299 min Scan# 861
Delta R.T. 0.014 min
Lab File: VN069225.D
Acq: 27 Oct 2021 18:03

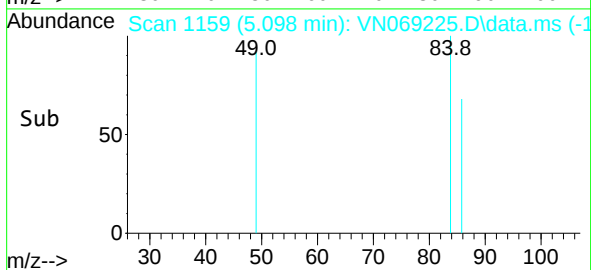
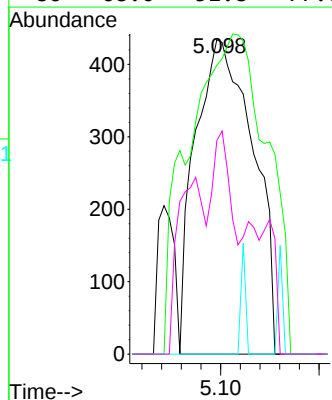
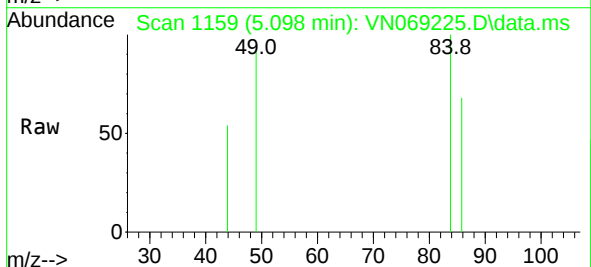
Instrument :
MSVOA_N
ClientSampleId :

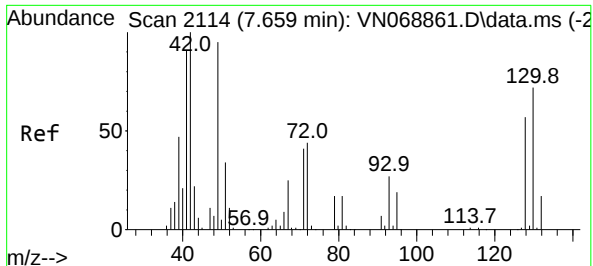
Tgt Ion: 43 Resp: 1133
Ion Ratio Lower Upper
43 100
58 32.5 24.5 36.7



#20
Methylene Chloride
Concen: 0.243 ug/l
RT: 5.098 min Scan# 1159
Delta R.T. 0.003 min
Lab File: VN069225.D
Acq: 27 Oct 2021 18:03

Tgt Ion: 84 Resp: 888
Ion Ratio Lower Upper
84 100
49 40.8 97.6 146.4#
51 0.0 30.3 45.5#
86 68.0 51.8 77.6

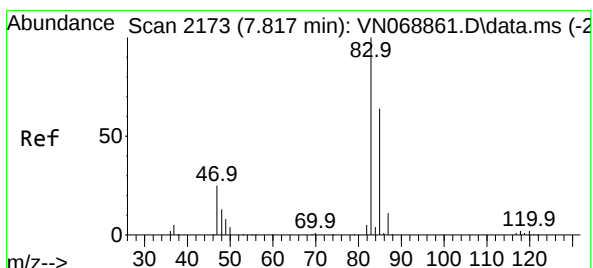
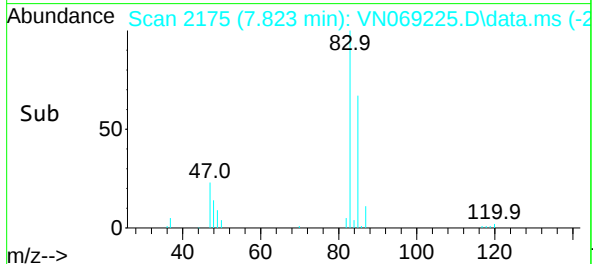
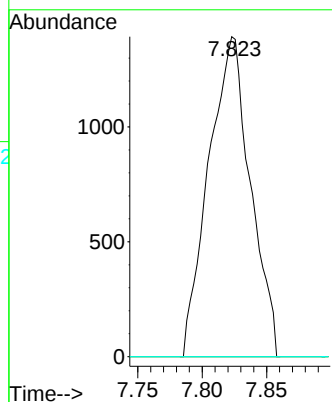
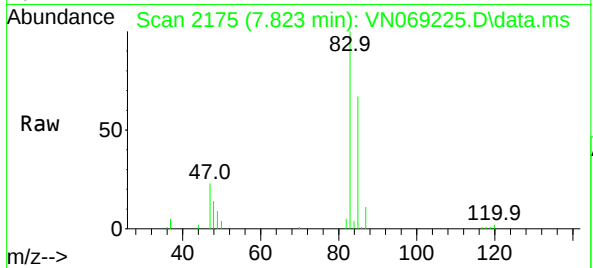




#28
Bromochloromethane
Concen: 1.094 ug/l
RT: 7.823 min Scan# 2175
Delta R.T. 0.164 min
Lab File: VN069225.D
Acq: 27 Oct 2021 18:03

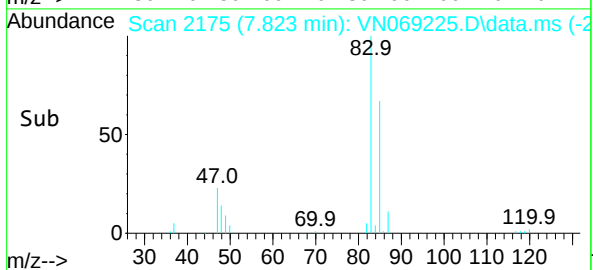
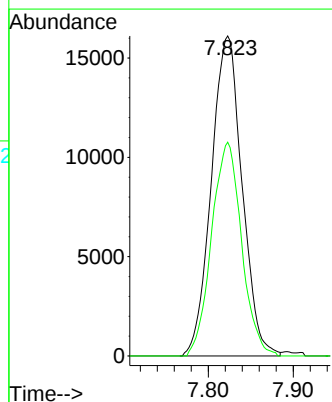
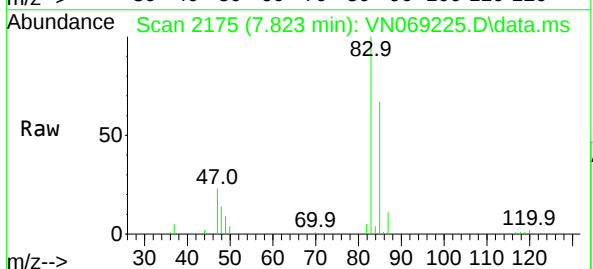
Instrument :
MSVOA_N
ClientSampled :

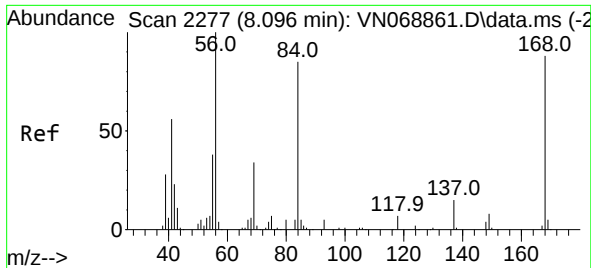
Tgt Ion: 49 Resp: 3134
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.4
130 0.0 60.8 91.2#



#30
Chloroform
Concen: 6.077 ug/l
RT: 7.823 min Scan# 2175
Delta R.T. 0.006 min
Lab File: VN069225.D
Acq: 27 Oct 2021 18:03

Tgt Ion: 83 Resp: 40515
Ion Ratio Lower Upper
83 100
85 66.8 51.1 76.7

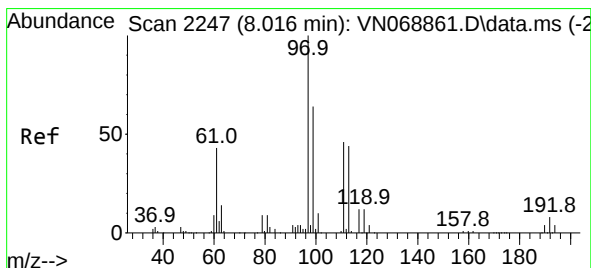
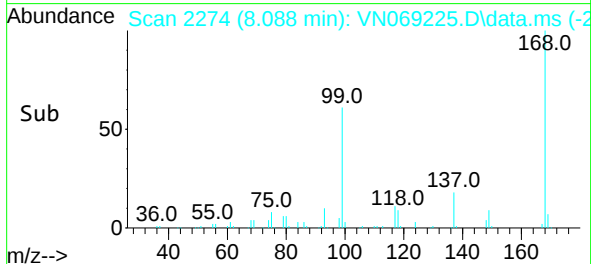
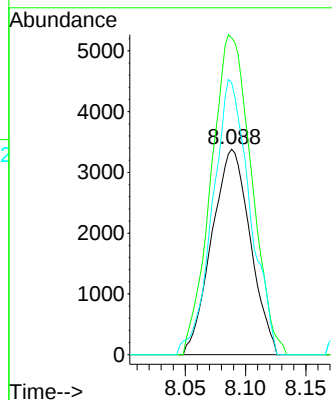
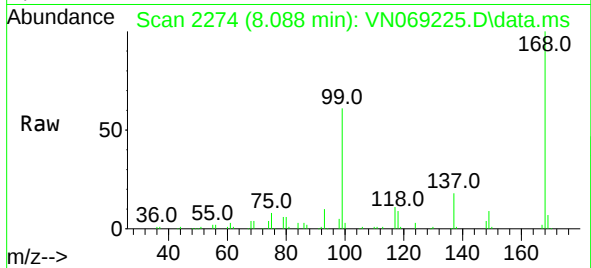




#31
Cyclohexane
Concen: 1.133 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.008 min
Lab File: VN069225.D
Acq: 27 Oct 2021 18:03

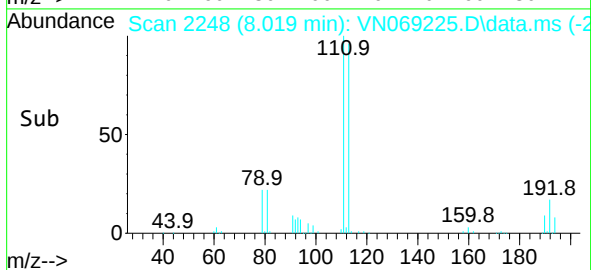
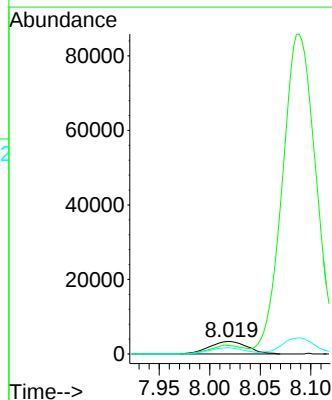
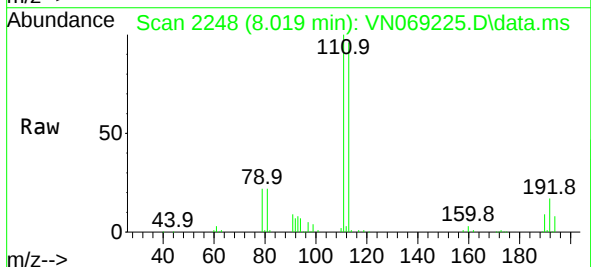
Instrument :
MSVOA_N
ClientSampled :

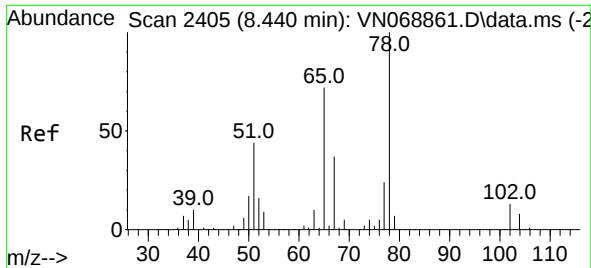
Tgt Ion: 56 Resp: 7510
Ion Ratio Lower Upper
56 100
69 154.2 26.9 40.3#
84 132.3 67.6 101.4#



#32
1,1,1-Trichloroethane
Concen: 1.411 ug/l
RT: 8.019 min Scan# 2248
Delta R.T. 0.003 min
Lab File: VN069225.D
Acq: 27 Oct 2021 18:03

Tgt Ion: 97 Resp: 8769
Ion Ratio Lower Upper
97 100
99 0.0 50.8 76.2#
61 45.8 34.6 51.8

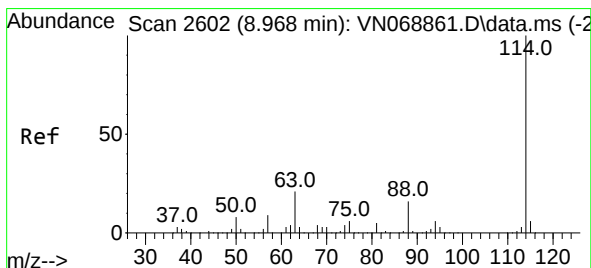
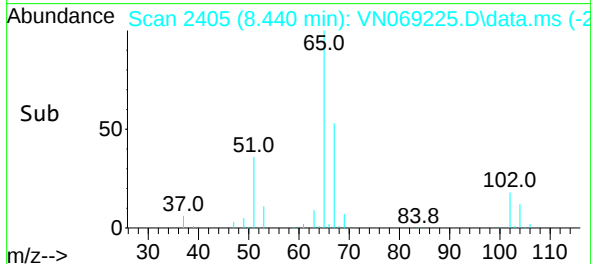
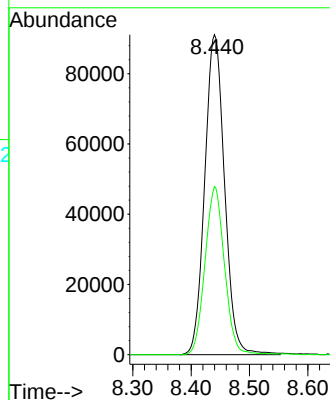
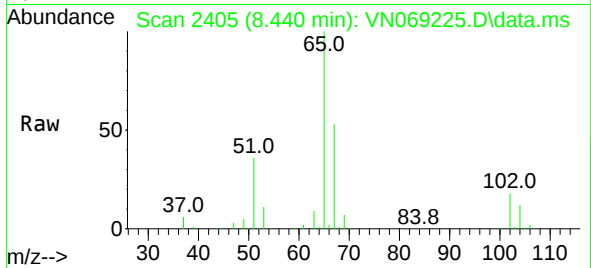




#33
 1,2-Dichloroethane-d4
 Concen: 50.492 ug/l
 RT: 8.440 min Scan# 2405
 Delta R.T. 0.000 min
 Lab File: VN069225.D
 Acq: 27 Oct 2021 18:03

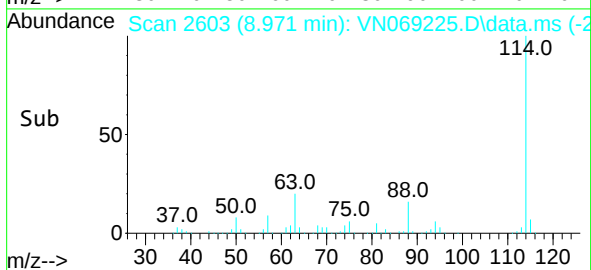
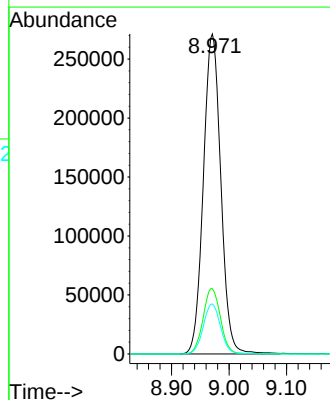
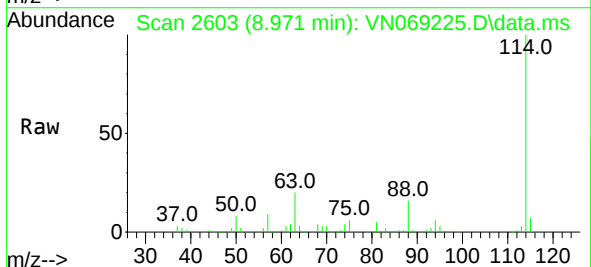
Instrument :
 MSVOA_N
 ClientSampled :

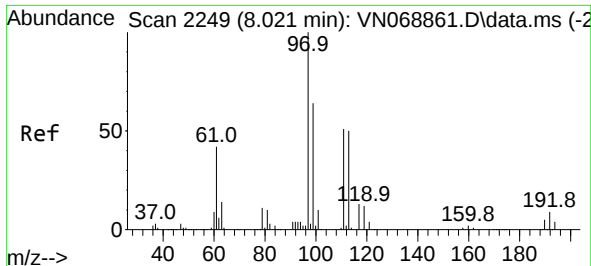
Tgt Ion: 65 Resp: 215178
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.971 min Scan# 2603
 Delta R.T. 0.003 min
 Lab File: VN069225.D
 Acq: 27 Oct 2021 18:03

Tgt Ion: 114 Resp: 571829
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 42.6
 88 15.6 0.0 32.0

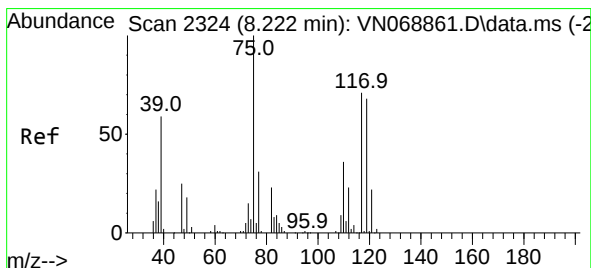
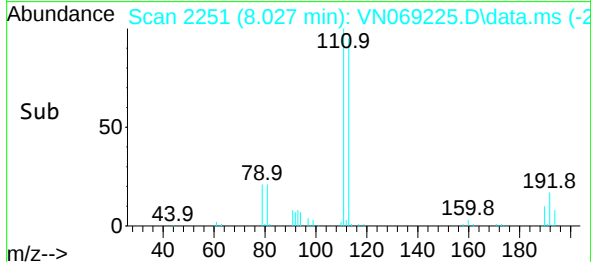
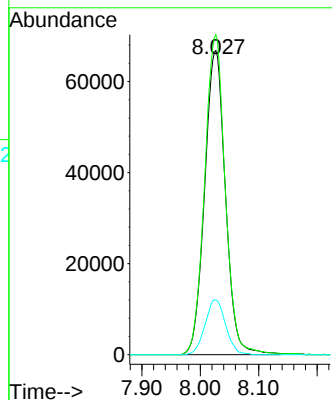
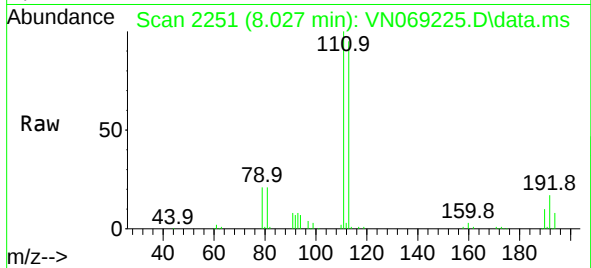




#35
Dibromofluoromethane
Concen: 49.752 ug/l
RT: 8.027 min Scan# 2251
Delta R.T. 0.006 min
Lab File: VN069225.D
Acq: 27 Oct 2021 18:03

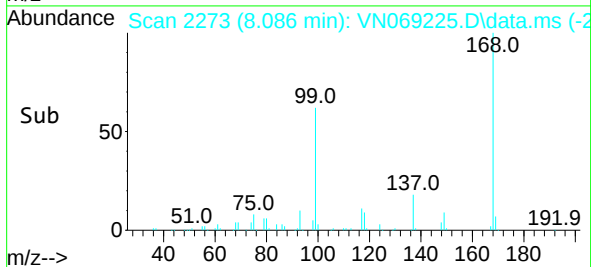
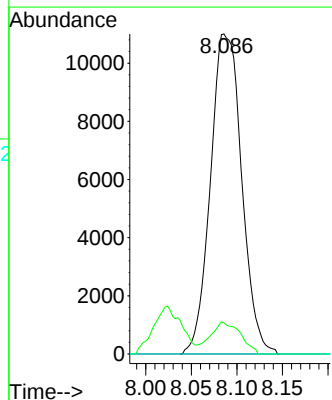
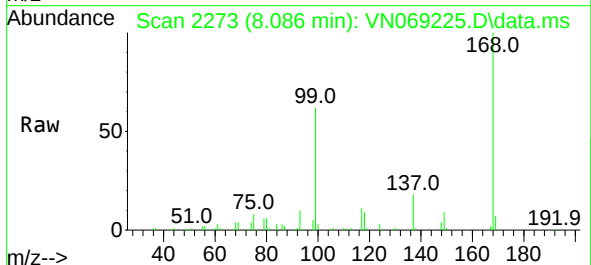
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MSVOA_N
ClientSampled :

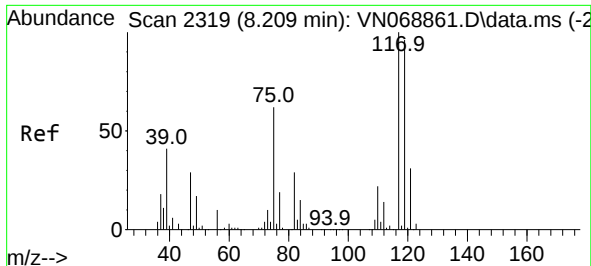
Tgt Ion:113 Resp: 165524
Ion Ratio Lower Upper
113 100
111 104.1 83.2 124.8
192 17.8 15.0 22.4



#36
1,1-Dichloropropene
Concen: 5.369 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.137 min
Lab File: VN069225.D
Acq: 27 Oct 2021 18:03

Tgt Ion: 75 Resp: 26225
Ion Ratio Lower Upper
75 100
110 9.5 17.9 53.8#
77 0.0 24.7 37.1#

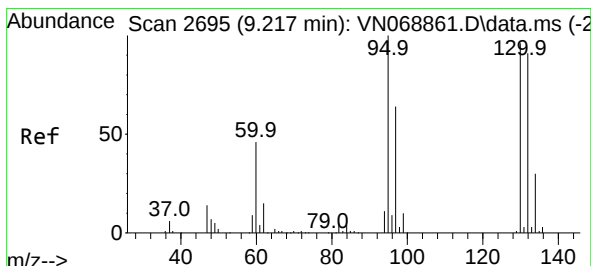
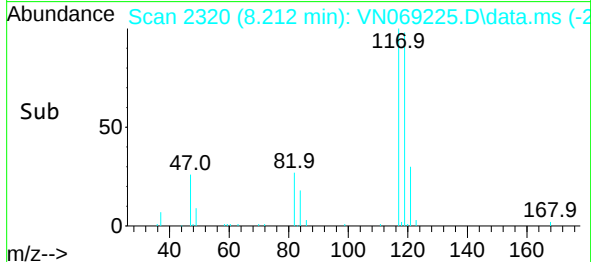
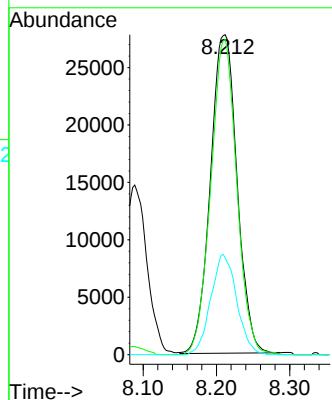
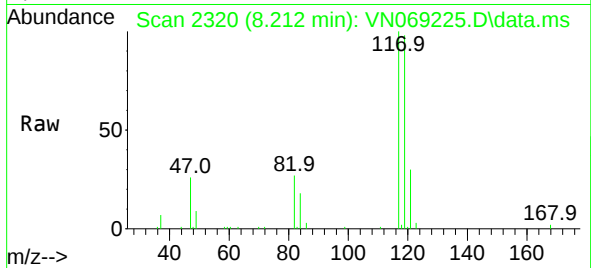




#38
Carbon Tetrachloride
Concen: 13.091 ug/l
RT: 8.212 min Scan# 2320
Delta R.T. 0.003 min
Lab File: VN069225.D
Acq: 27 Oct 2021 18:03

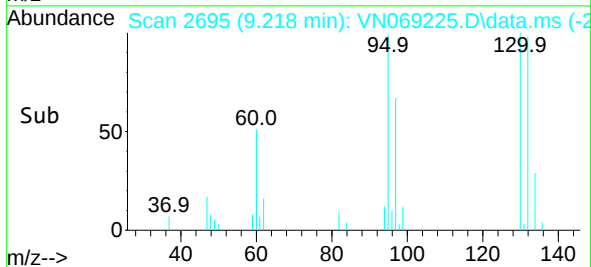
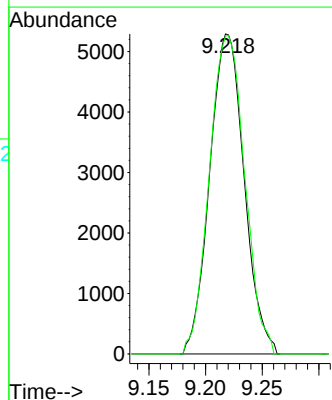
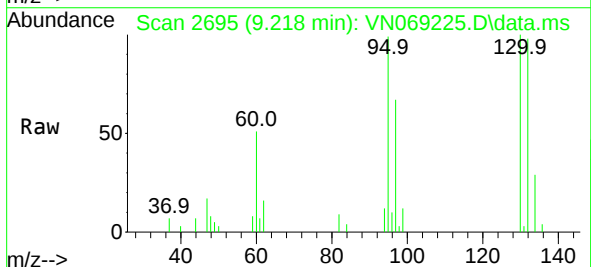
Instrument :
MSVOA_N
ClientSampled :

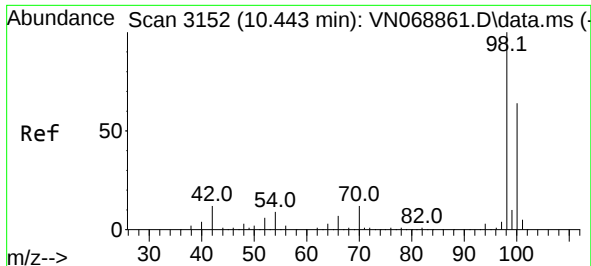
Tgt Ion:117 Resp: 70222
Ion Ratio Lower Upper
117 100
119 99.1 76.9 115.3
121 30.5 24.6 37.0



#44
Trichloroethene
Concen: 3.002 ug/l
RT: 9.218 min Scan# 2695
Delta R.T. 0.000 min
Lab File: VN069225.D
Acq: 27 Oct 2021 18:03

Tgt Ion:130 Resp: 11173
Ion Ratio Lower Upper
130 100
95 99.4 0.0 208.0

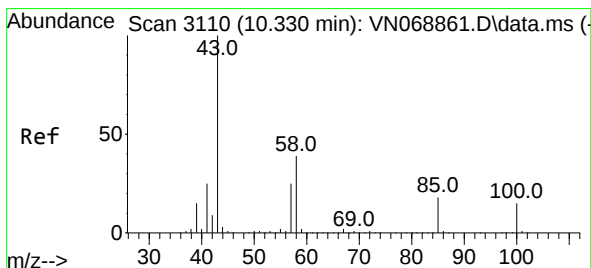
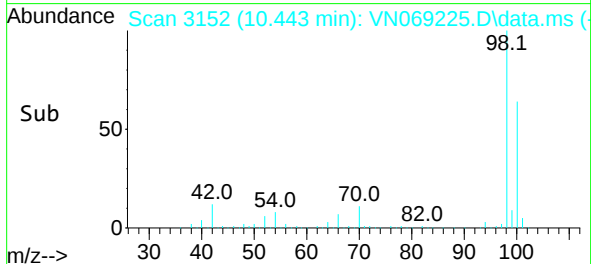
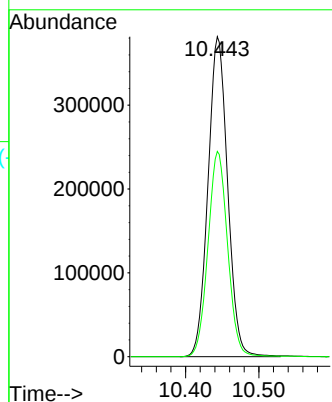
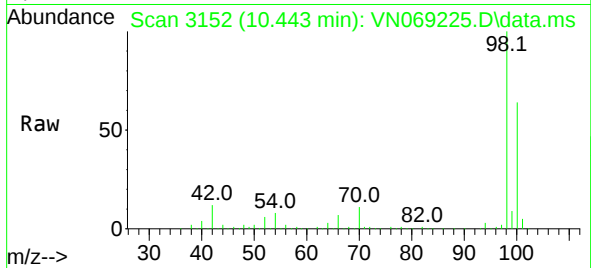




#50
Toluene-d8
Concen: 53.299 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN069225.D
Acq: 27 Oct 2021 18:03

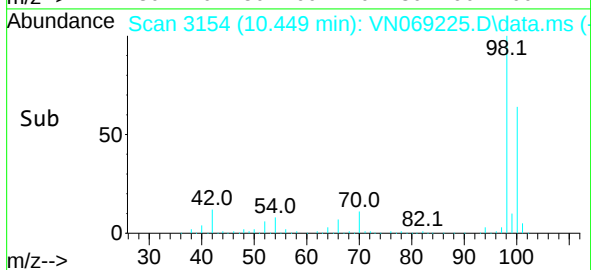
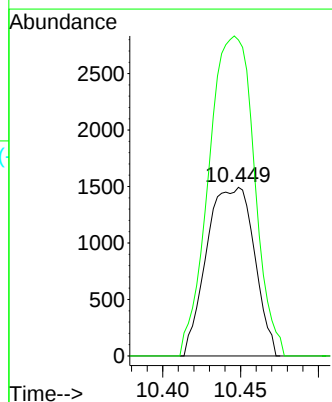
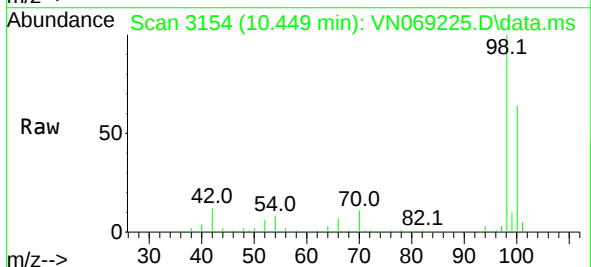
Instrument :
MSVOA_N
ClientSampled :

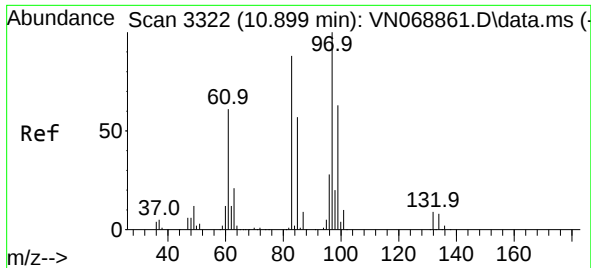
Tgt Ion: 98 Resp: 709493
Ion Ratio Lower Upper
98 100
100 64.1 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 0.614 ug/l
RT: 10.449 min Scan# 3154
Delta R.T. 0.118 min
Lab File: VN069225.D
Acq: 27 Oct 2021 18:03

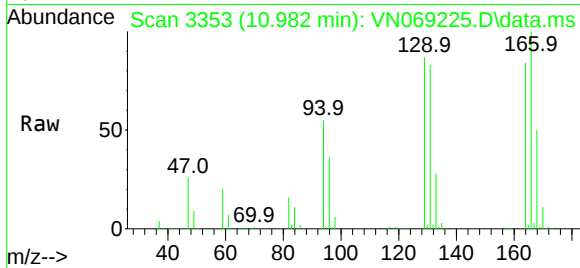
Tgt Ion: 43 Resp: 3169
Ion Ratio Lower Upper
43 100
58 181.4 31.0 46.4#



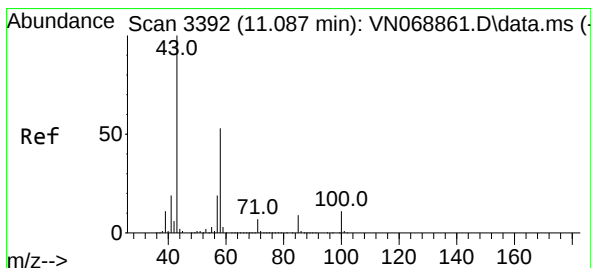
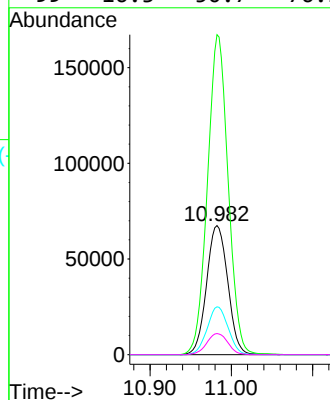
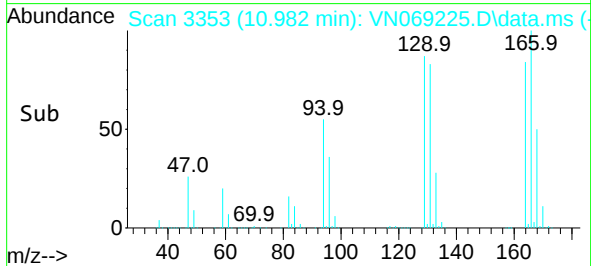


#55
1,1,2-Trichloroethane
Concen: 32.456 ug/l
RT: 10.982 min Scan# 3353
Delta R.T. 0.083 min
Lab File: VN069225.D
Acq: 27 Oct 2021 18:03

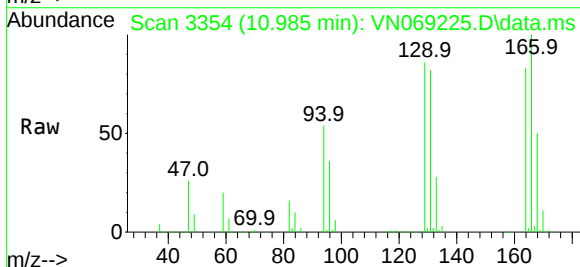
Instrument :
MSVOA_N
ClientSampled :



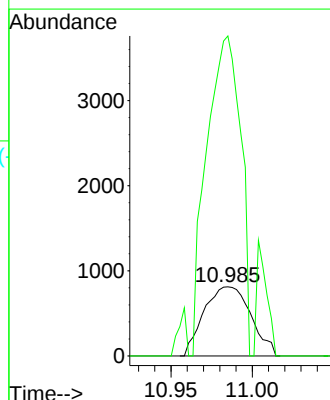
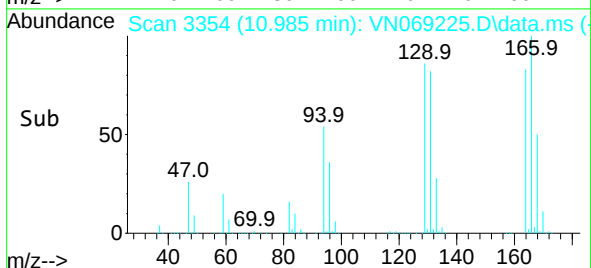
Tgt Ion: 97 Resp: 122446
Ion Ratio Lower Upper
97 100
83 247.7 70.5 105.7#
85 37.1 45.3 67.9#
99 16.3 50.7 76.1#

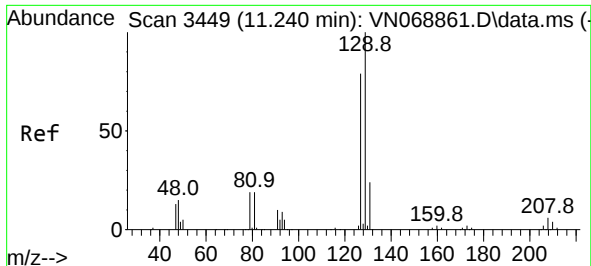


#59
2-Hexanone
Concen: 0.441 ug/l
RT: 10.985 min Scan# 3354
Delta R.T. -0.102 min
Lab File: VN069225.D
Acq: 27 Oct 2021 18:03



Tgt Ion: 43 Resp: 1632
Ion Ratio Lower Upper
43 100
58 335.7 26.9 80.7#

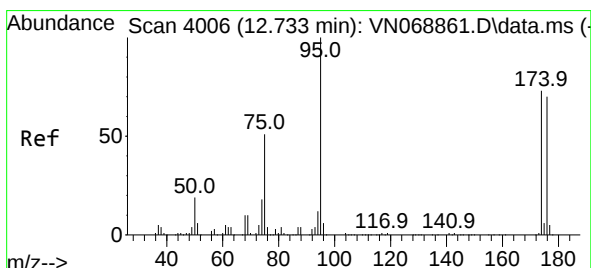
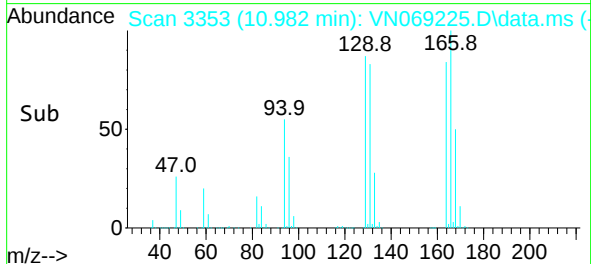
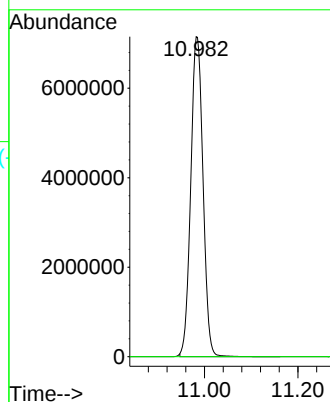
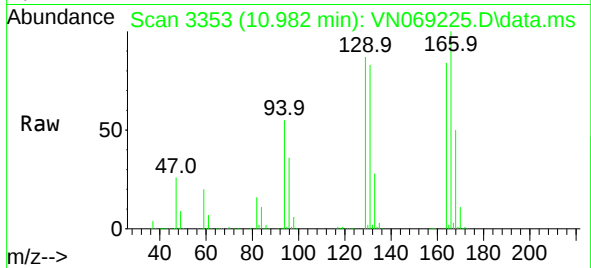




#60
Dibromochloromethane
Concen: 3045.525 ug/l
RT: 10.982 min Scan# 3353
Delta R.T. -0.257 min
Lab File: VN069225.D
Acq: 27 Oct 2021 18:03

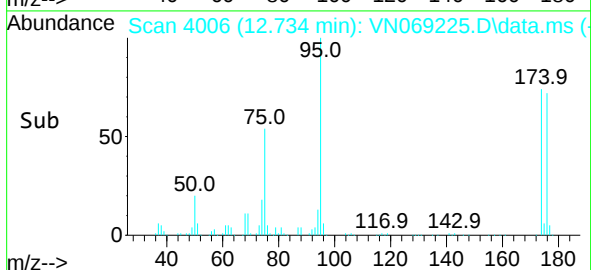
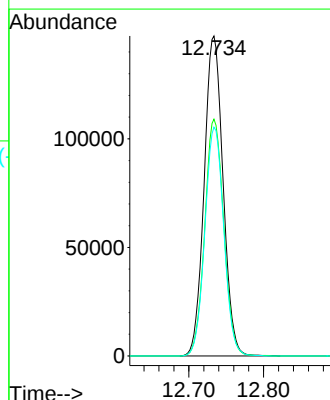
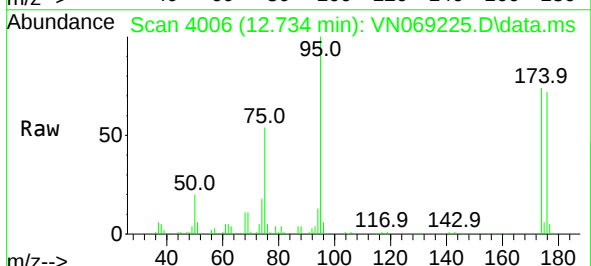
Instrument :
MSVOA_N
ClientSampleId :

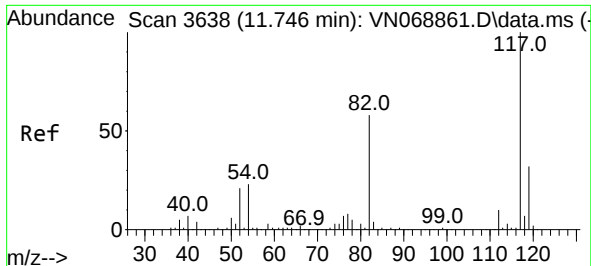
Tgt Ion:129 Resp:12969150
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.2#



#62
4-Bromofluorobenzene
Concen: 51.551 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.000 min
Lab File: VN069225.D
Acq: 27 Oct 2021 18:03

Tgt Ion: 95 Resp: 258908
Ion Ratio Lower Upper
95 100
174 74.4 0.0 144.8
176 71.5 0.0 140.0

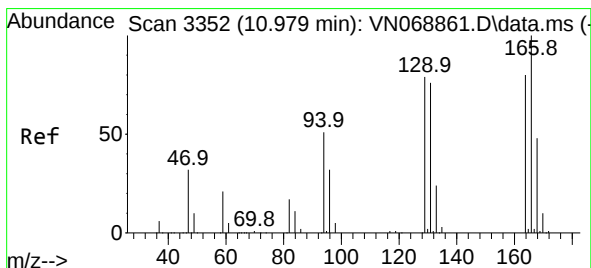
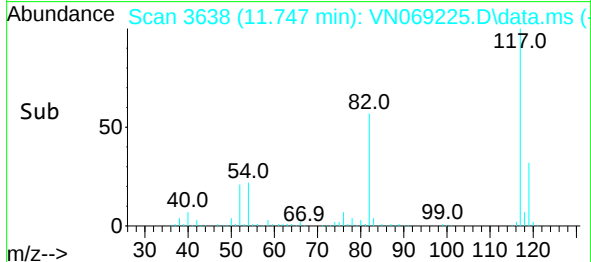
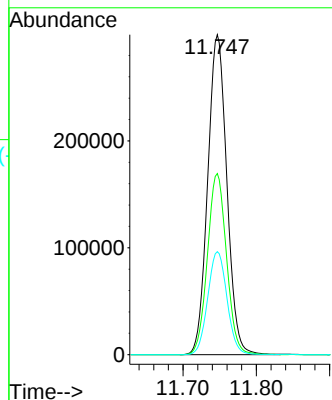
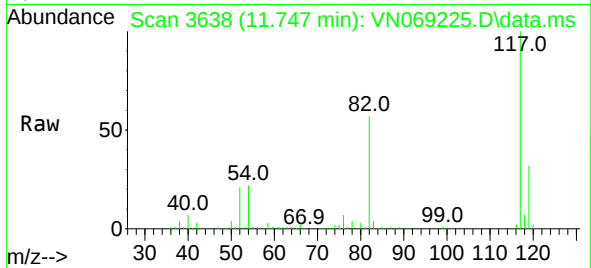




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN069225.D
Acq: 27 Oct 2021 18:03

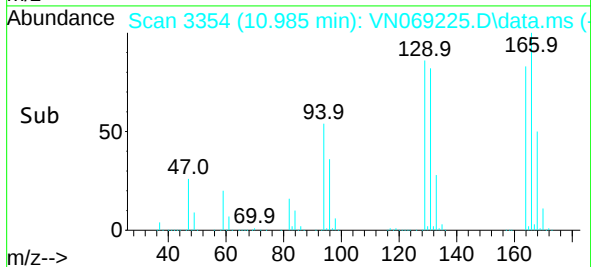
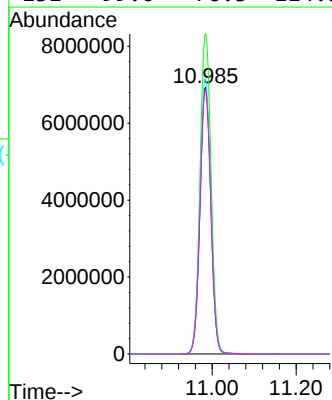
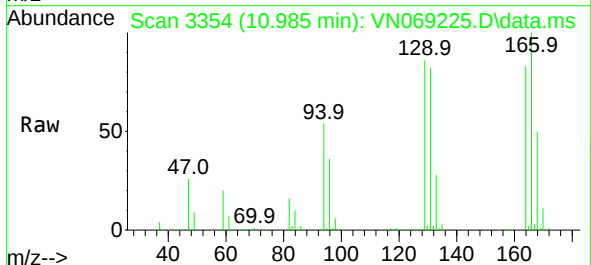
Instrument :
MSVOA_N
ClientSampleId :

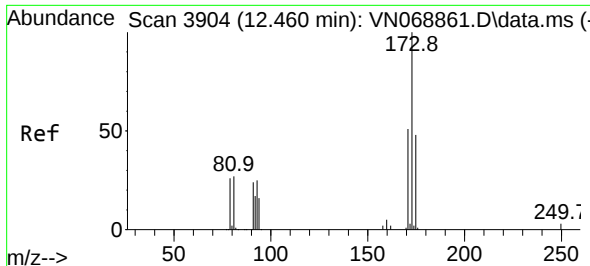
Tgt Ion:117 Resp: 543691
Ion Ratio Lower Upper
117 100
82 56.6 46.4 69.6
119 32.2 26.0 39.0



#64
Tetrachloroethene
Concen: 3599.083 ug/l
RT: 10.985 min Scan# 3354
Delta R.T. 0.006 min
Lab File: VN069225.D
Acq: 27 Oct 2021 18:03

Tgt Ion:164 Resp:12605408
Ion Ratio Lower Upper
164 100
166 120.1 99.8 149.8
129 103.1 79.2 118.8
131 99.0 76.3 114.5

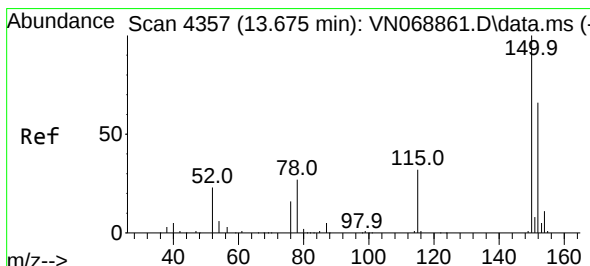
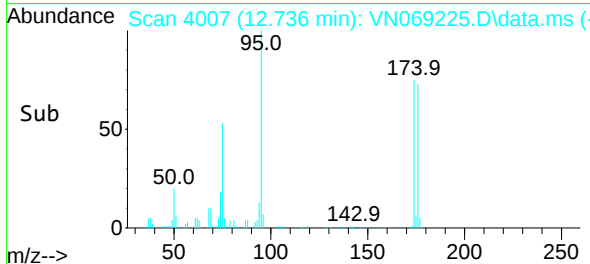
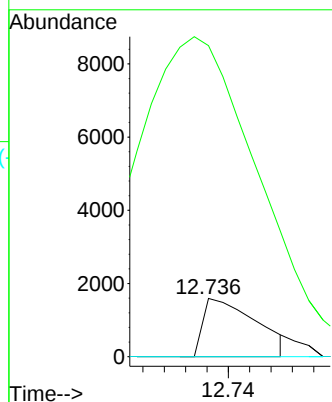
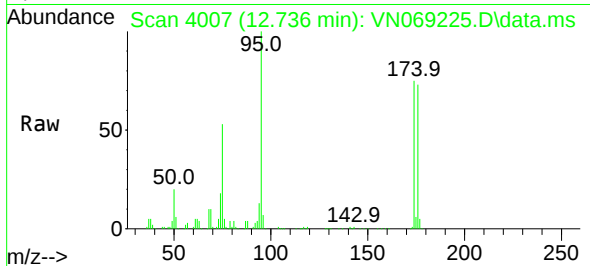




#71
Bromoform
Concen: 0.340 ug/l
RT: 12.736 min Scan# 4007
Delta R.T. 0.276 min
Lab File: VN069225.D
Acq: 27 Oct 2021 18:03

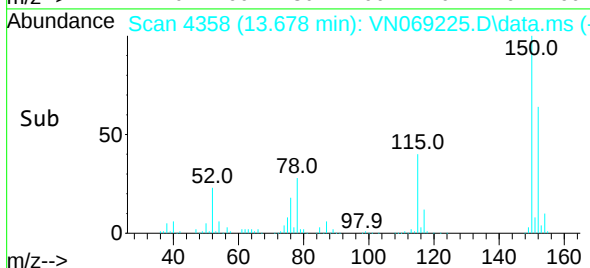
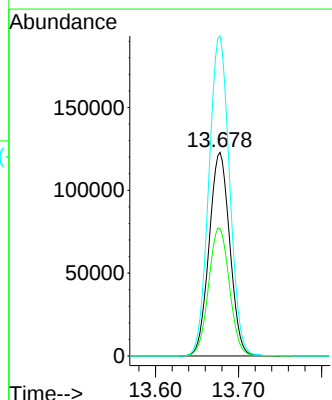
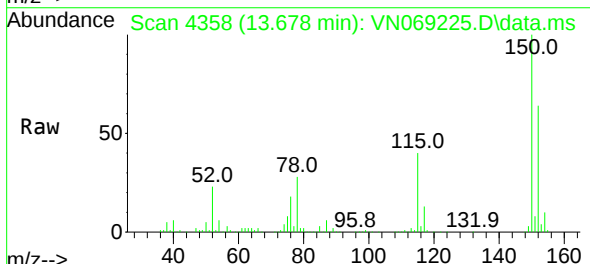
Instrument :
MSVOA_N
ClientSampled :

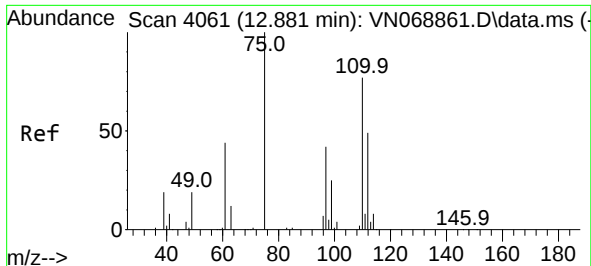
Tgt Ion:173 Resp: 1097
Ion Ratio Lower Upper
173 100
175 1257.2 23.8 71.5#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. 0.003 min
Lab File: VN069225.D
Acq: 27 Oct 2021 18:03

Tgt Ion:152 Resp: 212207
Ion Ratio Lower Upper
152 100
115 63.3 31.4 94.3
150 157.2 0.0 351.0

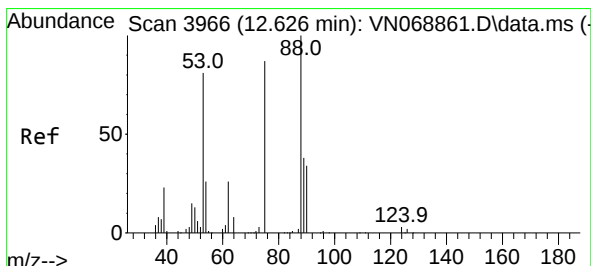
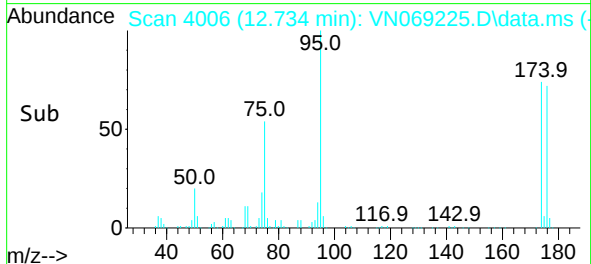
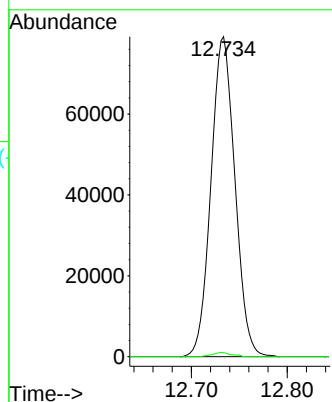
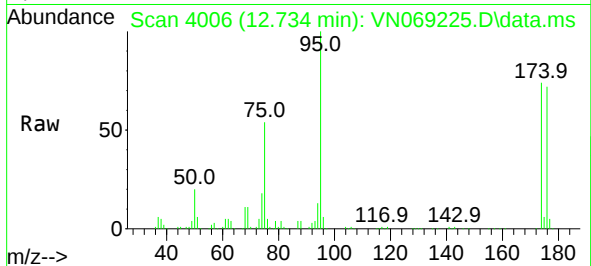




#76
1,2,3-Trichloropropane
Concen: 30.374 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.147 min
Lab File: VN069225.D
Acq: 27 Oct 2021 18:03

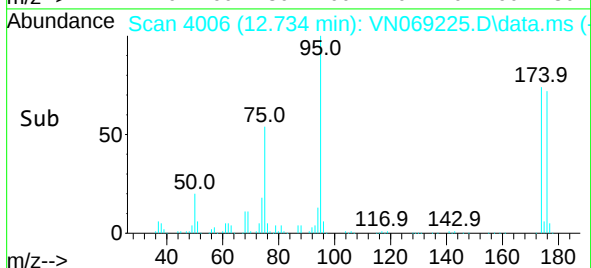
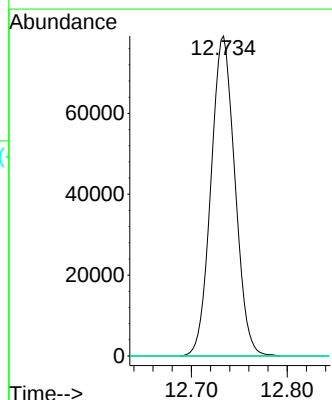
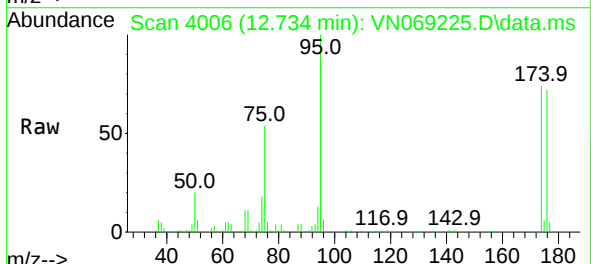
Instrument :
MSVOA_N
ClientSampled :

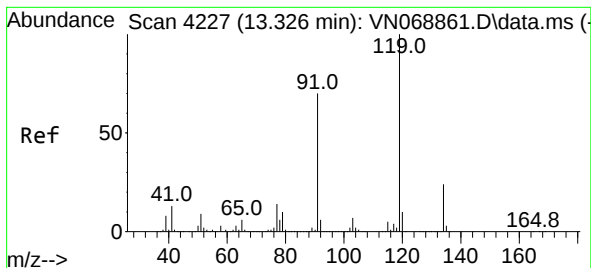
Tgt Ion: 75 Resp: 137144
Ion Ratio Lower Upper
75 100
77 1.1 96.2 288.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 72.668 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.107 min
Lab File: VN069225.D
Acq: 27 Oct 2021 18:03

Tgt Ion: 75 Resp: 137144
Ion Ratio Lower Upper
75 100
53 0.0 75.4 113.2#
89 0.0 36.9 55.3#





#83

tert-Butylbenzene

Concen: 0.363 ug/l

RT: 13.364 min Scan# 4241

Delta R.T. 0.038 min

Lab File: VN069225.D

Acq: 27 Oct 2021 18:03

Tgt Ion:119 Resp: 4643

Ion Ratio Lower Upper

119 100

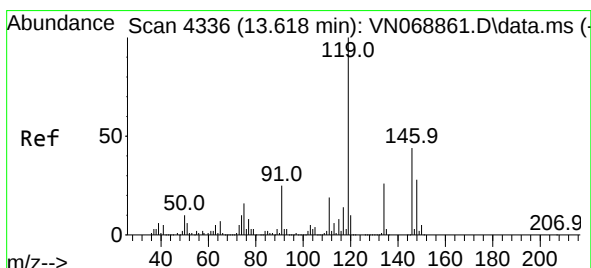
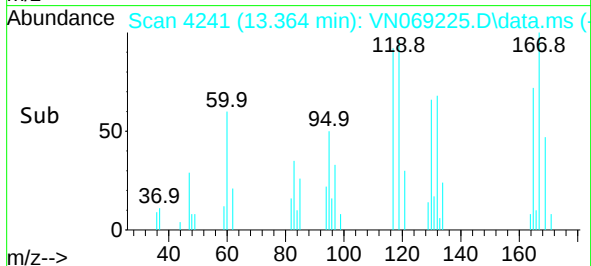
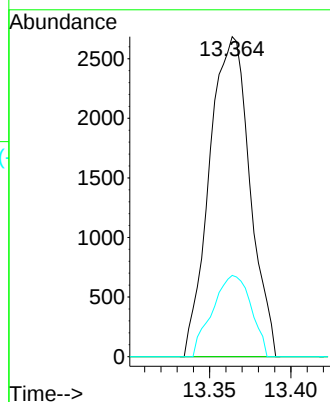
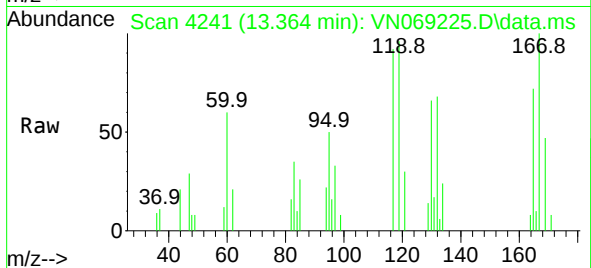
91 0.0 34.6 103.9#

134 24.2 12.6 37.6

Instrument :

MSVOA_N

ClientSampled :



#86

p-Isopropyltoluene

Concen: 0.326 ug/l

RT: 13.364 min Scan# 4241

Delta R.T. -0.255 min

Lab File: VN069225.D

Acq: 27 Oct 2021 18:03

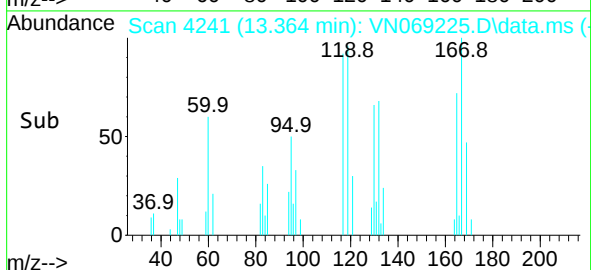
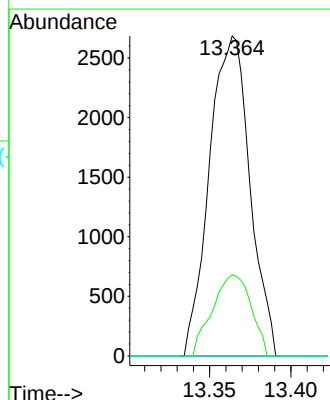
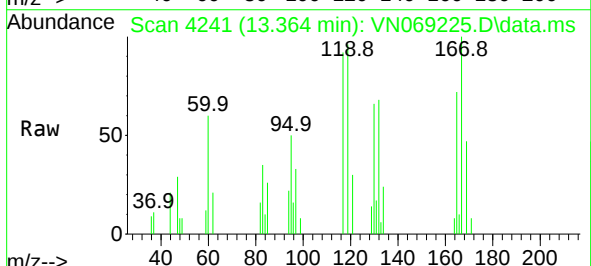
Tgt Ion:119 Resp: 4643

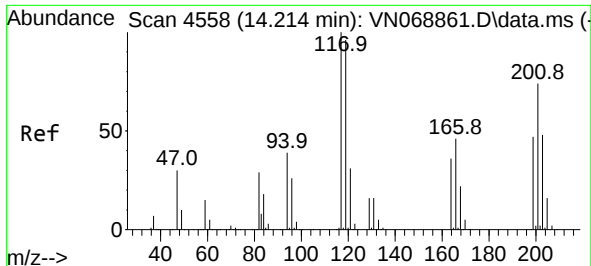
Ion Ratio Lower Upper

119 100

134 24.2 12.9 38.6

91 0.0 12.8 38.4#

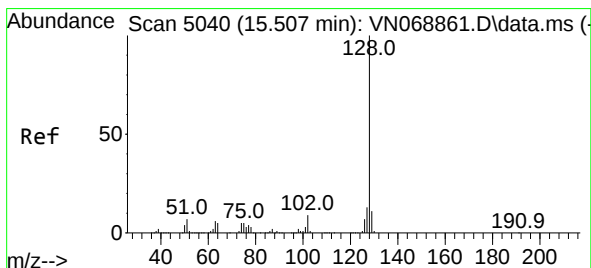
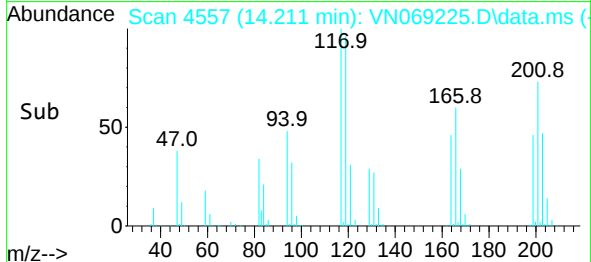
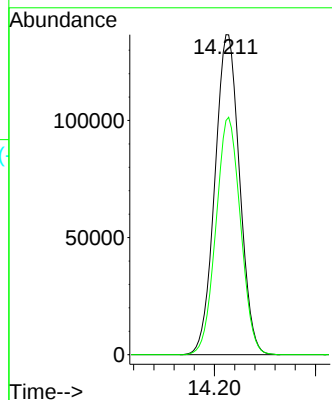
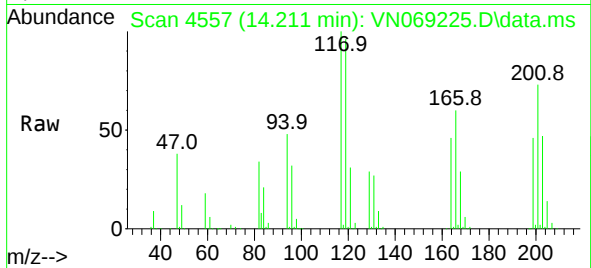




#90
Hexachloroethane
Concen: 77.677 ug/l
RT: 14.211 min Scan# 4557
Delta R.T. -0.003 min
Lab File: VN069225.D
Acq: 27 Oct 2021 18:03

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:117 Resp: 232138
Ion Ratio Lower Upper
117 100
201 73.7 37.1 111.5



#95
Naphthalene
Concen: 3.829 ug/l
RT: 15.501 min Scan# 5038
Delta R.T. -0.006 min
Lab File: VN069225.D
Acq: 27 Oct 2021 18:03

Tgt Ion:128 Resp: 180
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.9 13.3#

