

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062221\
 Data File : VN067439.D
 Acq On : 22 Jun 2021 16:01
 Operator : JC/MD
 Sample : M2799-04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-8

Quant Time: Jun 23 04:05:29 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N061421W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 15 05:19:42 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

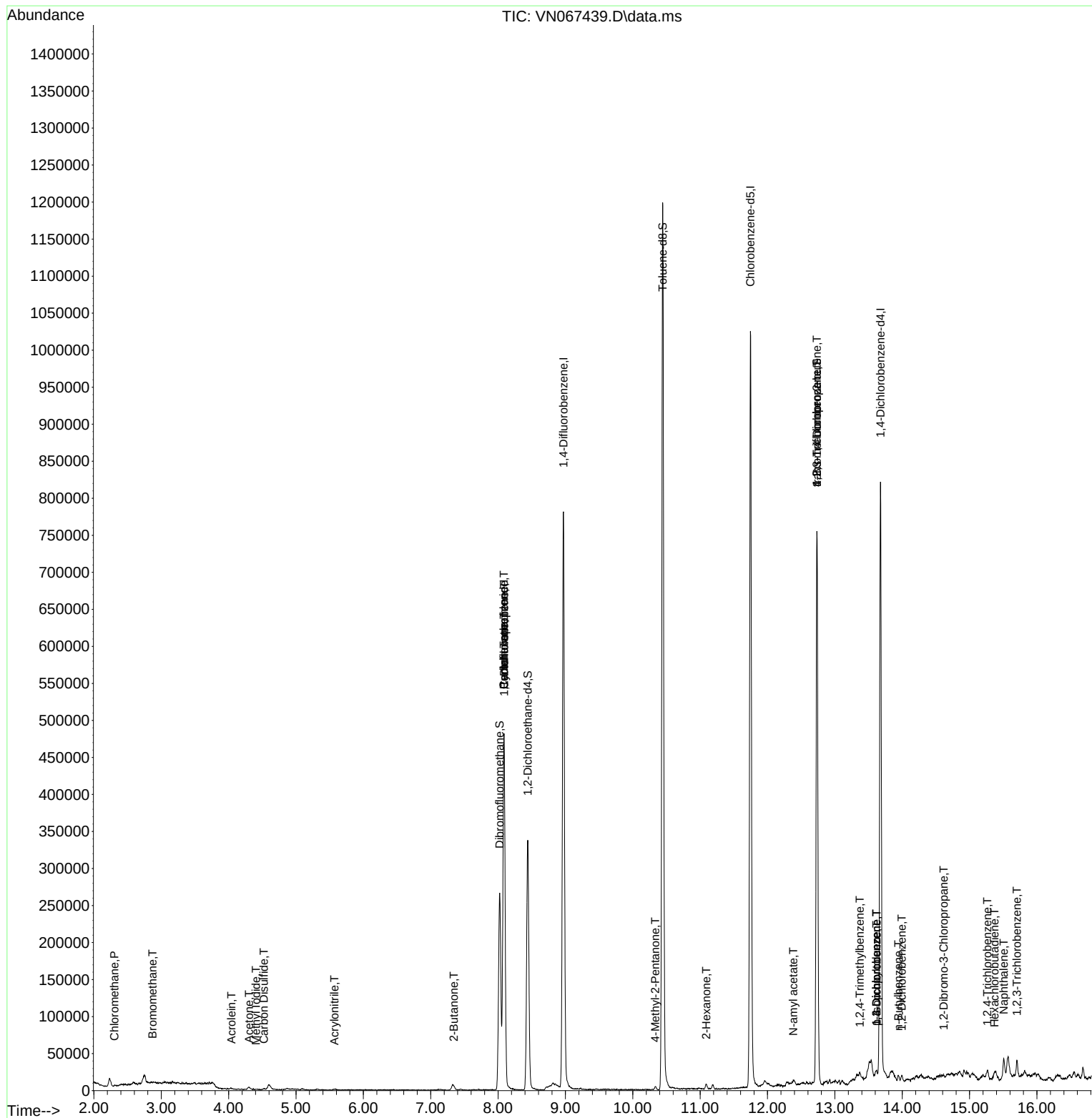
Internal Standards						
1) Pentafluorobenzene	8.088	168	312573	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	643416	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.746	117	552151	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.677	152	185495	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	280891	45.553	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	91.100%		
35) Dibromofluoromethane	8.024	113	196274	45.867	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	91.740%		
50) Toluene-d8	10.443	98	829396	50.568	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	101.140%		
62) 4-Bromofluorobenzene	12.733	95	281479	41.585	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	83.180%		
Target Compounds						Qvalue
3) Chloromethane	2.303	50	1280	0.270	ug/l #	85
5) Bromomethane	2.869	94	681	0.345	ug/l #	66
10) Methyl Iodide	4.406	142	348	6.819	ug/l #	33
13) Acrolein	4.041	56	783	1.236	ug/l #	52
15) Acrylonitrile	5.570	53	511	0.229	ug/l #	67
16) Acetone	4.301	43	6302	2.663	ug/l	98
17) Carbon Disulfide	4.524	76	3123	0.258	ug/l #	74
25) 2-Butanone	7.343	43	877	0.259	ug/l #	51
31) Cyclohexane	8.088	56	10288	1.227	ug/l #	4
36) 1,1-Dichloropropene	8.091	75	34308	4.756	ug/l #	46
38) Carbon Tetrachloride	8.088	117	38296	4.939	ug/l #	16
51) 4-Methyl-2-Pentanone	10.333	43	2674	0.339	ug/l #	87
59) 2-Hexanone	11.089	43	5261	0.909	ug/l	93
74) N-amyl acetate	12.385	43	4416	0.508	ug/l #	75
76) 1,2,3-Trichloropropane	12.733	75	159816	33.177	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.733	75	159816	82.224	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.369	105	3182	0.215	ug/l	96
86) p-Isopropyltoluene	13.618	119	3737	0.274	ug/l #	55
87) 1,3-Dichlorobenzene	13.618	146	2568	0.393	ug/l	85
88) 1,4-Dichlorobenzene	13.618	146	2568	0.390	ug/l	85
89) n-Butylbenzene	13.943	91	4696	0.366	ug/l	90
91) 1,2-Dichlorobenzene	13.994	146	2289	0.369	ug/l #	72
92) 1,2-Dibromo-3-Chloropr...	14.613	75	446	0.336	ug/l #	16
93) 1,2,4-Trichlorobenzene	15.262	180	2978	0.919	ug/l	98
94) Hexachlorobutadiene	15.370	225	626	0.337	ug/l #	41
95) Naphthalene	15.507	128	22807	4.526	ug/l	96
96) 1,2,3-Trichlorobenzene	15.702	180	4025	1.294	ug/l	91

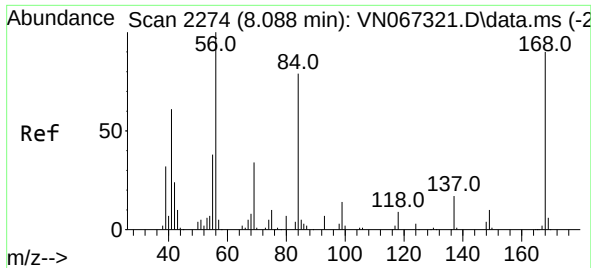
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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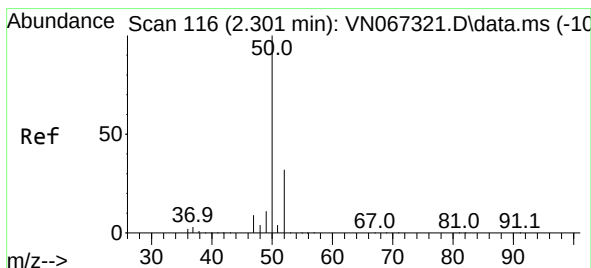
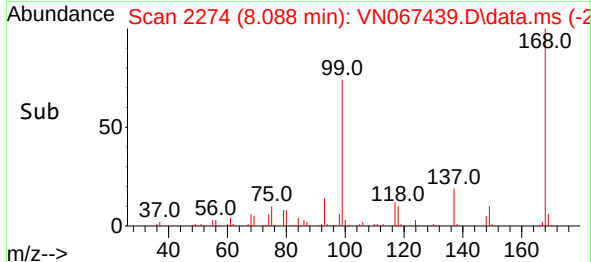
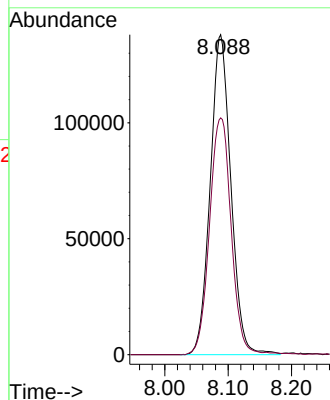
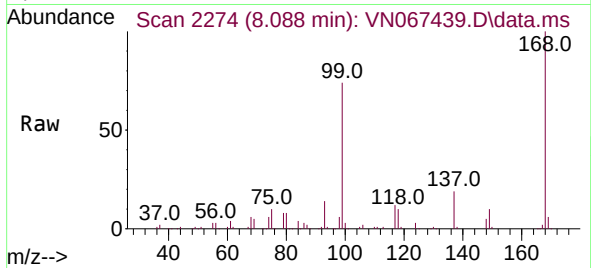




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. 0.000 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

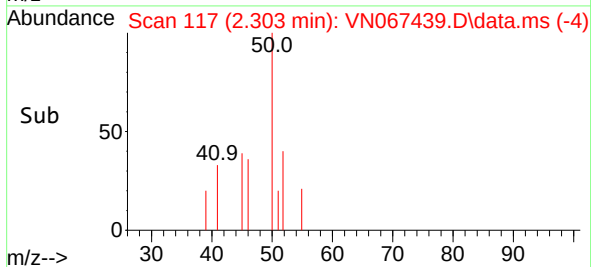
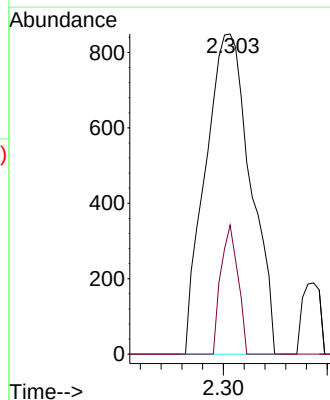
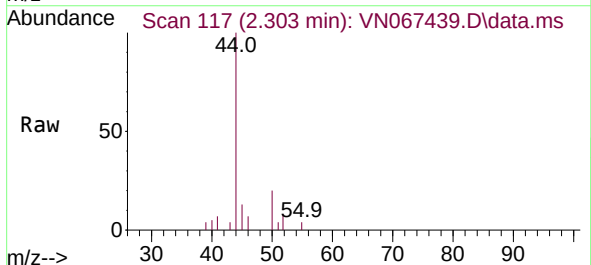
Instrument :
MSVOA_N
ClientSampled :
MW-8

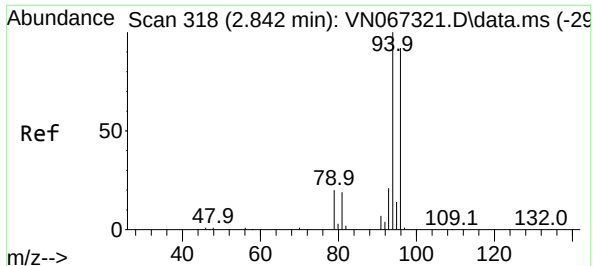
Tgt Ion:168 Resp: 312573
Ion Ratio Lower Upper
168 100
99 74.0 62.9 94.3



#3
Chloromethane
Concen: 0.270 ug/l
RT: 2.303 min Scan# 117
Delta R.T. 0.002 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

Tgt Ion: 50 Resp: 1280
Ion Ratio Lower Upper
50 100
52 40.3 25.6 38.4#

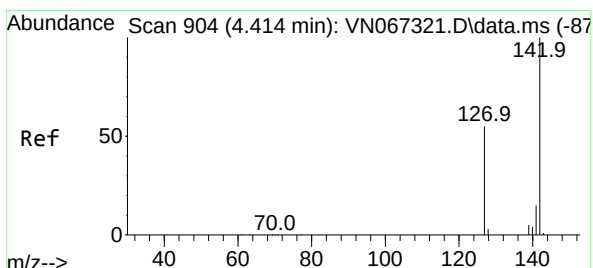
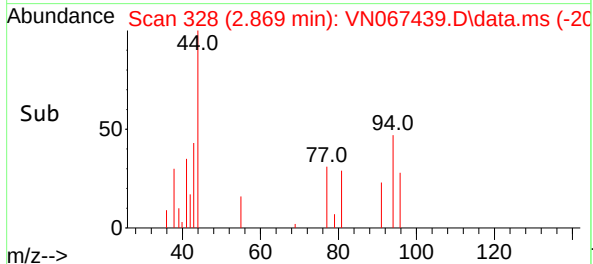
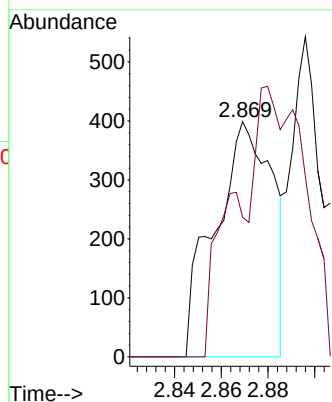
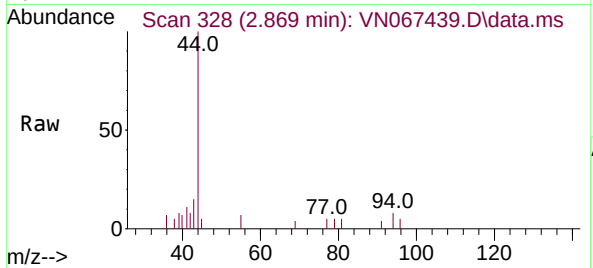




#5
Bromomethane
Concen: 0.345 ug/l
RT: 2.869 min Scan# 328
Delta R.T. 0.027 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

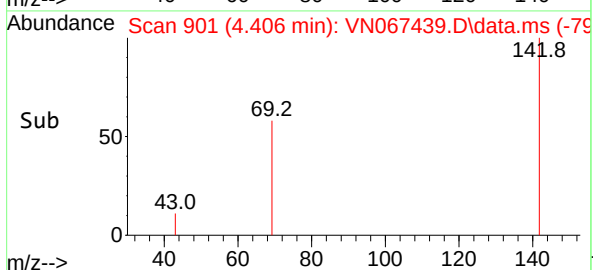
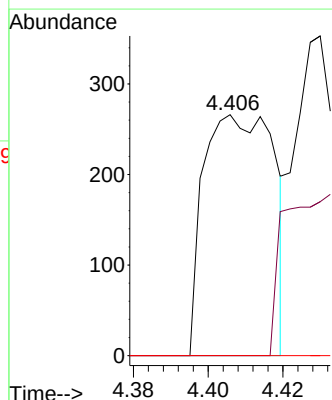
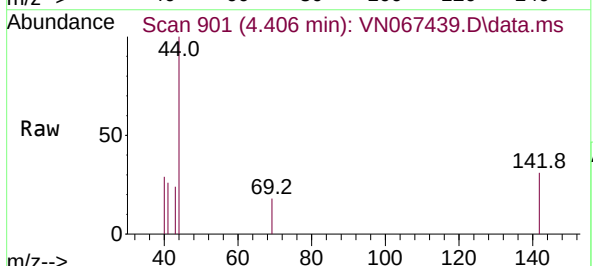
Instrument :
MSVOA_N
ClientSampleId :
MW-8

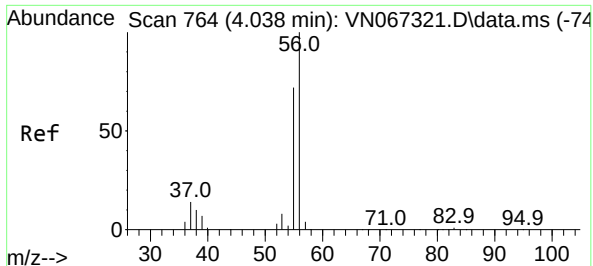
Tgt Ion: 94 Resp: 681
Ion Ratio Lower Upper
94 100
96 59.4 73.7 110.5#



#10
Methyl Iodide
Concen: 6.819 ug/l
RT: 4.406 min Scan# 901
Delta R.T. -0.008 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

Tgt Ion:142 Resp: 348
Ion Ratio Lower Upper
142 100
127 0.0 43.1 64.7#
141 0.0 11.4 17.0#

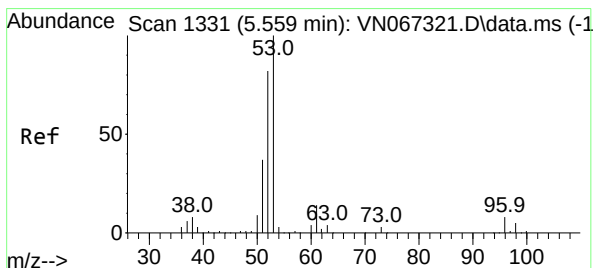
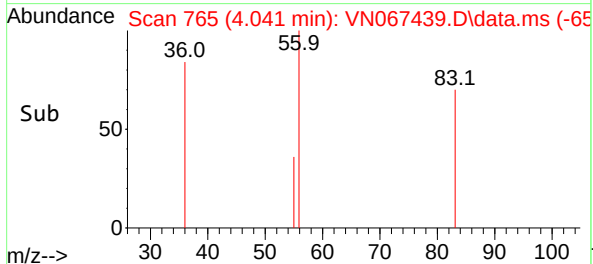
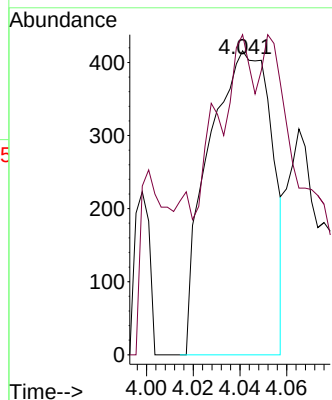
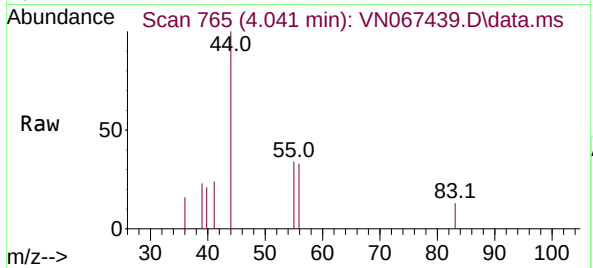




#13
Acrolein
Concen: 1.236 ug/l
RT: 4.041 min Scan# 765
Delta R.T. 0.003 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

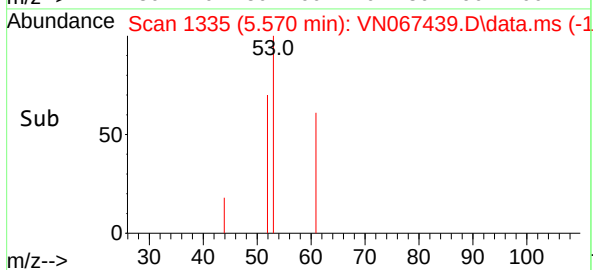
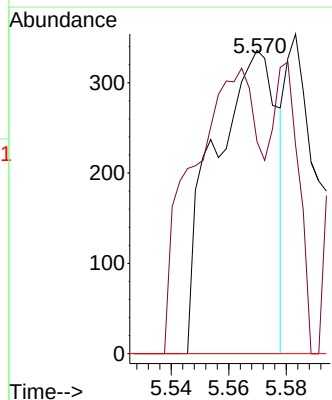
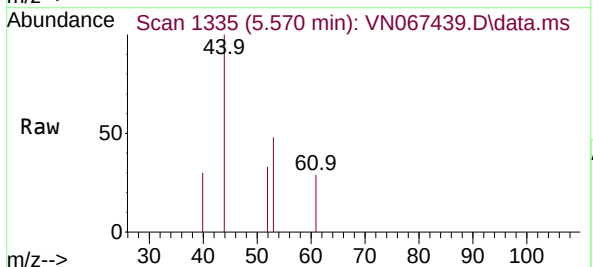
Instrument :
MSVOA_N
ClientSampled :
MW-8

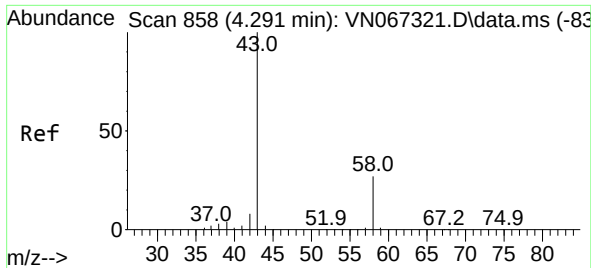
Tgt Ion: 56 Resp: 783
Ion Ratio Lower Upper
56 100
55 32.2 57.4 86.0#



#15
Acrylonitrile
Concen: 0.229 ug/l
RT: 5.570 min Scan# 1335
Delta R.T. 0.011 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

Tgt Ion: 53 Resp: 511
Ion Ratio Lower Upper
53 100
52 100.2 66.2 99.2#
51 0.0 30.2 45.4#

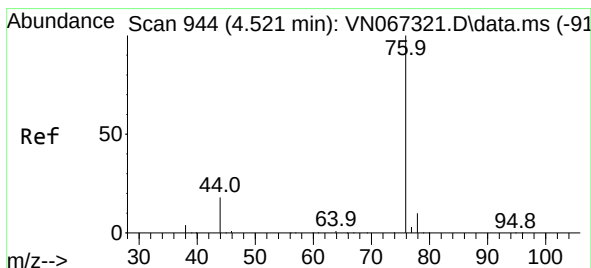
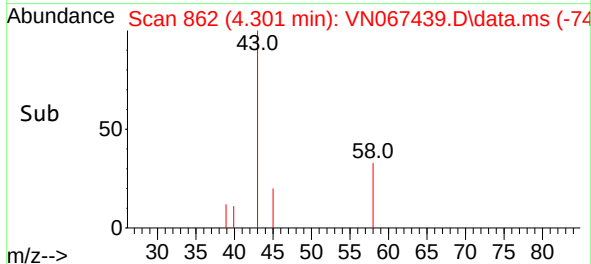
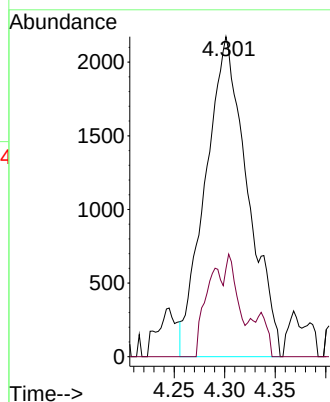
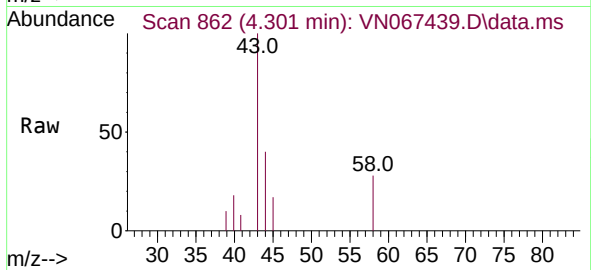




#16
Acetone
Concen: 2.663 ug/l
RT: 4.301 min Scan# 862
Delta R.T. 0.010 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

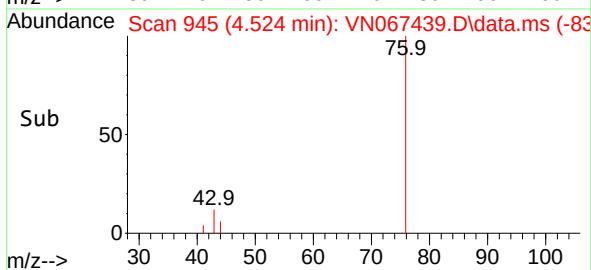
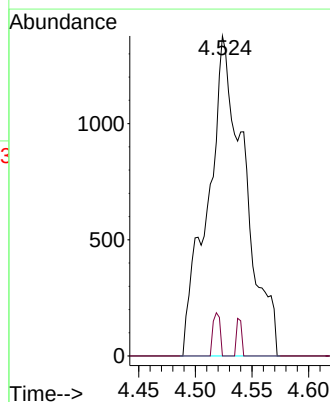
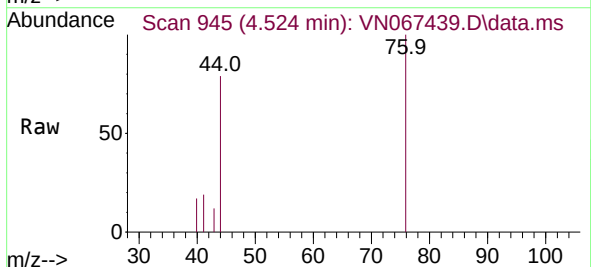
Instrument :
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ClientSampleId :
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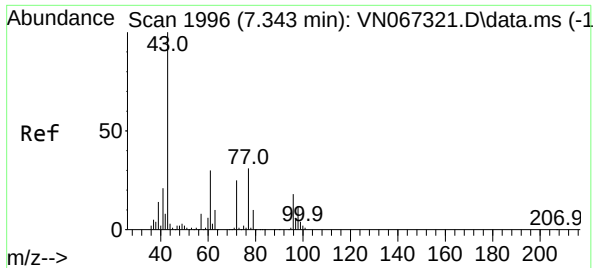
Tgt Ion: 43 Resp: 6302
Ion Ratio Lower Upper
43 100
58 27.5 21.2 31.8



#17
Carbon Disulfide
Concen: 0.258 ug/l
RT: 4.524 min Scan# 945
Delta R.T. 0.003 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

Tgt Ion: 76 Resp: 3123
Ion Ratio Lower Upper
76 100
78 0.0 7.7 11.5#

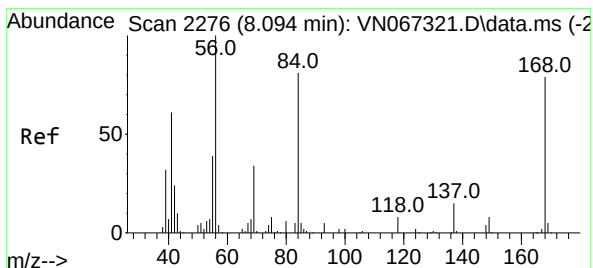
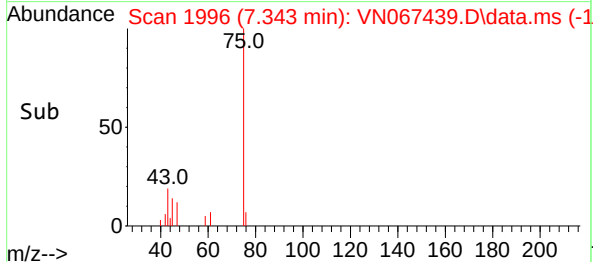
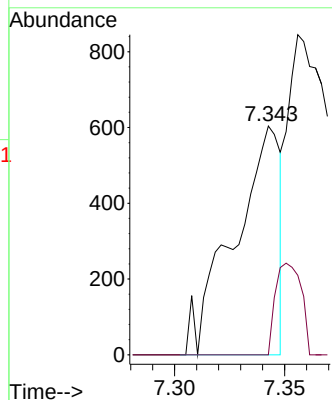
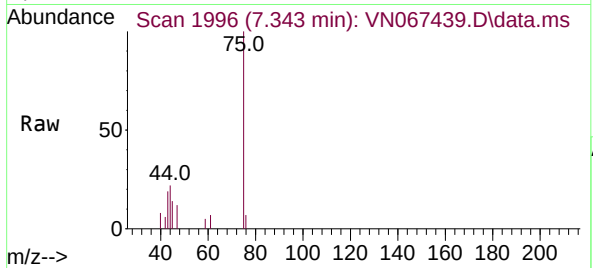




#25
2-Butanone
Concen: 0.259 ug/l
RT: 7.343 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

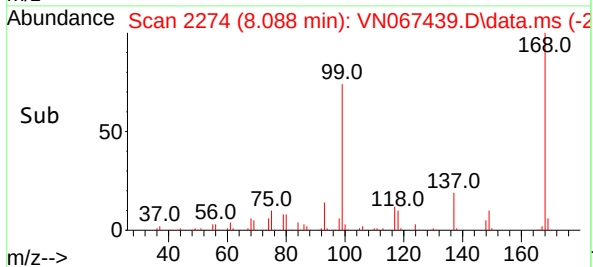
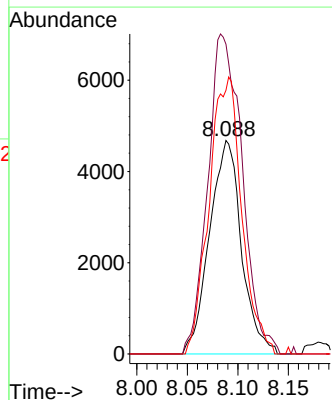
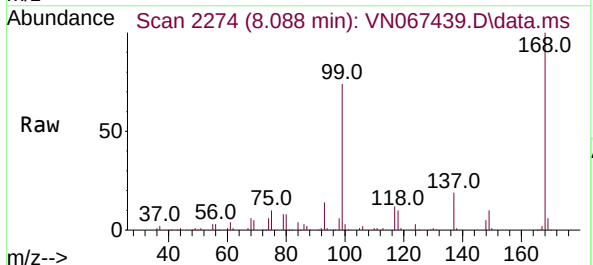
Instrument :
MSVOA_N
ClientSampled :
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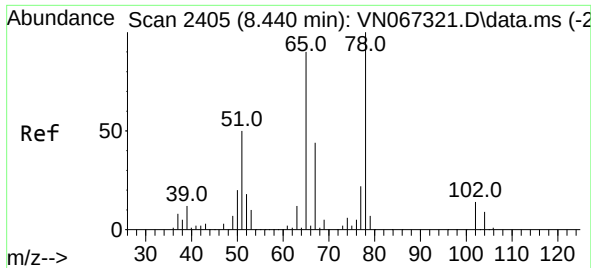
Tgt Ion: 43 Resp: 877
Ion Ratio Lower Upper
43 100
72 0.0 19.7 29.5#



#31
Cyclohexane
Concen: 1.227 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.006 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

Tgt Ion: 56 Resp: 10288
Ion Ratio Lower Upper
56 100
69 145.2 27.3 40.9#
84 130.0 64.9 97.3#

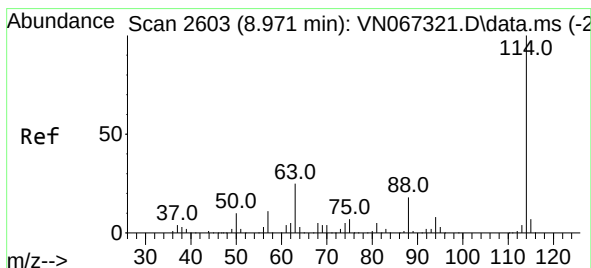
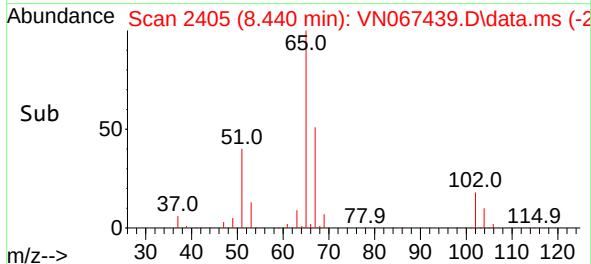
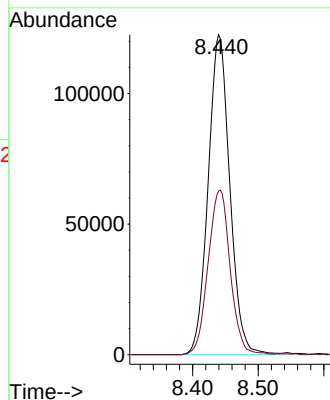
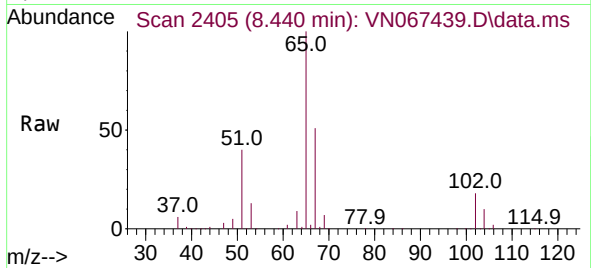




#33
 1,2-Dichloroethane-d4
 Concen: 45.553 ug/l
 RT: 8.440 min Scan# 2405
 Delta R.T. -0.000 min
 Lab File: VN067439.D
 Acq: 22 Jun 2021 16:01

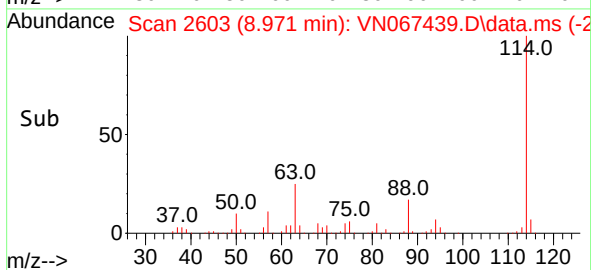
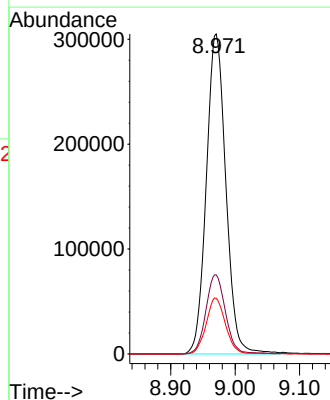
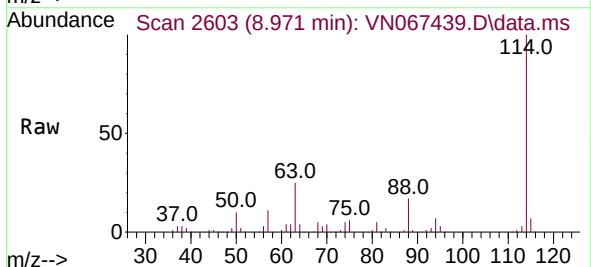
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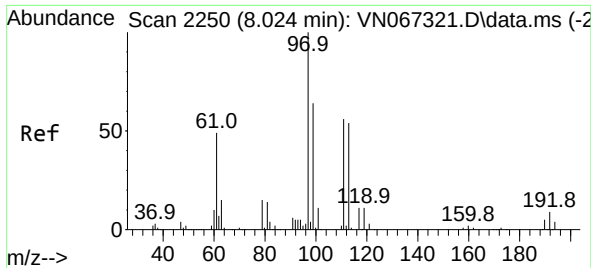
Tgt Ion: 65 Resp: 280891
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 98.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.971 min Scan# 2603
 Delta R.T. 0.000 min
 Lab File: VN067439.D
 Acq: 22 Jun 2021 16:01

Tgt Ion: 114 Resp: 643416
 Ion Ratio Lower Upper
 114 100
 63 24.7 0.0 49.0
 88 17.4 0.0 36.6

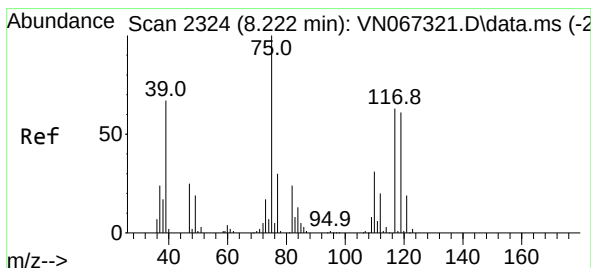
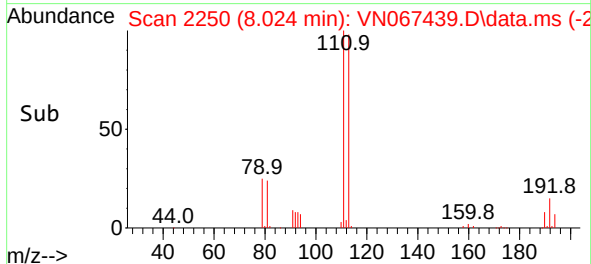
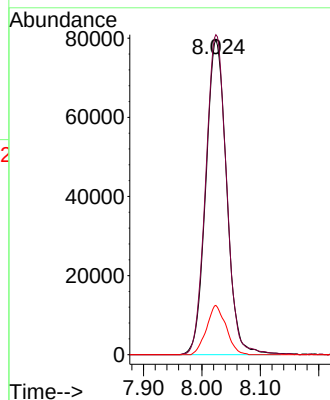
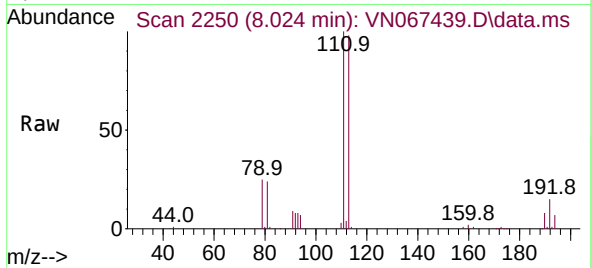




#35
Dibromofluoromethane
Concen: 45.867 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. -0.000 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

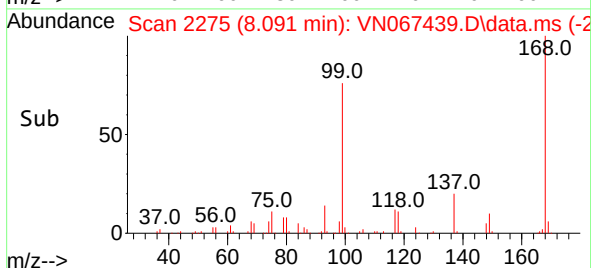
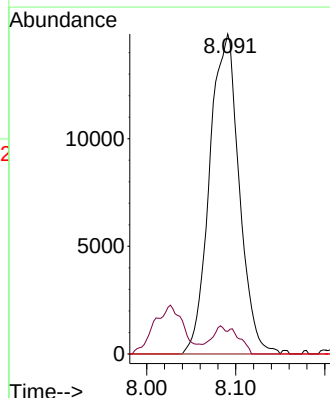
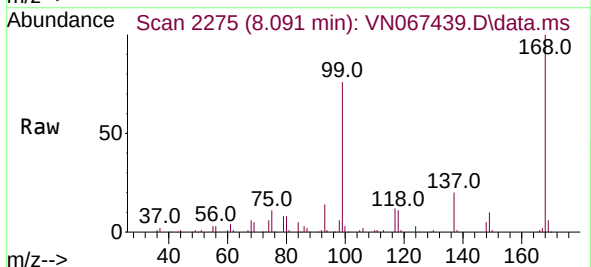
Instrument :
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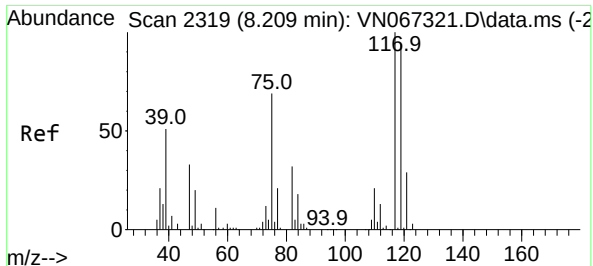
Tgt Ion:113 Resp: 196274
Ion Ratio Lower Upper
113 100
111 102.1 83.8 125.8
192 14.8 13.4 20.0



#36
1,1-Dichloropropene
Concen: 4.756 ug/l
RT: 8.091 min Scan# 2275
Delta R.T. -0.131 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

Tgt Ion: 75 Resp: 34308
Ion Ratio Lower Upper
75 100
110 2.3 15.7 47.0#
77 0.0 24.6 37.0#

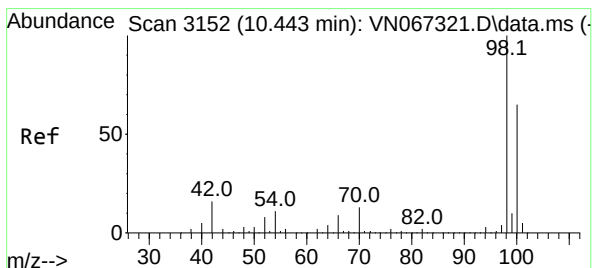
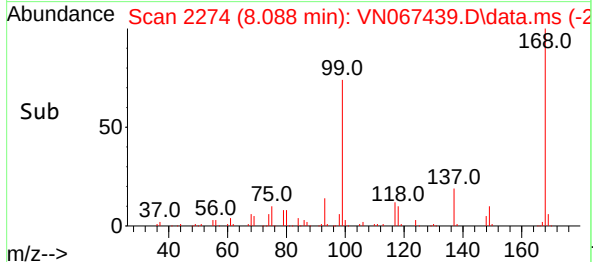
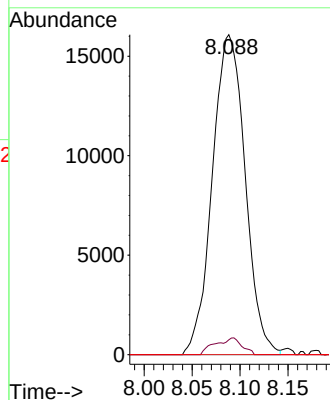
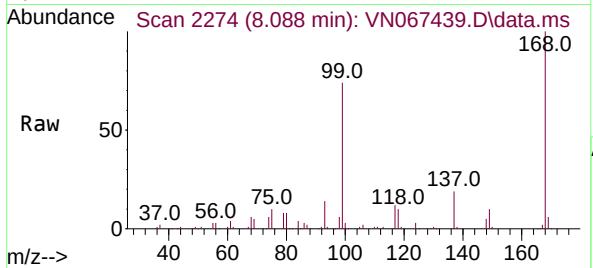




#38
Carbon Tetrachloride
Concen: 4.939 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.121 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

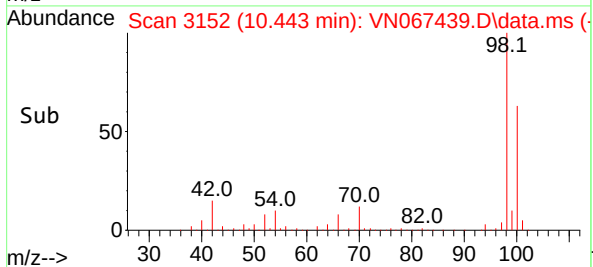
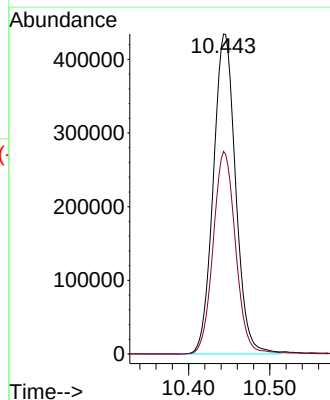
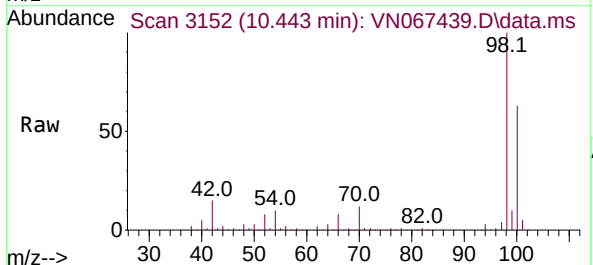
Instrument :
MSVOA_N
ClientSampled :
MW-8

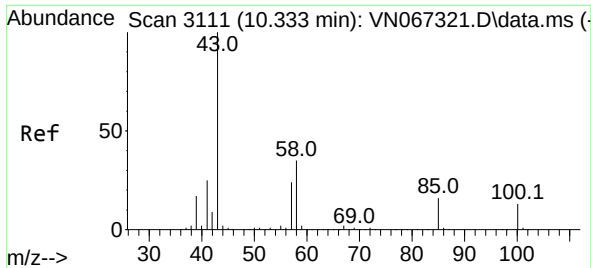
Tgt Ion:117 Resp: 38296
Ion Ratio Lower Upper
117 100
119 4.7 75.4 113.2#
121 0.0 23.5 35.3#



#50
Toluene-d8
Concen: 50.568 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. -0.000 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

Tgt Ion: 98 Resp: 829396
Ion Ratio Lower Upper
98 100
100 63.5 51.7 77.5

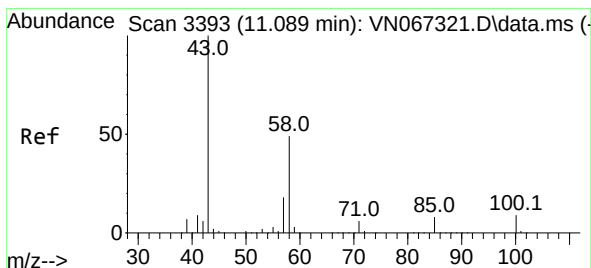
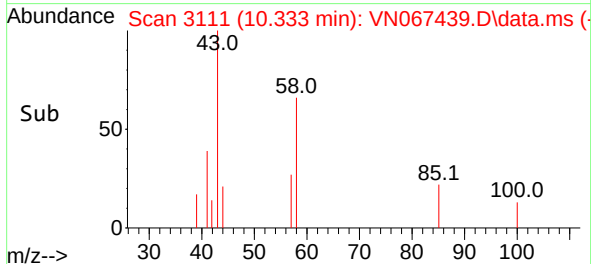
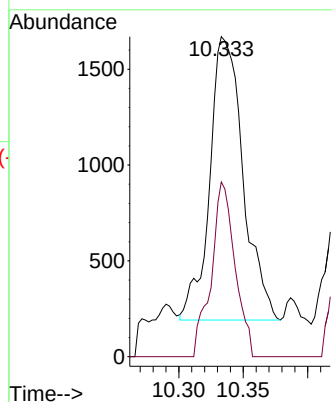
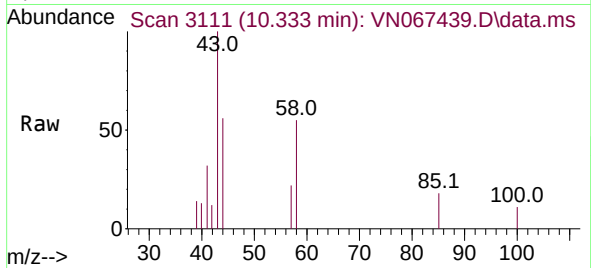




#51
4-Methyl-2-Pentanone
Concen: 0.339 ug/l
RT: 10.333 min Scan# 3111
Delta R.T. 0.000 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

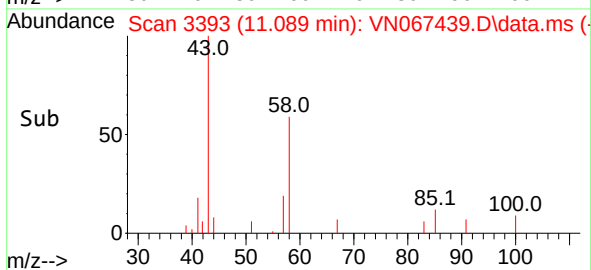
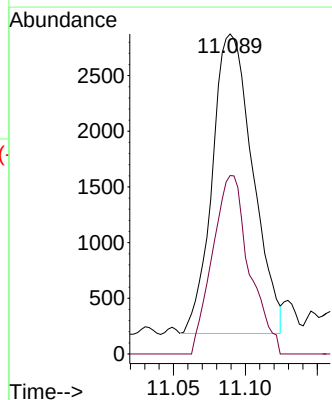
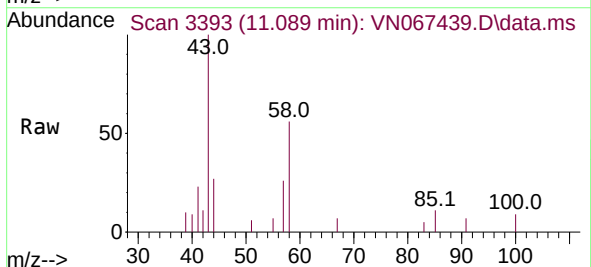
Instrument :
MSVOA_N
ClientSampled :
MW-8

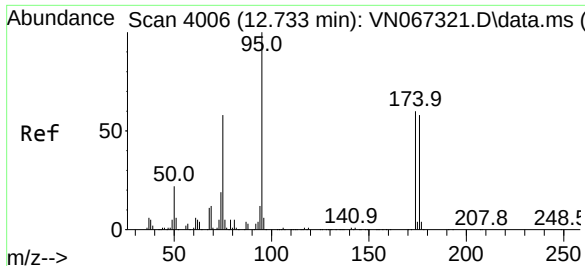
Tgt Ion: 43 Resp: 2674
Ion Ratio Lower Upper
43 100
58 43.5 28.6 43.0#



#59
2-Hexanone
Concen: 0.909 ug/l
RT: 11.089 min Scan# 3393
Delta R.T. 0.000 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

Tgt Ion: 43 Resp: 5261
Ion Ratio Lower Upper
43 100
58 54.3 24.7 74.1

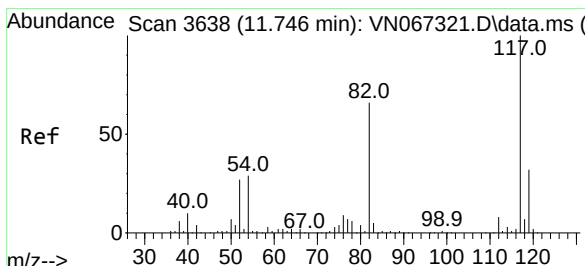
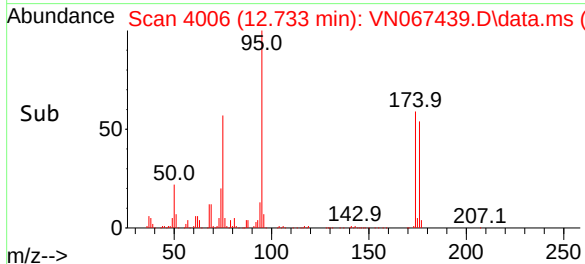
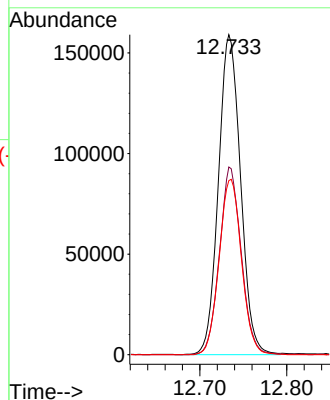
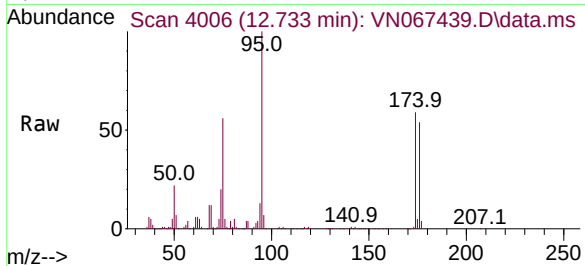




#62
4-Bromofluorobenzene
Concen: 41.585 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.000 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

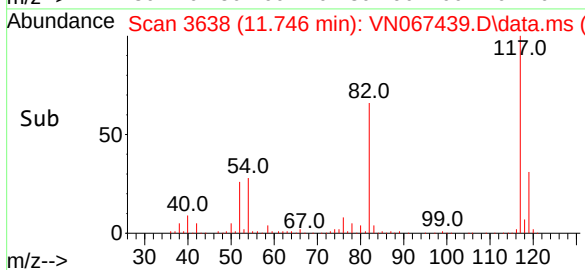
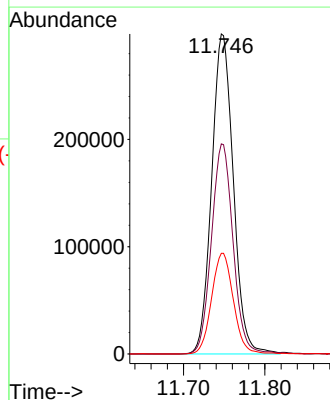
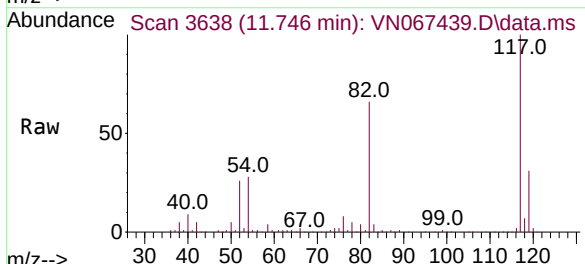
Instrument :
MSVOA_N
ClientSampleId :
MW-8

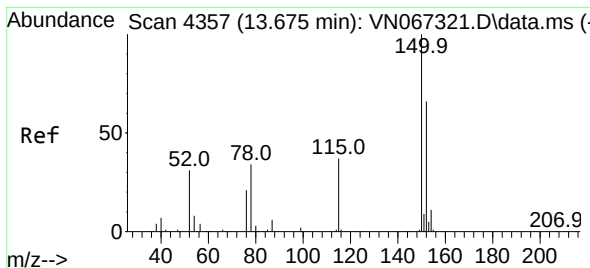
Tgt Ion: 95 Resp: 281479
Ion Ratio Lower Upper
95 100
174 57.7 0.0 122.0
176 55.4 0.0 117.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

Tgt Ion: 117 Resp: 552151
Ion Ratio Lower Upper
117 100
82 65.7 53.1 79.7
119 31.4 25.5 38.3

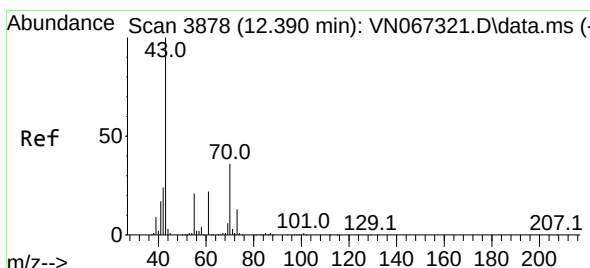
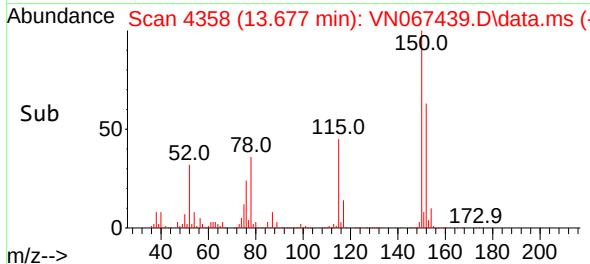
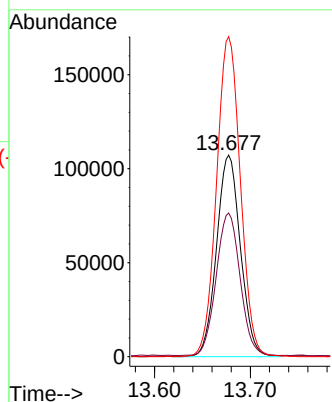
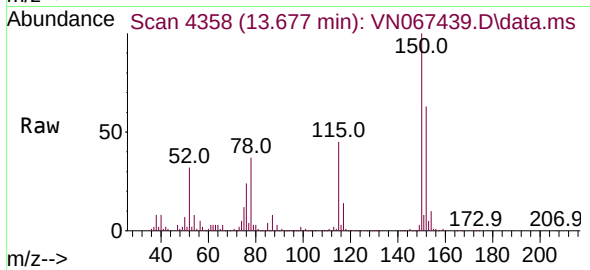




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.677 min Scan# 4358
Delta R.T. 0.003 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

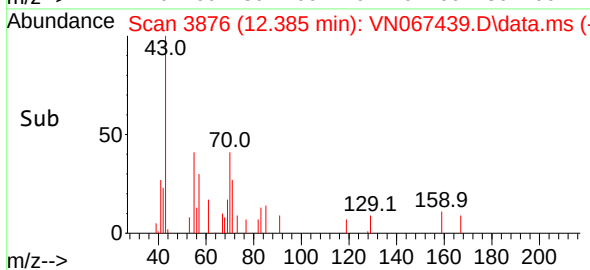
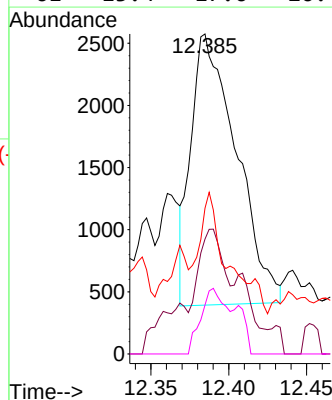
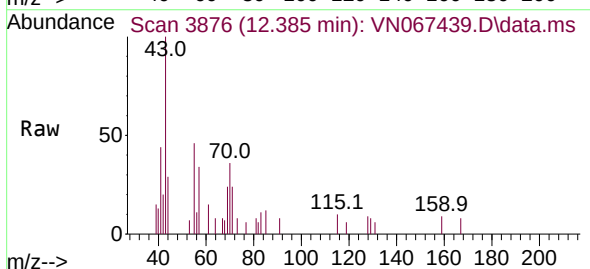
Instrument :
MSVOA_N
ClientSampleId :
MW-8

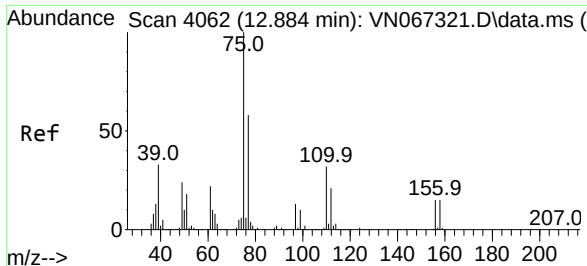
Tgt Ion:152 Resp: 185495
Ion Ratio Lower Upper
152 100
115 70.8 36.1 108.5
150 158.2 0.0 351.8



#74
N-ethyl acetate
Concen: 0.508 ug/l
RT: 12.385 min Scan# 3876
Delta R.T. -0.005 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

Tgt Ion: 43 Resp: 4416
Ion Ratio Lower Upper
43 100
70 15.7 29.4 44.2#
55 27.3 17.0 25.4#
61 13.4 17.6 26.4#

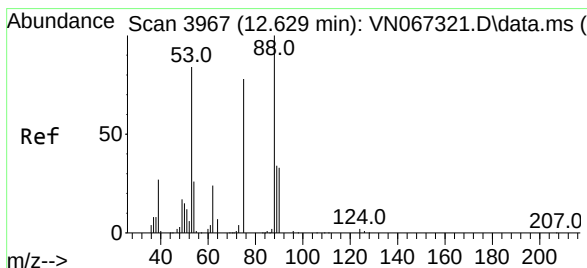
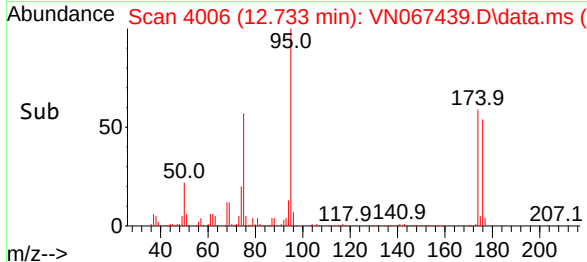
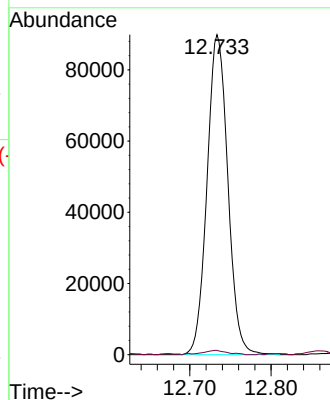
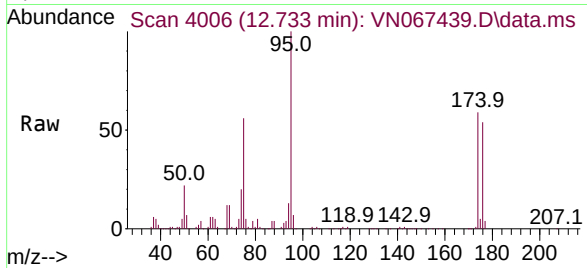




#76
1,2,3-Trichloropropane
Concen: 33.177 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.151 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

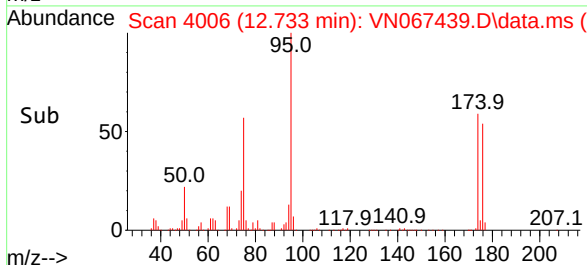
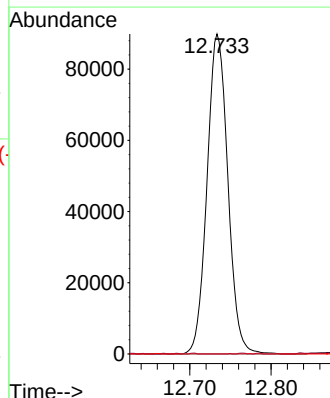
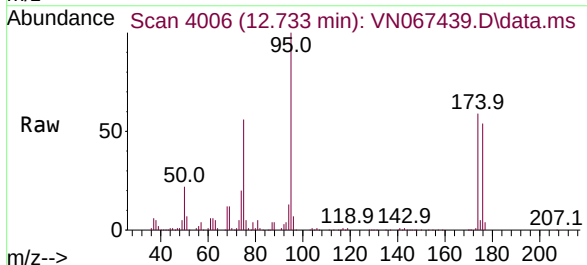
Instrument :
MSVOA_N
ClientSampleId :
MW-8

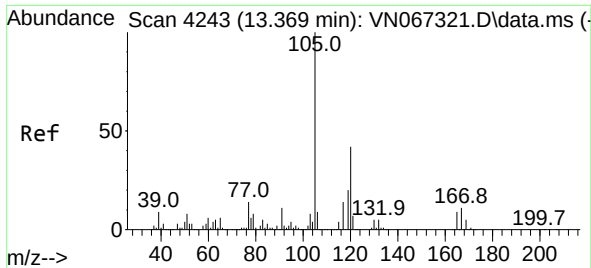
Tgt Ion: 75 Resp: 159816
Ion Ratio Lower Upper
75 100
77 0.9 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 82.224 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.104 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

Tgt Ion: 75 Resp: 159816
Ion Ratio Lower Upper
75 100
53 0.0 87.6 131.4#
89 0.0 37.8 56.8#

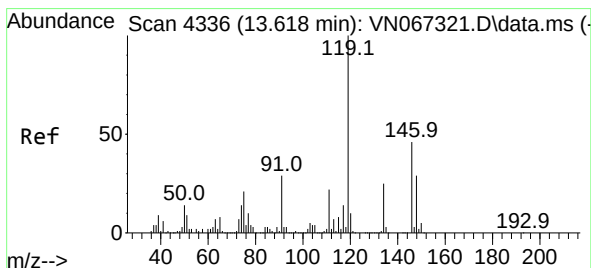
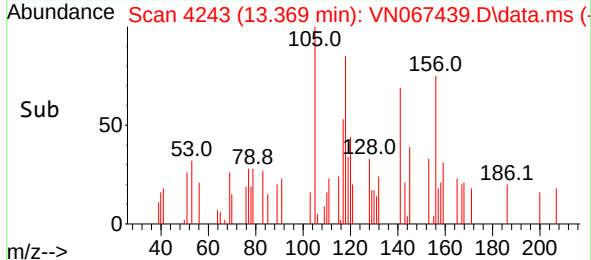
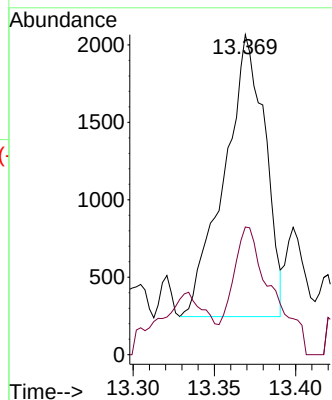
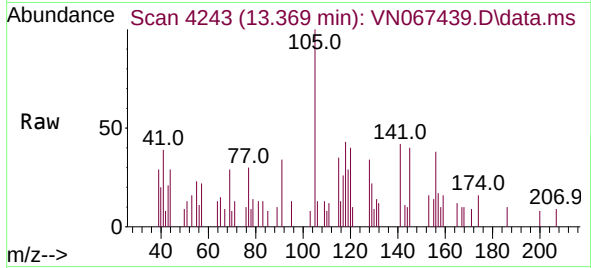




#84
1,2,4-Trimethylbenzene
Concen: 0.215 ug/l
RT: 13.369 min Scan# 4243
Delta R.T. 0.000 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

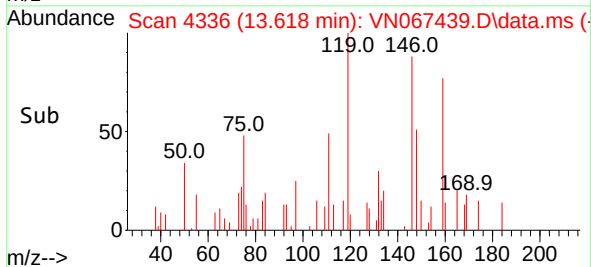
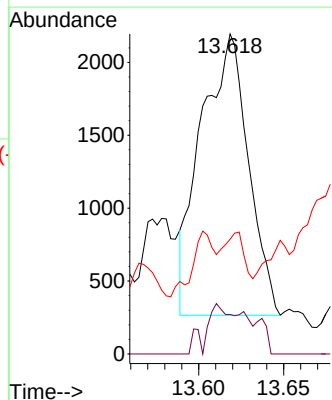
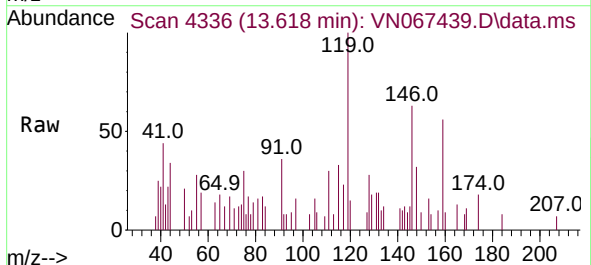
Instrument :
MSVOA_N
ClientSampled :
MW-8

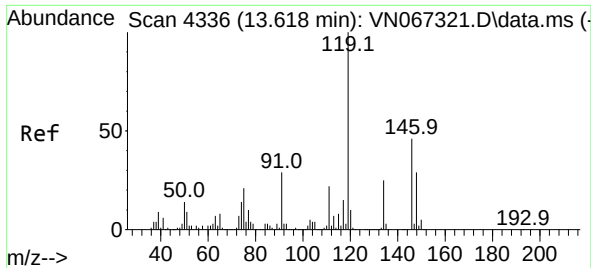
Tgt Ion:105 Resp: 3182
Ion Ratio Lower Upper
105 100
120 43.7 20.6 61.8



#86
p-Isopropyltoluene
Concen: 0.274 ug/l
RT: 13.618 min Scan# 4336
Delta R.T. 0.000 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

Tgt Ion:119 Resp: 3737
Ion Ratio Lower Upper
119 100
134 8.3 12.4 37.4#
91 0.0 14.8 44.3#

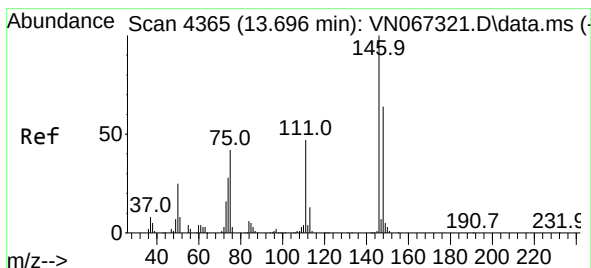
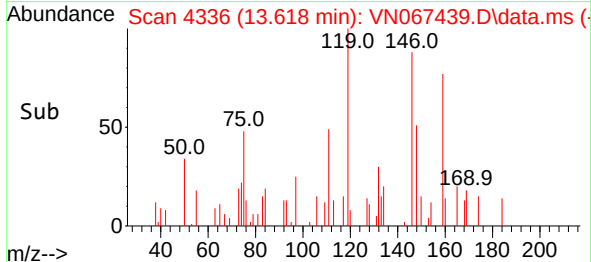
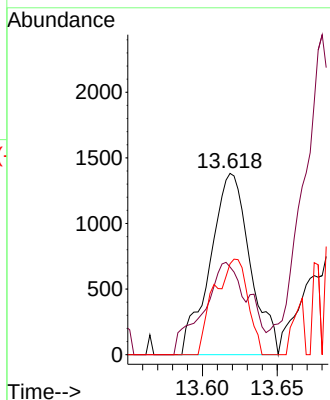
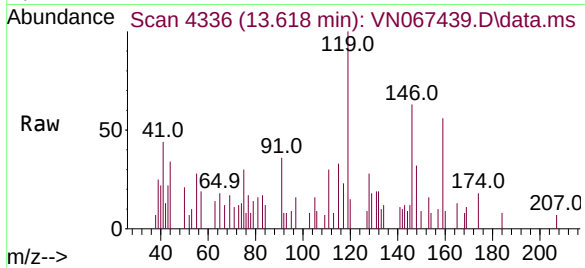




#87
1,3-Dichlorobenzene
Concen: 0.393 ug/l
RT: 13.618 min Scan# 4336
Delta R.T. 0.000 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

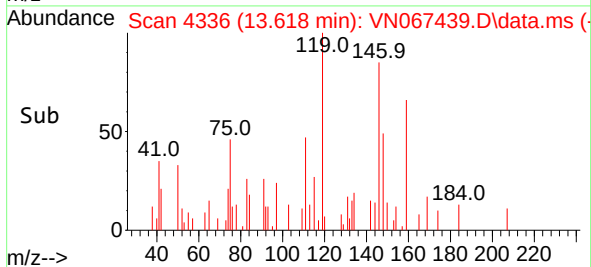
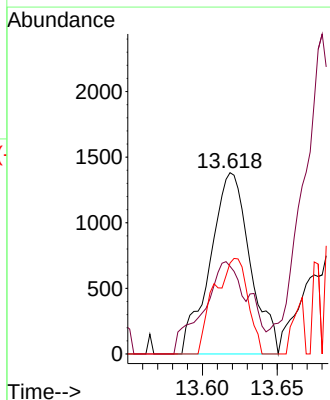
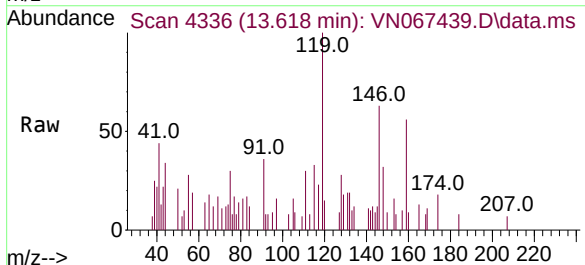
Instrument :
MSVOA_N
ClientSampled :
MW-8

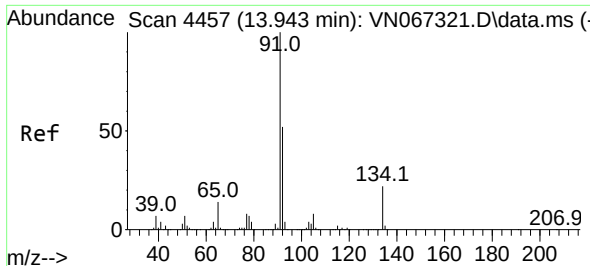
Tgt Ion:146 Resp: 2568
Ion Ratio Lower Upper
146 100
111 48.0 24.3 72.8
148 44.3 32.0 96.0



#88
1,4-Dichlorobenzene
Concen: 0.390 ug/l
RT: 13.618 min Scan# 4336
Delta R.T. -0.078 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

Tgt Ion:146 Resp: 2568
Ion Ratio Lower Upper
146 100
111 48.0 23.4 70.2
148 44.3 31.8 95.3

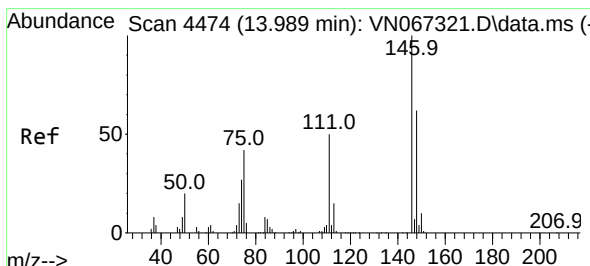
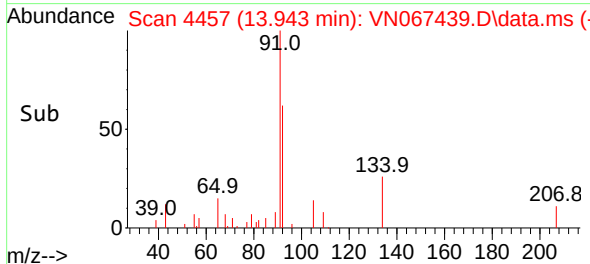
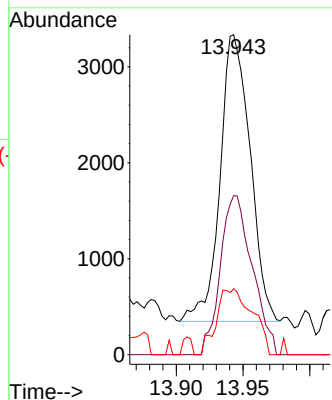
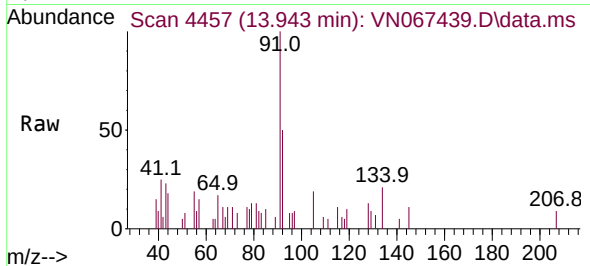




#89
n-Butylbenzene
Concen: 0.366 ug/l
RT: 13.943 min Scan# 4457
Delta R.T. -0.000 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

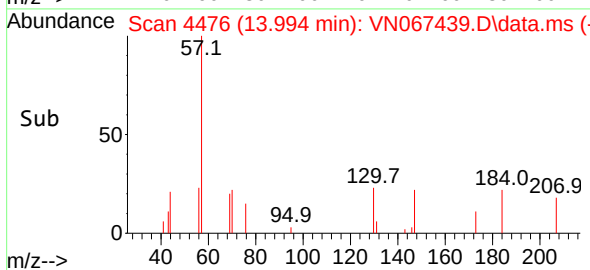
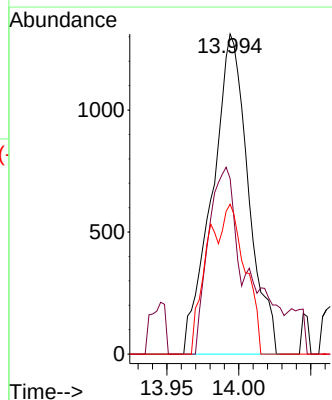
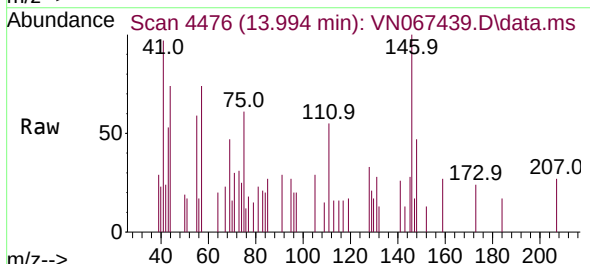
Instrument :
MSVOA_N
ClientSampleId :
MW-8

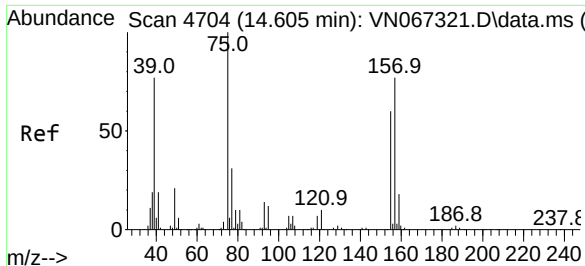
Tgt Ion:	91	Resp:	4696
Ion	Ratio	Lower	Upper
91	100		
92	58.6	25.7	77.1
134	27.4	11.2	33.6



#91
1,2-Dichlorobenzene
Concen: 0.369 ug/l
RT: 13.994 min Scan# 4476
Delta R.T. 0.005 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

Tgt Ion:	146	Resp:	2289
Ion	Ratio	Lower	Upper
146	100		
111	44.2	24.9	74.6
148	29.9	31.6	95.0

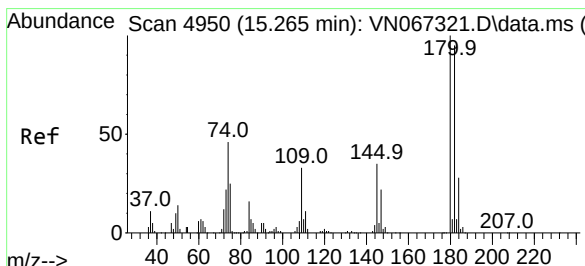
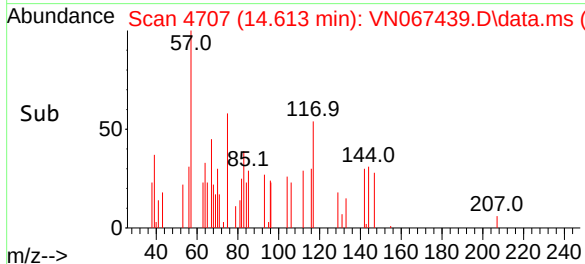
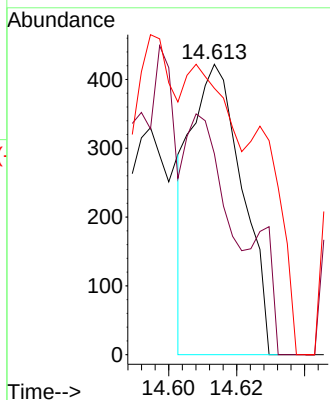
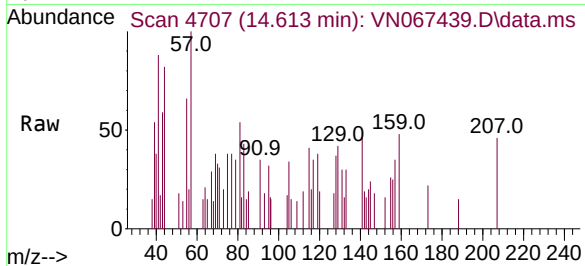




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.336 ug/l
 RT: 14.613 min Scan# 4707
 Delta R.T. 0.008 min
 Lab File: VN067439.D
 Acq: 22 Jun 2021 16:01

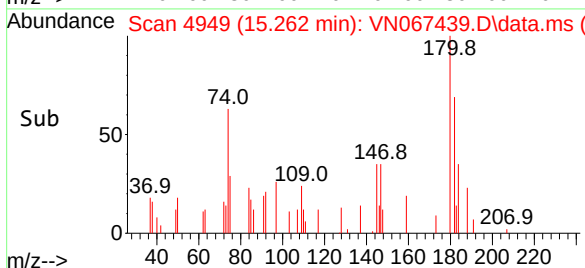
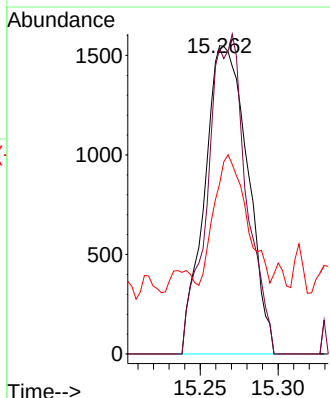
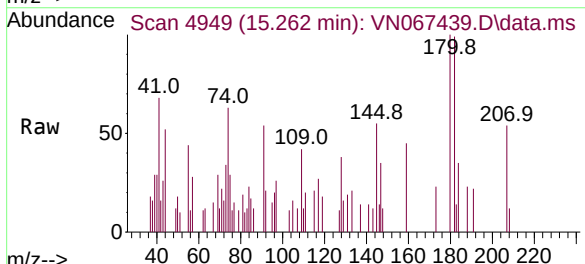
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-8

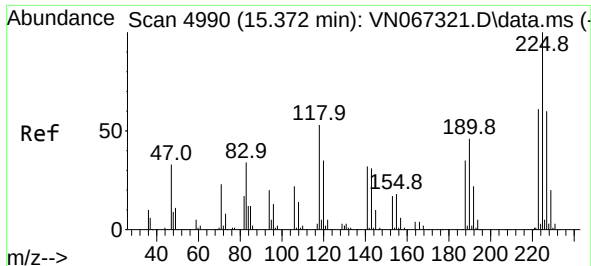
Tgt Ion: 75 Resp: 446
 Ion Ratio Lower Upper
 75 100
 155 0.0 29.8 89.5#
 157 0.0 37.6 112.8#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.919 ug/l
 RT: 15.262 min Scan# 4949
 Delta R.T. -0.003 min
 Lab File: VN067439.D
 Acq: 22 Jun 2021 16:01

Tgt Ion: 180 Resp: 2978
 Ion Ratio Lower Upper
 180 100
 182 94.0 47.5 142.5
 145 32.0 17.2 51.6

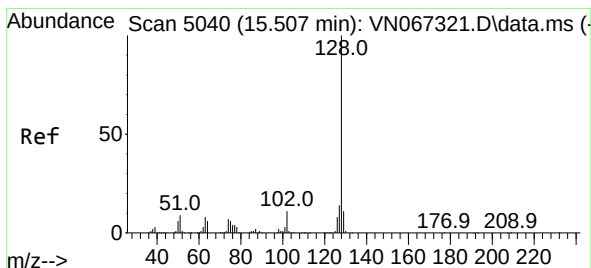
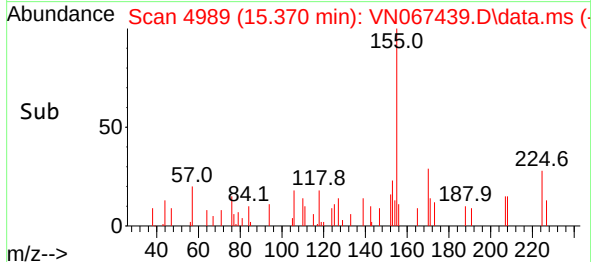
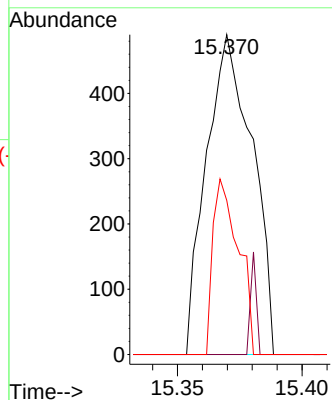
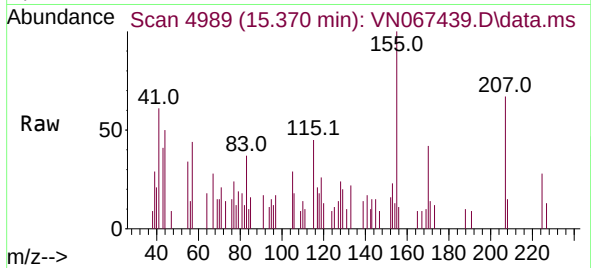




#94
Hexachlorobutadiene
Concen: 0.337 ug/l
RT: 15.370 min Scan# 4989
Delta R.T. -0.002 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

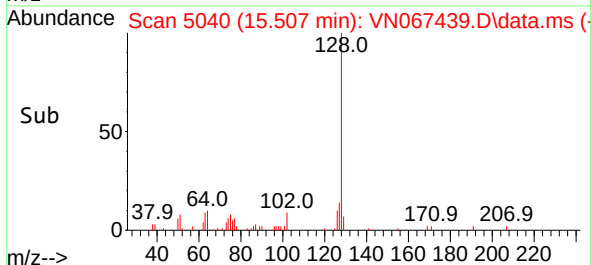
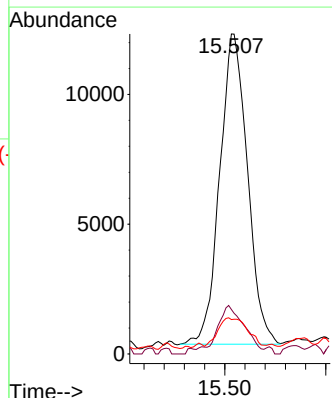
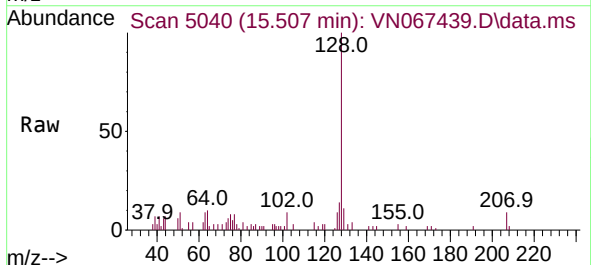
Instrument :
MSVOA_N
ClientSampleId :
MW-8

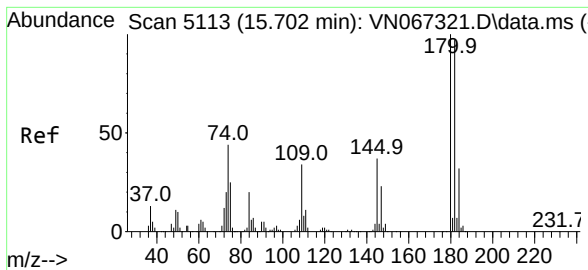
Tgt Ion:225 Resp: 626
Ion Ratio Lower Upper
225 100
223 4.0 31.4 94.0#
227 30.7 31.2 93.6#



#95
Naphthalene
Concen: 4.526 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. -0.000 min
Lab File: VN067439.D
Acq: 22 Jun 2021 16:01

Tgt Ion:128 Resp: 22807
Ion Ratio Lower Upper
128 100
127 15.4 10.6 15.8
129 9.5 8.6 12.8





#96
 1,2,3-Trichlorobenzene
 Concen: 1.294 ug/l
 RT: 15.702 min Scan# 5113
 Delta R.T. 0.000 min
 Lab File: VN067439.D
 Acq: 22 Jun 2021 16:01

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-8

Tgt Ion:	180	Resp:	4025
Ion Ratio	Lower	Upper	
180	100		
182	93.9	47.8	143.3
145	18.9	18.2	54.6

